

Software Requirements Specification

For
Data Manager for Monitoring
And Evaluating Results
And Impact (DAMMERI)

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Citizen Security Programme's M&E Capacity Strengthening Project

Revision History

Name	Description	Version	Date
Dwane Alexis Moniece Forbes-Wells Marc-Anthony Patrick Timothy Hinds Temba Cudjoe	Creation of Document and Inputting of Data	1.0	13 th Feb,2015
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SECTION 1. INTRODUCTION

1.1 PURPOSE

The purpose of this Software Requirement Specification document is to provide a detailed description of the functionalities of the DAMMERI system. This document will cover each of the system's intended features, as well as offer a preliminary glimpse of the software application's User Interface designs. Additionally, the document will also cover software, hardware and other technical dependencies.

1.2 DOCUMENT CONVENTIONS

This document features some terminology which readers may be unfamiliar with. See Appendix A (i.e. is the Glossary) for a list of terms with their corresponding definitions.

1.3 INTENDED AUDIENCE AND READING SUGGESTIONS

This document is aimed to participating individuals in and/or supervising the DAMMERI project. This document is divided into portions which makes it easy for readers who may be interested in particular parts.

Readers interested in a brief overview of the project should focus on the rest of the Introduction.

Readers who wish to explore the feature of DAMMERI in more detail, may read the system features section which expands upon the information laid out in the main overview. The External Interface Requirements section offers further technical details, including information on the user interface in addition to the hardware and software platforms on which the application will run.

Readers interested in the non-technical aspects of this project, may be interested in reading Other Nonfunctional Requirements section which covers performance, safety and other attributes that will be important to users.

1.4 PROJECT SCOPE

The DAMMERI system is composed of two main components: the server-side application which will support and interact with various client features and a client-side application which will run on a web-application. The system is designed to facilitate project management and monitoring.

