

Command and Control
Response Cluster
National Disaster Risk Reduction and Management Council
QUALITY @ Asia Pacific College S.Y. 2016 – 2017

Course Instructor:

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|----------------------|--------------------|
| • Mr. Edmundo Casiño | QUALITY Instructor |
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Project Team:

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| • Carl Dominique Bueno | Project Manager/Developer |
| • Maica Belchez | Project Analyst/Documenter |
| • Abigail Malapo | Assistant Documenter/Quality Tester |
| • Jerome Mortera | Assistant Documenter/Quality Tester |

Client Information:

Company/Organization Name:	National Disaster Risk Reduction and Management Council (NDRRMC)
	Department of Social Welfare and Development (DSWD)
Project Name:	Command and Control Response Cluster
Primary Contact Person:	N/A
Position:	N/A

About Command and Control Response Cluster:

Lead Agency:	Philippine National Police (PNP)
Member Agency(s):	Armed Forces of the Philippines (AFP) Department of Foreign Affairs (DFA) Office of the Civil Defense (OCD) Department of the Interior and Local Government (DILG) Department of Health (DOH) Metropolitan Manila Development Authority (MMDA) Regional Emergency Assistance Communications Team (REACT) National Bureau of Investigation (NBI) Philippine Red Cross (PRC) Bureau of Fire Protection (BFP) Department of Public Works and Highways (DPWH) Philippine Coast Guard (PCG) International Federation of Red Cross (IFRC) International Committee of the Red Cross (ICRC) United Nations Disaster Assessment and Coordination

I. Overview

Project Description

Mission Statement

Maintaining peace and order on disaster circumstances. Therefore, providing an effective and integrated response to disaster situations through execution of standard procedures and protocols and a centralized disaster management system.

Problem Statement

Disaster is just around the corner and it may possibly happen anytime, local government units are expected to be at the frontline of emergency measures in the aftermath of disaster. Hence, government lacks on integration of disaster assessments to be drawn from local to national level and standard disaster protocols to execute an operative response action. Identifying the alert systems to be declared within the affected area for obligatory actions from local to national level of the government.

Another problem exist to present situation are the methods and criteria of determining the type of disaster and its risks, the level of damage, identifying the number of victims and evaluating the condition of the area. Moreover, disaster response includes suitable relief services and assistance to be provided by different sectors and volunteers.

Objectives:

Our project team will provide proof of concepts on determining the alert level of risk from local to national level through forming a disaster assessment form. In addition is the structure of command and control sub-headquarters to be deploy per government level that will evaluate the assessments per affected City, Province and Region.

Project Scope

- ✓ Identify the disaster and area affected
- ✓ Identify the hazard category and governance level
- ✓ Determine the rate of damage and victims affected
- ✓ Deploy relief services and support functions
- ✓ Communication between the respondents
- ✓ Centralized disaster assessment management system

Limitations

- ✓ Assessing volunteer must be registered as Disaster Coordination Council Officer per area of coverage
- ✓ Network Connectivity for transmission of data to sub-headquarters

Review of Related Literature



A proprietary mobile app which uses wireless mesh networking (Bluetooth or Wi-Fi) to enable smartphones communicate even without network or Internet connection.

Traditionally, users sent messages to each other through data or Wi-Fi networks. The messages are sent through a mobile network to a hotspot or cell phone tower. The data sent through to these data towers or Wi-Fi hotspots are then relayed through a centralized network and eventually the messages or data is received. During all this data transfer period, your VPN is tracked. Though you can use a VPN service to protect your mobile data, information about your network can be tracked. Unlike most chatting apps, the FireChat doesn't rely solely on Wi-Fi or data – it doesn't even need a hotspot or centralized mobile network to relay data. Instead, the app relies on peer-to-peer connections through wireless mesh networking via Bluetooth or Wi-Fi, technology built in the phone. If the FireChat users are within 100 feet of each other, they can connect and share messages.

FireChat is a free mobile app that works where other apps can't: when there are no cell networks or Internet access. How is that possible? The app uses the radios inside phones to let users connect to each other for free, via Bluetooth and direct Wi-Fi, without going through a telecom operator. The more people use it, the better it gets. When there is no Internet, for example at a music event, on the train, on a plane, or at a sports game, you can continue chatting and sharing pictures with the people around you. This is called "The Internet of Us". It's peer-to-peer networks gone mainstream, just like peer-to-peer to share music.



Eden is a flexible humanitarian platform with a rich feature set which can be rapidly customized to adapt to existing processes and integrate with existing systems to provide effective solutions for critical humanitarian needs management either prior to or during a crisis. Sahana Eden's features are designed to help Disaster and Emergency Management practitioners to better mitigate, prepare for, respond to and recover from disasters more effectively and efficiently. Sahana Eden can provide valuable solutions for practitioners in Emergency Management, Humanitarian Relief and Social Development domains.

Sahana Software was initially developed by members of the information technology (IT) community in Sri Lanka to provide solutions for the relief effort following the 2004 Indian Ocean Tsunami. Sahana Eden is the latest evolution of this software and provides a solution to manage organizations, people, projects, inventory and assets as well as collecting information through assessments and providing situational awareness through maps. Sahana Eden can be accessed from the web or locally from a flash drive, allowing it to be used in environments with poor internet.

Local & Web versions can be configured to synchronize to allow data to be shared between them. Sahana Eden is a project of the Sahana Software Foundation, whose mission is: To help alleviate human suffering by giving emergency managers, disaster response professionals and communities access to the information that they need to better prepare for and respond to disasters through the development and promotion of free and open source software and open standards. The project is supported by a voluntary community of Disaster Management practitioners, students, academics and companies. This community can provide a basic level of support to help you deploy and configure Sahana Eden. There are also companies, such as AidIQ, who provide professional services to customize and support Sahana Eden.

II. Stakeholders

Course Instructor:

- Mr. Edmundo Casiño SOFTDEV and QUALITY Professor

Project Team:

- | | |
|------------------------|-------------------------------------|
| • Carl Dominique Bueno | Project Manager/Developer |
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Client Information:

Company/Organization Name: National Disaster Risk Reduction and Management Council (NDRRMC)

Department of Social Welfare and Development (DSWD)

Project Name: Command and Control Response Cluster

Primary Contact Person: N/A
Position: N/A

Roles and Responsibilities

Name	Roles	Responsibilities
Carl Dominique Bueno	Quality Manager/Quality Analyst	Plan and ensures that all scenarios that could potentially arise in the project with regards to its performance is addressed before development is started.
Maica Belchez	Document Specialist/Quality Control	Guarantees that all significant actions for the duration of the project are properly documented.
J Jerome Mortera	Quality Tester	Ensures that bugs and quality failures that arise from the project are spotted, scrutinized, and fixed.
Abigail Malapo	Quality Tester	Ensures that bugs and quality failures that arise from the project are spotted, scrutinized, and fixed.

III. Quality Assurance Plan

Quality Checklists

Checklist for requirement specification report

Project name: Command and Control Sub-Headquarters

USER INTERFACE (Dashboard)					
Item No.	Subject	Yes	No	N/A	Comment/s
1 Functionality					
1.1	Content are appropriate and well-defined	✓			
1.2	Is the labels and headings are appropriate?	✓			
1.3	Is the text font readable or understandable?	✓			
1.4	Is the text size readable?	✓			
1.5	Are all text properly aligned?	✓			
1.6	Images and logos are placed properly	✓			
1.7	Colors, Shades, and Tables are used properly	✓			
1.8	Side bar widget functions when clicked hove	✓			
1.9	Confirmation message for action response	✓			
2 Instructions					
2.1	Are all messages easy to understand?			✓	
2.2	Are all messages spelled correctly?			✓	
2.3	Are all messages used appropriate camelcase?			✓	
2.4	Are all placeholders used on each input fields?		✓		
3 Usability					
3.1	Can a typical user run the system without hesitation?	✓			
3.2	Does the site look good on different screen resolution?	✓			
3.3	Are all terms used understandable for intended users?	✓			
4 User Interface					
4.1	Does the dashboard look presentable?	✓			
4.2	Does the dashboard use appropriate text font and size?	✓			
4.3	Are the screen and field adjusted correctly?	✓			
4.4	Color are visible and properly used	✓			
4.5	Interactive design	✓			
4.6	Dashboard can be used in other device(s) (mobile)				
4.7	Assessment forms can be used in other device(s) (computer/laptop)	✓			
4.8	Charts and tables are properly used			✓	
4.9	Checklist are properly used	✓			

