







Renewable Energy Management Bureau Data Warehouse and Management Information System

Functional Specifications

Prepared by:
Honey Mae Samson
Individual Contractor

Presented to:

Department of Energy – Renewable Energy Management Bureau

Project Management Unit

RIS_FS_v0.2

CONFIDENTIAL

Internal distribution only

Table of Contents

1.	Document Management	4
	1.1. Document Approval	4
	1.2. Document Change History	4
	1.3. User Acceptance for this Functional Specifications	5
2.	System Overview	6
	2.1. Summary of Features	6
	2.2. System Configuration	7
	2.3. Workflow Steps	7
3.	System Architecture	.10
	3.1. As-Is High Level Architecture	.10
	3.2. To-Be High Level Architecture	.10
	3.3. Type of Information/data to be processed and stored	.11
	3.4. Security Features	.12
4.	Access Rights	.12
	4.1. User and Role Mapping	.13
	4.2. User and Group Mapping	.13
	4.3. Access Rights	.14
5.	System Flow Chart	.22
6.	Data Design	.25
	6.1. Entity Relationship Diagram	.25
	6.2. Attribute Definition	.25
7.	Module Design	.26
	7.1. General Functionalities	.26
	7.1.1 ystem Menu and Navigation	
	7.1.2	E
	rror and Notifications Handling	.29
	7.2. Screen Designs and Screen Objects	.30
	7.2.1	
	tandard Design	
	7.2.2og In and Registration Page	
	7.2.3	
	ashboard	

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

7.2.4	S
ummary List Tables	71
7.2.5	F
ile Management Module	71
7.2.6	C
alendar Module	72
7.2.7	0
perations Highlights Form Module	78
7.2.8	
aps Module	79
3. Website Module Design Reference	82
8.1. System Menu and Navigation	83
8.2. Website Footer	83
8.3. Error 404 Page	84
8.4. Public Pages	84
8.5. Data Contents and Visualization	87

M Must Have Feature
Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

1. Document Management

1.1. Document Approval

Project Name:	Renewable Energy Management Bureau (REMB) Web Application Portal			
Project ID:				
Version Number:	REMB_FS_v0.2			
Project Management Unit				
Role	Name	Signature	Date	
Capacity Development Associate	Anne Brigitte Lim			
Project Manager	Ricardo Torres			
Director, Renewable Energy Management Bureau (REMB)	Mylene C. Capongcol			
Chief, NREB-TSMD	Gaspar G. Escobar Jr.			
	Edward Neri			

1.2.

1.3. Document Change History

Version	Data Changed	Changed by	From	То	Reason for Change	Effective Date
v0.1		Honey Mae Samson		v0.1	First Draft	
v0.2		Honey Mae Samson	v0.1	v0.2	Based on REMB comments during the Solution Run Through	

1.4.

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

1.5. User Acceptance for this Functional Specifications

Signature Over Printed Name	Date
Signature Over Printed Name	Date

1.6.

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

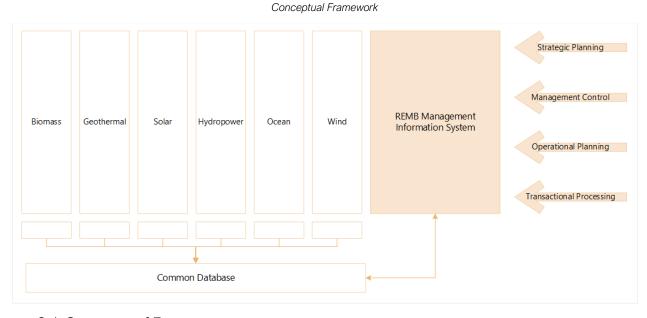
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

2. System Overview

The Renewable Energy Management Bureau Data Warehouse and Management Information System, also known as RIS, is a web-based application that will consolidate all the existing Renewable Energy Information available in different warehouses into a centralized database which will be made available through the internet. The system will aggregate the data and present them in a logical format that the REMB management can then use to aid them in the decision-making process.

A website will also be developed to host the integration and dissemination of the information from the RIS. (see REMB Website Functional Specifications Document).

Note: Covered in this document is the implementation of the requirements for REMB Phase 1 only.



2.1. Summary of Features

The RIS will be accessible to all concerned divisions and field offices of REMB based on the given access rights. The following activities can be performed in the system:

- □ MSystem registration and logging in
- MCustomization of dashboard
- □ MData and file management
- ☐ MGeneration of reports
- □ MUser and access management
- □ MCreate interactive Geographical Information System (GIS) and analyze spatial information
- □ S Work planning and management of schedules
- S Web form building

M Must Have Feature

Should Have Feature

C Could Have Feature

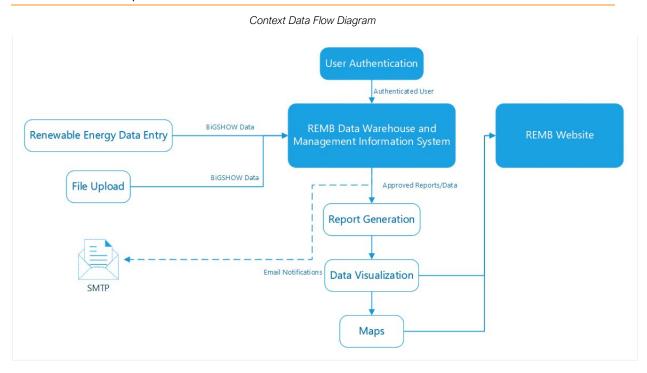
W Want/Wish Have Feature

- ☐ M Content Management System (CMS)
- ☐ MApproval and disapproval workflow
- Other features
 - o C Feedback and Complaints Form
 - o SRPS Requirements
 - C Quick Links to Policy Mechanisms

2.2. System Configuration

The web application can be accessed using any major web browser and should be mobile responsive. It requires connection to the internet in access application. After accessing the Uniform Resource Locator (URL), it can be used immediately without any further configuration.

2.3. Workflow Steps



- ☐ The user goes to a web page that embeds the workflow and login
- □ RIS Modules are configured so that the system will display different screen type as the type of permission changes. Also, the user only sees the relevant portion of the system, i.e. the Biomass division user does not see the Hydropower section of the Solar section
- ☐ All transactions will be displayed in the list table

Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

The data entered by the REMB concerned divisions are automatically populated for view of	þ
the Technical Services Management Division	

□ All data will be sent to the RIS database for generation of report and future use

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Functional Decomposition Diagram

RE Dashboard Customization	RE Data and RE Files Management	RE Report G	Seneration	RE Plants Report Generation	User and Access Management
Displays Statistics of RE Projects and details (per Energy Sector, per Field	RE Project Profile Information	Summary of Awarded RE Projects under RE law	Thermal Capacity Summary Report	Daily Operations Highlights	System Administration
Office) Displays RE metrics data through various mediums	Company and Contract Profile	Summary of Pending RE Projects under RE law	RDF Capacity Summary Report	Daily Operations Reports	User Management
RE Performance Assessment	FIT Monitoring	Summary Report by Energy Sector	Total Relinquished RESCS Report	Weekly Operations Highlights	Access Management
Easy-To-Read Charts and	Financial Commitment	Installed Capacity Summary Report	Total Terminated RESCS Report	Weekly Operations Reports	
Graphs	Green Jobs Generated	Potential Capacity Summary Report	Geothermal Power Performance		
		Additional Capacity Installation Report	Create customized reports		
	RE Project Status	Export Reports in a v	ariety of File Types		
	Upload and Download of RE data	Watermarke	ed Reports		

Geographical Information System (GIS)	Workplan and Schedule Management	Web Form Building	Customized Content Management System (CMS)	Audit Logging	Other Features
RE Resource Map	Create Appointments and Events	Online Form Builder	Publishing Control	Audit Trail Information	Feedback and Complaint Form
RE Resource Information	View Group Schedules	Create Unique Form Experiences	Detailed Analytics	Audit Trail Report	RPS Requirement
List of Potential Sites	Manage another user's Schedule/Calendar				Quick Links to Policy Mechanisms
List of Barangays at risk					Search and Data Filter Functions
List of Operational Powerplants					
Installed Capacity info per location					
Geothermal Potential					
Location Map of Targeted Biomass Capacity					

M Must Have Feature

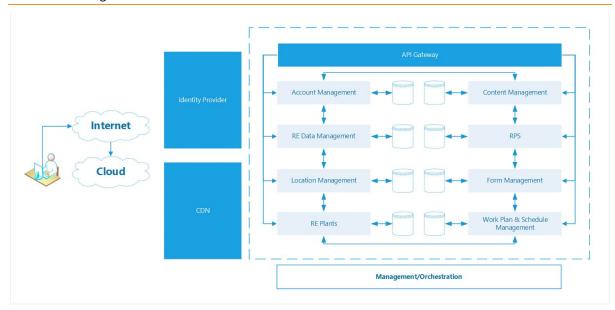
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

3. System Architecture

3.1. As-Is High Level Architecture

- □ N/A
- □ Renewable Energy Information is manually created, processed, stored, and managed

3.2. To-Be High Level Architecture



Microservices Architecture

Allows creating the REMB MIS application from a combination of small services. Each of these components will be created individually and deployed separately. As a result, they run their own processes. The services communicate with each other utilizing lightweight APIs. Services are not interdependent and can be changed without damage for other blocks.

Components

The RIS should have at least the following components:

- □ Operating System
- □ Presentation Layer
- □ Software Languages
- Database
- Hybrid Cloud Computing
- □ Blob Storage and File Storage
- ☐ Git Versioning
- ☐ Browser Compatibility (i.e. Chrome, Mozilla, Internet Explorer, Safari)

Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

3.3. Type of Information/data to be processed and stored

□ Account Information such as Agency, Division, Email Address, Contact Number, First Name, Last Name, Middle Name, Address, Password

Renewable Energy

- RE Project Profile such as Resources, Project Name, Commercial/Own-Use, On-Grid/Off-Grid, Grid, Region, Province, City/Municipality, Barangay, Location, Original Contract Area (Has), Potential Capacity, Installed Capacity, Thermal Capacity, RDF Capacity
- Additional Capacity Under Law such as Year, Installed Capacity
- Company Profile Information such as Company Name, Contact Person, Designation,
 Company Address, Contact Number, Fax Number, Email Address
- Contract Profile Information such as Contract Number, Certificate of Registration Number, Date Awarded, Stage of Contract, Mode of Awarding, Date of Declaration of Commerciality, Date of Certificate of Confirmation of Commerciality, Target Testing and Commissioning Date, Target Commercial Operation Date, Actual Commercial Operation Date, Term (Yrs.)
- Feed-In-Tariff Monitoring Board Information such as Date of Declaration of Commerciality, Date of Certificate of Confirmation of Commerciality, Date of Testing and Commissioning, Date of Target Commercial Operation, Date of Commercial Operation, Certificate of Endorsement (COE) Number, Date Signed of COE, Capacity (MW), Capacity Factor (%), Projected Annual Energy Production (GWH), Actual Annual Energy Production (GWH), Status
- Financial Commitment Information such as Cost of Investment, Signing Fee, Performance Bond, Development Assistance Fund, Training Fund
- o Green Jobs Generated information such as Type of Technology, Total Green Jobs Created
- Other RE Information such as Project Status, Remarks, Status of Compliances, Detailed Status, Issues and Concerns, Action Take, Recommendation, Contract Status, General Status, Date of Termination, Grounds for Termination, Status of Termination, Date of Relinquishment, Ground for Relinquishment

□ Renewable Portfolio Standards

- General Information such as Name of Mandated Participant in Full, Classification of Mandated Participant, Location of Mandated Participant, Contact Details, Percentage of Plants under FIT
- RPS Requirement Computation information such as NET Electricity Sales, Annual Incremental RE Percentage, RPS Requirement
- RPS Compliance Mechanism information such as PSA from Eligible RE Plants, NET Metering, RE Facility for Own-Use, Green Energy Option Program, Purchased from the RE Market, FIT Allocation, Total Eligible RECs
- RPS REC Account information such as REC Issued, REC Transferred, REC Sold, REC Surrendered, REC Retired, REC Expired, Beginning Balance, Ending Balance, REC Shortfall

Must Have Feature

Should Have Feature

^C Could Have Feature

W Want/Wish Have Feature

Other data to be determined

3.4. Security Features

To ensure that each component of the system is kept private and safe from access threats, the system is provided with the following security features.

