|  |
| --- |
|  |
| Capstone Project Document |

**First Aid**

Report #2 – Class Design

|  |  |  |
| --- | --- | --- |
| **First Aid** | | |
| **Group Members** | Đàm Huy Hùng | SE03431 |
| Nguyễn Duy Anh | 01525 |
| Mai Trung Kiên | SE02994 |
| Nguyễn Tiến Dũng | SE03272 |
| Nguyễn Phúc An | SE03118 |
| **Supervisor** | Mr. Nguyễn Văn Sang | |
| **Project code** | FAVN | |

**- Hanoi, 09/2016 -**

# SIGNATURE PAGE

AUTHOR: Đàm Huy Hùng 10/10/2016

Project Manager

REVIEWERS: Mai Trung Kiên 30/09/2016

Team member

APPROVAL: Nguyễn Văn Sang --/--/--16

Supervisor

Record of change

\*A - Added M - Modified D – Deleted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Effective Date | Changed Item | A,M,D | Change Description | Reason for Change | Rev. Number |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

TABLE CONTENTS

[SIGNATURE PAGE 1](#_Toc436766149)

[Introduction 3](#_Toc436766150)

[1.1 Purpose 3](#_Toc436766151)

[1.2 Definitions, Acronyms and Abbreviations 3](#_Toc436766152)

[2 Package 3](#_Toc436766153)

[2.1 Package Diagram 3](#_Toc436766154)

[2.2 Package Description 4](#_Toc436766155)

[2.2.1 Model 4](#_Toc436766156)

[2.2.2 DTOs 10](#_Toc436766157)

[2.2.3 View 10](#_Toc436766158)

[2.2.4 Repository 11](#_Toc436766159)

[2.2.5 Controller 14](#_Toc436766160)

[3 Function 25](#_Toc436766161)

[3.1 Common 25](#_Toc436766162)

[3.1.1 Class diagram 25](#_Toc436766163)

[3.1.2 Sequence diagram 25](#_Toc436766164)

[3.2 Project management 28](#_Toc436766165)

[3.2.1 Class diagram 28](#_Toc436766166)

[3.2.2 Sequence diagram 29](#_Toc436766167)

[3.3 Comment 39](#_Toc436766168)

[3.3.1 Class diagram 39](#_Toc436766169)

[3.3.2 Sequence diagram 39](#_Toc436766170)

[3.4 Message 41](#_Toc436766171)

[3.4.1 Class diagram 41](#_Toc436766172)

[3.4.2 Sequence diagram 42](#_Toc436766173)

[3.5 User Management 43](#_Toc436766174)

[3.5.1 Class diagram 43](#_Toc436766175)

[3.5.2 Sequence diagram 44](#_Toc436766176)

[3.6 Report Management 45](#_Toc436766177)

[3.6.1 Class diagram 45](#_Toc436766178)

[3.6.2 Sequence diagram 46](#_Toc436766179)

[3.7 Manage Slide 48](#_Toc436766180)

[3.7.1 Class diagram 48](#_Toc436766181)

[3.7.2 Sequence diagram 48](#_Toc436766182)

[3.8 Manage Category 51](#_Toc436766183)

[3.8.1 Class diagram 51](#_Toc436766184)

[3.8.2 Sequence diagram 52](#_Toc436766185)

# 1 Introduction

## Purpose

Dandelion class design document contains descriptions of all classes of the Dandelion. It includes: Class diagrams that describe the static relation of all classes in the system.

