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| Capstone Project Document |

**First Aid**

Report #2 – Class Design

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**- Hanoi, 09/2016 -**

# SIGNATURE PAGE

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\*A - Added M - Modified D – Deleted

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TABLE CONTENTS

[SIGNATURE PAGE 2](#_Toc470522092)

[1 Introduction 3](#_Toc470522093)

[1.1 Purpose 3](#_Toc470522094)

[1.2 Definitions, Acronyms and Abbreviations 4](#_Toc470522095)

[2 Package 5](#_Toc470522096)

[2.1 Package Diagram 5](#_Toc470522097)

[2.1.1. First Aid Application 5](#_Toc470522098)

[2.1.2. Ambulance Application 6](#_Toc470522099)

[2.1.3. Dispatcher Application 7](#_Toc470522100)

[2.1.4. Admin/Expert Application 8](#_Toc470522101)

[3 Function 9](#_Toc470522102)

[3.1 First Aid Application 9](#_Toc470522103)

[3.1.1 Emergency 9](#_Toc470522104)

[3.1.2 Learning 16](#_Toc470522105)

[3.1.3 More 18](#_Toc470522106)

[3.1.4 Setting 20](#_Toc470522107)

[3.1.5 Information 21](#_Toc470522108)

[3.2 Ambulance Application 21](#_Toc470522109)

[3.2.1 Common 21](#_Toc470522110)

[3.2.2 Task 23](#_Toc470522111)

[3.2.3 Information 27](#_Toc470522112)

[3.3 Dispatcher Application 28](#_Toc470522113)

[3.3.1 Common 28](#_Toc470522114)

[3.3.2 Create emergency case 28](#_Toc470522115)

[3.3.3 Dispatch ambulance 29](#_Toc470522116)

[3.3.4 View ambulance information 31](#_Toc470522117)

[3.4 Admin/Expert Application 32](#_Toc470522118)

[3.4.1 Common 32](#_Toc470522119)

[3.4.2 Manage user’s account 34](#_Toc470522120)

[3.4.3 Manage Q&A 34](#_Toc470522121)

[3.4.4 Manage injury 37](#_Toc470522122)

# 1 Introduction

## Purpose

First Aid system class design document contains descriptions of all classes of the First Aid system. 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: Definitions, Acronyms and Abbreviations