- ☐ Authorization and Authentication
- □ Cryptographic Keys
- □ Access Control Categories
 - o Administrative Controls
 - User Identification and Authorization
 - Separation of Roles
 - o Physical Controls
 - Technical or Logical Control
- Input Validation Rules
 - Validation of Fields whether they are empty or include banned characters
 - Validation of selected option
 - Format checking
 - Validation of input sources
 - Displaying previous page
- □ Website Security Threats
 - SQL Injection
 - Cross Site Scripting (XSS)
 - File System Attacks
 - o On Insecure password

4. Access Rights

Hierarchy of People

M Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

TSMD Receiver (Sr. SRS)

Division Chief

- Supervising SRS Senior SRS
 - SRS I
 - SRS II
 - SRS III
 - Senior SRS
 - SRS I
 - SRS II
 - SRS III

4.1. User and Role Mapping

User	Role
NREB – TSMD Administrator	System Administrator
SRS I, II, III	Filer
Sr. SRS	Filer, Approver
Supervising SRS	Approver
Division Chief	Approver
Upper Management, ITMS, Other External Users	Watcher
TSMD Sr. SRS	Receiver

4.2.

4.3. User and Group Mapping

User	Group
NREB – TSMD Administrators	administrators

 $^{^{\}mathbf{M}}$ Must Have Feature

Should Have Feature

C Could Have Feature
W Want/Wish Have Feature

User	Group
NREB – TSMD Concerned Personnel	stud-users
Biomass Energy Management Division Concerned Personnel	biomass-users
Geothermal Energy Management Division Concerned Personnel	geothermal-users
Solar and Wind Energy Management Division Concerned Personnel	solar-wind-users
Hydropower and Ocean Management Division Concerned Personnel	hydro-ocean-users
Visayas Field Office Concerned Personnel	vfo-users
Mindanao Field Office Concerned Personnel	mfo-users
Luzon Field Office Concerned Personnel	Ifo-users
REMB Director, NREB TSMD Chief	watchers
Information Technology Management Services	itms-users
Other External Users	external-users

4.4.

4.5. Access Rights

Access rights are categorized as follows:

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
All Users	User Profile	☐ View and manage his/her profile
(Filers)		☐ Change the following information
		o Job Title
		o Division
		o Agency
		o Contact
		o Address
		□ Change his/her profile photo
		□ Change profile visibility
		□ Change his/her password
		□ Manage two-step verification
		□ View and manage recent devices (where the user is currently logged in)
	Dashboard	☐ Ability to create and customize his/her own dashboard
		□ Ability to share his/her Dashboard
		□ Ability to edit his/her own Dashboard Layout
		□ Ability to add, edit, delete his/her own Dashboard Gadget
	☐ Renewable Energy	☐ Ability to create/upload RE data
	□RPS	☐ Ability to save the created RE data
	□ File Manager	☐ Ability to send the created RE data to the Immediate Superior (e.g. Senior SRS/Chief SRS) for approval
		☐ Ability to edit the saved RE data
		□ Ability to edit the disapproved RE data
		□ Ability to create/edit/delete own attachments to the created RE data
		□ Ability to edit/delete own comments made on specific RE data

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
	Build Form	☐ Ability to create his/her own web form
		☐ Ability to save the created web form
		☐ Ability to send the created web form to the Immediate Superior for approval
		☐ Ability to edit the saved web form
		☐ Ability to edit the disapproved web form
Approver	☐ Renewable Energy	☐ Ability to edit submitted RE data
	□RPS	□ Ability to approve/disapprove submitted RE data
	□ File Manager	☐ Ability to send the RE data to the next approver
		☐ Ability to create/edit/delete own attachments to the submitted RE data
		☐ Ability to create/edit/delete own comments made on the specific RE data
		□ Required to input comment upon disapproval of the RE data
	Build Form	☐ Ability to edit the submitted web form
		☐ Ability to approve/disapprove the submitted web form
		☐ Ability to send the web form to the next approver
		☐ Ability to create/edit/delete own comments made on the specific web form
		□ Required to input comment upon disapproval of the web form

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
System	Settings	☐ Ability to manage system users
Administrator		o Add, Edit, Delete User
		o Invite User to join or grant user access
		o Export Users to CSV
		□ Ability to manage system roles
		 Add, Edit, Delete Role and associate to users and/or groups
		o Export Roles to CSV
		□ Ability to manage system groups
		o Add, Edit, Delete Group
		o Export Groups to CSV
		□ Ability to manage module access
		 View and configure which groups provide access to the modules
		 View and configure which users provide access to the modules
		☐ Ability to manage the General Configuration of the system
		 Specify the "From" header format in notification emails
		o Add, Edit, Delete Email Notification Introduction
		☐ Ability to manage Audit Log Settings
		o View system audit logs
		o Export audit logs
		o Generate audit logs report

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
NREB –	Dashboard	☐ Ability to view all created Dashboards
TSMD Users (Receiver)		☐ Ability to filter the Dashboard by Owner, Division and Date
		☐ Ability to view and edit all created RE data
		☐ Ability to return to the Filer the submitted RE data for further assessment
		□ Ability to view all uploaded RE data
		☐ Ability to return to the Filer the uploaded RE data for further assessment
		☐ Ability to generate RE reports
		☐ Ability to view all RE locations
		☐ Ability to view all created Web Forms
		☐ Ability to view all Events/Schedules
Solar and Wind Energy Management Division	Dashboard	☐ View all Solar and Wind RE Dashboards
	☐ Renewable Energy	☐ View all Solar and Wind RE data
	☐ File Manager	☐ View all Solar and Wind RE Summary Tables
		☐ Generate Solar and Wind RE Reports
	Maps	☐ View all Solar and Wind RE locations
		List of Awarded Solar and Wind RE Projects
		List of Pending Solar and Wind RE Projects
		o Location maps of Solar and Wind Projects
		List of Potential Solar and Wind Sites
		Wind Electric Potential map
Biomass Energy	Dashboard	View all Biomass RE Dashboards
Management	☐ Renewable Energy	□ View all Biomass RE data
Division	☐ File Manager	□ View all Biomass RE Summary Tables
		□ Generate Biomass RE Reports

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
	Maps	☐ View all Biomass locations
		List of Awarded Biomass RE Projects
		List of Pending Biomass RE Projects
		 Location maps of Biomass RE Projects
		 Location Map of Targeted Biomass Power Capacity
Geothermal Energy	Dashboard	View all Geothermal RE Dashboards
Management	☐ Renewable Energy	☐ View all Geothermal RE data
Division	□ File Manager	☐ View all Geothermal RE Summary Tables
		☐ Generate Geothermal RE Reports
	Maps	☐ View all Geothermal locations
		List of Awarded Geothermal RE Projects
		List of Pending Geothermal RE Projects
		o Location maps of Geothermal RE Projects
		o Location map of Geothermal Plants
Hydropower and Ocean	Dashboard	View all Hydropower and Ocean RE Dashboards
Energy	☐ Renewable Energy	☐ View all Hydropower and Ocean RE data
Management Division	□ File Manager	☐ View all Hydropower and Ocean RE Summary Tables
DIVISION		☐ Generate Hydropower and Ocean RE Reports
	Maps	☐ View all Hydropower and Ocean locations
		List of Awarded Hydropower and Ocean RE Projects
		o List of Pending Hydropower and Ocean RE Projects
		Location maps of Hydropower and Ocean RE Projects
		o Location map of Hydropower Plants

M Must Have Feature
Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
LFO	Dashboard	View all RE data located in Luzon Grid Dashboards
	□ Renewable Energy	☐ View all RE data located in Luzon
	□ File Manager	□ View all Luzon Grid RE Summary Tables
		☐ Generate Luzon Grid RE Reports
	Maps	□ View locations under Luzon Grid
		List of Awarded RE Projects in Luzon
		o List of Pending RE Projects in Luzon
		o Location maps of RE Projects in Luzon
		Location map of Hydropower Plants in Luzon
		o Location map of Geothermal Plants in Luzon
		o Potential Sites in Luzon
VFO	Dashboard	View all RE data located in Visayas Grid Dashboards
	☐ Renewable Energy	☐ View all RE data located in Visayas
	□ File Manager	□ View all Visayas Grid RE Summary Tables
		☐ Generate Visayas Grid RE Reports
	Maps	☐ View locations under Visayas Grid
		List of Awarded RE Projects in Visayas
		List of Pending RE Projects in Visayas
		o Location maps of RE Projects in Visayas
		o Location map of Hydropower Plants in Visayas
		o Location map of Geothermal Plants in Visayas
		o Potential Sites in Visayas
MFO	Dashboard	View all RE data located in Mindanao Grid Dashboards