## Definitions, Acronyms and Abbreviations

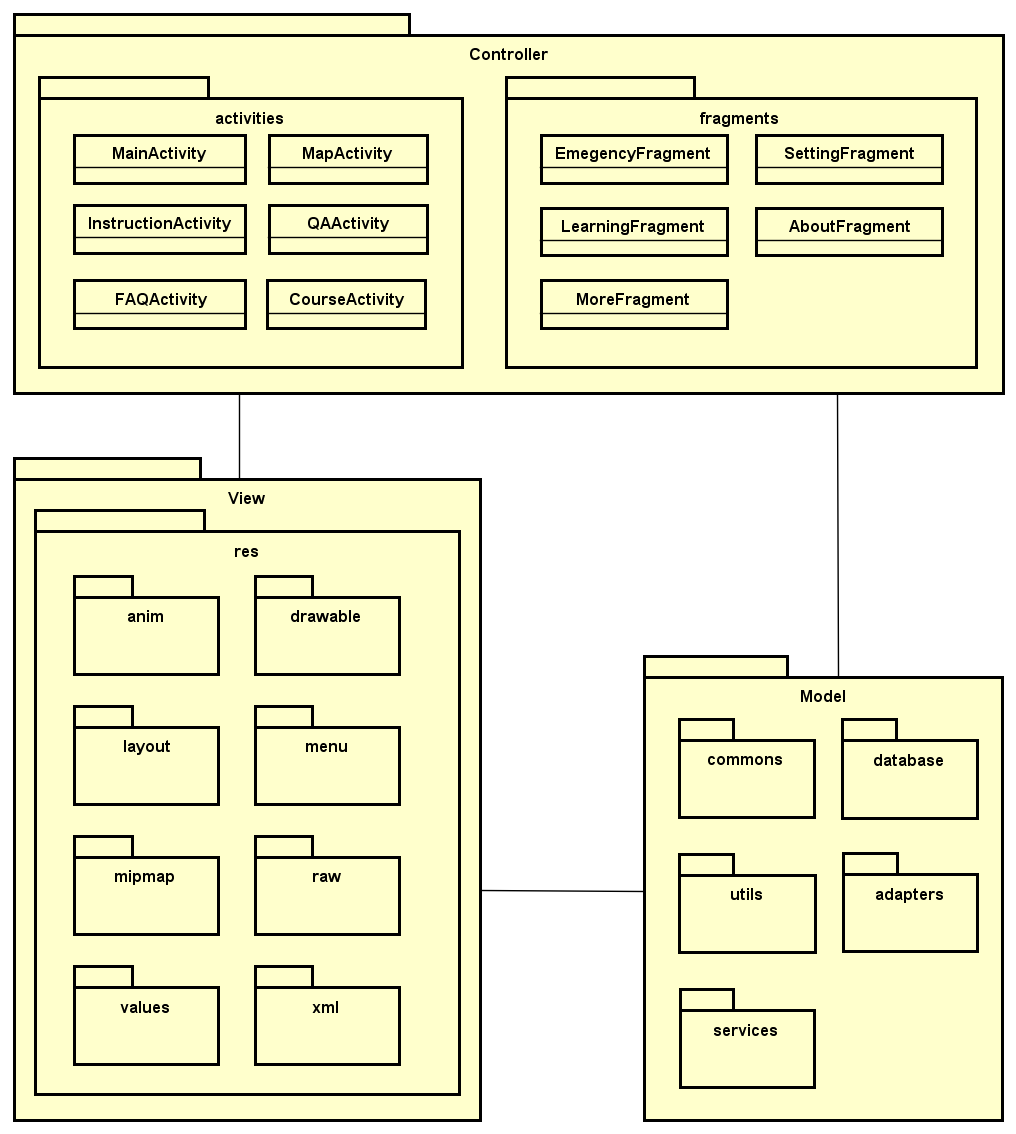
|  |  |  |
| --- | --- | --- |
| Abbreviations | Description | Comment |
| FAVN | First Aid Vietnam |  |
| FAA | First Aid Application |  |
| FAQ | Frequently Asked Question |  |