SECTION 2. EXTERNAL INTERFACE REQUIREMENTS

2.1 USER INTERFACES

LOGIN PAGE

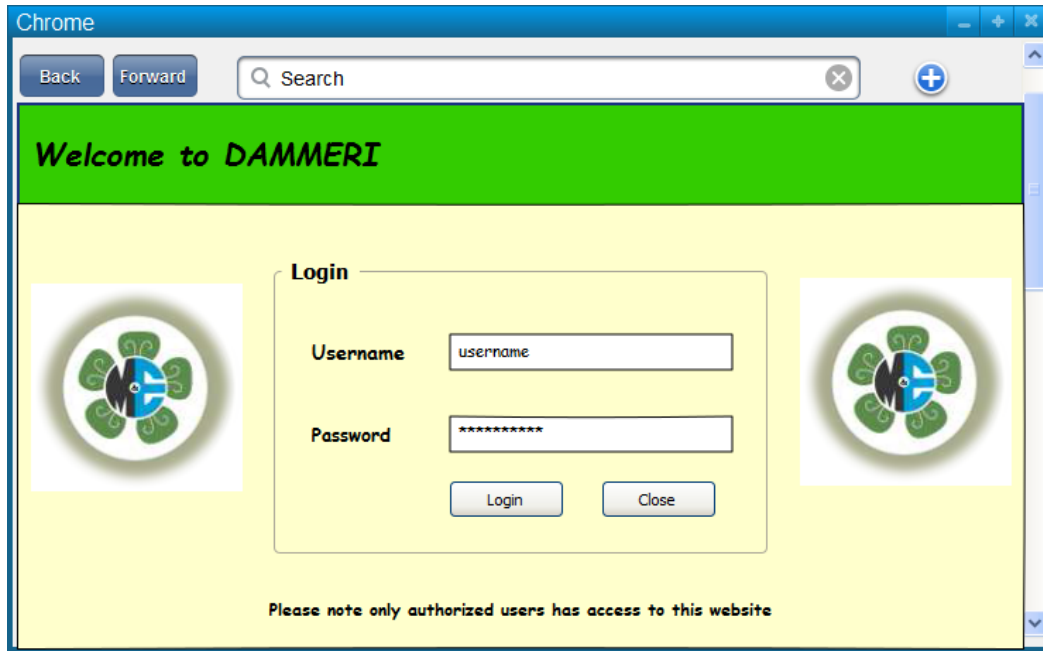


Figure 1

INITIAL CONFIGURATION STAGE

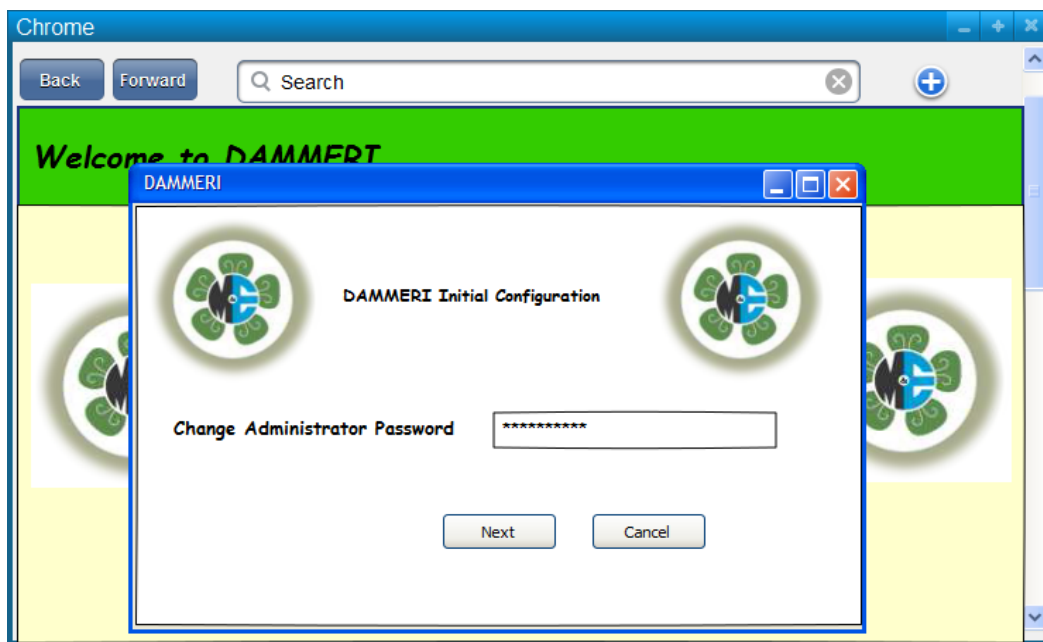


Figure 2

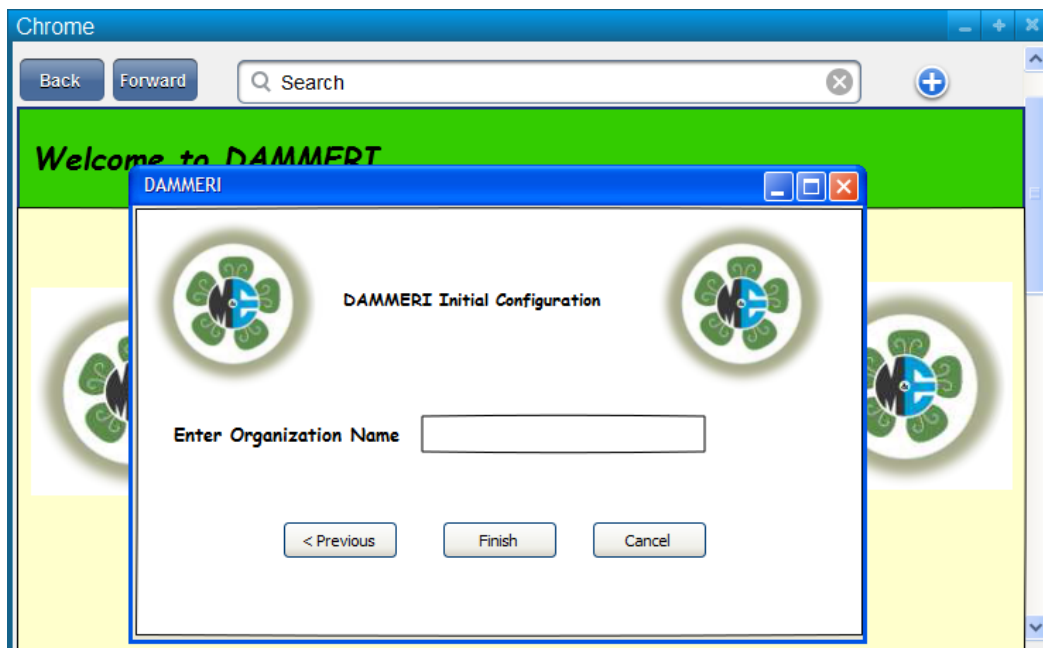


Figure 3

PROJECTS TAB

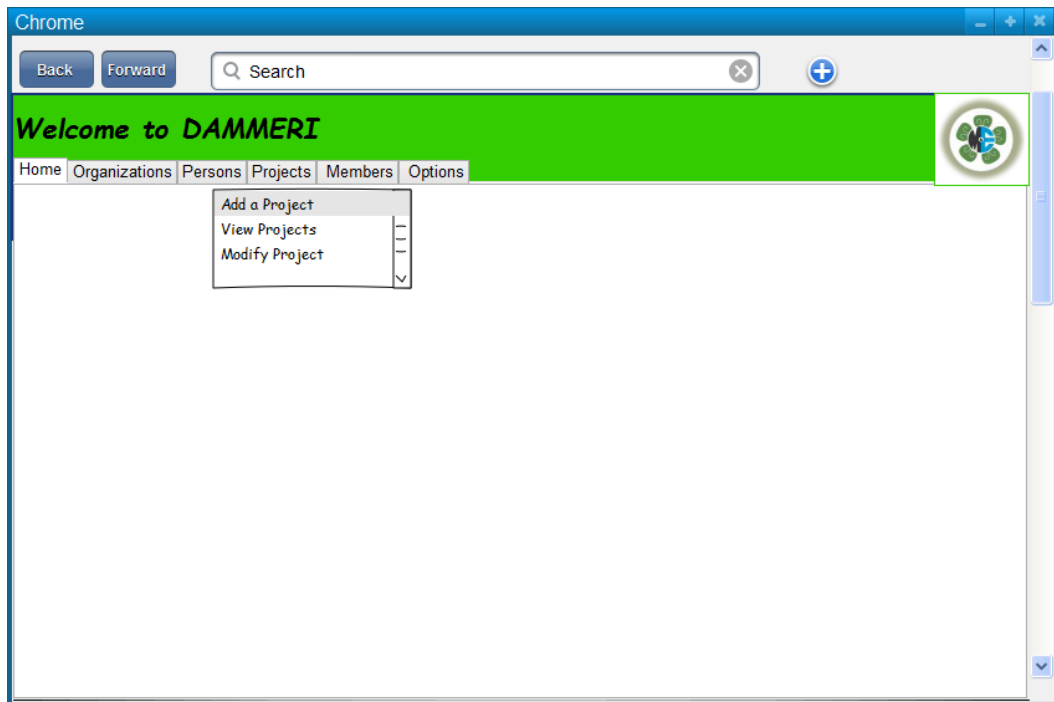


Figure 4

Adding a Project from the Projects Tab

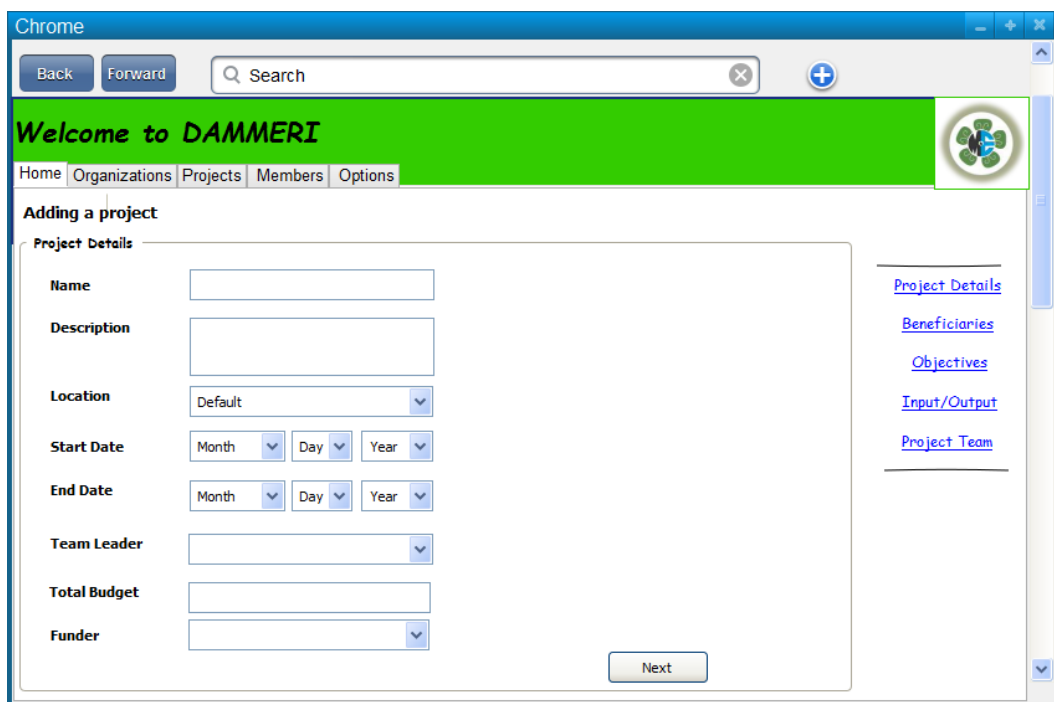


Figure 5

The screenshot shows a web browser window titled 'Chrome' with a search bar and navigation buttons. The main header is green with the text 'Welcome to DAMMERI' and a logo. Below the header is a navigation menu with 'Home', 'Organizations', 'Projects', 'Members', and 'Options'. The 'Projects' tab is active. The main content area is titled 'Adding a project' and contains a form with the 'Beneficiaries' tab selected. The form has three dropdown menus: 'Beneficiary Type', 'Sex', and 'Age Group'. At the bottom of the form are '< Previous' and 'Next' buttons. On the right side, there is a sidebar with a list of links: 'Project Details' (checked), 'Beneficiaries', 'Objectives', 'Input/Output', and 'Project Team'.

Figure 6

The screenshot shows the same web browser window as Figure 6, but with the 'Objectives' tab selected in the 'Adding a project' form. The form now has three text input fields: 'Objectives', 'Activities', and 'Objective'. At the bottom of the form are '< Previous' and 'Next' buttons. The sidebar on the right is the same as in Figure 6, but the 'Objectives' link is now checked.

Figure 7

The screenshot shows a web browser window titled 'Chrome' with a search bar and navigation buttons. The page has a green header with 'Welcome to DAMMERI' and a navigation menu with 'Home', 'Organizations', 'Projects', 'Members', and 'Options'. The main content area is titled 'Adding a project' and contains a form with two sections: 'Input/Output' and 'Project Team'. The 'Input/Output' section has fields for 'Input', 'Activity', 'Type', 'Cost' (with a value of 0), 'Output', 'Activity', and 'Type'. The 'Project Team' section is currently empty. On the right side, there is a sidebar with a list of links: 'Project Details', 'Beneficiaries', 'Objectives', 'Input/Output', and 'Project Team'. The 'Input/Output' link is currently selected. At the bottom of the form, there are buttons for '< Previous' and 'Next'.

Figure 8

The screenshot shows the same web browser window as Figure 8, but the 'Project Team' section of the 'Adding a project' form is now active. It contains five 'Member' labels, each followed by a dropdown menu. The sidebar on the right is the same, but the 'Project Team' link is now selected. At the bottom of the form, the buttons are '< Previous' and 'Finish'.