M Must Have Feature

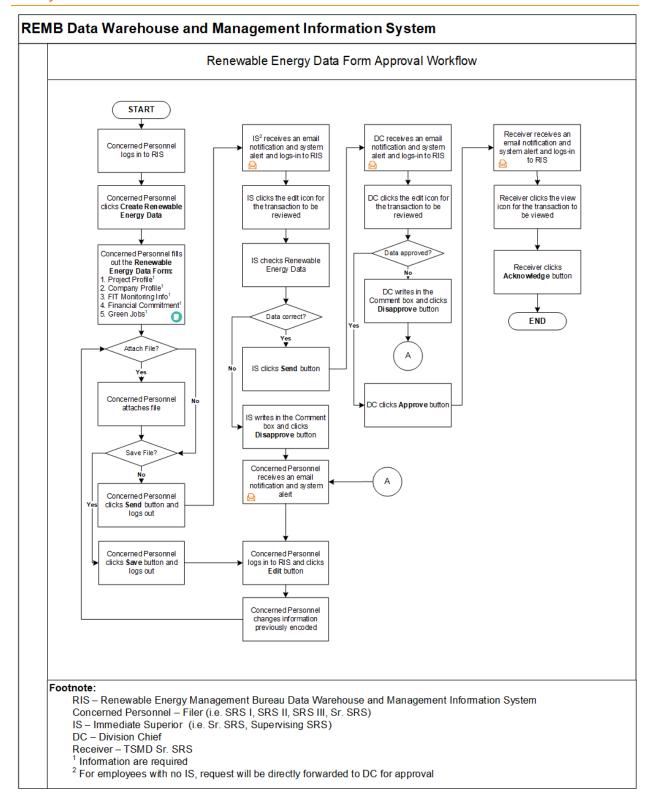
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Role/Group	Module	Access Rights
	□ Renewable Energy □ File Manager	 □ View all RE data located in Mindanao □ View all Mindanao Grid RE Summary Tables □ Generate Mindanao Grid RE Reports
	Maps	 □ View locations under Mindanao Grid o List of Awarded RE Projects in Mindanao o List of Pending RE Projects in Mindanao o Location maps of RE Projects in Mindanao o Location map of Hydropower Plants in Mindanao o Location map of Geothermal Plants in Mindanao o Potential Sites in Mindanao
Watcher	Dashboard	☐ View all RE Dashboards ☐ No Create, Update and Delete functions
	□ Renewable Energy □ File Manager	□ View all RE data□ View all RE Summary Tables□ No Create, Update and Delete functions
	Maps	 □ View all RE Maps o List of Awarded RE Projects o Location maps of RE Projects o Location map of Hydropower Plants o Location map of Geothermal Plants o Potential Sites □ No Create, Update and Delete functions

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

5. System Flow Chart

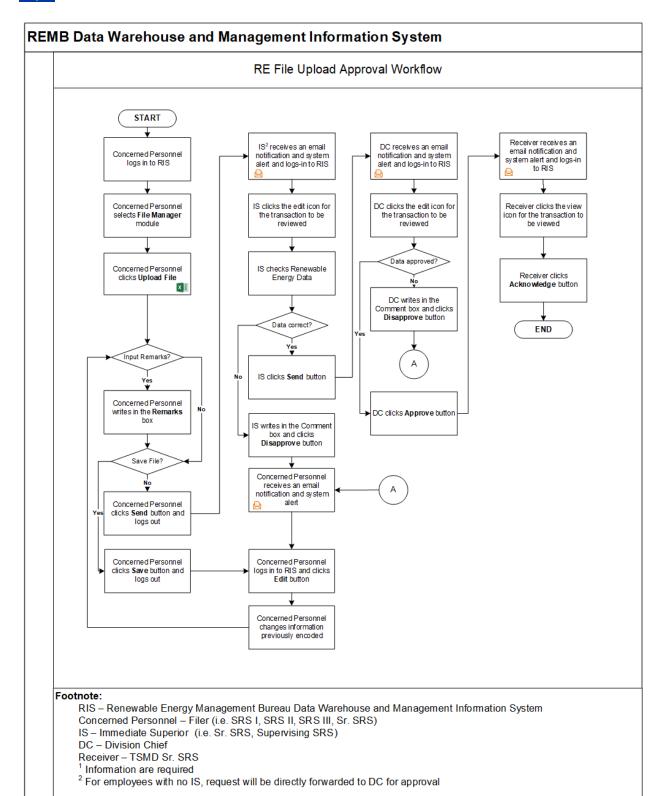


Must Have Feature

Should Have Feature

^C Could Have Feature

W Want/Wish Have Feature

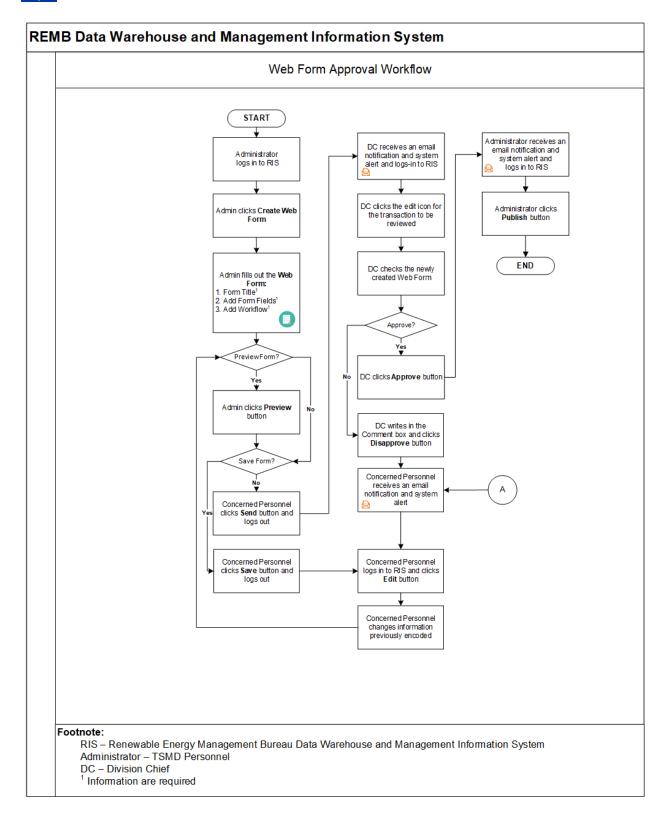


 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature



 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

6. Data Design

6.1. Entity Relationship Diagram

6.2. Attribute Definition

Representative logical data types and their domains

Data Type	Logical Business Meaning	Domain Standard
NUMBER	Any number, real or integer	For integers, specify the range; {minimum-maximum} For real numbers, specify the range and precision; {minimum precision-maximum precision}
TEXT	A string of characters, inclusive of numbers. When numbers are included in the TEXT attribute, it means we do not expect to perform arithmetic or comparisons with those numbers	{maximum size of attribute} Actual values are usually infinite. However, users may specify certain narrative restrictions
DATE	Any date in any format	Variation on the MMDDYYYY format. To accommodate 2000, do not abbreviate year to YY. Formatting characters are rarely stored; therefore, do not include hyphens or slashes
TIME	Any time in any format	For AM/PM times, HHMMT or For Military times, HHMM
BOOLEAN	An attribute that can only assume one of these values	{TRUE, FALSE}
VALUE SET	A finite set of values. In most cases, a coding scheme would be established	{value#1, value#2,, value#n} or {table of codes and meanings}
IMAGE	Any picture or image	Not applicable

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

7. Module Design

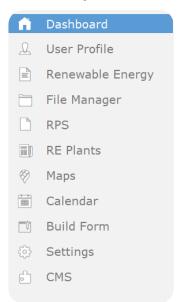
7.1. General Functionalities

7.1.1. System Menu and Navigation

The RIS is tabbed application, which consists of eleven (11) major tabs. Main Menus will be used to navigate features of the system and guide the user to the action or information they seek.

The following are the menus of the REMB Datawarehouse and Management Information System (RIS):

RIS Navigation Pane



#	Object	Description
1	M Menus	□ Shows list of configured pages that includes: Dashboard, User Profile, Renewable Energy, File Manager, RPS, RE Plants, Maps, Calendar, Build Form, Settings, and CMS.
		☐ Menus are displayed on each page of the system.
		□ Active menu is highlighted. Inactive menu items are grayed out.
		□ "Dashboard" is the default select menu upon logging in.
		Able to do Backward Navigation where user will be allowed to jump to previous menu, main menu, or other menus.

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

^S Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

2	M Search	□ User-defined field
		Allows user to search from contents of files (PDF file, Excel file, Word file, and Forms) displaying the necessary information.
		☐ Search box search is displayed on each page of the system.
		Position: Upper right corner of the screen
		REMB Datawarehouse and Management Information System
		Hello, Honey Samsont Default Dashboard CELATE GAMMAND CELATE GAMMAND

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

3 ^c Notification ☐ The system shall provide users with ability to send and receive alerts Bell & notifications from the system on certain preconfigured data update events. The events details shall be derived from respective functional areas (e.g. "Biomass report 2019 has been updated.") ☐ Pre-configured data events and updates are: Create, Update, Delete RE Project, RPS data, Web Form, RE plants data Send, Submit, Approve/Disapprove RE Project, RPS data, Web Form, RE plants data Upload File Create, Update, Delete User Create, Update, Delete and Share Dashboard, Calendar Events Generate Report Notifications Honey Samson updated the 1 MW Pepsi **Biomass Power Plant Project** 5 days ago Employee 1 approved the Mina 17.5 MW Biomass Power Plant Project 7 days ago Administrator revoked Employee 3 access 28 days ago On load of load page, enabled On load, mark a small 'red' circle that will serve as an alert that the current user has unseen notifications,

On click, load Notifications modal

M Must Have Feature

Should Have Feature

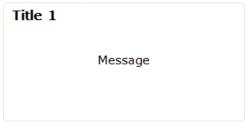
^C Could Have Feature

W Want/Wish Have Feature

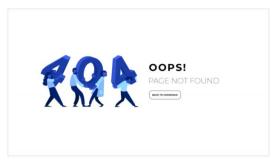
4 W Help icon		☐ This links directly to the REMB Datawarehouse and Management Information System (RIS) Documentations:
		Getting Started
		RIS Documentation
		<u>User Management</u>
		Renewable Energy
		File Manager
		RPS
		RE Plants
		Maps
		Calendar
		Build Form
		RIS Administration
		CMS Administration
		About RIS
		Copyright

7.1.2. Error and Notifications Handling

a) C Error/Notification Messages are displayed in the form of alert box pop-up window



- b) ^c Error/Notification boxes should be identical in each menu, and should be placed in same position
- c) M For Fill-in Forms, error messages should be displayed for unacceptable values. Provide semantic and syntactic information is error messages, e.g. characters not accepted in Date Field (syntactic), February dates range from 1 to 19 (semantic)
- d) M Error 404 Page



Page where the user will be redirected upon attempting to access a non-existent page. This page will feature the following items:

Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

#	Object	Description
1	Heading Text	Displays the "OOPS! PAGE NOT FOUND." Text
2	Subtext	Block of text below the heading text
3	Command Button	On click event, button name "Back to Home page"
4	Button Link	On load event, redirects the user to Home page

7.2. Screen Designs and Screen Objects

7.2.1. Standard Design

#	Object	Description
1	Font Style	Use Verdana
2	Font Size	 Form Title: 14 Field Name: 12 Field Entry: 12 Buttons: 12
3	Font Required Field Asterisk (*)	Red (color code: #ad0011) e.g. *This is a required field
4	Alignment	 Field Entry: Vertical Alignment – Left, Horizontal Alignment – Center Buttons: Vertical Alignment and Horizontal Alignment – Center

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

#	Object	Description
5	Summary List Table	 Font: Verdana, 12 SHOW <> ENTRIES, SEARCH BOX: Not Bold MY <form description="">: Align Left, same alignment with SHOW <> ENTRIES AND SHOWING <> TO <> OF <> ENTRIES</form> Alignment of Text in the Table: Center One color for even transactions, another color for odd transactions. Please note that the color of the row should be consistent across all fields
6	System URLs	Should provision a unique URL per page e.g. remb-mis/login, remb-mis/register

7.2.2.