Checklist for requirement specification report

Project name: Command and Control Sub-Headquarters

FUNCTIONALITY (Dashboard)					
Item No.	Subject	Yes	No	N/A	Comment/s
1	Login as an Administrator				
1.1	Successfully access the login page	✓			
1.2	The field is in proper format	✓			
1.3	The "Password" field must be hidden in format when typed	✓			
1.4	The system must prompt an error message when incorrect data is entered	✓			
1.5	When "Login" button is clicked, the page will redirect to homepage	✓			
1.6	Successfull Log In	✓			
2	Dashboard				
2.1	Successfully access the dashboard	✓			
2.2	Shows the user and its role who is currently login to the dashboard	✓			
2.3	The side bar widgets show information and functionality of the system when clicked	✓			
2.4	The side bar widget is in responsive display when clicked	✓			
2.5	The main page shows the updated record of User, Post and Page	✓			
2.6	The main page shows the reference link of NDRRMC Response cluster	✓			
2.7	The system consist of "Logout" function	✓			
3	Roles				
3.1	The "Role" button on the side bar redirects to Role Page when clicked	✓			
3.2	Successfully access Role page	✓			
3.3	Role page shows registered roles of the users who interacts with the system	✓			
3.4	The "Add New" button redirects to adding a role functionality when clicked (only an admin can add a role)	✓			
3.4.1	The fields are in proper formats	✓			
3.4.2	The "Submit" button saves the added role when clicked	✓			
3.5	The "View" button shows user's access and restriction to the system when clicked	✓			
3.5.1	Successfully displays the role's information	✓			
3.6	The "Edit" button functions on editing the roles (only an admin can edit an existing role)	✓			
3.6.1	The fields are in proper formats for editing	✓			
3.6.2	The "Submit" button saves the changes on editing the role	✓			

3.7	The "Delete" button functions on deleting the roles (only an admin can delete an existing role)	✓			
3.8	The search field functions on searching the registered role in the system	✓			
4 Users					
4.1	The "Users" button on the side bar redirects to Users Page when clicked	✓			
4.2	Successfully access Users page	✓			
4.3	Users page shows the registered users who interacts with the system	✓			
4.4	The "Add New" button redirects to adding a user functionality when clicked (only an admin can add a user)	✓			
4.4.1	The fields are in proper formats	✓			
4.4.2	The "Submit" button saves the added role when clicked	✓			
4.5	The "View" button shows user's information registered on the system when clicked	✓			
4.5.1	Successfully displays the user's information	✓			
4.6	The "Edit" button functions on editing the users (only an admin can edit an existing user)	✓			
4.6.1	The fields are in proper formats for editing	✓			
4.6.2	The "Submit" button saves the changes on editing the user	✓			
4.7	The "Delete" button functions on deleting a user (only an admin can delete an existing user)	✓			
4.8	The search field functions on searching the registered user in the system	✓			
5 Media					
5.1	The "Media" button on the side bar redirects to Media Page when clicked	✓			
5.2	Successfully access Media page	✓			
5.3	Media page shows manifested resources uploaded and existing within the system	✓			
5.4	The "Upload" button prompts a window which you can browse the resources you want to upload to the system	✓			
5.5	The "Add folder" button creates a folder when clicked	✓			
5.6	The "Move" button functions on moving the uploaded resources into different locations	✓			
5.7	The "Rename" button functions on renaming a resources existing on the system	✓			
5.8	The "Delete" button function on deleting the selected resources existing in the sysem	✓			
6 Posts					

6.1	The "Posts" button on the side bar redirects to Posts Page when clicked	✓			
6.2	Successfully access Posts page	✓			
6.3	Posts page shows the posted reports of the evaluated assessments within the system	✓			
6.4	The "Add New" button redirects to adding a post functionality when clicked	✓			
6.4.1	The fields are in proper formats	✓			
6.4.2	The "Submit" button saves the added post when clicked	✓			
6.5	The "View" button shows posts information registered on the system when clicked	✓			
6.5.1	Successfully display the post's information	✓			
6.6	The "Edit" button functions on editing the posts	✓			
6.6.1	The fields are in proper formats for editing	✓			
6.6.2	The "Submit" button saves the changes on editing the post	✓			
6.7	The "Delete" button functions on deleting a post	✓			
6.8	The search field functions on searching the registered post in the system	✓			
7 Pages					
7.1	The "Pages" button on the side bar redirects to Pages Page when clicked	✓			
7.2	Successfully access Pages page	✓			
7.3	Pages page shows the pages of posted reports within the system	✓			
7.4	The "Add New" button redirects to adding a page functionality when clicked	✓			
7.4.1	The fields are in proper formats	✓			
7.4.2	The "Submit" button saves the added page when clicked	✓			
7.5	The "View" button shows page information registered on the system when clicked	✓			
7.5.1	Successfully display the page's information	✓			
7.6	The "Edit" button functions on editing the page	✓			
7.6.1	The fields are in proper formats for editing	✓			
7.6.2	The "Submit" button saves the changes on editing the page	✓			
7.7	The "Delete" button functions on deleting a page	✓			
7.8	The search field functions on searching the existing page in the system	✓			
8 Categories					
8.1	The "Categories" button on the side bar redirects to Categories Page when clicked	✓			
8.2	Successfully access Categories page	✓			
8.3	Categories page shows the category of disaster based on level of governance	✓			

8.4	The "Add New" button redirects to adding a category functionality when clicked	✓			
8.4.1	The fields are in proper formats	✓			
8.4.2	The "Submit" button saves the added category when clicked	✓			
8.5	The "View" button shows category information registered on the system when clicked	✓			
8.5.1	Successfully display the category's information	✓			
8.6	The "Edit" button functions on editing the category	✓			
7.6.1	The fields are in proper formats for editing	✓			
7.6.2	The "Submit" button saves the changes on editing the	✓			
8.7	The "Delete" button functions on deleting a category	✓			
8.8	The search field functions on searching the existing category in the system	✓			

Checklist for requirement specification report

Project name: Command and Control - NDCC Assessment Forms (Local to National Level)

USER INTERFACE (Mobile Application)					
Item No.	Subject	Yes	No	N/A	Comment/s
1	Functionality				
1.1	Content are appropriate and well-defined	✓			
1.2	Is the labels and headings are appropriate?	✓			
1.3	Is the text font readable or understandable?	✓			
1.4	Is the text size readable?	✓			
1.5	Are all text properly aligned?	✓			
1.6	Images and logos are placed properly			✓	
1.7	Colors, Shades, and Tables are used properly	✓			
1.8	Side bar widget functions when clicked hove			✓	
1.9	Confirmation message for action response	✓			
2	Instructions				
2.1	Are all messages easy to understand?	✓			
2.2	Are all messages spelled correctly?	✓			
2.3	Are all messages used appropriate camelcase?			✓	
2.4	Are all placeholders used on each input fields?	✓			
3	Usability				
3.1	Can a typical user run the system without hesitation?	✓			
3.2	Does the site look good on different screen resolution?	✓			
3.3	Are all terms used understandable for intended users?	✓			
4	User Interface				
4.1	Does the assessment forms look presentable?	✓			
4.2	Does the assessment forms use appropriate text font and size?	✓			
4.3	Are the screen and field adjusted correctly?	✓			
4.4	Color are visible and properly used	✓			
4.5	Interactive design	✓			
4.6	Assessment forms can be used in other device(s) (mobile)	✓			
4.7	Assessment forms can be used in other device(s) (computer/laptop)		✓		
4.8	Charts and tables are properly used			✓	
4.9	Checklist are properly used	✓			

Checklist for requirement specification report

Project name: Command and Control - NDCC Assessment Forms (Local to National Level)

FUNCTIONALITY (Mobile Application)					
Item No.	Subject	Yes	No	N/A	Comment/s
1	<i>Installation of mobile application</i>				
1.1	Get the mobile application from NDRRMC			✓	
1.2	Install Mobile Application into the device			✓	
2	<i>DCC Registration Form</i>				
2.1	Successfully access the registration page	✓			
2.2	The fields are in proper formats	✓			
2.2.1	Input field for full name	✓			
2.2.2	Input field for DCC position	✓			
2.2.3	Input field for Birthdate	✓			
2.2.4	Input field for Address	✓			
2.2.5	Input field for Email Address	✓			
2.2.6	Input field for Contact Number	✓			
2.2.7	Input field for Civil Status	✓			
2.2.8	Upload link for Profile Image	✓			
2.3	The system must prompt an error message when incorrect data is entered	✓			
2.4	When "Submit" button is clicked, the information will be saved and for validation request to NDCC	✓			
2.5	Successfully register the user	✓			
2.6	Data entered are saved into database	✓			
3	<i>Login as a User</i>				
3.1	Successfully access the login page	✓			
3.2	The field is in proper format	✓			
3.3	The "Password" field must be hidden in format when typed	✓			
3.4	The system must prompt an error message when incorrect data is entered	✓			
3.5	When "Login" button is clicked, the page will redirect to homepage	✓			
3.6	Successfull Log In	✓			
4	<i>LGU Disaster Assessment Form</i>				
4.1	Successfully access LGU Disaster Assessment Form	✓			
4.2	The fields are in proper formats	✓			
4.2.1	Generated name / id	✓			
4.2.2	Input field for area of coverage	✓			
4.2.3	Input field for date and time reported	✓			
4.2.4	Input field for rate of damage	✓			
4.2.5	Input field for numbers of victims	✓			
4.2.5.1	Number of Male victim(s)	✓			
4.2.5.2	Number of Female victim(s)	✓			
4.2.6	Checklist for types of incident(s)	✓			