Figure 9

ORGANIZATIONS TAB

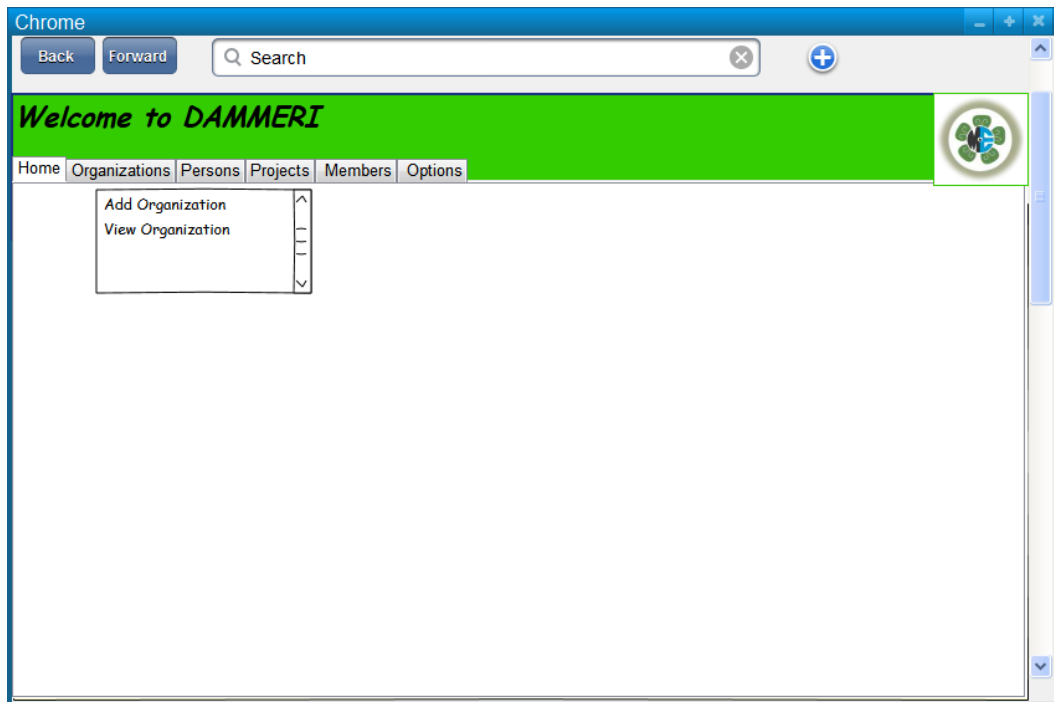


Figure 10

Adding an Organization from the Organizations Tab

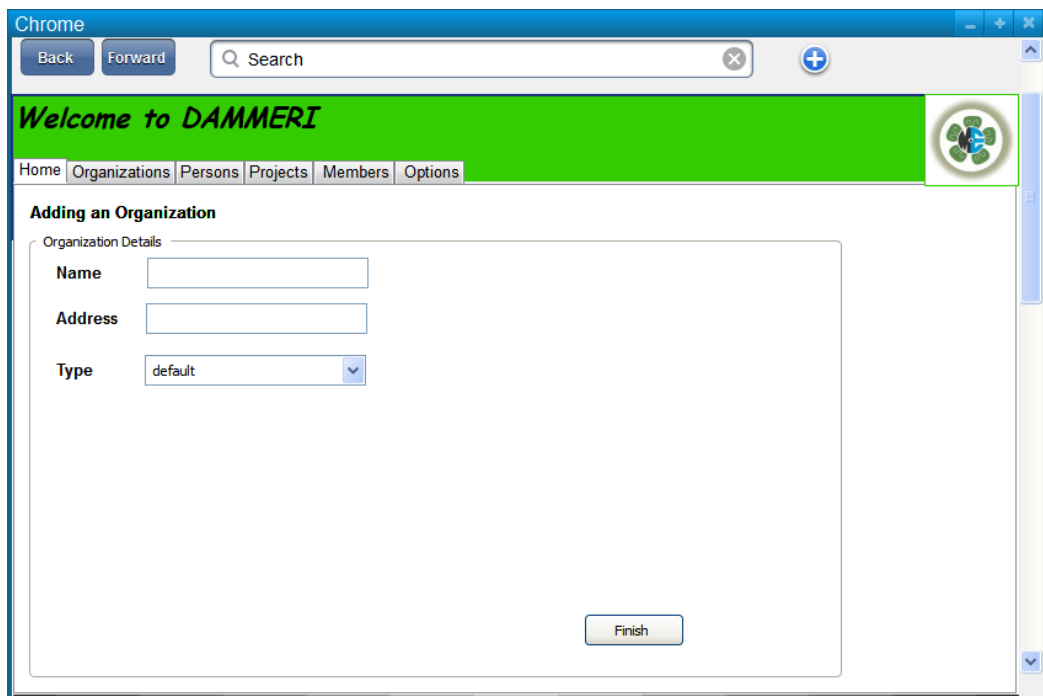


Figure 11

Modifying an Organization's information from the Organizations Tab

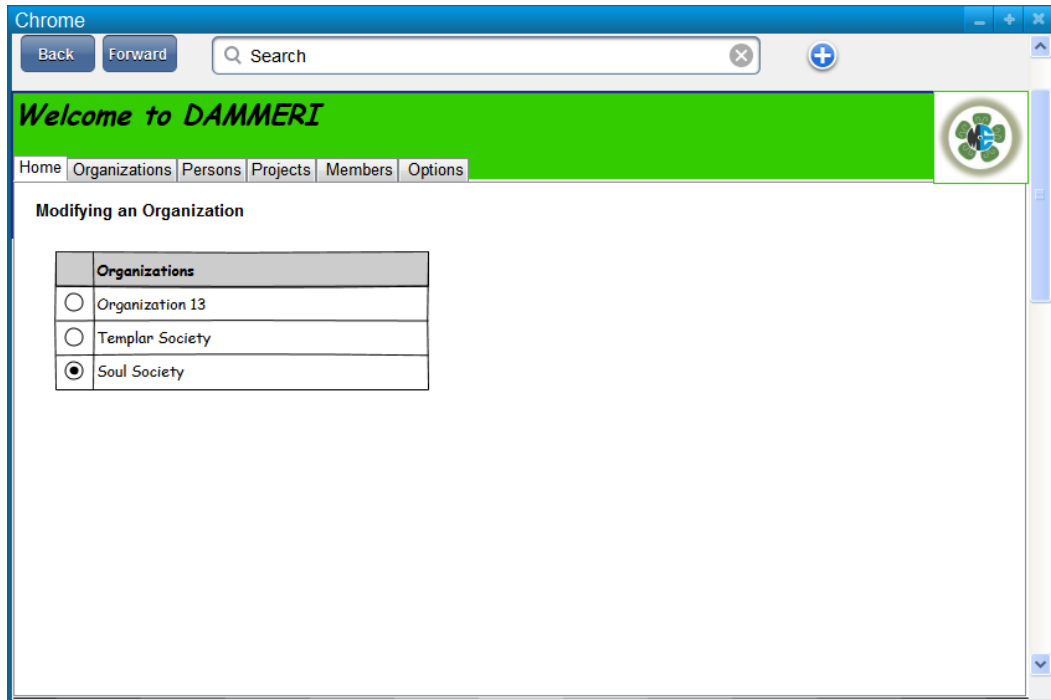


Figure 12

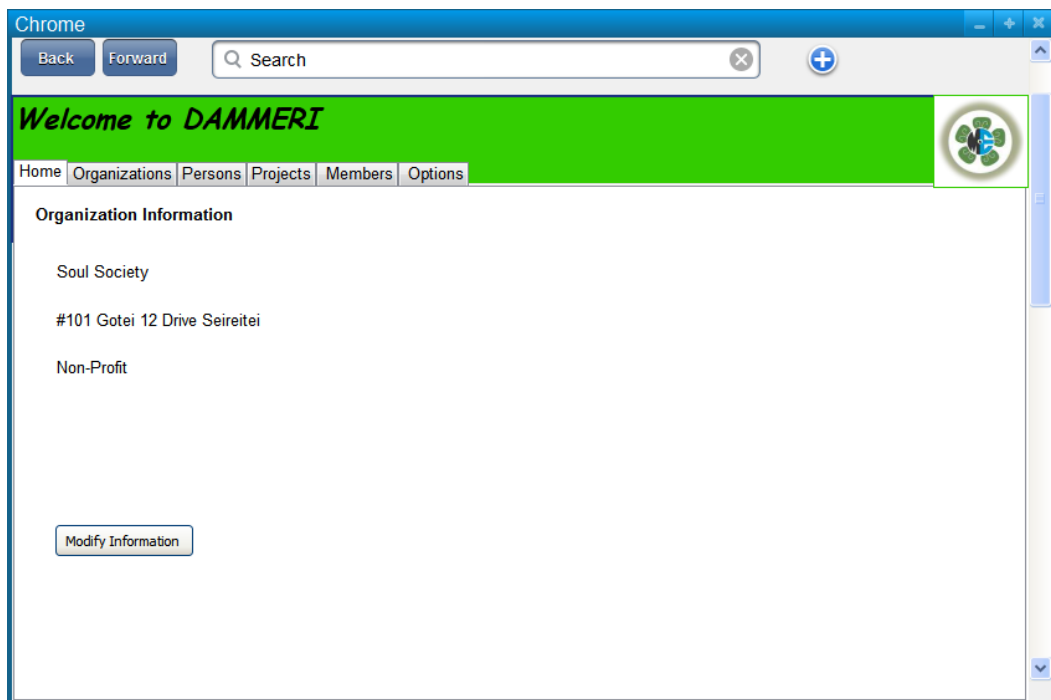


Figure 13

The screenshot shows a web browser window titled "Chrome" with a blue header bar. Below the header is a navigation bar with a green background and the text "Welcome to DAMMERI" in white. To the right of the text is a circular logo with a recycling symbol. Below the navigation bar is a menu with the following items: Home, Organizations, Persons, Projects, Members, and Options. The "Organizations" item is highlighted. The main content area is titled "Organization Information" and contains a form with the following fields: Name (Soul Society), Address (#101 Gotei 12 Drive Seireitei), and Type (Non-Profit). A "Save" button is located at the bottom of the form.

Figure 14

OPTIONS TAB

Editing settings in the Options tab

The screenshot shows the same web browser window as Figure 14, but with the "Options" tab selected in the menu. The main content area is titled "General Account Settings" and contains a form with the following fields: Name, Username, Password, Address, Organization, and Email. Each field has an "Edit" button next to it.

Figure 15

2.2 HARDWARE INTERFACES

DAMMERI is intended as a web application in which any messages, data exchanged or updates between the webs based application which is transmitted to and handled by the DAMMERI server.

DAMMERI is being developed specifically for chrome, internet explorer and safari browsers. The web platform supports push messages that will be used to synchronize data between the local application and main application server.

The web platform provides abstractions for all network communication interfaces and thus the hardware as well.

SECTION 3. SYESTEM FEATURES

User Requirements:

1. The users shall be able to add new projects to the system.
2. The users shall be able to add persons to a specific project
3. The users shall be able to assign specific roles to persons of a project
4. The users shall be able to view projects that are in progress and also completed.
5. The users shall be able to assign specific pay rates to persons assigned to a project.
6. The users shall be able to create tasks for a project.
7. The users shall be able to assign resources to a task.