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

7.2.3. Log In and Registration Page

Main Screen 1 – Login Page

RENE	VABLE ENERGY MANAGEMENT BUREAU						
REMB Datawarehouse and Management Information System							
Email							
Password	⊚						
	Forgot Password?						
L	GGIN						
Don't have ar	account yet? Create						
2020 Rer	ewable Energy Management Bureau. All Rights Reserved.						

Menu Path 1: RIS Landing Page

Menu Path 2: REMB Website > Login

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		
Header	Display	NA	NA	Web Page	-Should display the following: REMB logo Renewable Energy Management Bureau REMB Datawarehouse and Management Information System		

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable						
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior	
Email	Editable	М	'email'	Text	-Minimum login identifier for all users is 'Email Address'	
					-If email address is not existing, the system will display an error message and allow user to retry entry	
					-If email address is not yet verified, the user will not be able to login (see Registration Screen validations for email verification standards)	
Password	Editable	М	'password'	Text	-User account shall be locked out after a maximum of ten (10) consecutive invalid login attempts within an hour	
					-Validate Password	
					 Invoke the password encryption function to encrypt user's password 	
					If password is incorrect, the system will display an error message and allow user to retry entry	
					 User password must be active in status 	
Show/Hide Password	On Click	0	NA	Toggle	-Toggle between password visibility -If enabled, user will be able to see his/her password	

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

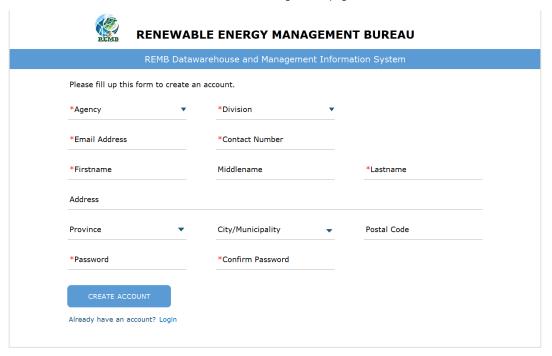
Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable						
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior	
Forgot Password	Sub Window	0	NA	Hyperlink	-User may reset password if he/she forgot it	
	Call				-Once clicked, the system will display the Forgot Password window	
					-Fields are:	
					 Enter Email Text Box – user should enter a valid email address 	
					 Reset Password command button – Once this button is clicked, 'New Password' will be sent to the inputted email address 	
					 Login hyperlink – user will be redirected to the Log in page 	
Login	On Click	М	NA	Command Button	-Only active users will be able to login -Once clicked, the user will be redirected to RIS Dashboard page	
Create	Sub window call	0	NA	Hyperlink	-User will be redirected to the Registration page	
Footer	Display		NA	Text	© 2020 Renewable Energy Management Bureau. All Rights Reserved.	
Copyright Year	Dynamic	NA	'full_year'	YYYY	-Automatic year update	
					-Get Full Year	
Validations						
	Scena	rio		Message		

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Function Entry Column Name Type Type Name		Display Format	Behavior				
If email add existing	dress and/d	or pass	word is not	"Email Address or Password is incorrect!"			
Reached 10 hour	invalid logir	n attemp	ots within an	"Your account has been locked. Please try again after two hours."			
				Note: Urgent request to unlock in a shorter time shall be escalated to the RIS administrator for manual unlocking			
If inactive em	nail address	is used	upon logging	"Your account is inactive. Please contact your Administrator to activate your account."			

Main Screen 2 – Registration page



Menu Path 1: RIS URL > Login > Create

Menu Path 2: REMB Website > Register

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		
Agency	On select	M	'agency'	Dropdown	-User defined field -Options are: Department of Energy New Agency>		
Division	On select	M	'division'	Dropdown	-User defined field -Options are: REMB – Biomass REMB – Geothermal REMB – Solar and Wind REMB – Hydropower and Ocean NREB – TSMD REMB Office of the Director DREAMS PMU Luzon Field Office Visayas Field Office Mindanao Field Office New Division>		
Email Address	Editable	M	'email_address	Textbox	-If the email address is invalid, the system will display an error message and allow user to retry entry		
Contact Number	Editable	М	'contact_no'	Textbox	-Numbers only constraint -Maximum of 20 characters		

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		
First Name	Editable	М	'first_name'	Textbox	-Alphanumeric -Maximum of 50 characters		
Middle Name	Editable	M	'middle_name'	Textbox	-Alphanumeric -Maximum of 50 characters		
Last Name	Editable	M	'last_name'	Textbox	-Alphanumeric -Maximum of 50 characters		
Address	Editable	0	'address'	Textbox	-Alphanumeric -Maximum of 100 characters		
Province	On load function	Ο	'province'	Dropdown	Displays list of provinces		
City/Municipalit y	On load function	0	'city'	Dependen t Dropdown	-Displays list of cities -Populates cities within the selected 'Province'		
Postal Code	Editable	0	'post_code'	Textbox	-Numbers only constraint -Maximum of 4 characters		

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		
Password	Editable	M	'password'	Textbox	-Use the pattern attribute inside to set a restriction for submitting the form: • It must be at least 8 characters long • Support maximum of 64 characters in length • Combination of alphanumeric characters and upper-lower case characters -Password hints are not required -Should contain password strength indicator (Fair, Strong, Very Strong) • Fair • Fair – 8 characters long • Strong – 12 characters long • Very strong - 12 to 64 characters long -The password shall not be the same as the email address/user account		
Confirm Password	Editable	M	'password'	Textbox	-Alphanumeric -If the value of the Confirm Password do not match the value of the Password field, an error message will be displayed		

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable								
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior			
Create Account	On Click	M		Command Button	-Upon clicking, the system will send an email verification link to the inputted/registered email address			
					-Once user has verified his/her account, the Immediate Superior will receive an email alert and approve/disapprove the request			
					-Once IS has approved the User Account, the RIS admin will receive an email alert and approve/disapprove the request			
					-Once clicked, values of the Password and Confirm Password are fetched and are compared			
Login	On click	0		Command button	-User will be redirected to login page			
Validations								

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		

- All fields with asterisk (*) are required fields
- The user needs to provide the following minimum information:
 - Agency
 - Division
 - Email Address
 - Contact Number
 - First Name
 - Last Name
 - Password
 - Confirm Password
- Email verification will be sent to the registered email upon creation of the account
- Once email address has been verified, the system will trigger the User Account Approval workflow
- Hash passwords when stored
- Errors encountered during login shall not explicitly explain the cause of failure on the application side
- Test accounts shall be removed/disabled within the system
- The system shall not accept spaces and null values for the email address format
- The system shall accept valid email address only

Scenario	Message			
Email Verification	Hi <first name="">, Thanks for getting started with REMB Datawarehouse and Management Information System! Click below to confirm your email address: <confirmation link="">. Thanks, REMB Support</confirmation></first>			

Must Have Feature

Should Have Feature

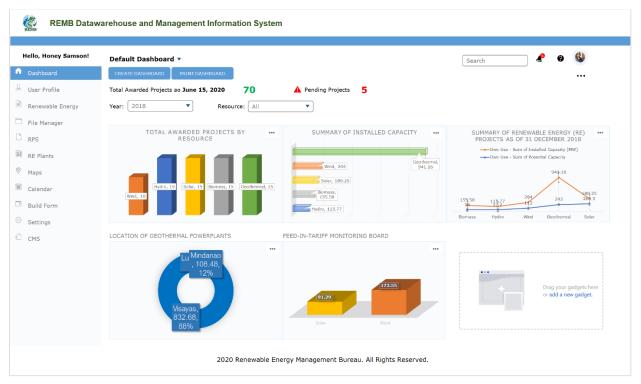
^C Could Have Feature

W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior		
Password Valida	tions			Your password must contain the following: A combination of upper-lower case ✓ A combination of alphanumeric X Minimum 8 characters X			
Duplicate Accou	nt shall be	rejecte	d by the system	"The email address is taken. Try another."			
Invalid Email Add	dress			"Invalid email address. Try another."			
If contact number	er is below	10 char	acters	"Contact Number must be at least 10 numbers."			
Password and C	onfirm Pas	sword o	do not match	"Passwords do not match."			

7.2.4. Dashboard

Main Screen 3 – Dashboard Page (Basic User)

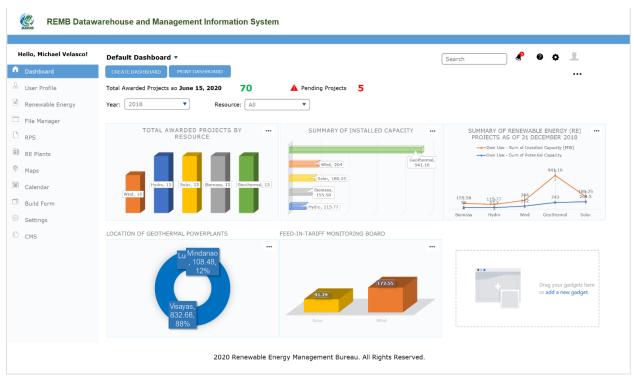


Main Screen 4 – Dashboard page (Admin View)

M Must Have Feature
S Should Have Feature

C Could Have Feature

W Want/Wish Have Feature



Entry Type: (M)N	Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable							
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior			
Header	Display	NA		Text	-Header is displayed on each page of the system -Displays the REMB logo -Displays the System Name "REMB Datawarehouse and Management Information System"			
Hello, <employee Name></employee 	On load	NA	'current_em p'	Text	-Hello; static text -Employee Name The system displays the Full name of the current logged in user On load of load page, enabled			

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable								
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior			
User Profile icon	On Click	O		Profile icon	-Displays the following Profile Account Settings Logout HONEY SAMSON Profile Account settings Log out *see Profile page, Account Settings and Logout validation			

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (i	NA) Not Applicabl	е	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Dashboard Dropdown	On select	0		Dropdown	-Default Display: Default Dashboard -The user can have multiple Dashboards -Options are: - Current logged in user's Created Dashboards - Shared Dashboards - View All Dashboard — this option is available only to TSMD - Default dashboard - Test Dashboard - The dashboard can be shared with specific Groups or Users in certain roles or by division - Once "View All Dashboard" is clicked, the system will display a summary list of all dashboards.