# Package

## Package Diagram

### First Aid Application

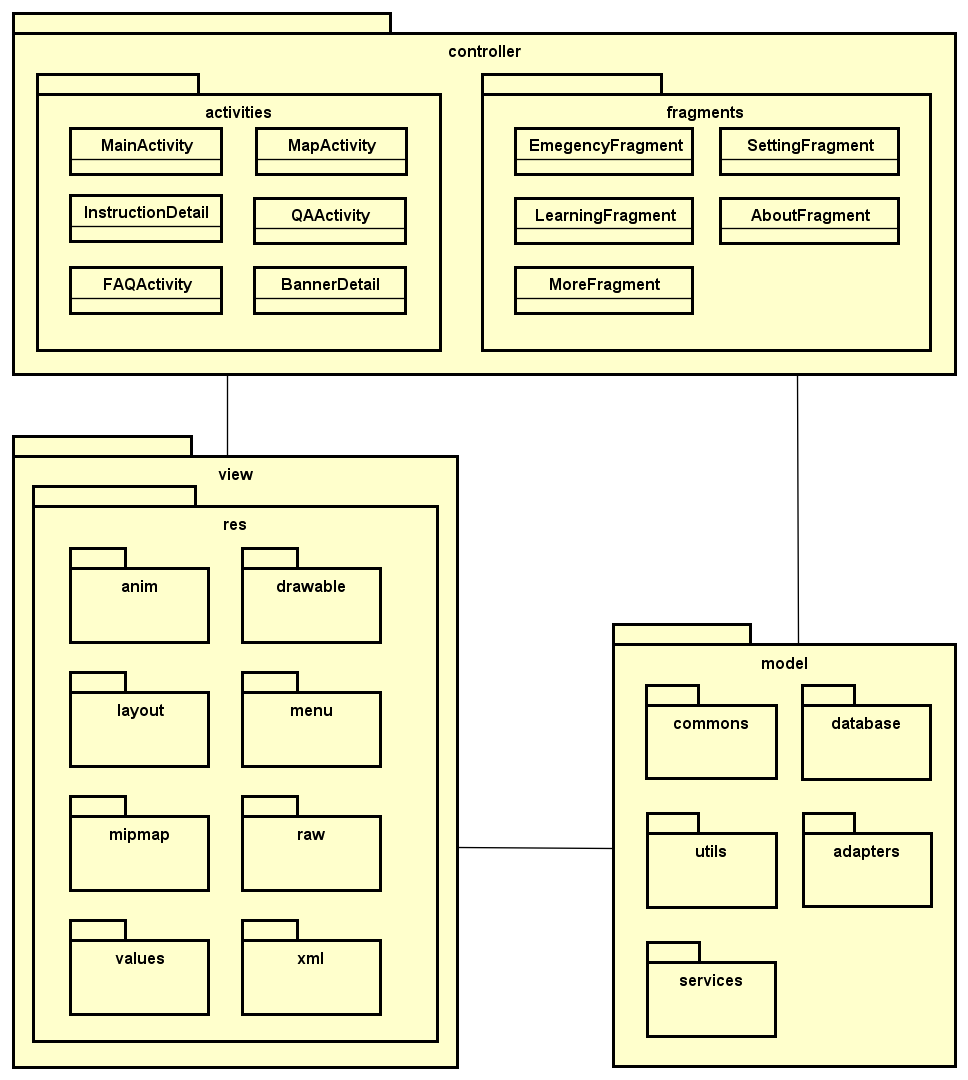


Figure ‑: First Aid Application Package Diagram

### Ambulance Application

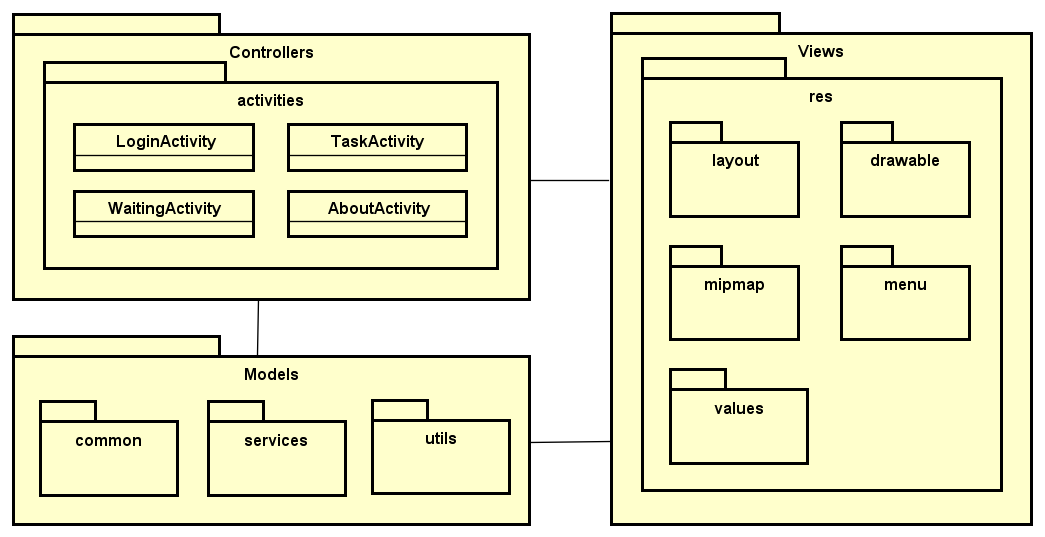


Figure ‑: Ambulance Application Package Diagram

### Dispatcher Application

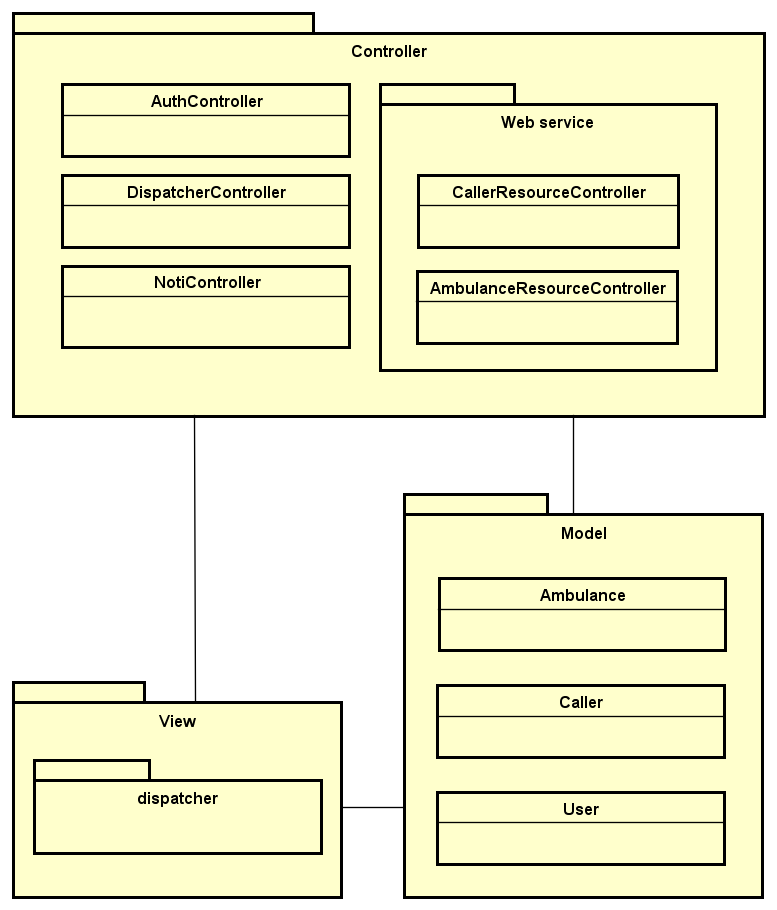


Figure ‑: Dispatcher Application Package Diagram