4.2.7	Checklist table for disaster assessment	✓			
4.2.8	Checklist for relief service(s) and assistance(s) required	✓			
4.2.9	Input field for disaster site description	✓			
4.2.10	Address Map Locator for disaster	✓			
4.2.10.1	Get specific address	✓			
4.2.10.2	Get Longitud and Latitude	✓			
4.2.11	Upload link for image of site status	✓			
4.3	The system must prompt an error message when incorrect data is entered	✓			
4.4	When "Submit" button is clicked, the information will be saved and for validation request to NDCC	✓			
4.5	When "Clear Form" button is clicked, the form and data entered will reset	✓			
4.6	When "Generate Form" button is clicked, the form be printed out			✓	
4.7	Successfully sent assessment to sub-headquarters			✓	
4.8	Data entered are saved into database	✓			
5 Provincial/City/Municipal Disaster Assessment Form					
5.1	Successfully access Provincial/City/Municipal Disaster Assessment Form	✓			
5.2	The fields are in proper formats	✓			
5.2.1	Generated name / id	✓			
5.2.2	Input field for area of coverage	✓			
5.2.3	Input field for date and time reported	✓			
5.2.4	Input field for number of Provincial/City/Municipal Reported	✓			
5.2.5	Input field for rate of damage	✓			
5.2.6	Input field for numbers of victims	✓			
5.2.6.1	Number of Male victim(s)	✓			
5.2.6.2	Number of Female victim(s)	✓			
5.2.7	Assessment for alert system	✓			
5.2.8	Checklist for types of incident(s)	✓			
5.2.9	Checklist table for disaster assessment	✓			
5.2.10	Checklist for relief service(s) and assistance(s) required	✓			
5.2.11	Input field for disaster site description	✓			
5.2.12	Upload link for image of site status	✓			
5.3	The system must prompt an error message when incorrect data is entered	✓			
5.4	When "Submit" button is clicked, the information will be saved and for validation request to RDCC	✓			
5.5	When "Clear Form" button is clicked, the form and data entered will reset	✓			
5.6	When "Generate Form" button is clicked, the form be printed out			✓	

5.7	Successfully sent assessment to Regional Disaster Coordinating Council headquarters		✓	
5.8	Data entered are saved into database	✓		
6 <i>Regional Disaster Assessment Form</i>				
6.1	Successfully access Regional Disaster Assessment Form	✓		
6.2	The fields are in proper formats	✓		
6.2.1	Generated name / id	✓		
6.2.2	Input field for area of coverage	✓		
6.2.3	Input field for date and time reported	✓		
6.2.4	Input field for number of Region(s) Reported	✓		
6.2.5	Input field for rate of damage	✓		
6.2.6	Input field for numbers of victims	✓		
6.2.6.1	Number of Male victim(s)	✓		
6.2.6.2	Number of Female victim(s)	✓		
6.2.7	Assessment for alert system	✓		
6.2.8	Checklist for types of incident(s)	✓		
6.2.9	Checklist table for disaster assessment	✓		
6.2.10	Checklist for relief service(s) and assistance(s) required	✓		
6.2.11	Input field for disaster site description	✓		
6.2.12	Upload link for image of site status	✓		
6.3	The system must prompt an error message when incorrect data is entered	✓		
6.4	When "Submit" button is clicked, the information will be saved and for validation request to NDCC	✓		
6.5	When "Clear Form" button is clicked, the form and data entered will reset	✓		
6.6	When "Generate Form" button is clicked, the form be printed out			✓
6.7	Successfully sent assessment to National Disaster Coordinating Council headquarters			✓
6.8	Data entered are saved into database	✓		
7 <i>National Assessment Form</i>				
7.1	Successfully access Regional Disaster Assessment Form	✓		
7.2	The fields are in proper formats	✓		
7.2.1	Generated name / id	✓		
7.2.2	Input field for area of coverage	✓		
7.2.3	Input field for date and time reported	✓		
7.2.4	Dropdown menu for Alert Code	✓		
7.2.5	Input field for rate of damage	✓		
7.2.6	Input field for numbers of victims	✓		
7.2.7	Input field for number of Region(s) Reported	✓		
7.2.8	Assessment for alert system	✓		
7.2.9	Checklist for types of incident(s)	✓		
7.2.10	Checklist table for disaster assessment	✓		

7.2.11	Checklist for relief service(s) and assistance(s) required	✓			
7.2.12	Input field for disaster site description	✓			
7.2.13	Upload link for image of site status	✓			
7.3	The system must prompt an error message when incorrect data is entered	✓			
7.4	When "Submit" button is clicked, the information will be saved and for validation request to NDCC	✓			
7.5	When "Clear Form" button is clicked, the form and data entered will reset	✓			
7.6	When "Generate Form" button is clicked, the form be printed out			✓	
7.7	Successfully sent assessment to National Disaster Coordinating Council headquarters			✓	
7.8	Data entered are saved into database	✓			

IV. Quality Test Plan

Test Requirements

User Interface Testing

The project team will check for the system's user interface to ensure it meets the client's requirements. Test cases will be created and records the expected and actual results of each functionalities when used.

Tests that will be done - The following tests will be done:

- ✓ Database Testing
- ✓ Functional Testing
- ✓ Performance Testing

Test Objectives - The quality objectives of testing the system are to ensure complete validation of the client's requirements:

- ✓ Validate software requirements are accurate
- ✓ Perform detailed test planning
- ✓ Determine testing procedures that will be used for the project
- ✓ Record test scenarios and test cases

Tools Required:

- Internet Browser (Mozilla Firefox/Google Chrome)
- Mobile phones (Android Version: Android Jelly Bean 4.3 and above)
- XAMPP

Quality Test Cases

Login Dashboard

Test Case ID	CC-TCL01	Test Case Description	Test Log in to Dashboard	
Created By	Carl Bueno	Reviewed By	Maica Belchez	
Tester's Name	Jorome Mortera		Test Case (Pass / Fail / Not Executed):	
Item No.	Prerequisites:			Passed
1	XAMPP for PHP and SQL			
2	Internet Browser			
3	Computer/Laptop			
4	Registered as NDCC Official			
Item No.	Test Data			
1	Registered Email Address of User			
2	User's Password			
3				
4				
Test Scenario	Verify the user's access in entering valid email address and password			
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed
1	Run the dashboard	Connected to the server	As Expected	Pass
2	Access the log in page	Log in page display	As Expected	Pass
3	Enter registered email	Fill email address as user id	As Expected	Pass
4	Enter user password	Fill password hidden format	As Expected	Pass
5	Enter incorrect email and	Promt message of incorrect	As Expected	Pass
6	Click "Log in" button	Access the dashboard	As Expected	Pass

Dashboard Functionalities

Test Case ID	CC-TCD02	Test Case Description	Test Dashboard Functions	
Created By	Carl Bueno	Reviewed By	Maica Belchez	
Tester's Name	Abegail Malapo		Test Case (Pass / Fail / Not Executed):	
Item No.	Prerequisites:			Passed
1	XAMPP for PHP and SQL			
2	Internet Browser			
3	Computer/Laptop			
4				
Item No.	Test Data			
1	Roles input values			
2	User input values			
3	Post input values			
4	Pages input values			
Test Scenario	Verify the function on dashboard			
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed
1	Login to dashboard	Connected to the server	As Expected	Pass
2	Sidebar widget shows the links to pages of dashboard	Shows function and links to other pages	As Expected	Pass
3	Homepage displays the updated record of users, posts and pages registered on the system	Updated view of registered users, posts and pages	As Expected	Pass

4	Display current user and role	Shows the currently user	As Expected	Pass
5	Click "Roles" button from the sidebar	Redirect to Roles Page	As Expected	Pass
6	Click "Add New" button	Create an new role	As Expected	Pass
6.1	Select Role's accesses and restrictions	Fill role's accesses and restrictions	As Expected	Pass
6.2	Click "Submit" button	Saves the role entered and prompt confirmation msg	As Expected	Pass
7	Click "View" button	Shows the role's information	As Expected	Pass
8	Click "Edit" button	Redirect to edit role page	As Expected	Pass
8.1	Change values of a role	Change role values	As Expected	Pass
8.2	Click "Submit" button	Saves the changes on edited role and prompt confirmation message	As Expected	Pass
9	Click "Delete" button	Delete the selected role	As Expected	Pass
10	Click "User" button from the sidebar	Redirect to Users Page	As Expected	Pass
10.1	Click "Add New" button	Create an new user	As Expected	Pass
10.2	Enter user's information	Fill users information	As Expected	Pass
11	Click "Submit" button	Saves the user	As Expected	Pass
12	Click "View" button	Shows the user's information	As Expected	Pass
13	Click "Edit" button	Redirect to edit user page	As Expected	Pass
13.1	Change values of a user	Change user values	As Expected	Pass
13.2	Click "Submit" button	Saves the changes on edited user and prompt confirmation message	As Expected	Pass
14	Click "Delete" button	Delete the selected user	As Expected	Pass
15	Click "Media" button on the sidebar	Redirect to Media page	As Expected	Pass
16	Click "Upload"button	Prompt a window to browse the resources to upload	As Expected	Pass
17	Click "Add Folder" button	Added a new folder	As Expected	Pass
18	Click "Move" button	Move a selected item to different destination	As Expected	Pass
19	Click "Rename" button	Rename a selected item	As Expected	Pass
20	Click "Delete" button	Delete a selected item	As Expected	Pass
21	Click "Post" button from the sidebar	Redirect to Post page	As Expected	Pass
22	Click "Add New" button	Create an new post from assessment forms	As Expected	Pass
23.1	Enter post information	Fill post information	As Expected	Pass
23.2	Click "Submit" button	Saves the post	As Expected	Pass