M Must Have Feature

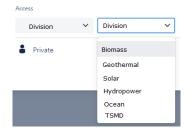
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Create Dashboard	On click	0	Command button	-Once clicked, a pop-up window will be displayed
				Create Dashboard Name* My Dashboard Description Test Dasboard Access Private Add Add
				NameA descriptive name for the new dashboard
				Required Field
				Textbox
				 Accepts alphanumeric characters, max of 50 char
				-Description
				 If user wishes to provide a description, then this can be entered
				 Optional Field
				Textbox
				 Accepts alphanumeric characters, max of 100 char
				-Access
				 Dropdown
				Required Field
				 Select the appropriate user or group or division to share the dashboard
				Options are:
				o Private
				o Division

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

- o Group
- Single User
- Default value: Private
- If Private is selected, dashboard can only be seen by the creator/ logged in user
- If Division is selected, a dependent dropdown will be shown populating the 'division' table



- If Group is selected, a dependent dropdown will be shown populating the 'group' table
- If Single User is selected, a dependent dropdown will be shown populating the 'user' table
- Save button will save the information entered by the user. Table to append: 'dashboard'

 $^{^{\}mathbf{M}}$ Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

	1	I	T	
Horizontal Ellipses	On click;	0	Horizontal Ellipses	-When clicked, the following actions will be displayed:
	On			Copy dashboard
	select			Edit dashboard
				Delete Dashboard
				•••
				Copy Dashboard
				Edit Dashboard
				Delete Dashboard
				-Copy Dashboard option will display the "Create Dashboard" page. Default Name of the dashboard which is being copied will be "Copy of <dashboard being="" copied="" is="" name="" which=""> Apply "Create Dashboard" validations -Edit Dashboard option will display the "Edit Dashboard" page Edit dashboard Name* Private Only you Add Private Description Click the "Delete Dashboard option: Click the "Delete" button on the delete confirmation pop up dialog</dashboard>

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

			1	
				▲ Delete dashboard: Test Dashboard
				Confirm that you want to delete this Dashboard.
				DELETE
I.	L	I	I.	I.

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	е	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Total	On load	NA		Text	-On load if on load page; enabled
Awarded Projects					-Displays awarded projects count
110,000					-Displayed count vary depending on the permissions given to the current logged in user (e.g. Biomass user – all Awarded RE Biomass Projects count, TSMD – all Awarded RE Projects)
Total	On load	NA		Date	-On load if load page; enabled
Awarded Projects					-Automatic Data update
Date					-Get Current Date
Pending	On load	NA		Text	-On load if on load page; enabled
Projects					-Displays pending projects count
					- Displayed count vary depending on the permissions given to the current logged in user (e.g. Biomass user – all Pending RE Biomass Projects count, TSMD – all Pending RE Projects)
					-Interface with EVOSS to get Pending Projects count; status 'Pending'
Year	On	0	'year'	Dropdown	-User-defined field
	select				-User may slice dashboard data based on the selected year
					-Drop down options
					 All year on RE project table, date field
					Format: YYYY
					-Default value is current year

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	е	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Resource	On select	O	'resource'	Dropdown	-User defined field -User may slice dashboard data based on the selected resource group -Drop down options are: • Biomass • Geothermal • Solar • Hydropower • Ocean • Wind

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	е	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Gadget	n Type Display	NA	Name	Display	-The following available gadgets are: Summary List Gadget Calendar Gadget Pie Chart Gadget Clustered Column Gadget Line with Markers Gadget Clustered Bar Gadget Clustered Bar Gadget Doughnut Gadget Gadget Horizontal Ellipses: Hover over the gadget until the ellipses appear. On the menu, the following options are displayed: Maximize Minimize Minimize Minimize shrinks the gadget window, only the Chart Title will be shown: TOTAL AWARDED PROJECTS BY RESOURCE -Maximize restores the gadget window to its original size Once Dashboard has been successfully created and saved, associated gadgets cannot be edited
					anymore (to edit, see Dashboard Edit Layout validations)

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Add a New On 0 Command -Once clicked, the Add a gadget Gadget click Button window will be popped up: -A list of available gadgets will be displayed -Allows user to add gadget -If the user clicks the "Add gadget" button, the gadget type across it will be added to the Dashboard -If "Summary List Gadget" is selected, the Summary List Gadget window will be popped up: **Summary List Gadget** *Table Name My Summary List Biomass Table *Select Table *Refresh Interval Never How often you would like this gadget to update *Number of Results 10 Number of results to display (max of 20) Table Name: A descriptive name for the new table gadget Required Field Textbox Accepts alphanumeric characters, max of 50 char Select Table: Options are all available Summary Tables in the system (e.g. List of RE Awarded Projects,

M Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Summary List for Approval, RE Projects Assigned to me, etc.) Required field Refresh Interval: How often the user would like this gadget to update. Options are: Never, Every 30 minutes, Every 1 hours, Every 2 hours, Every 24 hours Default Value: 'Never' Number of Results: Number of results to display, max is 20 rows Save Gadget button: Once clicked, the Summary List gadget will be successfully displayed in the Dashboard -If Calendar Gadget is selected, the Calendar Gadget window will pop up: **Calendar Gadget** *Calendar Name My Calendar *View Type: Month View *Calendar Type: Own Calendar Calendar Name: A descriptive name for the new calendar gadget Required Field Textbox alphanumeric Accepts

characters, max of 50 char

View Type: Options are "Month View", "Weekly View", and

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

- "Daily View". Default value is Month View
- Calendar Type: Options are Own Calendar and list of Shared Calendar
- Own Calendar: calendar of the current logged in user
- If Shared Calendar, the system will allow user to select type from List of shared calendar (e.g. Mike Velasco's Calendar, Jhun Escobar's calendar)
- Save Gadget button: Once clicked, the Calendar gadget will be successfully displayed in the Dashboard



-If Pie Chart Gadget is selected, the Calendar Gadget window will pop up:

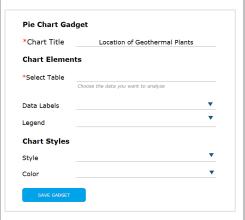


 Chart Title: A descriptive name for the new chart

M Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

- Required Field
- Textbox
- Accepts alphanumeric characters, max of 50 char
- Select Table: Options are all available data models in the system
- Data Labels: Options are "Center", "Inside End", "Outside End", "Best Fit", and "Data Callout" (see Annex XX for the Data Labels standards)
- Legend: Options are Right, Top, Left, Bottom
- Chart Styles: Shows list of chart styles (see Annex XX for the complete list of chart styles)



 Chart Colors: shows list of available chart colors (see Annex XX for the complete list of chart styles)

 $^{^{\}mathbf{M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

			ĺ	Style Color	
				Monochromatic	•
			■ Sav	n Godant h	outton: Once
					Chart gadget
					y displayed in
			the	Dashboard:	
			Own Use -	Sum of Potential C	apacity
			264.5	56 57.2	Biomass Hydro Wind Geothermal Solar
				Column Gadge	et window
			*Chart Title	Location of Geothe	ermal Plants
			Chart Elements		
			*Select Table		
				hoose the data you want to ana	
			Axes		▼
			Axis Title		
			Data Labels		▼
			Error Bars		<u> </u>
			Gridlines		<u> </u>
			Legend		▼
			Chart Styles		
			Style		
			Color		
				Chart Title	
			1000 900 900 900 900 900 900 900	941.16	■ Own Use - Sum of Potential Capacity ■ Own Use - Sum of Installed Capacity (MW)
st Have Feature					

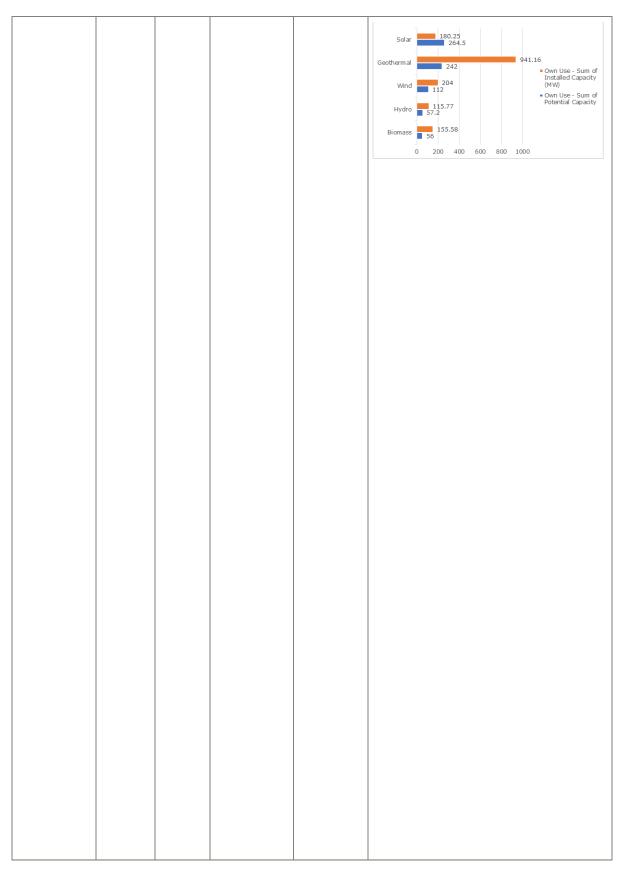
M Mus

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

	*Chart Title
ments	Chart Element
	*Select Table
Choose the data you want to analyze	
	Axes
	Axis Title
·	Data Labels
	Error Bars
	Gridlines
	Legend
rles	Chart Styles
	Style
	Color
§ 941.16	1000
	900 800
/ \	700 ———————————————————————————————————
Own Use - Sum of Potential Capacity	500
	100
264.5 Own Use - Sum of Installed Capacity	200
55,58 115 77 112 (MW)	155.58
and Day Codent with the start	Olivetana III
red Bar Gadget window	
le Location of Geothermal Plants	*Chart Title
le Location of Geothermal Plants	Chart Title
le Location of Geothermal Plants	Chart Title hart Element
le Location of Geothermal Plants ments	Chart Title Chart Element
Location of Geothermal Plants ments le Choose the data you want to analyze	*Chart Title Chart Element *Select Table
the Location of Geothermal Plants ments Die Choose the data you want to analyze	Chart Title nart Element elect Table es is Title
the Location of Geothermal Plants ments Die Choose the data you want to analyze	*Chart Title Chart Element Select Table Axes Axis Title Data Labels
tle Location of Geothermal Plants ments Choose the data you want to analyze	*Chart Title Chart Elements Select Table Axes Axis Title Data Labels Error Bars
tle Location of Geothermal Plants ments Choose the data you want to analyze	*Chart Title Chart Element Select Table Axes
The Location of Geothermal Plants ments Choose the data you want to analyze	chart Title nart Element elect Table es is Title ta Labels or Bars
The Location of Geothermal Plants ments Choose the data you want to analyze	hart Title art Element elect Table es s Title ta Labels or Bars dlines
The Location of Geothermal Plants ments Choose the data you want to analyze	rt Title t Element: ct Table litle Labels Bars nes d t Styles

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature



M Must Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicabl	е	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Settings icon	On click	0	NA NA	Icon- Button	-User Management -Role Management -Group Management
Print Dashboard	On click	O	NA	Command Button	-File Format: PDF -Layout: Landscape -Margin: 1" Top, 1" Bottom, 1" Left, 1" Right -Paper Size: Letter 8.5" x 11" -Preview File before printing: -Filename: <dashboardname_printbyname_date print=""> -Sample Report: DefaultDashboard_H oneySamson_June302</dashboardname_printbyname_date>
	•	•	Vá	alidations	

Must Have Feature

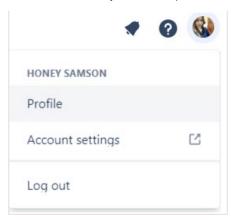
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	Э	
Object	Functio	Entry	Column	Display	Behavior
Name	n Type	Type	Name	Format	

- The system shall ensure all data is displayed in logical groups. Within each group the audience to which that group is intended shall contain data that is relevant to that user
- This screen is accessible to all REMB users but the summary or displayed information vary depending on the permissions given to the users who are logged in.
- Displays user customized RE metrics data through various mediums (charts, graphs, maps, summary table).
- The dashboard shall list the latest data for its last updated time.