### Admin/Expert Application

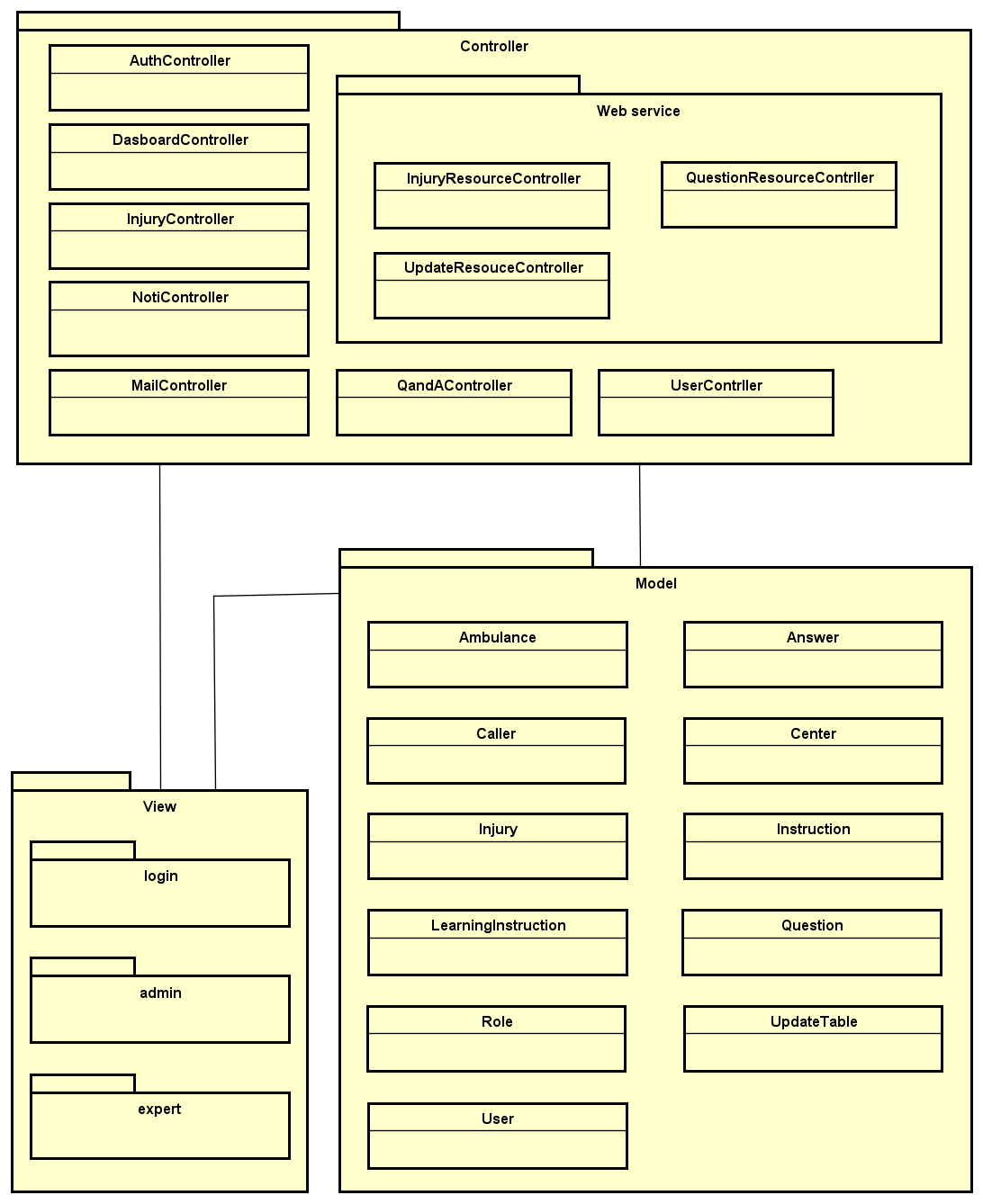


Figure ‑: Admin/Expert Application Package Diagram

# Function

## First Aid Application

### Emergency

#### Class Diagram

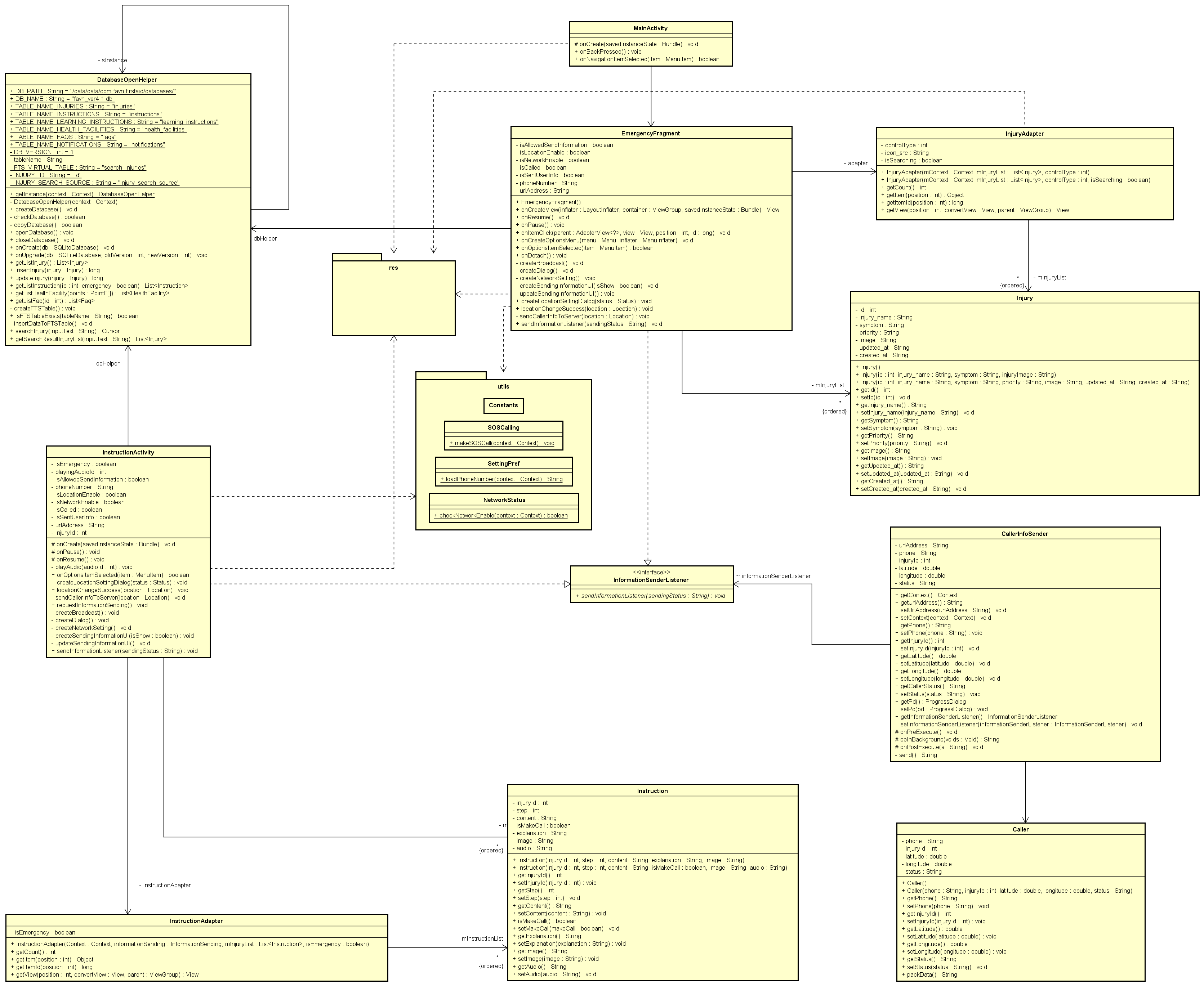


Figure ‑: Emergency class diagram for UC 1-5

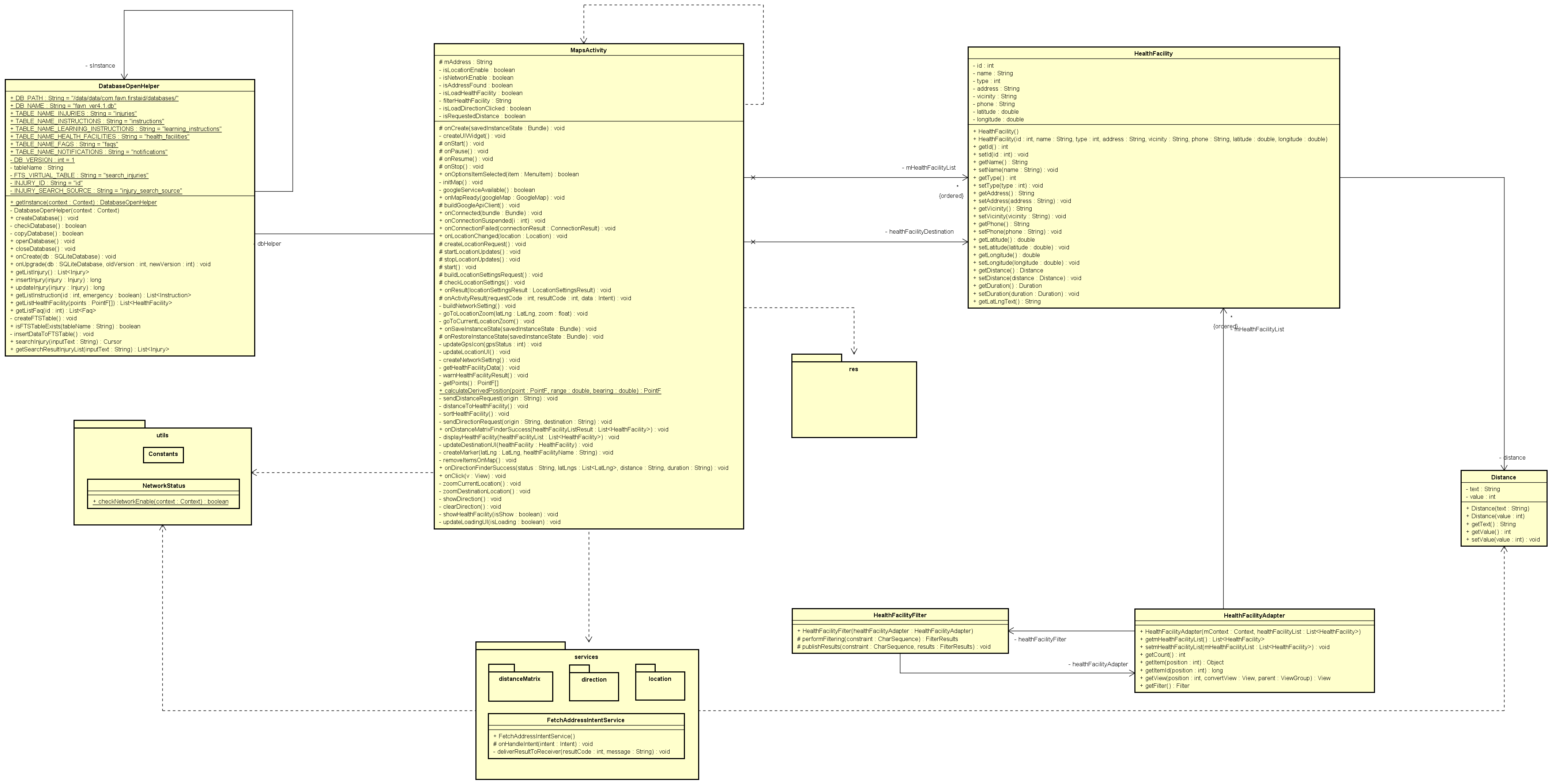


Figure ‑: Emergency class diagram for UC 6-9

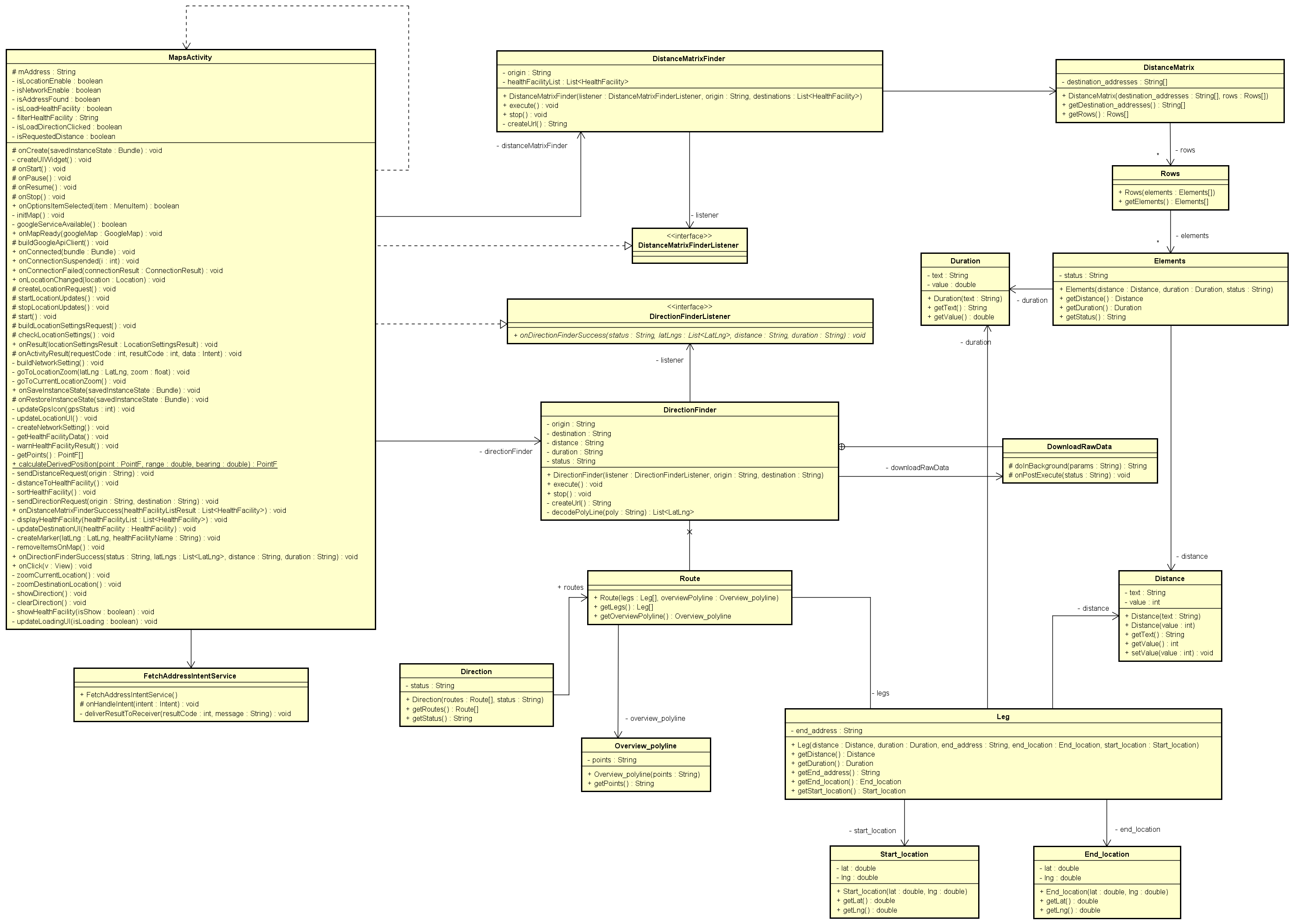


