**Chapter 4**

**Software Design Document**

**Chapter One | Introduction**

**Objective**

The purpose of the software design document (SDD) for Emergency Information on Mobile project is to design the detailed structure of the system accordance with the software requirement specification (SRS). This SDD also making the members in the project team understand the work in the detailed design of the system using class diagram, sequence diagram, entity relationship diagram and user interface design.

**Project Scope**

Emergency Information on Mobile is composed of 2 parts which are server and mobile part. The server part uses to manage the information of help place. The mobile application part runs on Android OS. Emergency Information on Mobile will provide the necessary information of help places to the user.

**Purpose**

This software design document consists of progress report I. So the stakeholder of Emergency Information on Mobile can review software design in this progress.

**Acronyms and Definitions**

**Acronyms**

EIOM Emergency Information on Mobile

SDD software design document

UI User Interface

**Definitions**

\*\*\*\* Copy มา

Feature Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of a product in the language of the product.

**Chapter Two | System architecture**

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**Figure 1 Architecture overview of Emergency Information on Mobile system**

Figure 1 shows overall of architecture such as map and help information system, search information system and manage information system.

**Mobile Part**

**Feature1: Map and help information system**

* View map and help locations\**/ \*\**
* View information of help locations\*/*\*\**
* Make emergency call\*/*\*\**

In this feature, the help location will show on the map with their information such as address and phone number. Moreover, the phone number can be called directly on the application.

**Feature2: Search information system**

* Search the contact information by keyword*\*\**
* Search phone number by location*\*\**
* Find nearest help location\*/*\*\**

Feature 2 provides search contact information by keyword or name of help location. Furthermore, the application can show the nearest help location in many categories such as a police station, hospital, and garage.

**Feature3: Rating location**

* Rate the help locations*\*\**
* View rating help locations\*/*\*\**

In this feature, the user can use the rate function to rate each help location. One user will be count at one for rating each place. The user also updates their rating score anytime they want. The rating location collects the rate and provides the average rate to the user. Furthermore, the rate function will help the user to compose their decision to go among many help locations.

**Feature4: Automatic collecting data system**

* Download data of help location automatically*\*\**
* Set the scope of download data*\*\**

Feature 4 will download data of help location around the user automatically and save into a mobile device. So, the information can be show without internet connection. In addition, the user can set the scope of download data.

**Server part**

**Feature5: Manage information system**

* Add help locations*\*\**
* Edit help locations*\*\**
* Remove help locations*\*\**

Feature 5 furnishes manage information system to admin. The admin can add, edit, or remove the help location.

*\* The offline feature*

*\*\* The online feature*

**Chapter Three | Detailed Design**

**3.1 Class Diagram**

3.1.1

*Class di + method description*

**3.2 Use case:**

Related Class Diagram: Related Classes:

Sequence Diagram:

**Chapter Four | User Interface Design**

**UI name:** Home Page(UI-01)

Include Requirement: UC-0X show list, search list, remove



**Figure XX: Home Page (UI-01)**

The home page includes 3 components. The top of page is a logo of web page and “Search” button for searching by selected category and province. The center of page is a list of help places with “Edit” and “Remove” button. The help place will be link with its information page. The last one, the bottom of page is “Add New Help Place” button for adding new help place.