24	Click "View" button	Shows the post's information	<i>As Expected</i>	<i>Pass</i>
25	Click "Edit" button	Redirect to edit post page	<i>As Expected</i>	<i>Pass</i>
25.1	Change values of the post	Change post values	<i>As Expected</i>	<i>Pass</i>
25.2	Click "Submit" button	Saves the changes on edited post and prompt confirmation message	<i>As Expected</i>	<i>Pass</i>
26	Click "Delete" button	Delete the selected post	<i>As Expected</i>	<i>Pass</i>
27	Click "Pages" button from the sidebar	Redirect to Pages page	<i>As Expected</i>	<i>Pass</i>
28	Click "Add New" button	Create an new pages	<i>As Expected</i>	<i>Pass</i>
28.1	Enter page information	Fill page information	<i>As Expected</i>	<i>Pass</i>
28.2	Click "Submit" button	Saves the page	<i>As Expected</i>	<i>Pass</i>
29	Click "View" button	Shows the page's information	<i>As Expected</i>	<i>Pass</i>
30	Click "Edit" button	Redirect to edit page's page	<i>As Expected</i>	<i>Pass</i>
30.1	Change values of the page	Change page values	<i>As Expected</i>	<i>Pass</i>
30.2	Click "Submit" button	Saves the changes on edited page and prompt confirmation message	<i>As Expected</i>	<i>Pass</i>
31	Click "Delete" button	Delete the selected page	<i>As Expected</i>	<i>Pass</i>
32	Click "Categories" button form the sidebar	Redirect to Categories Page	<i>As Expected</i>	<i>Pass</i>
33	Click "Add New" button	Create an new category of alert	<i>As Expected</i>	<i>Pass</i>
33.1	Enter category information	Fill category information	<i>As Expected</i>	<i>Pass</i>
33.2	Click "Submit" button	Saves the category	<i>As Expected</i>	<i>Pass</i>
34	Click "View" button	Shows the category's information	<i>As Expected</i>	<i>Pass</i>
35	Click "Edit" button	Redirect to edit category page	<i>As Expected</i>	<i>Pass</i>
35.1	Change values of the category	Change category values	<i>As Expected</i>	<i>Pass</i>
35.2	Click "Submit" button	Saves the changes on edited category and prompt confirmation message	<i>As Expected</i>	<i>Pass</i>
36	Click "Delete" button	Delete the selected category	<i>As Expected</i>	<i>Pass</i>
37	Click "Log Out" button	Log out user	<i>As Expected</i>	<i>Pass</i>
38	Login created user	Login user	<i>As Expected</i>	<i>Pass</i>

Disaster Coordinating Council Officer Registration (MobileApp)

Test Case ID	CC-TCR03	Test Case Description	Test DCC Registration to Mobile																					
Created By	Carl Bueno	Reviewed By	Maica Belchez																					
Tester's Name		J Jerome Mortera	Test Case (Pass / Fail / Not Executed): Passed																					
<table border="1"> <thead> <tr> <th>Item No.</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Registered as NDCC Official</td> </tr> <tr> <td>2</td> <td>Mobile Device (Android Platform)</td> </tr> <tr> <td>3</td> <td>Internet Connection</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>			Item No.	Prerequisites:	1	Registered as NDCC Official	2	Mobile Device (Android Platform)	3	Internet Connection	4		<table border="1"> <thead> <tr> <th>Item No.</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>User information</td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>		Item No.	Test Data	1	User information	2		3		4	
Item No.	Prerequisites:																							
1	Registered as NDCC Official																							
2	Mobile Device (Android Platform)																							
3	Internet Connection																							
4																								
Item No.	Test Data																							
1	User information																							
2																								
3																								
4																								
Test Scenario Verify the Disaster Coordinating Council Officer Registration Form																								
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed																				
1	Install Mobile Application	Run App installation	As Expected	Pass																				
2	Run the Application	Connected to the server	As Expected	Pass																				
3	Access the DCC Registration in page in the app	Registration page display	As Expected	Pass																				
4	Enter Complete Name	Filled up name	As Expected	Pass																				
5	Select the position on level of governance	Selected position	As Expected	Pass																				
6	Enter Birthdate	Filled up Birthdate	As Expected	Pass																				
7	Enter Email Address	Filled up Email Address	As Expected	Pass																				
8	Enter Complete Address	Filled Address	As Expected	Pass																				
9	Enter Contact Number	Filled up Contact Number	As Expected	Pass																				
10	Select Civil Status	Selected Civil Status	As Expected	Pass																				
11	Upload Profile Image	Uploaded Profile Image	As Expected	Pass																				
12	Click "Submit" button	Save records to database	As Expected	Pass																				
13	Check database for new records	Updated database records	As Expected	Pass																				
14	Receive confirmation of request from NDRRMC Headquarter	Validation of request from NDRRMC Headquarters	As Expected	Not executed																				
15	Receive registered account Control ID and default Password from NDRRMC HQ	Receive account control id and default password for app access	As Expected	Not executed																				
16	Entered incorrect data type on input fields	Error message prompt to input proper data types	As Expected	Pass																				
17	Submit incomplete registration form	Error message prompt to complete and fill up the required fields	As Expected	Pass																				

Login as User (Mobile)

Test Case ID	CC-TCL04	Test Case Description	Test Log in to Mobile																					
Created By	Carl Bueno	Reviewed By	Maica Belchez																					
Tester's Name		Abegail Malapo	Test Case (Pass / Fail / Not Executed):																					
			Passed																					
<table border="1"> <thead> <tr> <th>Item No.</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Registered as NDCC Official</td> </tr> <tr> <td>2</td> <td>Mobile Device (Android Platform)</td> </tr> <tr> <td>3</td> <td>Internet Connection</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>		Item No.	Prerequisites:	1	Registered as NDCC Official	2	Mobile Device (Android Platform)	3	Internet Connection	4		<table border="1"> <thead> <tr> <th>Item No.</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Registered Email Address of user</td> </tr> <tr> <td>2</td> <td>User's password</td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>	Item No.	Test Data	1	Registered Email Address of user	2	User's password	3		4			
Item No.	Prerequisites:																							
1	Registered as NDCC Official																							
2	Mobile Device (Android Platform)																							
3	Internet Connection																							
4																								
Item No.	Test Data																							
1	Registered Email Address of user																							
2	User's password																							
3																								
4																								
Test Scenario																								
Verify the user's access on mobile app by entering valid email address and password																								
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed																				
1	Install Mobile Application	Run App installation	As Expected	Pass																				
2	Run the Application	Connected to the server	As Expected	Pass																				
3	Access the log in page	Log in page display	As Expected	Pass																				
4	Enter registered email	Fill email address as user id	As Expected	Pass																				
5	Enter user password	Fill password hidden format	As Expected	Pass																				
6	Enter incorrect email and	Promt message of incorrect	As Expected	Pass																				
7	Click "Log in" button	Access the dashboard	As Expected	Pass																				

Assessment on Mobile

Test Case ID	CC-TCM05	Test Case Description	Test Disaster Assessment Functions on Mobile device																					
Created By	Carl Bueno	Reviewed By	Maica Belchez																					
Tester's Name		Jorome Mortera	Test Case (Pass / Fail / Not Executed):																					
			Passed																					
<table border="1"> <thead> <tr> <th>Item No.</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Login Registered NDCC Official</td> </tr> <tr> <td>2</td> <td>Mobile Device (Android Platform)</td> </tr> <tr> <td>3</td> <td>Internet Connection</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>		Item No.	Prerequisites:	1	Login Registered NDCC Official	2	Mobile Device (Android Platform)	3	Internet Connection	4		<table border="1"> <thead> <tr> <th>Item No.</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>LGU Disaster Assessment Data</td> </tr> <tr> <td>2</td> <td>Provi/City/Muni Disaster Assessment Data</td> </tr> <tr> <td>3</td> <td>Regional Assessment Data</td> </tr> <tr> <td>4</td> <td>National Assessment Data</td> </tr> </tbody> </table>	Item No.	Test Data	1	LGU Disaster Assessment Data	2	Provi/City/Muni Disaster Assessment Data	3	Regional Assessment Data	4	National Assessment Data		
Item No.	Prerequisites:																							
1	Login Registered NDCC Official																							
2	Mobile Device (Android Platform)																							
3	Internet Connection																							
4																								
Item No.	Test Data																							
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3	Regional Assessment Data																							
4	National Assessment Data																							
Test Scenario																								
Verify the function on dashboard																								
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed																				
1	<i>LGUs Disaster Assessment Report Form</i>																							
1.1	Access LGU Disaster Assessment Report Form	Access to LGU Disaster Assessment Report Form	As Expected	Pass																				
1.2	Generated name/ID of current user	System generated user name/ID	As Expected	Pass																				
1.3	Input data on Area of Coverage	Filled up Area of Coverage	As Expected	Pass																				