Figure ‑: Class diagram for getting distance matrix and direction

#### Sequence Diagram

##### View list of injuries

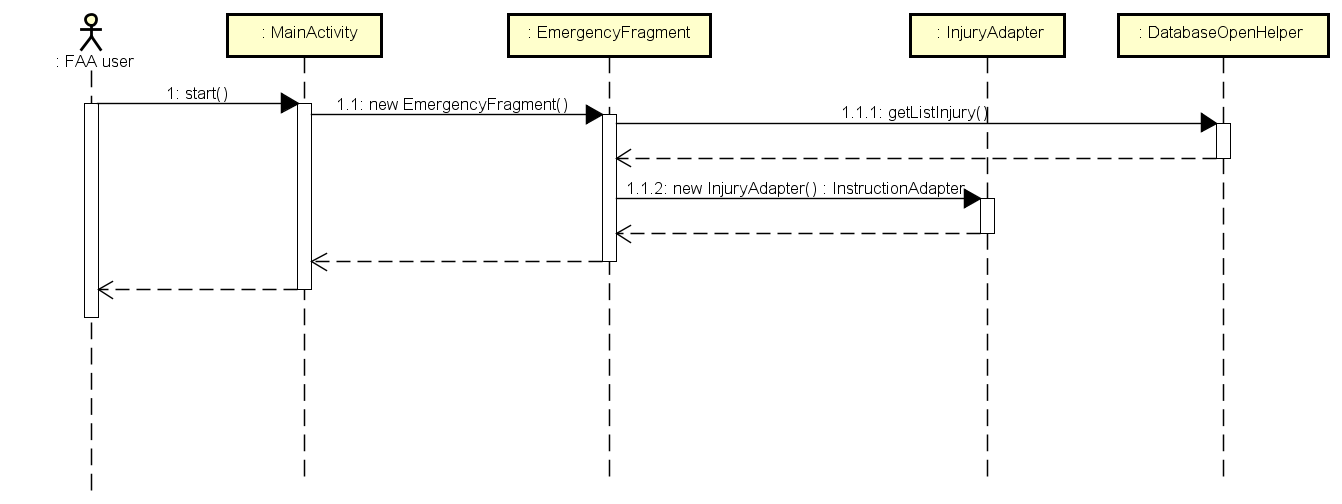


Figure ‑: View list of injuries sequence diagram

##### View instruction steps of injury

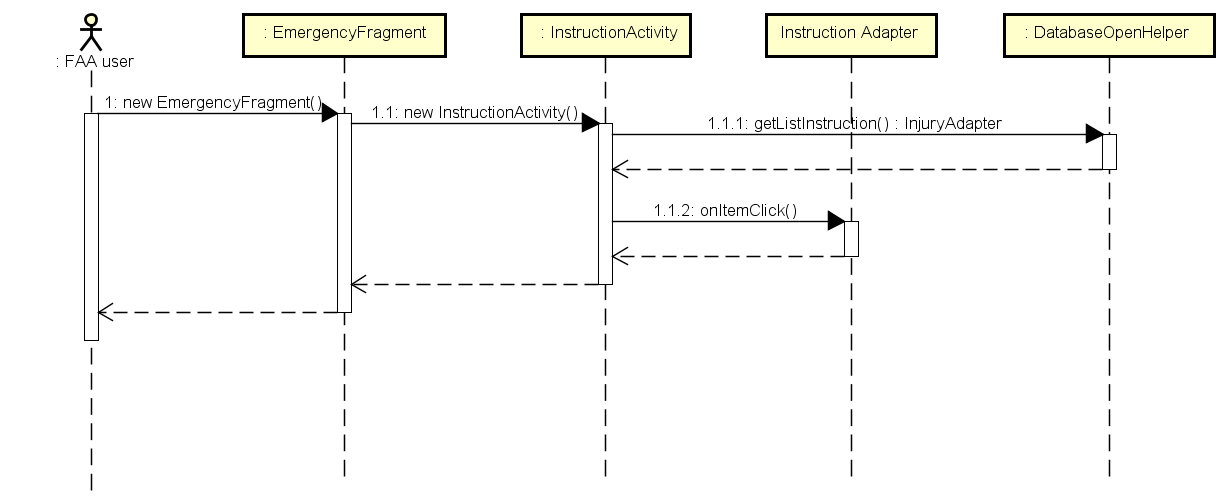


Figure ‑: View instruction steps of injury sequence diagram

##### Search injuries

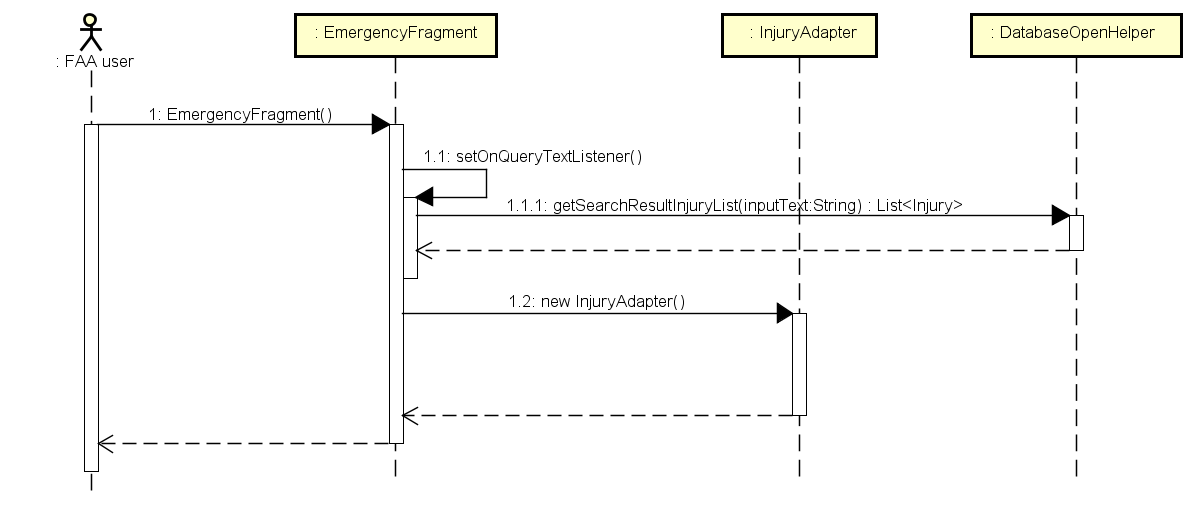