System Requirements:

1. System should be able to grant users access to login
2. System should have mechanisms in place for the users to view their projects
3. System should have mechanisms in place for users to change project information in terms of change of start or end date.
4. System should be able to allow users to update project details and progress.
5. System should be able to allow users to calculate wages for persons assigned to a project(s).
6. System should have procedures in place for customers to be able to print their statements.
7. System should be able to allow users to import and export persons into and from other projects.
8. System should have mechanisms in place for users to state the time required for specific tasks.
9. System should be able to grant users the ability to view and search inputted data from it.

3.1 USER CASES OVERVIEW

1. User First Time Login
2. Regular Login
3. Add a new project
4. Modify a Project
5. Add a Person/Member
6. Modify a Person/Member Information
7. Add a new Organization
8. Modify an Organization Information
9. Export Person/Member Information to xls
10. Export Organization Information to xls
11. Export Project to xls
12. Query Information
13. Logging Out

USES CASES DETAILING

Use Case Number:-	1
Use Case Name	User First Time Login
Related Requirements	<p>Must be a recognized NGO staff member and be added to the system.</p> <p>Must receive temporary username and password for first time login.</p>
Goal	Having an online user account
Pre-Conditions	<ul style="list-style-type: none"> ✓ Must be added by an administrator or manager to the system ✓ Must be a staff member of the NGO
Successful	User successful in setting up their account
Fail End Condition	User being unsuccessful in setting their account
Primary Actor	User
Secondary Actor	Administrator or Manager
Main Flow	<ol style="list-style-type: none"> 1. User receives login credentials for account from an administrator. 2. User goes to the website and types in the temporary username and password. 3. Clicks Login. 4. User selects "Enter a new password" on prompt. 5. Users enters their new password. 6. User clicks on next. 7. User enters their organization's name. 8. User click finish. 9. User is then directed to the main menu.

Use Case Number:-	2
Use Case Name	Regular Login
Related Requirements	Must be a recognized NGO staff member and be added to the system. Must have username and password
Goal	Able to login to account
Pre-Conditions	<ul style="list-style-type: none"> ✓ Must have a permanent username and password ✓ Must be a staff member of the NGO
Successful	User is successful in logging into their account
Fail End Condition	User is unsuccessful in logging into their account
Primary Actor	User
Secondary Actor	Administrator or Manager
Main Flow	<ol style="list-style-type: none"> 1. User enters login credentials. 2. User clicks on login 3. User is directed to the home page

Use Case Number	3
Use Case Name	Add a new project
Related Requirements	Online account to interface with the system
Goal In Context	Successfully create a new project
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user creates a new project
Fail End Condition	The user was unable to add a new project
Primary Actors	Project Manager
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Project" tab 2. Click "Add a new project" 3. Enter Project Detail information (Name, Description, Location, Start/End Date, Team Leader, Total Budget & Funder) 4. Click next 5. Enter Beneficiaries information (Beneficiary Type, Sex, Age Group) 6. Click next 7. Enter Objectives & Activates information respectively. 8. Click next 9. Enter Input & Output information respectively. 10. Click next 11. Add persons to project 12. Click Finish

Use Case Number:-	4
Use Case Name	Modify a Project
Related Requirements	
Goal	Ability to modify existing project
Pre-Conditions	<ul style="list-style-type: none"> ✓ Must be an administrator or Project Leader ✓ Project must exist
Successful	User successful in modifying project
Fail End Condition	User being unsuccessful in modifying project
Primary Actor	Administrator or Project Leader
Secondary Actor	None
Main Flow	<ol style="list-style-type: none"> 1. Select project from Home Screen 2. Opens to a summary of Project information 3. Click modify

Use Case Number	5
Use Case Name	Add a Person/Member
Related Requirements	Online account to interface with the system
Goal In Context	Successfully add person/member to system
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user adds new person/member
Fail End Condition	The user was unable to add new person/member
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Members" tab 2. Click "Add a new member" 3. Enter Personal Detail (First Name, Last Name, Age, Sex, Address, Role & Organization) 4. Click finish

Use Case Number	6
Use Case Name	Modify a Person/Member information
Related Requirements	Online account to interface with the system
Goal In Context	Successfully modify person/member information to system
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user modifies person/member's information
Fail End Condition	The user was unable to modify person/member's information
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Members" tab 2. Click "View Members" 3. Select member to modify 4. Opens to a summary of member information 5. Click edit 6. Modify information 7. Click Save

Use Case Number	7
Use Case Name	Add a new Organization
Related Requirements	Online account to interface with the system
Goal In Context	Successfully add new organization
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user adds a new organization
Fail End Condition	The user was unable to add a new organization
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Organization" tab 2. Click "Add a new Organization" 3. Enter Organization Detail information (Name, Address, Type) 4. Click finish

Use Case Number	8
Use Case Name	Modify an Organization Information
Related Requirements	Online account to interface with the system
Goal In Context	Successfully modify an organization's information
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user modifies organization information
Fail End Condition	The user was unable to modify organization's information
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Organization" tab 2. Click "View Organizations" 3. Select Organization to edit 4. Opens to a summary of Organization information 5. Click edit 6. Edit Organization information 7. Click save

Use Case Number	9
Use Case Name	Export Person/Member Information to xls
Related Requirements	Online account to interface with the system
Goal In Context	Successfully export person/member information from system to a downloadable xls document
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user gets a xls document containing the person/member information
Fail End Condition	The user was unable to get a the xls document containing the person/member's information
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Members" tab 2. Click "View Members" 3. Select member. 4. Opens to a summary of member information 5. Click Export to xls 6. Click Download

Use Case Number	10
Use Case Name	Export Organization Information to xls
Related Requirements	Online account to interface with the system
Goal In Context	Successfully export Organization information from system to a downloadable xls document
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user gets a xls document containing the organization information
Fail End Condition	The user was unable to get a the xls document containing the organization's information
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select the "Members" tab 2. Click "View Organization" 3. Select organization. 4. Opens to a summary of organization information 5. Click Export to xls 6. Click Download