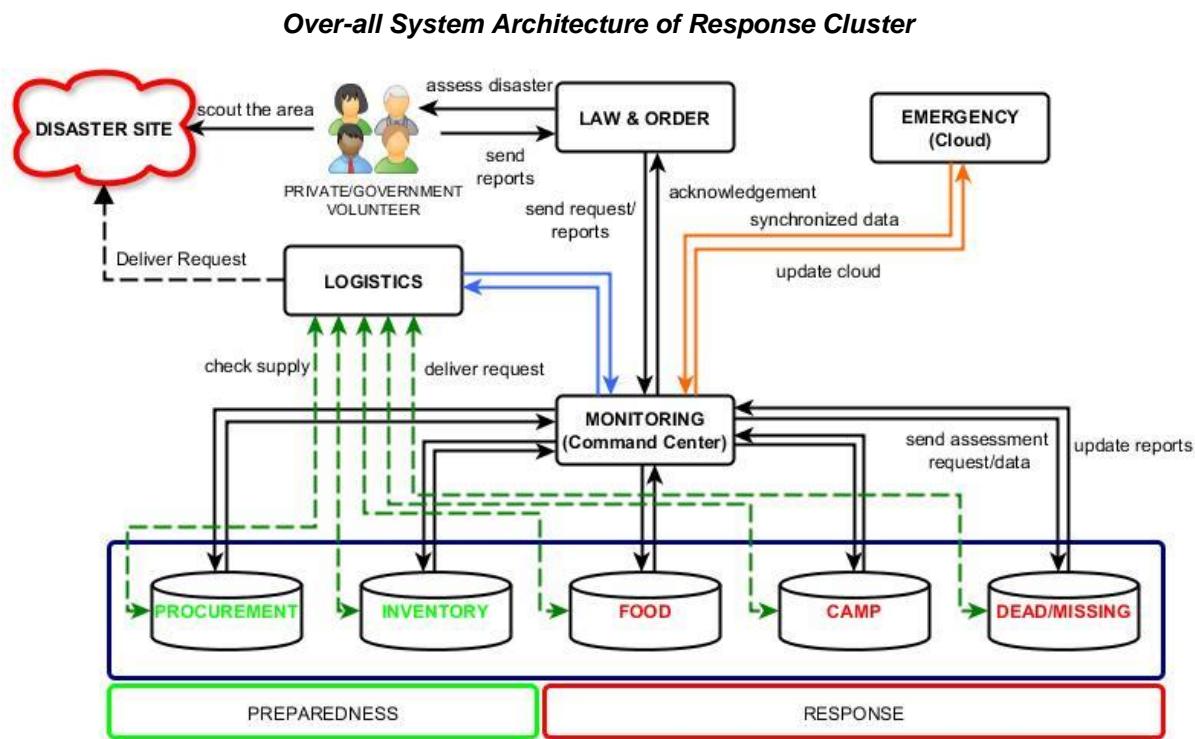
1.4	Input Date and Time Reported	Set Date and Time Reported	As Expected	Pass
1.5	Select Rate of Damage from "Normal to Emergency"	Filled up Rate of Damage	As Expected	Pass
1.6	Input Number of Victims	Determine male and female victims	As Expected	Pass
1.6.1	Input No. of Male Victims	Number of Male Victims	As Expected	Pass
1.6.2	Input No. of Female Victims	Number of Female Victims	As Expected	Pass
1.7	Select type of Incident	Selected type of Incident	As Expected	Pass
1.8	Select type of Relief Services and Assistance required	Selected type of Relief Services and Assistance required	As Expected	Pass
1.9	Input data on Site Description	Filled up Site Description	As Expected	Pass
1.10	Locate Address on Map	Locate Address on Map	As Expected	Pass
1.10.1	Locate Address	Identified Address	As Expected	Pass
1.10.2	Locate Longitude & Latitude	Identified Coordinates	As Expected	Pass
1.11	Take a Photo of the Site	Photo Taken and saved	As Expected	Pass
1.12	Click "Submit" button	Data saved to database	As Expected	Pass
1.13	Click "Clear Form" button	Refresh and clear data on form	As Expected	Pass
1.14	Click "Generate Report" button	Form will be printed out	As Expected	Not Executed
1.15	Entered incorrect data type on input fields	Error message prompt to input proper data types	As Expected	Pass
1.16	Submit incomplete assessment form	Error message prompt to complete and fill up the required fields	As Expected	Pass
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed
2	<i>Provincial/City/Municipal Disaster Assessment Report Form</i>			
2.1	Access Prov/City/Muni Disaster Assessment Report Form	Access to Prov/City/Muni Disaster Assessment Report Form	As Expected	Pass
2.2	Generated name/ID of current user	System generated user name/ID	As Expected	Pass
2.3	Input data on Area of Coverage	Filled up Area of Coverage	As Expected	Pass
2.4	Input Date and Time	Set Date and Time Reported	As Expected	Pass
2.5	Select Rate of Damage from "Normal to Emergency"	Filled up Rate of Damage	As Expected	Pass
2.6	Input Number of Barangays Reported	Number of Reported Barangays	As Expected	Pass
2.7	Input Number of Victims	Determine male and female victims	As Expected	Pass
2.7.1	Input No. of Male Victims	Number of Male Victims	As Expected	Pass
2.7.2	Input No. of Female Victims	Number of Female Victims	As Expected	Pass

2.8	Select Alert System	Selected Alert System	As Expected	Pass
2.9	Select type of Incident	Selected type of Incident	As Expected	Pass
2.10	Select type of Relief Services and Assistance required	Selected type of Relief Services and Assistance required	As Expected	Pass
2.11	Input data on Site Description	Filled up Site Description	As Expected	Pass
2.12	Upload files	Upload images/videos for resources	As Expected	Pass
2.13	Click "Submit" button	Data saved to database	As Expected	Pass
2.14	Click "Clear Form" button	Refresh and clear data on form	As Expected	Pass
2.15	Click "Generate Report" button	Form will be printed out	As Expected	Not Executed
2.16	Entered incorrect data type on input fields	Error message prompt to input proper data types	As Expected	Pass
2.17	Submit incomplete assessment form	Error message prompt to complete and fill up the required fields	As Expected	Pass
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed
3	<i>Regional Disaster Assessment Report Form</i>			
3.1	Access Regional Disaster Assessment Report Form	Access to Regional Disaster Assessment Report Form	As Expected	Pass
3.2	Generated name/ID of current user	System generated user name/ID	As Expected	Pass
3.3	Input data on Area of Coverage	Filled up Area of Coverage	As Expected	Pass
3.4	Input Date and Time Reported	Set Date and Time Reported	As Expected	Pass
3.5	Select Rate of Damage from "Normal to Emergency"	Filled up Rate of Damage	As Expected	Pass
3.6	Input Number of Provi/City/Muni Reported	Number of Reported Provi/City/Muni	As Expected	Pass
3.7	Input Number of Victims	Determine male and female victims	As Expected	Pass
3.7.1	Input No. of Male Victims	Number of Male Victims	As Expected	Pass
3.7.2	Input No. of Female Victims	Number of Female Victims	As Expected	Pass
3.8	Select Alert System	Selected Alert System	As Expected	Pass
3.9	Select type of Incident	Selected type of Incident	As Expected	Pass
3.10	Select type of Relief Services and Assistance required	Selected type of Relief Services and Assistance required	As Expected	Pass
3.11	Input data on Site Description	Filled up Site Description	As Expected	Pass
3.12	Upload files	Upload images/videos for resources	As Expected	Pass
3.13	Click "Submit" button	Data saved to database	As Expected	Pass
3.14	Click "Clear Form" button	Refresh and clear data on form	As Expected	Pass