Figure ‑: Search injuries sequence diagram

##### Call 115

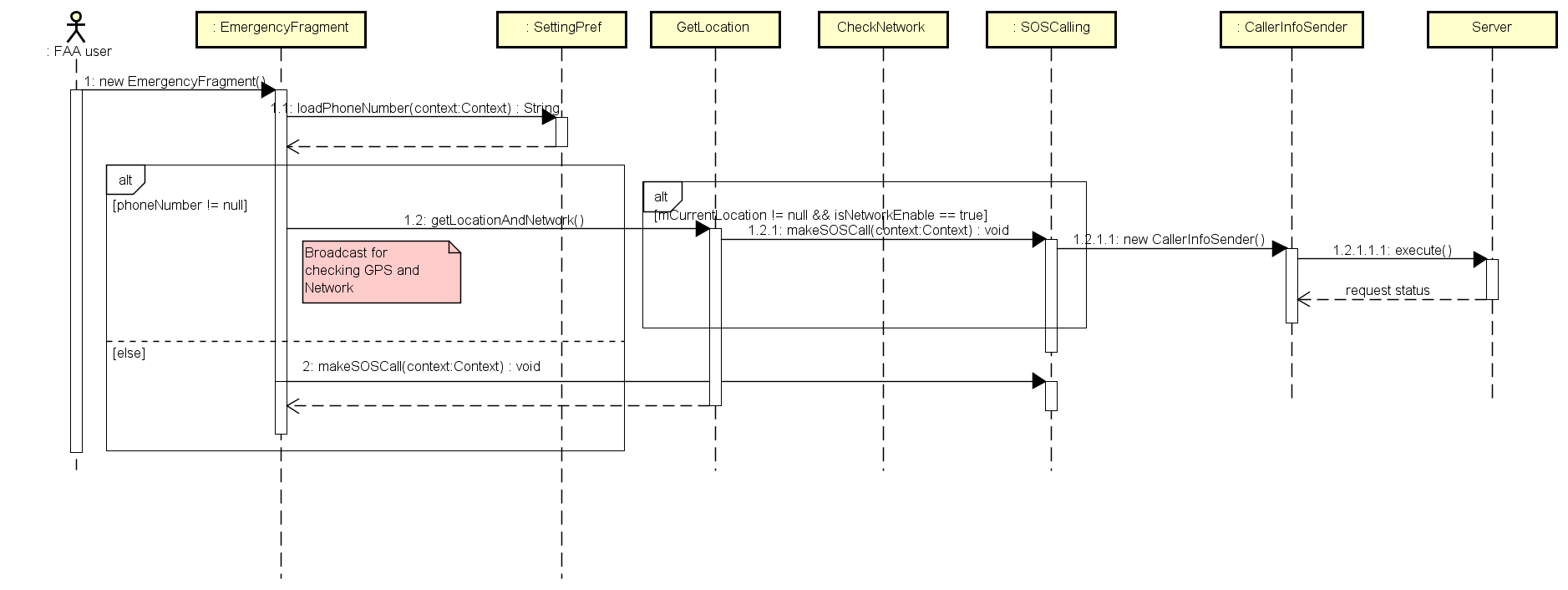


Figure ‑: Call 115 sequence diagram

Broadcast is Refer to Sequence diagram for checking GPS and Network

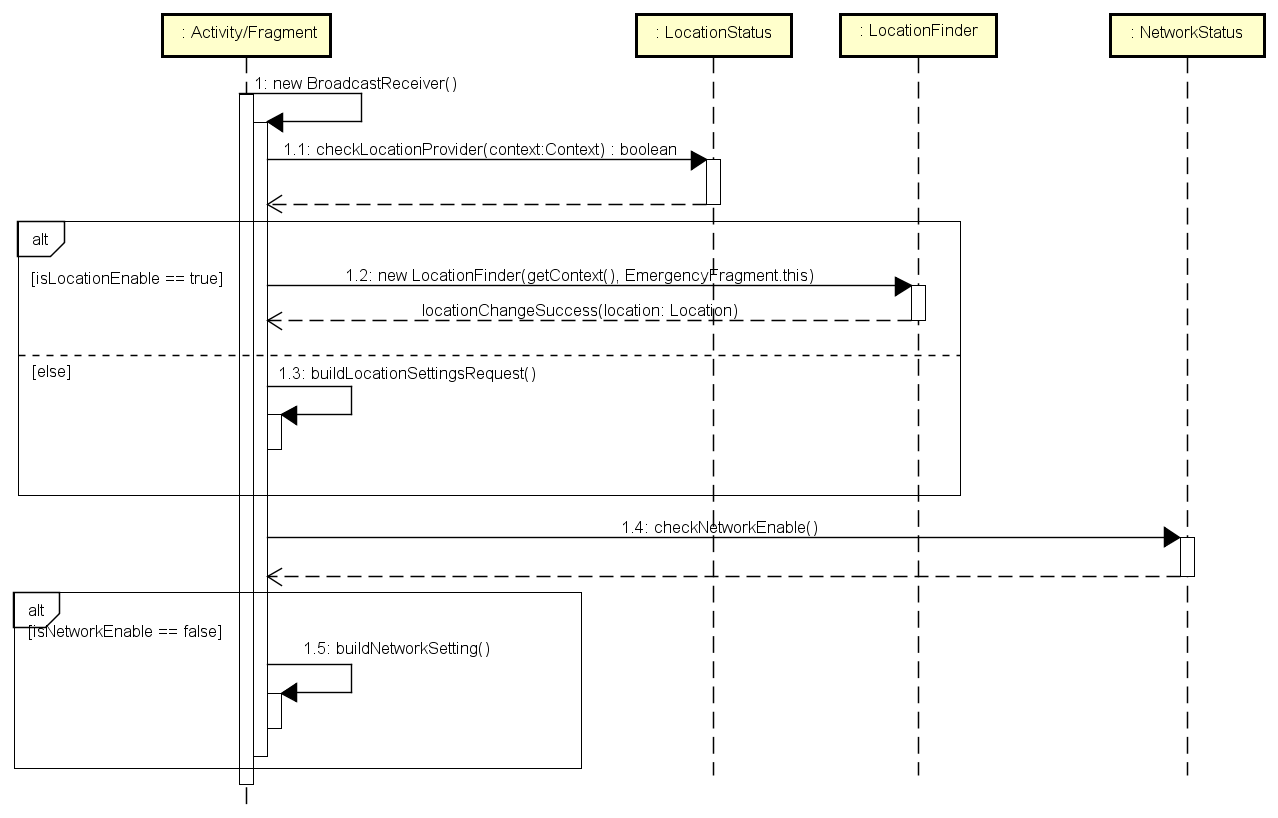


Figure ‑: Sequence diagram for checking GPS and Network

##### Read instruction steps

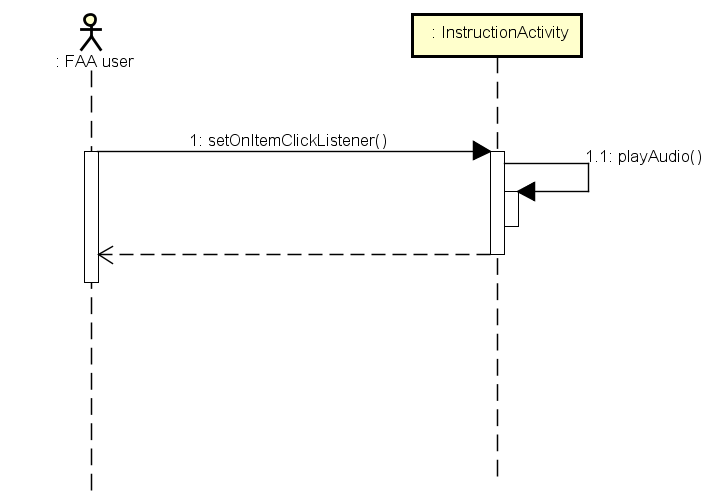