Scenario	Message
Dashboard is deleted	"Dashboard has been successfully deleted."
Create/Edit dashboard	"Changes saved."

Sub-Screen 1 – My Account Dropdown



Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	9	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Profile	On click	0		Button	-User will be redirected to User Profile page

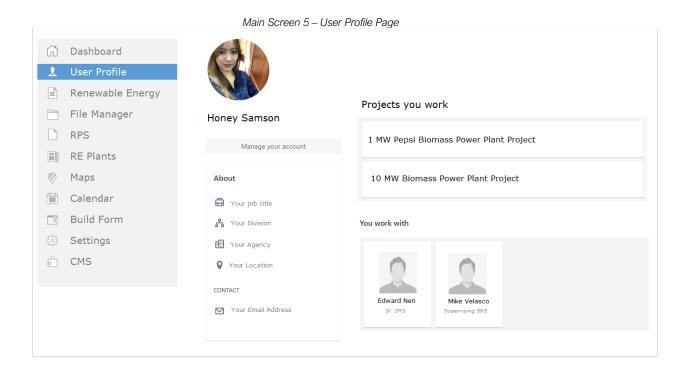
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Entry Type: (M)N	landatory, (O) Optional, (NA) Not Applicable	e	
Object Name	Functio n Type	Entry Type	Column Name	Display Format	Behavior
Account Settings	On click	0		Button	-User will be redirected to Account Settings pages
Logout	On click	0		Command Button	-When the access is no longer needed, the user can Log out
					-Once clicked, user will be logged out of the RIS and will be redirected to the Login page
					-Logging out of the system shall invoke the global termination of all devices connected to it.
					-Session Timeout shall be invoked after fifteen (15) minutes of inactivity



 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

^S Should Have Feature

Could Have Feature

W Want/Wish Have Feature

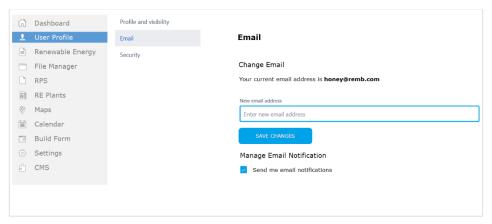
Sub-Screen 3 – Account Settings – Profile and Visibility

	Dashboard	My Account		
<u>.</u>	User Profile Renewable Energy	Profile and visibility	Profile and Visibility	
	File Manager	Email	Manage your personal information, and control	l which information other people see.
	RPS	Security	Profile Photo	
	RE Plants	•		
8	Maps			
7-7	Calendar			
	Build Form			
	Settings			Who can see your profile photo?
5	CMS			Anyone
			About You	
				Who can see this?
			Full Name Honey Samson	Anyone
			Job Title	
			Your Job Title	Anyone
			Division Department A	Anyone
			Agency	
			Department of Energy	♠ Only you
			Contact	
			Email Address	Who can see this?
			honey@remb.com	Only you
			Contact Number 0917-XXXX-XXX	Only you
			Address	
			Address	Who can see this?
			#01 My Location Street Location Subd. City	Only you
			Quezon City	Only you
			Region NCR	♠ Only you
			Postal Code 1234	♠ Only you
			SAVE CHANGES	

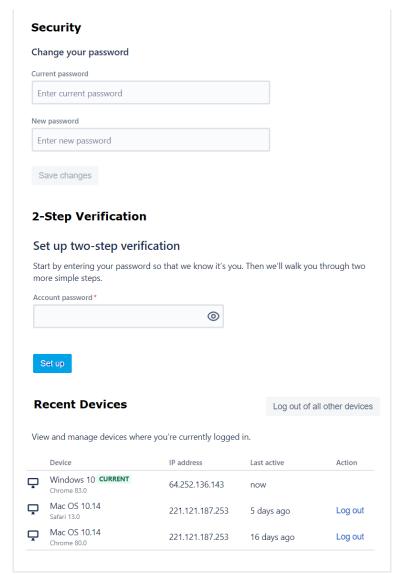
Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Sub-Screen 4 - Email Page



Sub-Screen 5 – Security Page



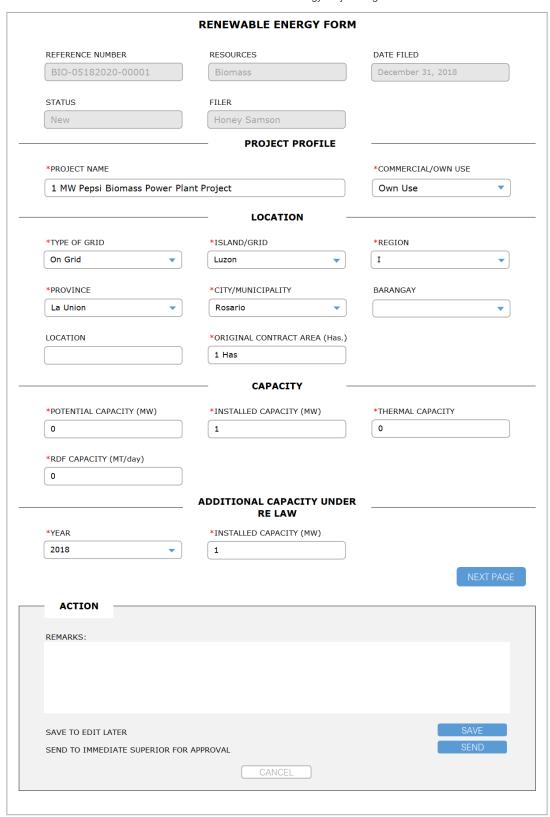
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Main Screen – Renewable Energy Project Page



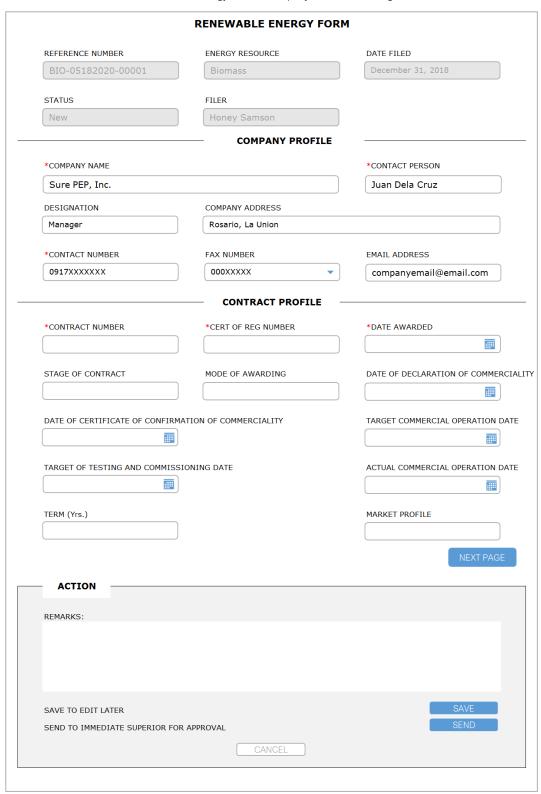
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

Renewable Energy Form - Company and Contract Page



 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Renewable Energy Form – Feed In Tarriff Page

REFERENCE NUMBER	ENERGY RES	SOURCE	DATE FILED
BIO-05182020-00001	Biomass		December 31, 2018
STATUS	FILER		
New	Honey Sa	mson	
	FE	ED-IN-TARRIFF	
**Do not fill up if Project is	not under the FIT S	System	
DATE OF DECLARATION OF COM	MERCIALITY	DATE OF CERT (OF CONFIRMATION OF COMMERCIALITY
DATE OF TESTING AND COMMIS	SIONING	DATE OF TARGE	T COMMERCIAL OPERATION
DATE OF COMMERCIAL OPERATION	ON	CERTIFICATE O	F ENDORSEMENT (COE) NO.
DATE SIGNED OF COE	CAPACITY (N	MW)	CAPACITY FACTOR (%)
PROJECTED ANNUAL ENERGY PR	ODUCTION (GWH)	ACTUAL ANNUA	L ENERGY PRODUCTION (GWH)
Not Applicable			
ACTION			NEXT PA
REMARKS:			
SAVE TO EDIT LATER			SAVE
SEND TO IMMEDIATE SUPERIOR	FOR APPROVAL		SEND
		CANCEL	

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Renewable Energy Form – Cost of Investment Page RENEWABLE ENERGY FORM REFERENCE NUMBER **ENERGY RESOURCE** DATE FILED BIO-05182020-00001 December 31, 2018 Biomass STATUS FILER New Honey Samson **COST OF INVESTMENT** PRE-DEV COMMITMENT (PhP) YEAR 2 PRE-DEV COMMITMENT (PhP) YEAR 1 DEV COST INVESTMENT (USD/MW) 100,000,000.00 100,000,000.00 20,000.00 SIGNING FEE *SIGNING FEE (PhP) *DATE OF PAYMENT O.R. NUMBER 100,000,000.00 August 1, 2018 OR123456 PERFORMANCE BOND AMOUNT EXPIRY DATE 10,000.00 December 31, 2021 **DEVELOPMENT ASSISTANCE FUND** PRE-DEV D.A. (PhP) PRE-DEV D.A. UTILIZATION (PhP) PRE-DEV D.A. BALANCE (PhP) 0.00 0.00 DEV D.A. UTILIZATION (PhP) DEV D.A. BALANCE (PhP) DEV D.A. (PhP) 0.00 0.00 0.00 TRAINING FUND PRE-DEV TF (PhP) DEV TF (PhP) 0.00 0.00 **ACTION** REMARKS: SAVE TO EDIT LATER SEND TO IMMEDIATE SUPERIOR FOR APPROVAL