Use Case Number	12
Use Case Name	Export Project Information to xls
Related Requirements	Online account to interface with the system
Goal In Context	Successfully export project information from system to a downloadable xls document
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user gets a xls document containing the project information
Fail End Condition	The user was unable to get a the xls document containing the project information
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Select project from Home screen 2. Opens a summary of Project information 3. Click Export to xls 4. Click Download

Use Case Number 13	
Use Case Name	Query information.
Related Requirements	Online account to interface with the system
Goal In Context	Successfully find a given member, project or organization with the search words used.
Pre-Condition	The user be logged in with a predetermined account
Successful End Condition	The user gets results based on keywords entered
Fail End Condition	The user was unable to get results
Primary Actors	Project Manager/System Administrator
Secondary Actors	None
Trigger	None
Main Flow	<ol style="list-style-type: none"> 1. Enter keywords to search for 2. Click Query 3. All relating information is returned.

Use Case Number:- 14	
Use Case Name	Logging Out
Related Requirements	Must have an account
Goal	User able to log out
Pre-Conditions	User must be currently logged in
Successful	User is successful in logging out of their account
Fail End Condition	User is unsuccessful in logging into their account
Primary Actor	User
Secondary Actor	Administrator or Manager
Main Flow	<ol style="list-style-type: none"> 1. User clicks on logout 2. System goes to log in screen and

3.2 DATA FLOW DIAGRAMS

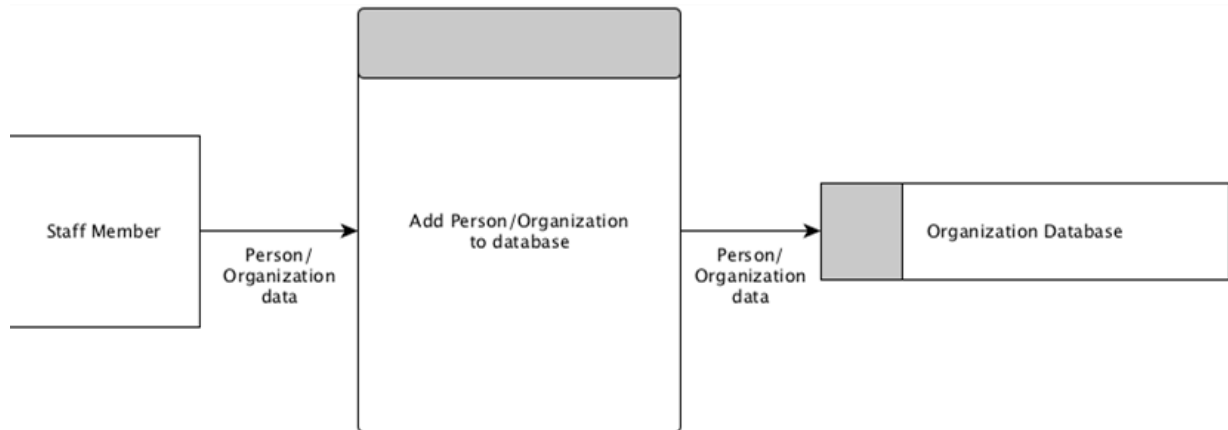


Figure 16: Adding a person to an organization

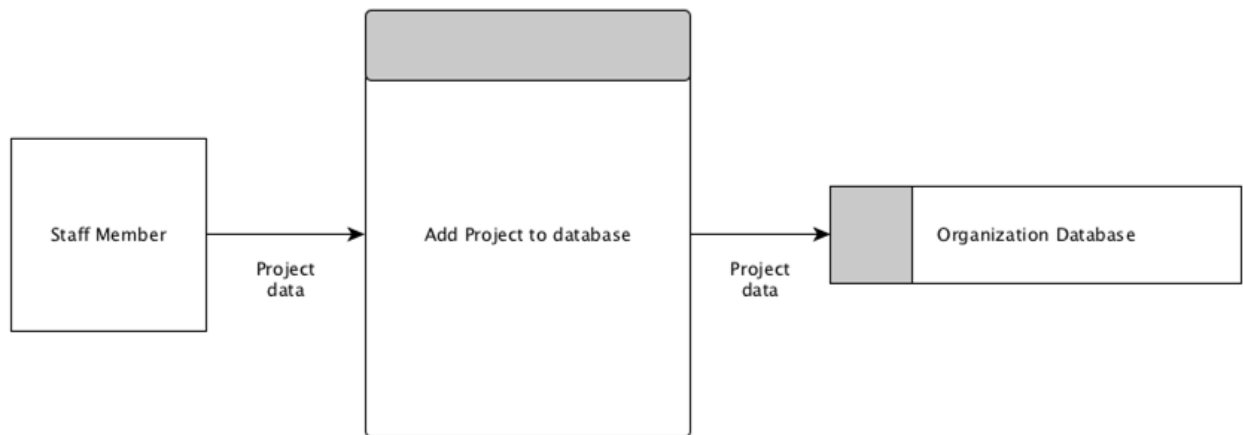


Figure 17: Adding a Project to the System



Figure 3: Transferring of Data (IN)