Figure ‑: Read instruction steps sequence diagram

##### View current location

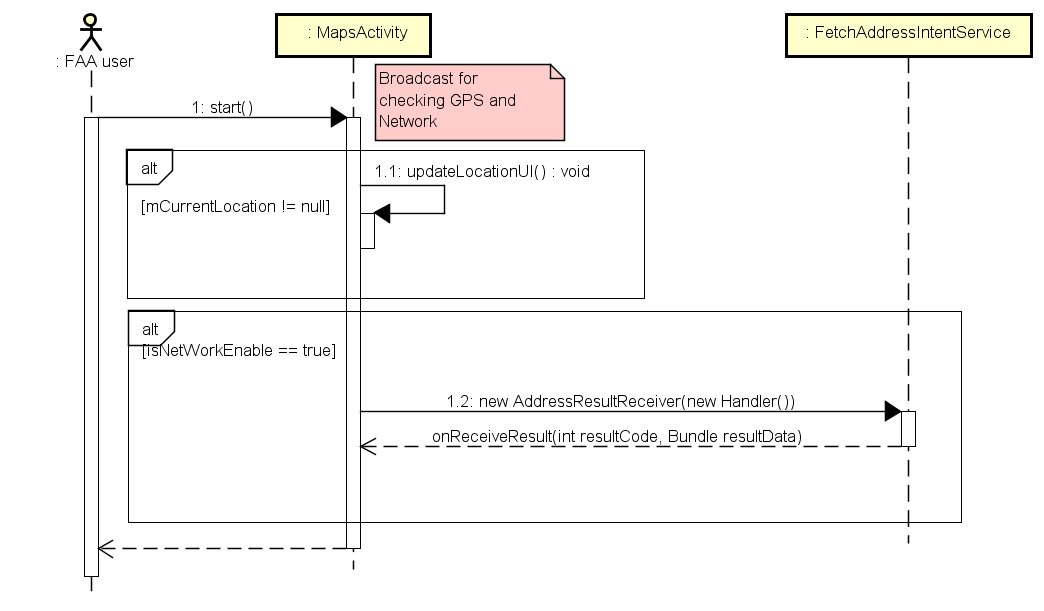


Figure ‑: View current location

Broadcast is Refer to Sequence diagram for checking GPS and Network

##### View list of nearest health facilities

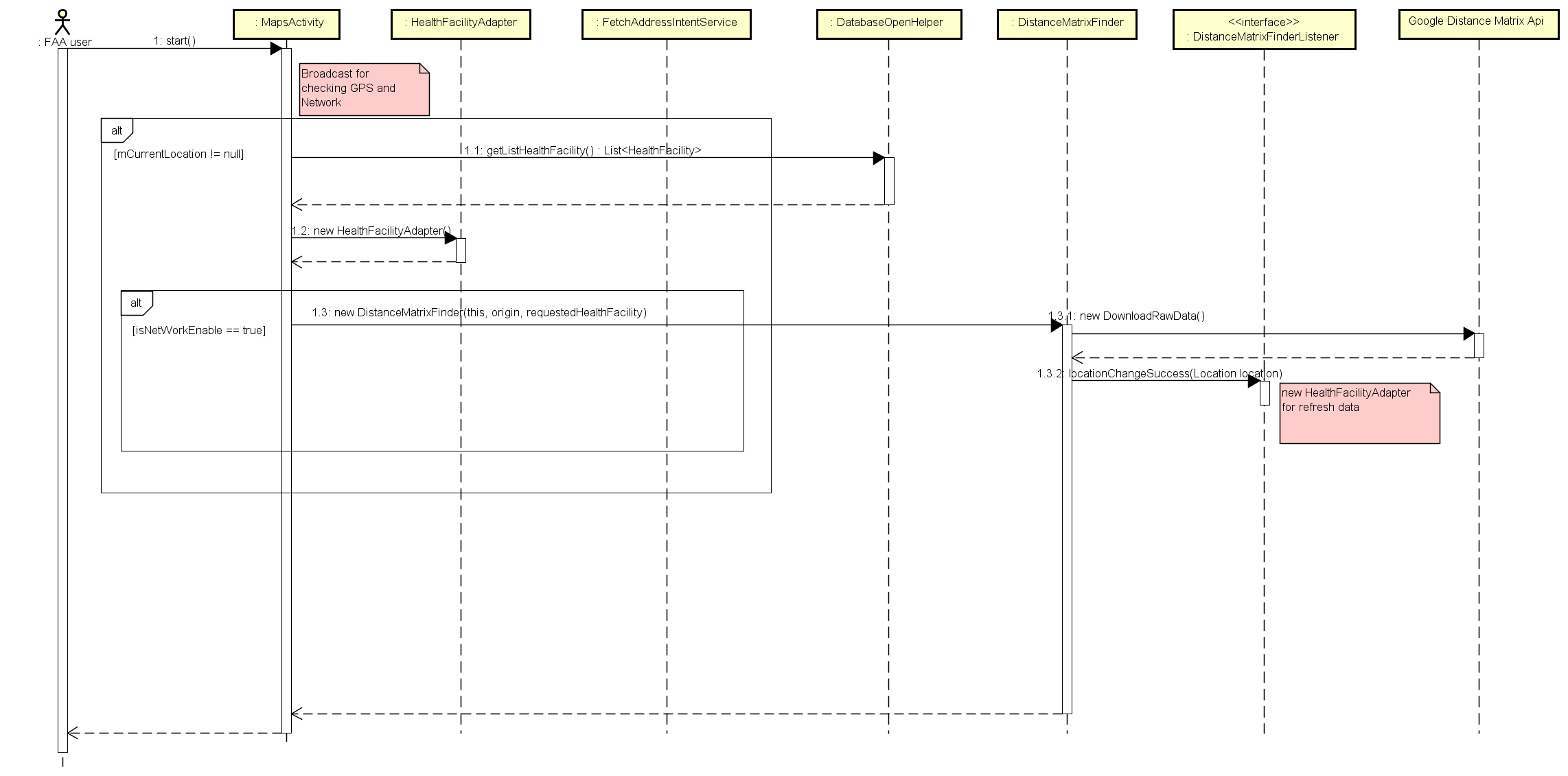


Figure ‑: View list of nearest health facilities

Broadcast is Refer to Sequence diagram for checking GPS and Network