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

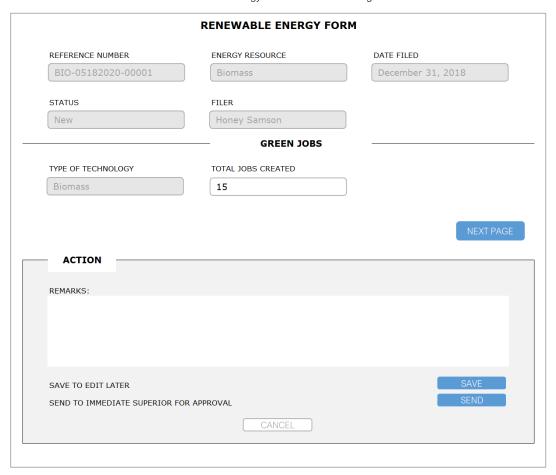
C Could Have Feature

W Want/Wish Have Feature

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Renewable Energy Form – Green Jobs Page



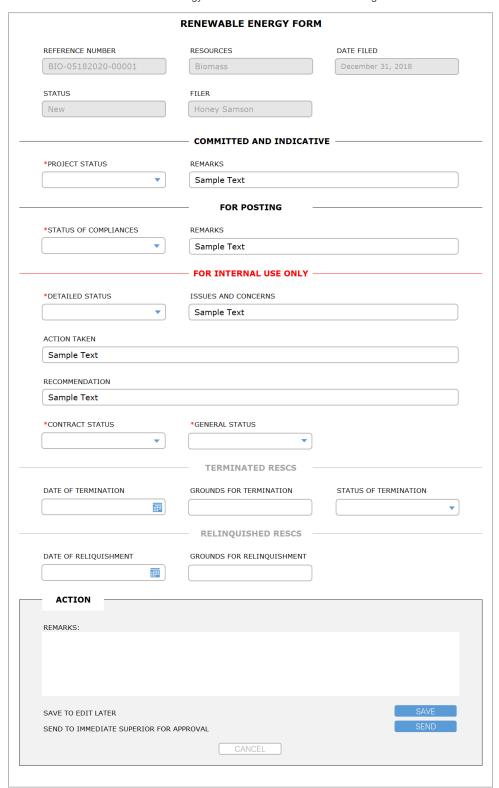
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Renewable Energy Form - Committed and Indicative Page



 $^{^{\}mathbf{M}}$ Must Have Feature

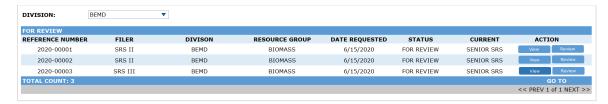
Should Have Feature

C Could Have Feature

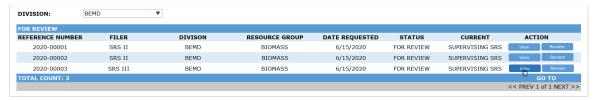
W Want/Wish Have Feature

7.2.5. Summary List Tables

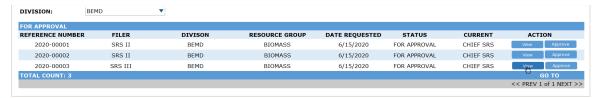
Filer View



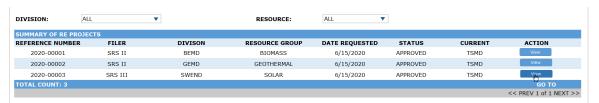
Senior and Supervising SRS' View (Approver 1)



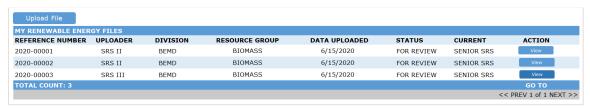
Division Chief's View (Approver 2)

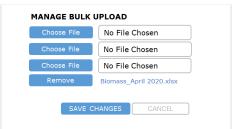


TSMD's View (Receiver)



7.2.6. File Management Module





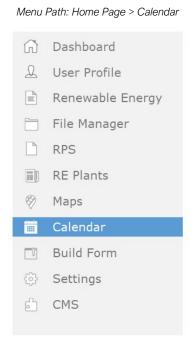
Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

7.2.7. Calendar Module



The Calendar Module lets the user schedule, share, and organize events with records of other modules and displays a list of activities that are scheduled for the user and shared with the user.

Figure 2 – Calendar Month View

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Entry Type: (M)Mano	datory, (O) Option	ıal, (NA) No	ot Applicable		
Object Name	Function Type	Entry Type	Column Name	Display Format	Acceptance Criteria
^c Calendar View	On select	0	calendar_vie w	dropdown	 User can switch between 'My Calendar', 'Shared Calendar' and 'Calendar List' Default Value is 'My Calendar' My Calendar opens the user's daily (activities scheduled on current day) planner, weekly (activities scheduled on current week), and monthly (activities scheduled on current month) appointments Shared Calendar shows team activities that have been made public or have been specifically shared with the concerned user Calendar List opens the list of all created appointments
C Activity Type	On select	O	activity_type	Dropdown	 Two types of activity the user can add to a calendar are: Events To Do Events have a set start and end time To Dos are tasks with set start time and due date.

M Must Have Feature

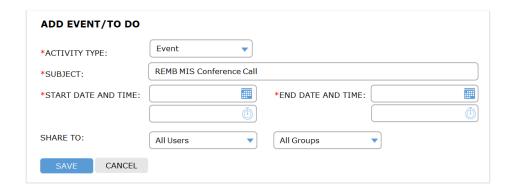
S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mand	latory, (O) Option	al, (NA) No	ot Applicable		
Object Name	Function Type	Entry Type	Column Name	Display Format	Acceptance Criteria
c Add Events/To Do	On click	O	n/a	Command button	 The user may create a new activity record in two ways: the user may create/add new event record by clicking this button the user may click on any date in the calendar to create a new activity The system will show the 'Add Event/To Do' window upon clicking this button (see Add Event/To Do validations below)
C Month, Week, Day					Use the Month, Week and Day buttons to switch calendar view type and to change the time-period
^c Calendar Cell					 The user may click any existing activity from the calendar cell to view or edit details User may remove event from the calendar by placing the cursor on the event and click the 'trash' icon and then confirm the removal The user may click on any date in the calendar to create a new activity (see Add Event/To Do validations below)
			Valida	ations	

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Entry Type: (M)Mandatory, (O) Optional, (NA) Not Applicable						
Object Name	Function Type	Entry Type	Column Name	Display Format	Acceptance Criteria	
C The user may only check activities that are assigned to him/her and the activities of users below him/her in the hierarchy.						
	Scenario)			Message	
Create activity record				"Record successfully saved!"		
Update activity record				"Record successfully updated!"		
Confirm removal	of the activity	record		"Are you sure you want to delete this record?"		
Delete activity record				"Record successfully deleted!"		
If selected calend [end_date <toda< td=""><td></td><td>s than the</td><td>e current date</td><td>"Cannot add date."</td><td>new record! Please select another</td></toda<>		s than the	e current date	"Cannot add date."	new record! Please select another	
If selected calend	dar time is less	s than the	e current time	"Cannot add time."	new record! Please select another	



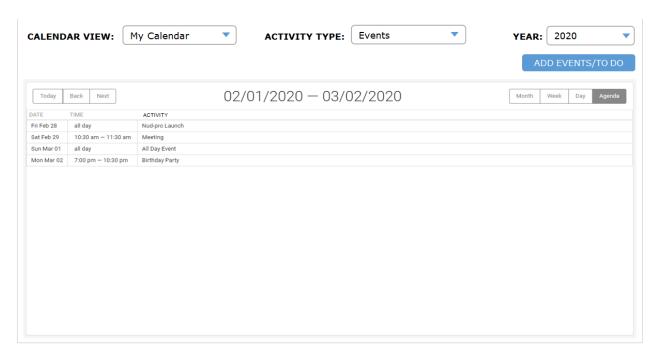
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

CALENDAR VIEW:	My Calendar	~	ACTIVITY TYPE:	Events	▼	YEAR: 2020	
						ADD EVENTS	/TO DO
Today Back Next		S	aturday Feb	01		Month Week Day	Agenda
							01 SAT
6:00 AM							
7:00 AM							
9:00 AM							
0:00 AM							
1:00 AM							
2:00 PM							
00 PM							
00 PM							
00 PM							
00 PM							
00 PM							
00 PM	My Calendar	•	ACTIVITY TYPE:	Events	•	YEAR: 2020	
00 PM	My Calendar	•	ACTIVITY TYPE:	Events	•	YEAR: 2020 ADD EVENTS	
CALENDAR VIEW: Today Back Next	My Calendar				▼		S/TO DO
ALENDAR VIEW: Today Back Next			ACTIVITY TYPE: ary 26 - Febr		▼ SO THU	ADD EVENTS	Agenda
ALENDAR VIEW: Today Back Next		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
ALENDAR VIEW: Today Back Next		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
ALENDAR VIEW: Today Back Next		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
ALENDAR VIEW: Today Back Next 00 AM 00 AM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DC
ALENDAR VIEW: Today Back Next 00 AM 00 AM 00 AM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
ALENDAR VIEW: Today Back Next 100 AM 100 AM 100 AM 100 AM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
Today Back Next Today Back Next 00 AM 00 AM 00 AM 00 AM 00 AM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DC
Today Back Next Today Back Next DO AM DO AM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
ALENDAR VIEW: Today Back Next		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
Today Back Next Today Back Next 00 AM 00 AM 00 AM 00 AM 00 OAM 00 OAM 00 OAM 00 OAM 00 OAM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
Today Back Next Today Back Next 00 AM 00 AM 00 AM 00 AM 00 AM 00 OM 00 OM 00 OM 00 OM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO
Today Back Next Today Back Next 00 AM 00 AM 00 AM 00 AM 00 AM 00 AM 00 OPM		Janua	ary 26 - Febr	uary 01		ADD EVENTS	S/TO DO