Table 1-1: Definitions, Acronyms and Abbreviations

# Package

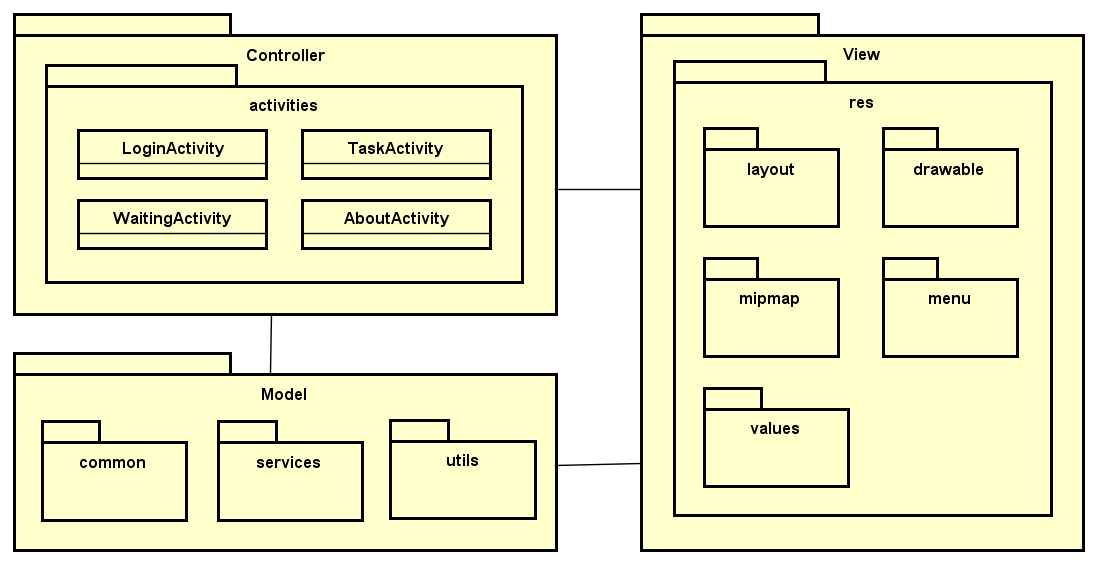
## Package Diagram

### First Aid Application



1. FAA Package Diagram

### Ambulance Application



1. Ambulance Application Package Diagram

### Dispatcher Application

### Admin/Expert Application

## Package Description

### First Aid Application

#### Controller

##### Activities

###### MainActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### MapActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### InstructionActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### QAActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### FAQActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### CourseActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

##### Fragment

###### EmegencyFragment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### SettingFragment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### LearningFragment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### AboutFragment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

###### MoreFragment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. DDL\_User model

#### Model

##### commons

###### Caller

###### CallerInforSender

###### Distance

###### Faq

###### HealthFaility

###### InformationSenderListener

###### Injury

###### Instruction

###### Question

###### QuestionSender

##### database

###### DatabaseOpenHelper

##### utils

###### Connector

###### Constants

###### NetworkStatus

###### SettingPref

###### Sort

###### SOSCalling

###### StringConverter

##### adapters

###### FaqAdapter

###### HealthFacilityAdapter

###### HealthFacilityFilter

###### InjuryAdapter

###### InstructionAdapter

###### ItemsListAdapter

##### services

###### direction

Direction

DirectionFinder

###### distanceMatrix

DistanceMatrix

DistanceMatrixFinder

###### location

LocationFinder

###### FetchAddressIntentService

#### View

### Ambulance Application

#### Controller

##### activities

###### AboutActivity

###### LoginActivity

###### TaskActivity

###### WaitingActivity

#### Model

##### commons

###### Ambulance

###### AmbulanceInfoSender

###### User

###### UserSender

##### services

###### ditection

Direction

DirectionFinder

###### location

LocationFinder

##### utils

###### SharedPreferencesData

#### View

### Dispatcher Application

### Admin/Expert Application

# Function

## First Aid Application

### Emergencies

#### Class diagram

#### Sequence diagram

##### View list of injuries

##### View instruction steps of injury

##### Search injuries

##### Call 115

##### Speak instruction steps

##### View current location

##### View nearest list of health facilities

##### Show direction to health facility

##### Call to health facility

### Learning

#### Class diagram

#### Sequence diagram

##### View list of learning injuries

##### View learning instruction steps

##### View FAQs

### More

#### Class diagram

#### Sequence diagram

##### Send questions

##### View courses

##### Share application

### Setting

#### Class diagram

#### Sequence diagram

##### Allow to show advice tips

##### Allow to send information

### Info

#### Class diagram

#### Sequence diagram

##### View application information

## Ambulance Application

### Common

#### Login

#### Logout

### Emergency

#### View ambulance team information

#### Accept/Decline task

#### Show the location of caller

#### Show direction to caller

#### Report picked up caller

#### Report completed task

#### Report problem

#### Change status

## Dispatcher Application

### Common

#### Login

#### Logout

### Dispatch

#### Create emergency case

#### Dispatch an ambulance

#### View ambulance information

#### View caller information

#### Show direction from ambulance to caller

#### View list of callers

#### Notify ambulances status

#### Cancel emergency case

## Admin/Expert Application

### Admin

#### Common

##### Login

##### Logout

#### Manage user’s account

##### Create account

##### View list user

##### Search user’s account

##### Update user’s account

##### Delete user’s account

#### Manage Q&A

##### View user’s question

##### View answer

##### Answer question

### Expert

#### Common

##### Login

##### Logout

#### Manage Q&A

##### View user’s question

##### View answer

##### Answer the question

#### Manage injury

##### Add new injury

##### Search injury

##### Update injury

##### Dalete injury