##### Show direction to health facility

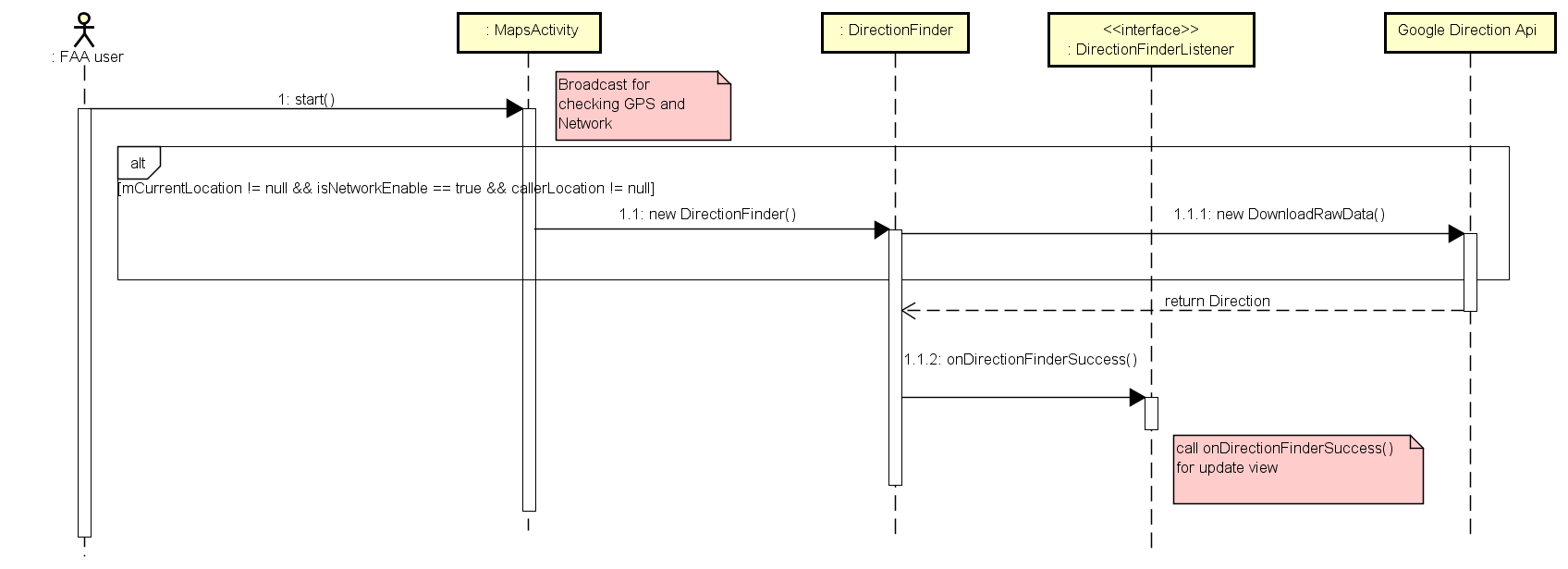


Figure ‑: Show direction to health facility

Broadcast is Refer to Sequence diagram for checking GPS and Network

##### Call to health facility

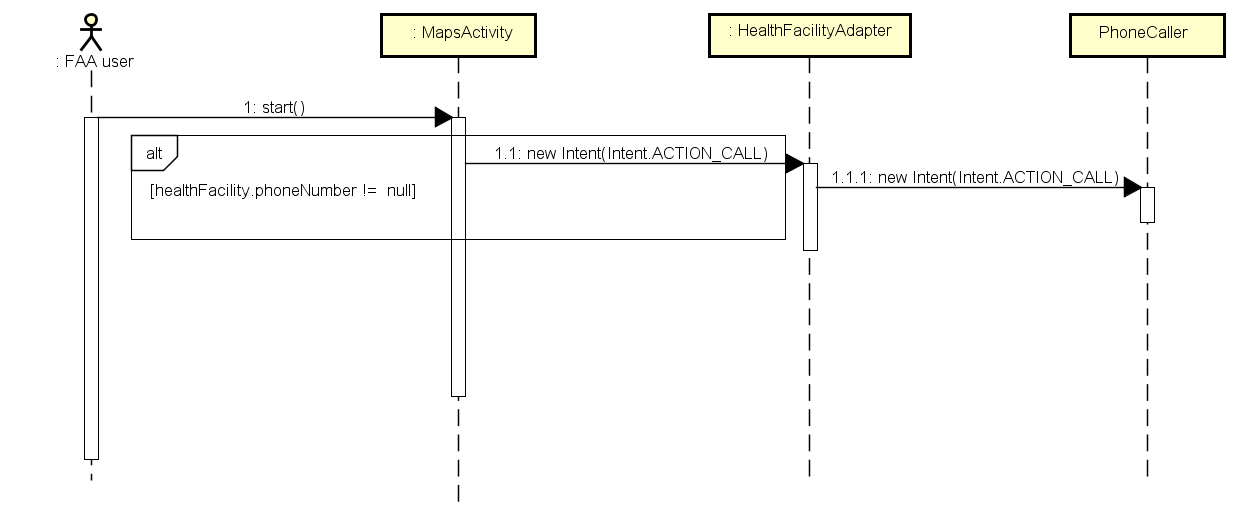


Figure ‑: Call to health facility

### Learning

#### Class Diagram

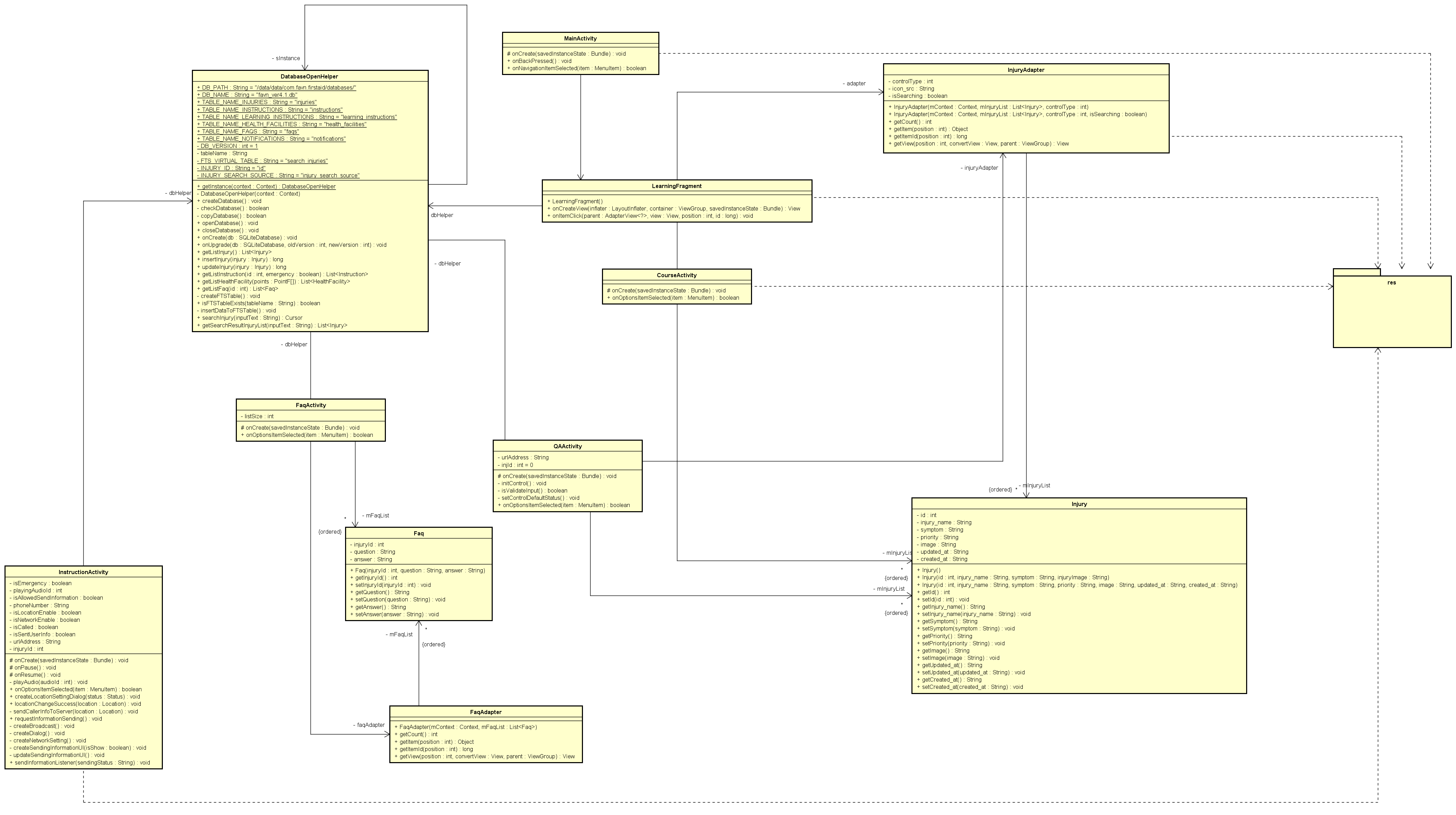