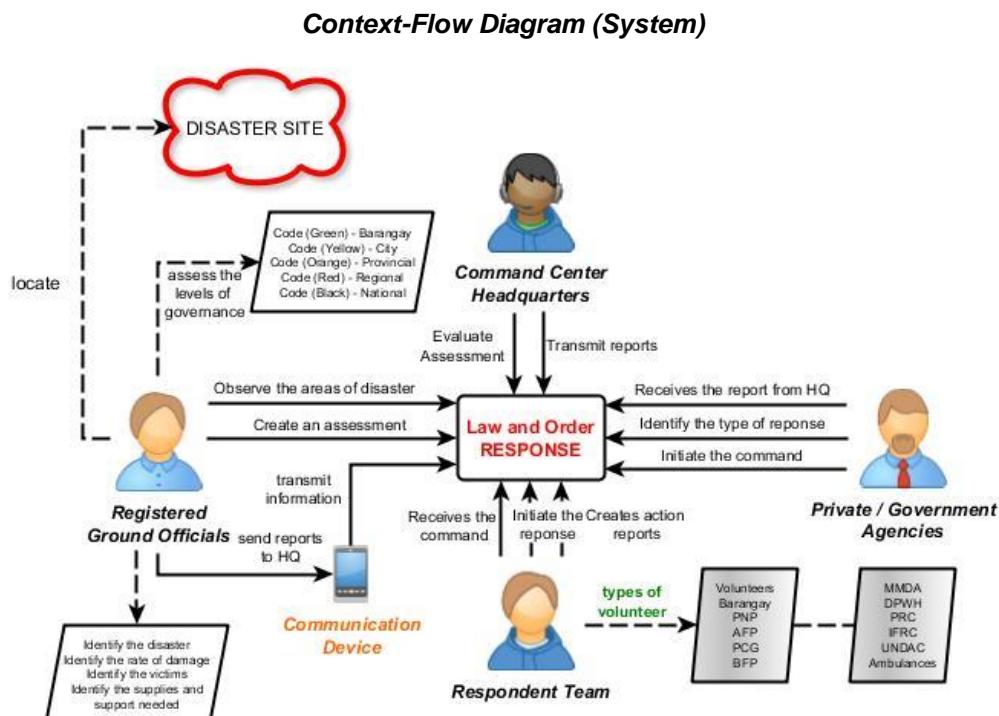
3.15	Click "Generate Report" button	Form will be printed out	As Expected	Not Executed
3.16	Entered incorrect data type on input fields	Error message prompt to input proper data types	As Expected	Pass
3.17	Submit incomplete assessment form	Error message prompt to complete and fill up the required fields	As Expected	Pass
Step No.	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed
4	<i>National Disaster Assessment Report Form</i>			
4.1	Access National Disaster Assessment Report Form	Access to National Disaster Assessment Report Form	As Expected	Pass
4.2	Generated name/ID of	System generated user name/ID	As Expected	Pass
4.3	Input data on Area of Coverage	Filled up Area of Coverage	As Expected	Pass
4.4	Input Date and Time	Set Date and Time Reported	As Expected	Pass
4.5	Select Alert Code	Selected Alert Code	As Expected	Pass
4.6	Select Rate of Damage from "Normal to Emergency"	Filled up Rate of Damage	As Expected	Pass
4.7	Input Number of Regions Reported	Number of Reported Regions	As Expected	Pass
4.8	Input Number of Victims	Determine male and female victims	As Expected	Pass
4.9	Select Alert System	Selected Alert System	As Expected	Pass
4.6	Select Rate of Damage from "Normal to Emergency"	Filled up Rate of Damage	As Expected	Pass
4.7	Input Number of Regions Reported	Number of Reported Regions	As Expected	Pass
4.8	Input Number of Victims	Determine male and female victims	As Expected	Pass
4.9	Select Alert System	Selected Alert System	As Expected	Pass
4.10	Select type of Incident	Selected type of Incident	As Expected	Pass
4.11	Select type of Relief Services and Assistance required	Selected type of Relief Services and Assistance required	As Expected	Pass
4.12	Input data on Site Description	Filled up Site Description	As Expected	Pass
4.13	Upload files	Upload images/videos for resources	As Expected	Pass
4.14	Click "Submit" button	Data saved to database	As Expected	Pass
4.15	Click "Clear Form" button	Refresh and clear data on form	As Expected	Pass
4.16	Click "Generate Report" button	Form will be printed out	As Expected	Not Executed
4.17	Entered incorrect data type on input fields	Error message prompt to input proper data types	As Expected	Pass
4.18	Submit incomplete assessment form	Error message prompt to complete and fill up the required fields	As Expected	Pass