**UI name:** Remove Confirm Dialog(UI-02)

Include Requirement: UC-0X remove

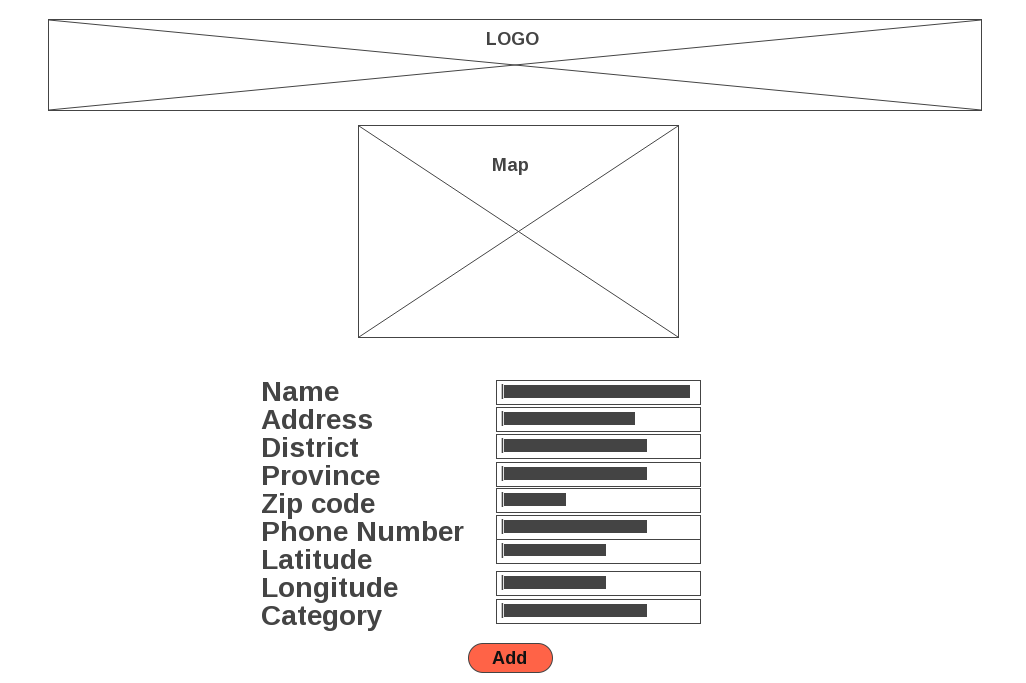


**Figure XX: Remove Confirm Dialog (UI-02)**

The messages dialog shows the confirmation message when administrator try to remove a help place.

**UI name:** Edit Information Page(UI-03)

Include Requirement: UC-0X edit

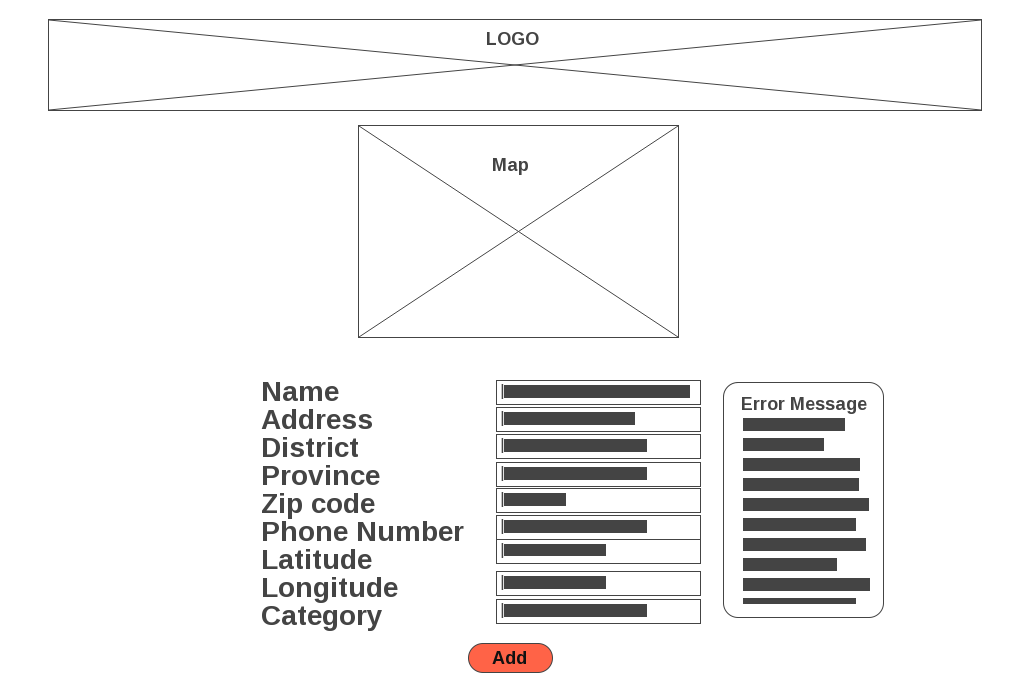


**Figure XX: Edit Information Page (UI-03)**

The edit information page includes 3 components. The top of page is a logo of web page. The center of page is map which is used for getting latitude and longitude. The last component, the bottom of page is text box for receiving new information from administer with the “Add” button.