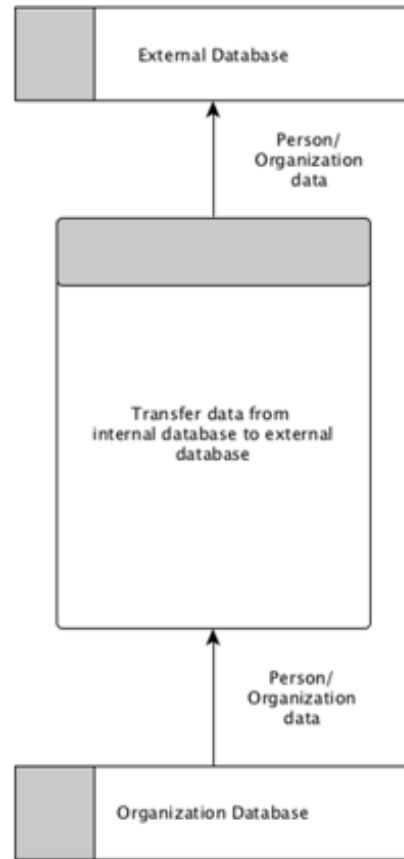


Figure 4: Transferring of Data (Out)

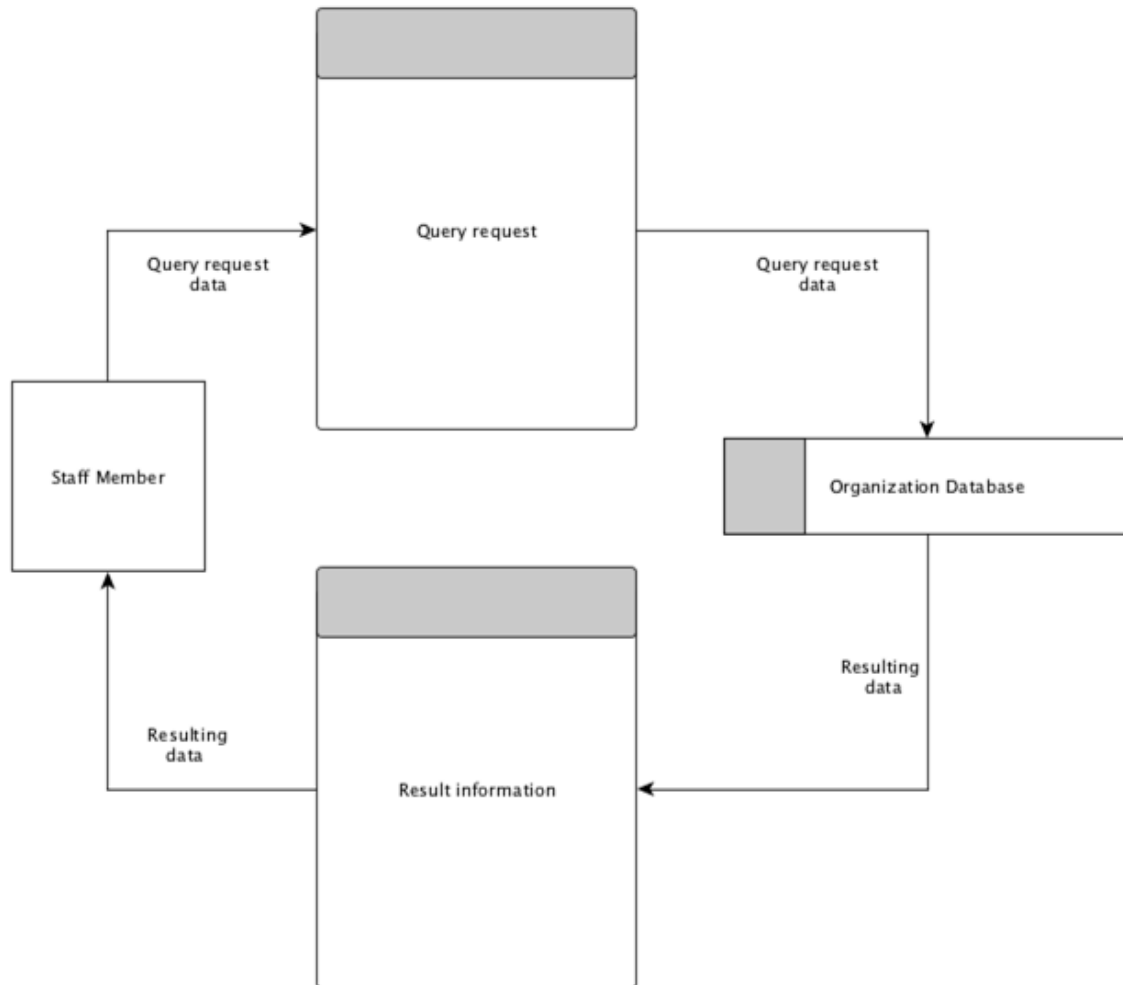


Figure 18: Querying Information

SECTION 4. OTHER REQUIREMENTS

A database for DAMMERI calls for a server side implementation that stores data for the organizations, members, projects as well as all the relationships involved. The database will be using MySQL.

APPENDIX A: GLOSSARY

- ✓ **User:** - is someone who has access to DAMMERI.
- ✓ **Organizations:** - refers to both funders and partners; the organizations tab manages all organizations referred to by the system.
- ✓ **Projects:** - manages all project related information in the system including activities and indicators contained within projects, adding projects and also modification of projects.
- ✓ **Export:** - allows a user to transfer the data out of DAMMERI into another file or programme such as Excel.
- ✓ **Save:** - Will save the data entered in the fields and add it to the list to the bottom of the window you are working in.
- ✓ **Previous:** - The previous button will direct the user to the previous screen or tab within the current operation.
- ✓ **Next:** - The next button will advance the user to the following screen or tab within the current operation.