V. Appendices

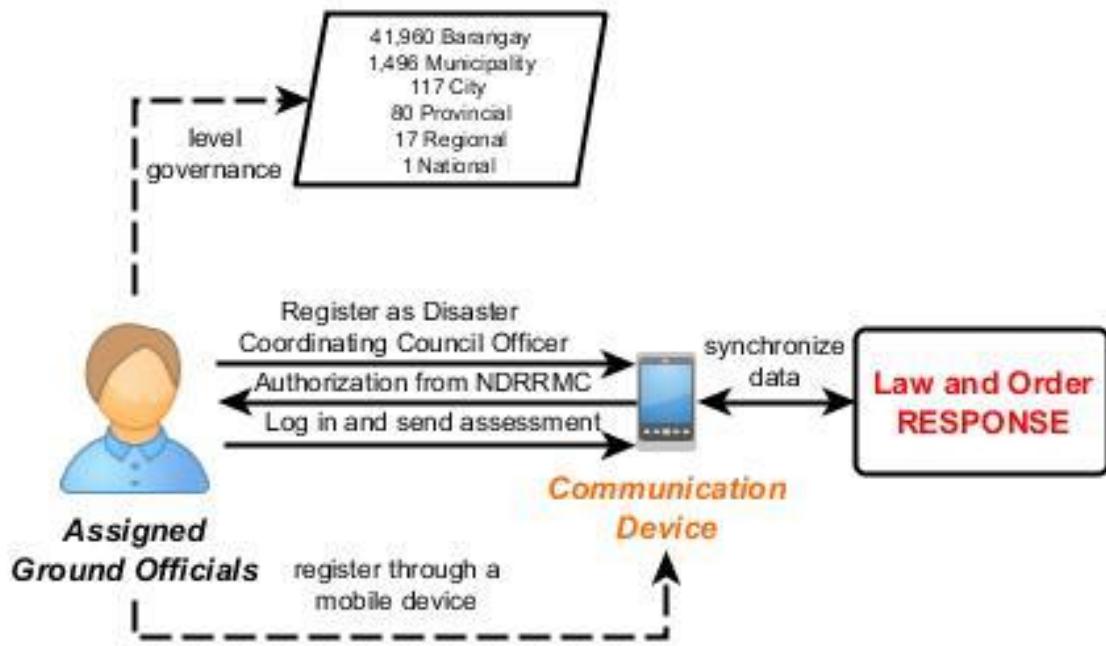
System Diagrams



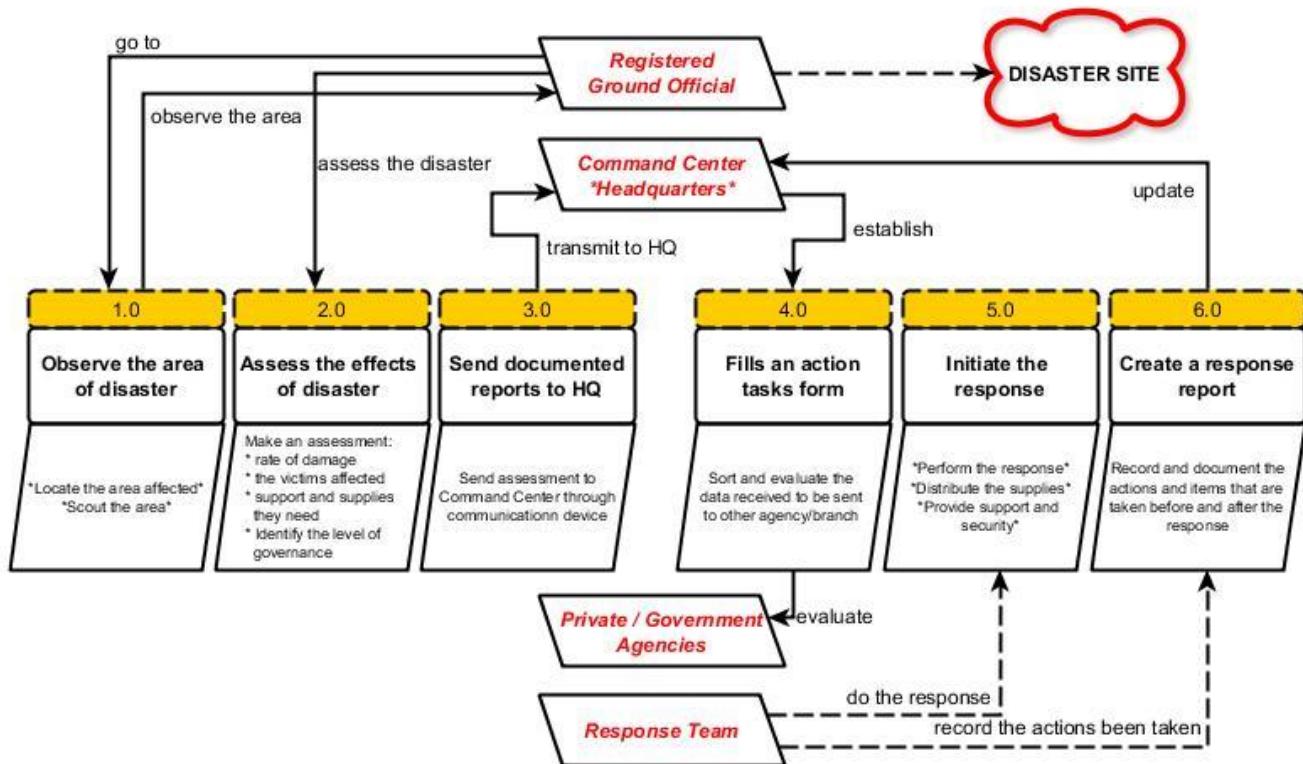
Developed by: Law and Order group



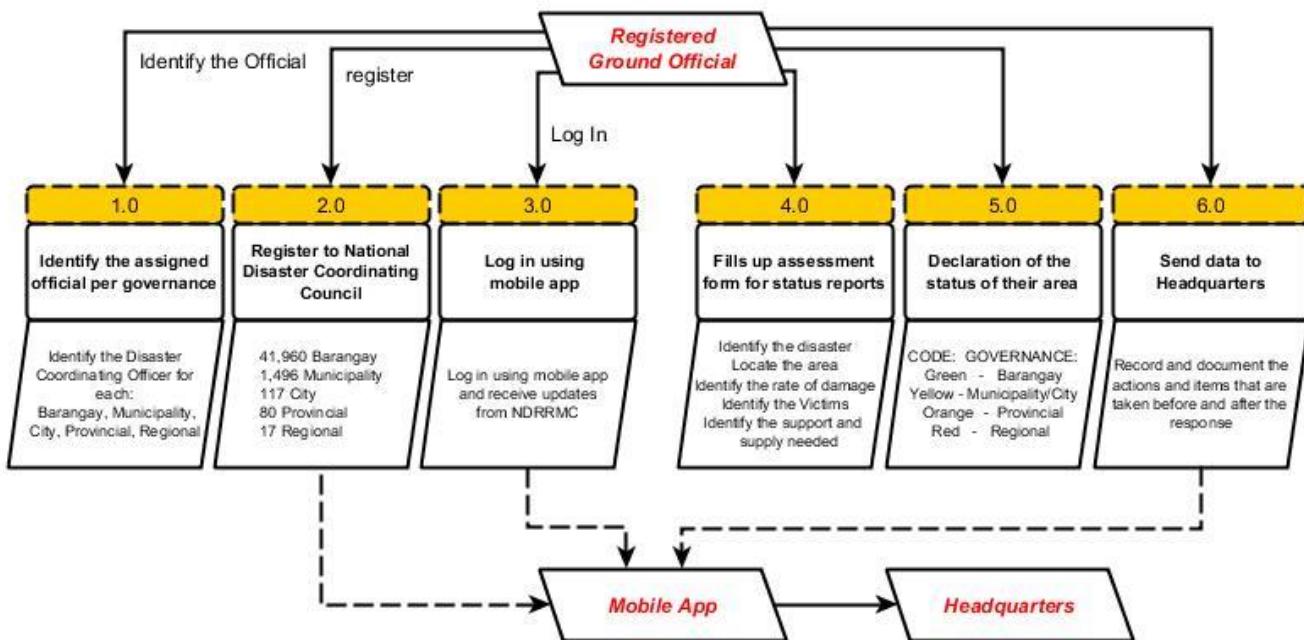
Context-Flow Diagram (User)



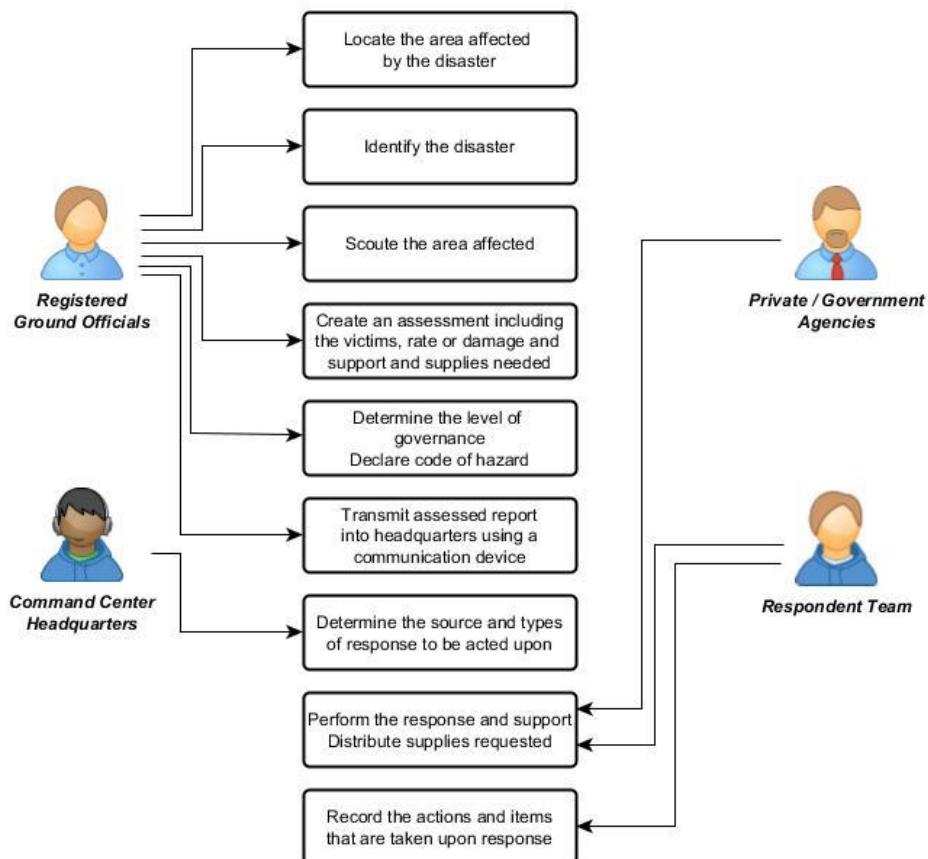
Data Flow Diagram (System)



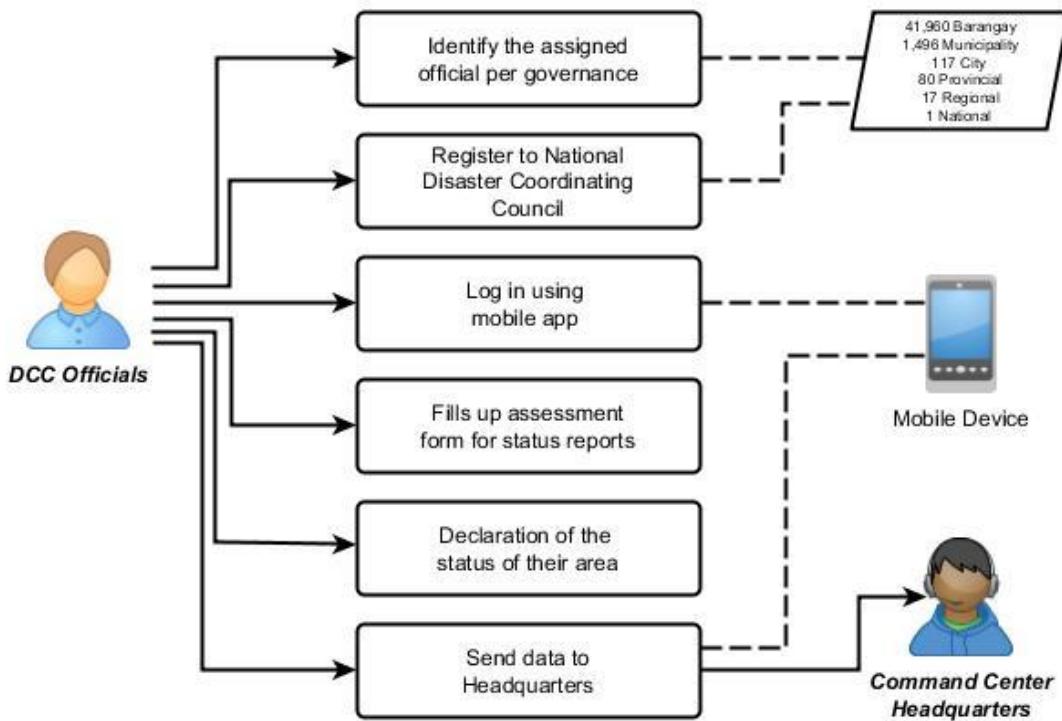
Data Flow Diagram (User)



User Case Diagram (System)