**UI name:** Edit Information Error Message(UI-04)

Include Requirement: UC-0X edit

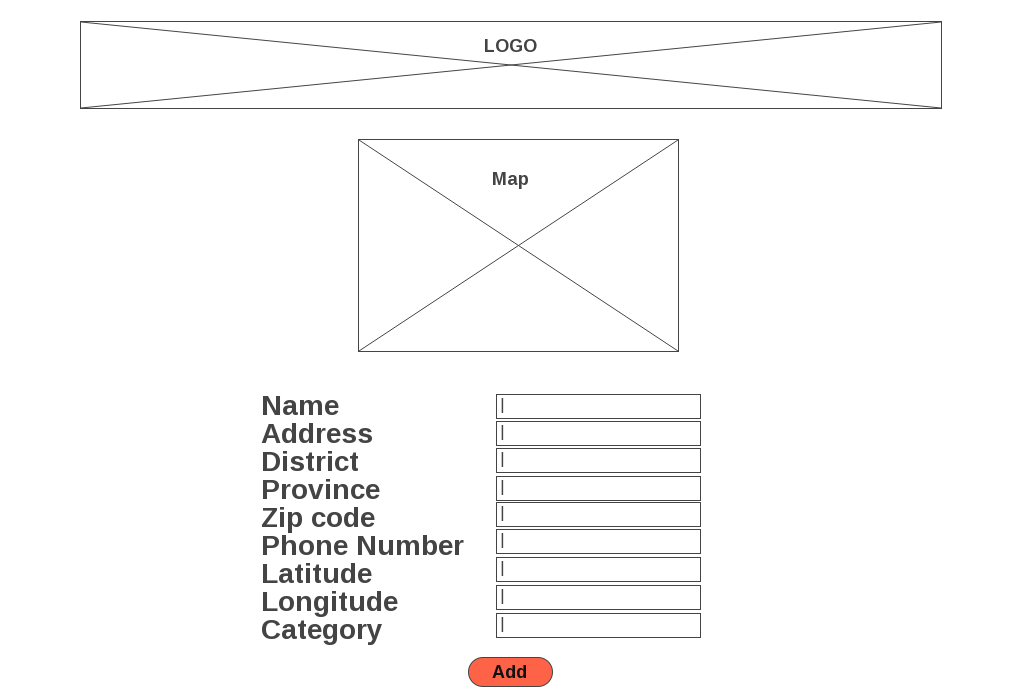


**Figure XX: Edit Information Error Message (UI-04)**

The edit information error message shows the error message of the input information which is not passing the condition.

**UI name:** Add Information Page(UI-05)

Include Requirement: UC-0X add

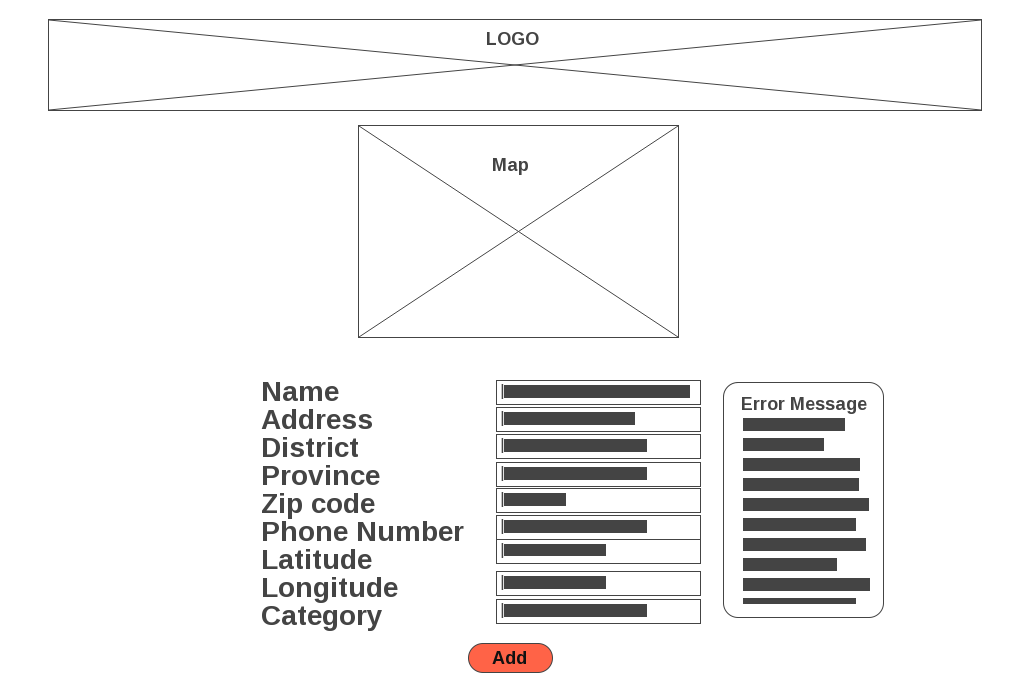


**Figure XX: Add Information Page (UI-05)**

The add information page includes 3 components. The top of page is a logo of web page. The center of page is map which is used for getting latitude and longitude. The last component, the bottom of page is text box for receiving information from administer with the “Add” button.

**UI name:** Add Information Error Message(UI-06)

Include Requirement: UC-0X add



**Figure XX: Add Information Error Message (UI-06)**

The add information error message shows the error message of the input information which is not passing the condition.

**UI name:** View Information Page(UI-07)

Include Requirement: UC-0X view



**Figure XX: View Information Page (UI-07)**

The view information page includes 2 components. The top of page is a logo of web page. The center of page shows information of a help place.