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature



 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

7.2.8. Operations Highlights Form Module

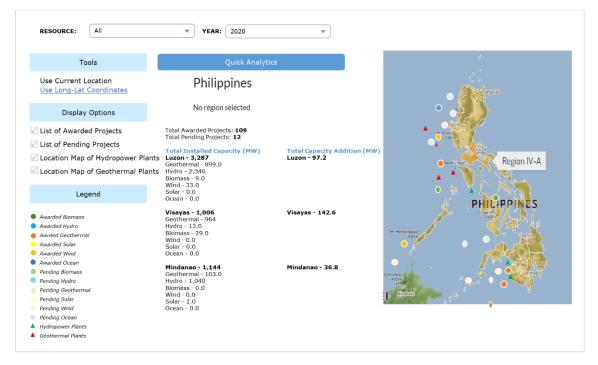
REFERENCE NUMBER	RESOURCES		DATE FILED
GEO-RP-05182020-00001	Geothermal		December 31, 2018
STATUS	FILER		
New	Honey Samson		
			J
	- OPERATIO	NS HIGHLIGH	115
*RESOURCE GROUP	*PERIOD COVERE		
Geothermal	December 1	, 2020	TO December 7, 2020
POWER PLANTS		(MW)	PLANNED GENERATION (MWh)
	RATED	AVAIL	
GPP 1 ▼	O EMBEDI	DED (EM) 0	0
GPP 2	0	0	0
▼	0	0	0
▼	0	0	0
▼	0	0	0
	0	0	0
EM	0	0	0
POWER PLANTS	RATED	(MW) AVAIL	PLANNED GENERATION (MWh)
	RATED GRID CONN	AVAIL ECTED (GC)	
POWER PLANTS GPP 1 GPP 2 ▼	RATED	AVAIL	PLANNED GENERATION (MWh) 0 0
GPP 1 ▼	GRID CONN	AVAIL ECTED (GC) 0	0
GPP 1 ▼ GPP 2 ▼	RATED GRID CONN 0 0 0 0	AVAIL ECTED (GC) 0 0 0 0	0 0 0
GPP 1 ▼ GPP 2 ▼ ▼	RATED GRID CONN 0 0 0 0 0 0 0	AVAIL ECTED (GC) 0 0 0 0 0 0	0 0 0 0 0
GPP 1	RATED GRID CONN 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 ▼ GPP 2 ▼ ▼	RATED GRID CONN 0 0 0 0 0 0 0	AVAIL ECTED (GC) 0 0 0 0 0 0	0 0 0 0 0
GPP 1	RATED GRID CONN 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY OTAL RATED CAPACITY(MW): OTAL AVAILABLE CAPACITY(MW): OTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY OTAL RATED CAPACITY(MW): OTAL AVAILABLE CAPACITY(MW): OTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh): ACTION REMARKS:	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MWh): TOTAL GENERATION CAPACITY(MWh): ACTION REMARKS:	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0 0
GPP 1 GPP 2 GPP 2 GC ADD ENTRY TOTAL RATED CAPACITY(MW): TOTAL AVAILABLE CAPACITY(MW): TOTAL GENERATION CAPACITY(MWh):	RATED GRID CONN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### AVAIL ECTED (GC)	0 0 0 0 0 0 0

M Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

7.2.9. Maps Module

- ☐ The admin shall be able to maintain and manage the Map data
- ☐ The map module shall provide the ability to display Awarded RE Projects and Pending RE projects, by island/grid, by region level, by province level, by municipality level, and by barangay level.
- The map module shall provide the ability to display RE Installed Capacity and Additional Capacity summary, by RE type and by location
- ☐ The map module shall provide the ability to display Project information if a specific location is clicked.
- ☐ The map module shall provide the ability to display the location map of all Hydropower Plants
- ☐ The map module shall provide the ability to display the location map of all Geothermal Plants
- Data Filter
 - The system shall have the capability to filter view based on selectable criteria
 - o The system shall have the capability to filter data based on different timeframe

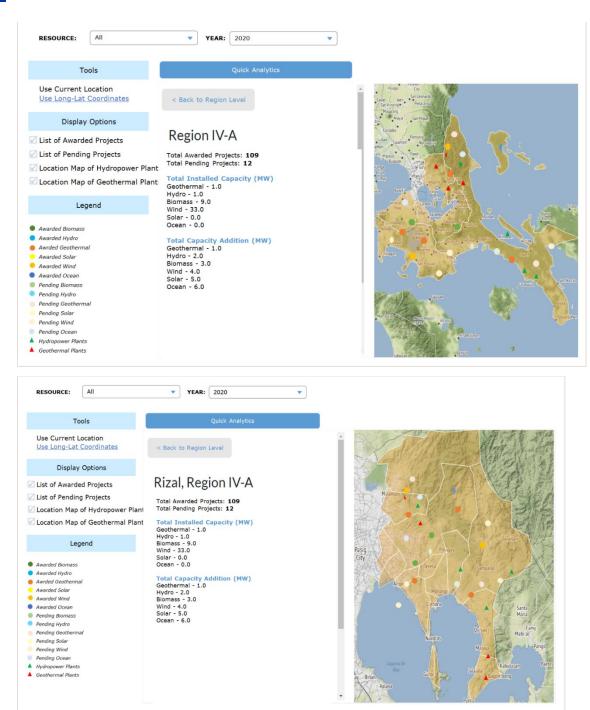


 $^{^{\}mathbf{M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

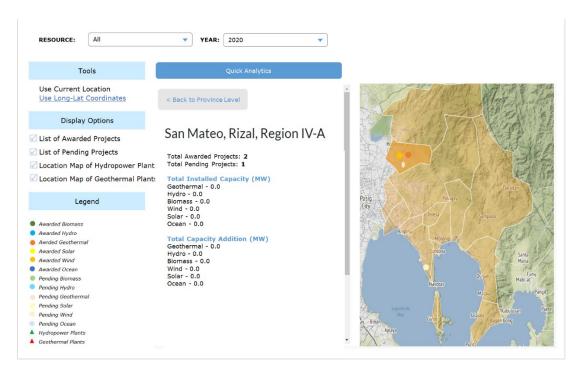


 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature



ANNEX A

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

8. Website Module Design Reference



Must Have Feature

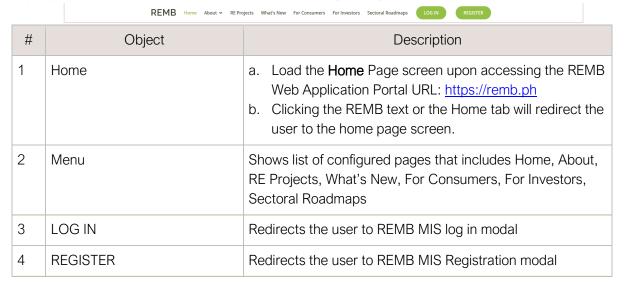
Should Have Feature

C Could Have Feature

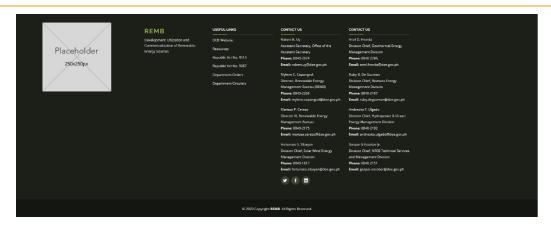
W Want/Wish Have Feature

8.1. System Menu and Navigation

The REMB Web Application Portal is tabbed application, which consists of seven (7) major tabs and (2) hyperlinks. All the tabs have name to allow distinguishing them easily.



8.2. Website Footer



#	Object	Description
1	Logo	Logo of REMB website
2	Site Copyright	Year should update automatically
3	Useful Links	Redirects user to another web page
This	can still be edited based on the re	equirements of REMB.

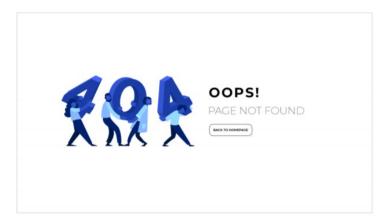
 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

8.3. Error 404 Page



Page where the visitor will be redirected upon attempting to access a non-existent page. This page will feature the following items:

#	Object	Description
1	Heading Text	Displays the "OOPS! PAGE NOT FOUND." Text
2	Subtext	Block of text below the heading text
3	Command Button	On click event, button name "Back to Home page"
4	Button Link	On load event, redirects the user to Home page

8.4. Public Pages

Function Type (Editable, Display Only, Window Call, Sub-window Call, Others) Entry Type (M: Mandatory, O: Optional) Object Function Entry Column Display Behavior Name Type Type Name Format Home O Window Web page a. Load the Home Page screen upon accessing the REMB Web Application Portal URL: Page Call https://remb.ph b. On load event, form load enabled c. CMS enabled

 $^{^{\}mathbf{M}}$ Must Have Feature

^S Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Function Type (Editable, Display Only, Window Call, Sub-window Call, Others) Entry Type (M: Mandatory, O: Optional)

Object Name	Function Type	Entry Type	Column Name	Display Format	Behavior
About	Sub- window Call	0		Dropdown Tab	 a. On load event, form load enabled b. Dropdown options are: About DOE About REMB Field Offices
					REMB Home About V RE Projects About DOE About REMB Field Offices >
					 c. Field Offices deep drop-down options are: - Luzon - Visayas - Mindanao d. CMS enabled
About DOE	Sub- window call	О		Web Page	 a. On load event, form load enabled b. Redirects the user to https://www.doe.gov.ph/what-we-do c. CMS enabled
About REMB	Sub- window call	O		Web Page	a. On load event, form load enabled b. Site page URL: remb.ph/about-remb c. CMS enabled d. The web application contains a secondary navigation scheme above the below the section header that reveals the user's location in the website. This provides an easy way to trace the path back to the original landing point. About REMB POURT EXAM DARGING SUPPRINT HOTTE / About / About REMB

 $^{^{\}mbox{\scriptsize M}}$ Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature

Function Type (Editable, Display Only, Window Call, Sub-window Call, Others) Entry Type (M: Mandatory, O: Optional)

Object Function Entry Column Display Behavior
Name Type Name Format



About REMB page

Must Have Feature

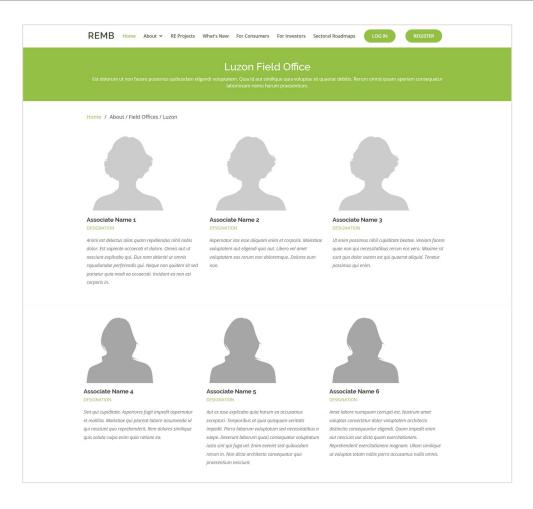
Should Have Feature

C Could Have Feature

W Want/Wish Have Feature

Function Type (Editable, Display Only, Window Call, Sub-window Call, Others) Entry Type (M: Mandatory, O: Optional)

Object	Function	Entry	Column	Display	Behavior
Name	Type	Type	Name	Format	
Field Offices	Sub- window call	О		Web Page	a. On Load event, page load enabled b. CMS enabled c. Displays the structure of the selected field office



8.5.

8.6. Data Contents and Visualization

All screen objects and data objects to be displayed shall be configurable via the CMS.

Must Have Feature

Should Have Feature

Could Have Feature

W Want/Wish Have Feature

******* END OF REPORT *******

Must Have Feature

S Should Have Feature
C Could Have Feature
W Want/Wish Have Feature