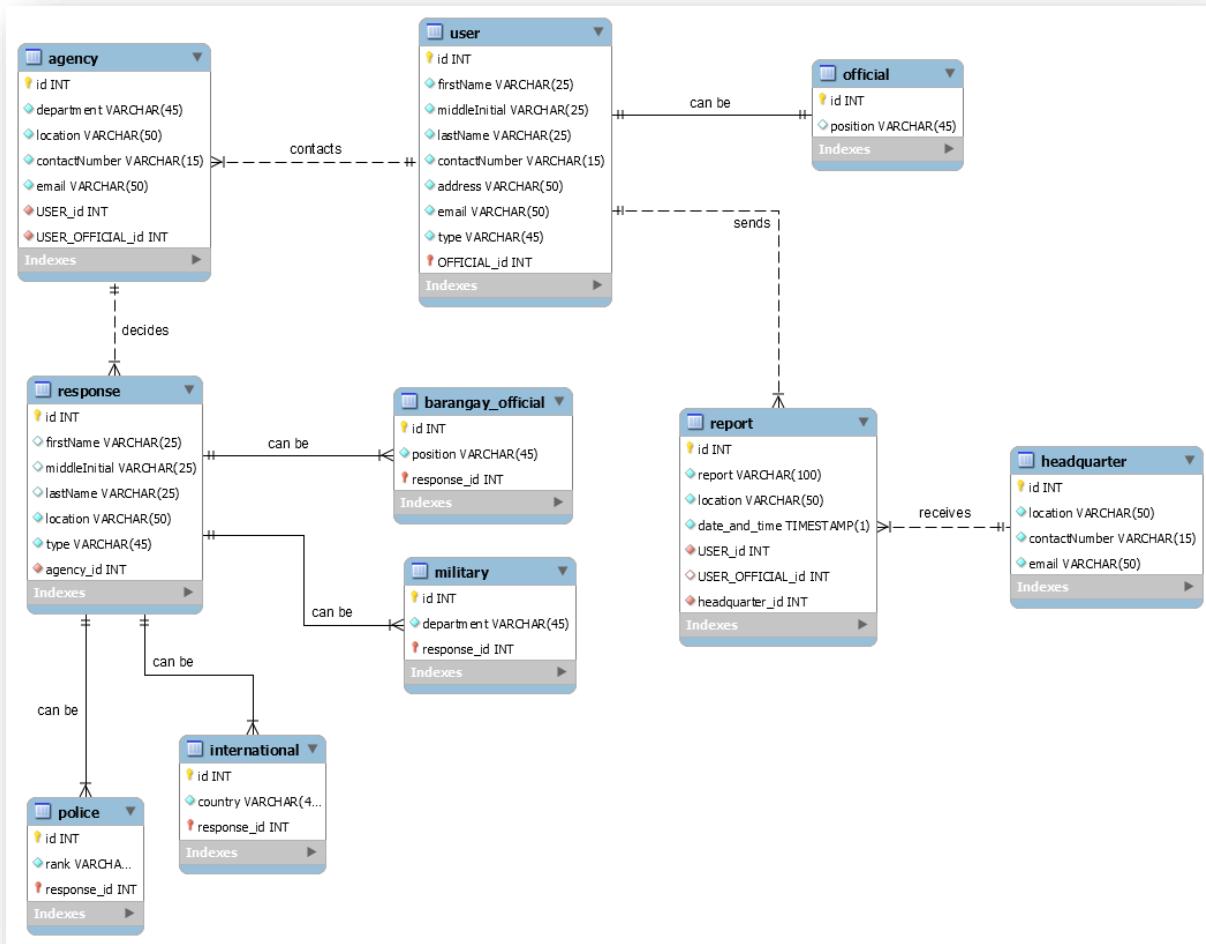
User Case Diagram (User)



Event Table

EVENT	TRIGGER	SOURCE	USE CASE	RESPONSE	DESTINATION
OBSERVE THE AREA OF DISASTER	Go to affected areas of disaster	Areas of Disaster	Observe the areas of disaster	Observe the areas of disaster	Ground Official
ASSESS THE LEVEL OF DISASTER	To go and observe the areas of disaster	Areas of Disaster	Identify the level of disaster	Identifying the level of disaster	Ground Official
SEND DOCUMENTED REPORTS	To document the reports within the areas of disaster	Ground Official	Transmits the documented reports	Send documented reports using a communication device	Command Center Headquarters
FILLS AN ACTION TASK FORM	To receive the documented reports	Command Center Headquarters	Fills an action tasks form	Review and sort the report of the areas of disaster	Government / Agency
INITIATE THE RESPONSE	Identify the type of response	Government / Agency	Deploy the assigned respondents	Initiate the action plan	Respondents
CREATE RESPONSE REPORT	Record the actions that was done	Respondents	Create a response report	Document the actions that are taken	Command Center Headquarters

Entity-Relationship Diagram



VI. Reference(s)

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Asia Pacific College
Member

2010

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June 2004 – April 2010	Grace Community Christian School 754 Vitales St., Malibay Pasay City

Organizations:

2017	Microsoft Community (MSC) Asia Pacific College <i>Documentation Team – Assistant Head</i>
2016	Junior Philippine Computer Society (JPCS) Asia Pacific College <i>Member</i>
2016	Microsoft Community (MSC) Asia Pacific College <i>Documentation Team – Trainee</i>
2015 - Present	Junior Information Systems Security Association (JISSA) Asia Pacific College <i>Operations Committee</i>

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Objective/s	To seek any challenges that I can use my knowledge and skills in my specialization.
Education	<p>Asia Pacific College, Magallanes, Makati City</p> <p>B.S. Information Technology, with specialization in Mobile and Internet Technology</p> <p>June 2013-present</p>
Work-Related Courses	<ul style="list-style-type: none"> • Applied Project • Data Communications & Data network <ul style="list-style-type: none"> • Database Management • IBM Descriptive Analytics • IBM Predictive Analytics • Information System Security • Introduction to System and Design for IT-MI • Management Information Systems and IT Trends • Mobile Application and Mobile Programming <ul style="list-style-type: none"> • Programming Embedded Systems
Academic Projects	<p>Diego Silang: Tearing the Chains of Slavery, June 2015</p> <p>Mobile Game Application</p> <p>This group project involves making a mobile game application that is based on one of the national heroes of the Philippines. The proponent was tasked with animation and GUI design.</p>

	<p>Aruga at Kalinga Foundation – Crowd Funding website , June 2016 – present</p> <p>The main objective of this project is to create a website that will advertise every project of the foundation for the less fortunate, look for possible donors and monitor the progress of each project, The main features of the website are the transparency transaction and the easiest way to donate funds. The proponent's task is to design a website that will meet the foundation's objectives.</p> <p>NDRRMC Law and Order Response Team , January 2017 – Present</p> <p>The main objective of this group project is to create an application that will help the people when it comes to a disaster situation and to provide peace and order to the place where calamities happened. The proponent's task involved research about the law when there is a calamity, database and software that can be used when there is no internet and no network.</p>
Technical Skills	<ul style="list-style-type: none"> • MS Office: Word, Excel, PowerPoint <ul style="list-style-type: none"> • Web Design • Web Programming • Develop Android Application
Seminars & Trainings Attended	<ul style="list-style-type: none"> • Office 365 Tips and Tricks Asia Pacific College, July 2016 • Devcon Asia Pacific College, September 2013
Extra-Curricular Activities	<ul style="list-style-type: none"> • Task Force Youth and Development (SK), Youth President, 2013 – Present; • Task Force Youth and Development Organization, Youth Leader, 2014 – Present

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Job Objective	To obtain an internship in an IT industry where I can utilize my analytical, web designing and programming skills to achieve the goals of the company
Education	Asia Pacific College , Magallanes, Makati City B.S Information Technology, major in Mobile and Internet June 2013-present
Work-Related Courses	<ul style="list-style-type: none"> • Applied Projects • Database Management • Descriptive Analytics • Fundamental of Business Analytics • Fundamentals of Enterprise Data Management • Graphical User Interface Programming • Introduction to System Development • Management Information Systems & IT Trends • Mobile Application and Mobile Programming • Predictive Analytics • Systems Analysis and Detailed Design
Academic Projects	<p>“Crowd Funding for Aruga at Kalinga Foundation” June 2016 – Present Web Application This project is like a fund raising done through the Internet and its purpose is for donors to have an easy way of donating and monitoring the progress of each project of the foundation. For this project the proponent was assigned as the documentation controller, web designer and database encoder</p> <p>“Pack My Kit-ty”, June 2016 – September 2016 Mobile Game Application This project involves making a mobile game application for disaster preparedness. The proponent in this group project is involved in animations and GUI design</p>

	<p>“ NDRRMC Law and Order Response Team”, January 2017 – Present</p> <p>This group project is about how peace and order will be implemented in a community during and after a disaster. It will also be useful for the authorities when handling the situation. The proponent’s task is to research about the law and the population’s statistics.</p>
Technical Skills	<ul style="list-style-type: none"> • MS Office: Word, Excel, PowerPoint • Web Designing (HTML, CSS) • Web Programming (PHP, Java) • Develop Android Application
Seminars & Trainings Attended	<ul style="list-style-type: none"> • Office 365 Seminar, Asia Pacific College, July 2015 • Android Seminar, Asia Pacific College, September 2014 • Devcon, Asia Pacific College, September 2013
Extra-Curricular Activities	<ul style="list-style-type: none"> • JPCS, Member, SY 2013-2014