Figure ‑: Learning class diagram

#### Sequence Diagram

##### View list of learning injuries

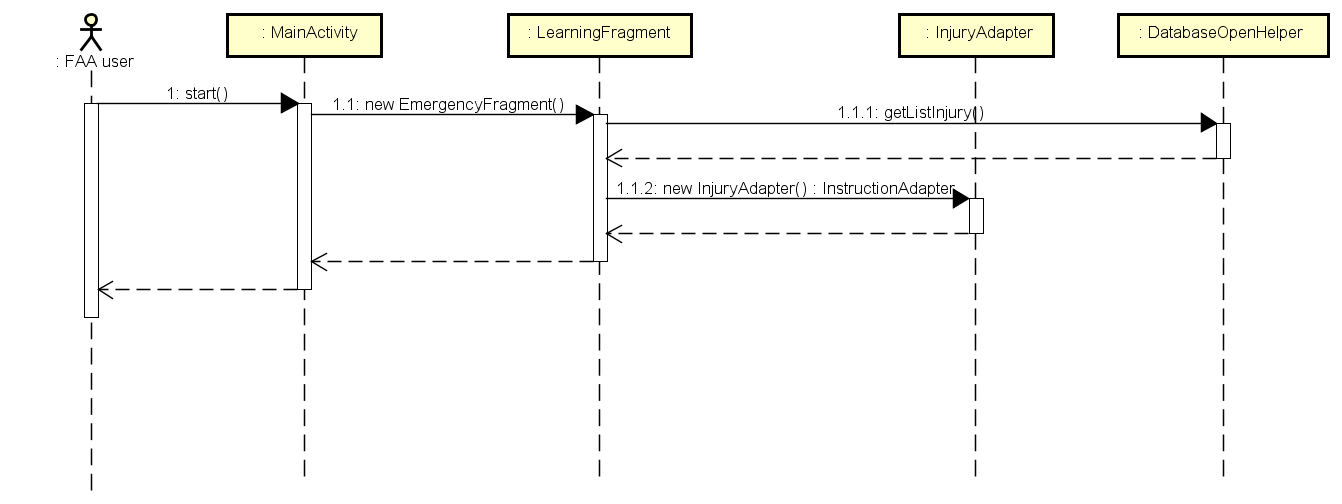


Figure ‑: View list of learning injuries

##### View learning instruction steps

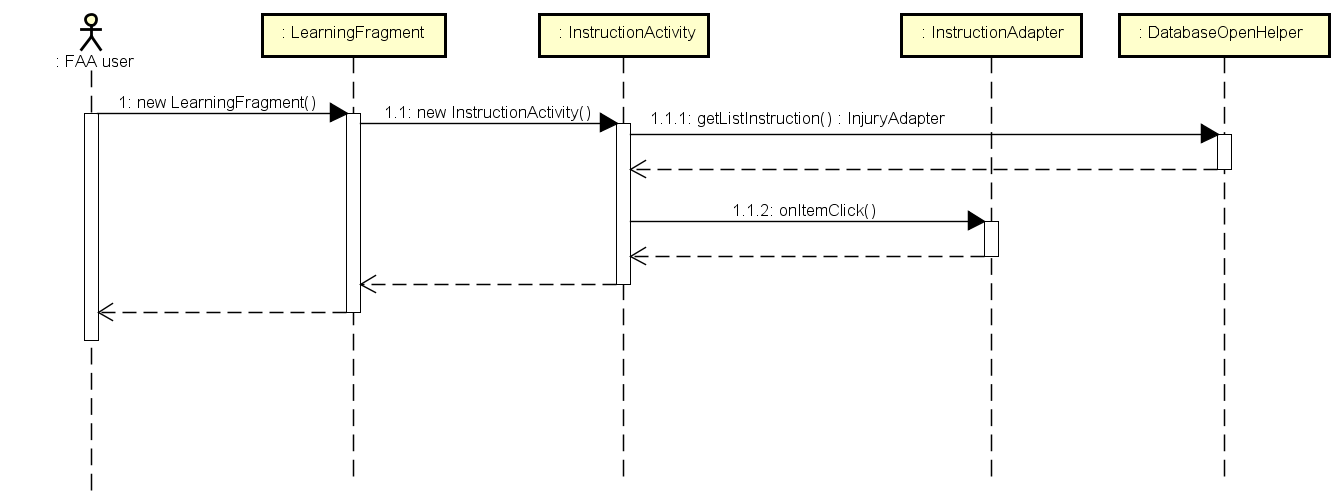


Figure ‑: View learning instruction steps

##### View FAQs

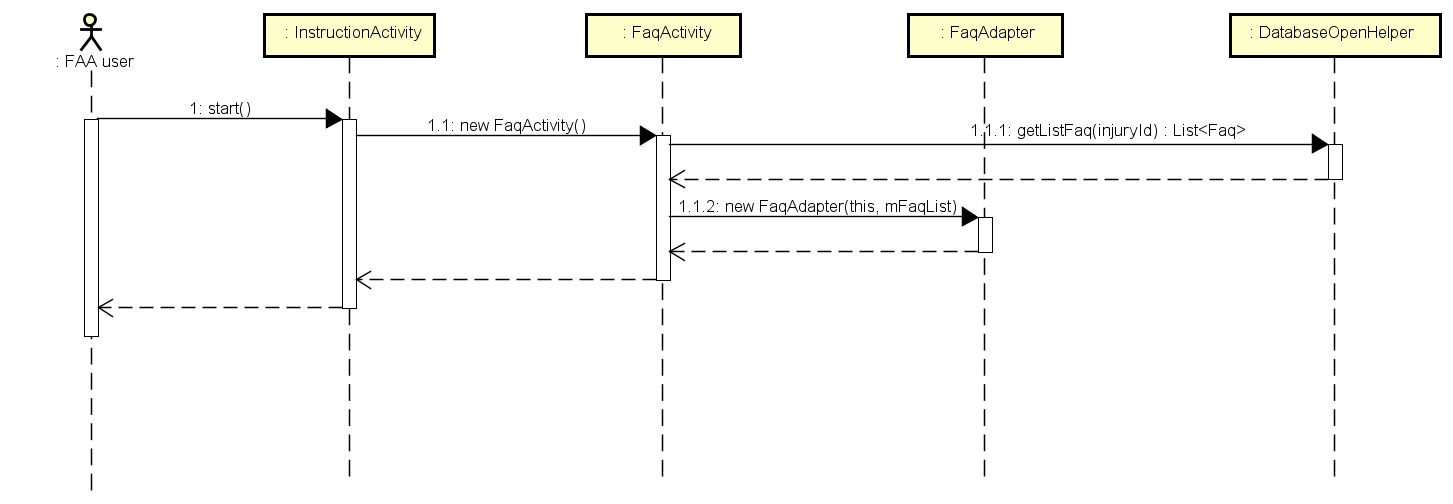


Figure ‑: View FAQs

### More

#### Class Diagram

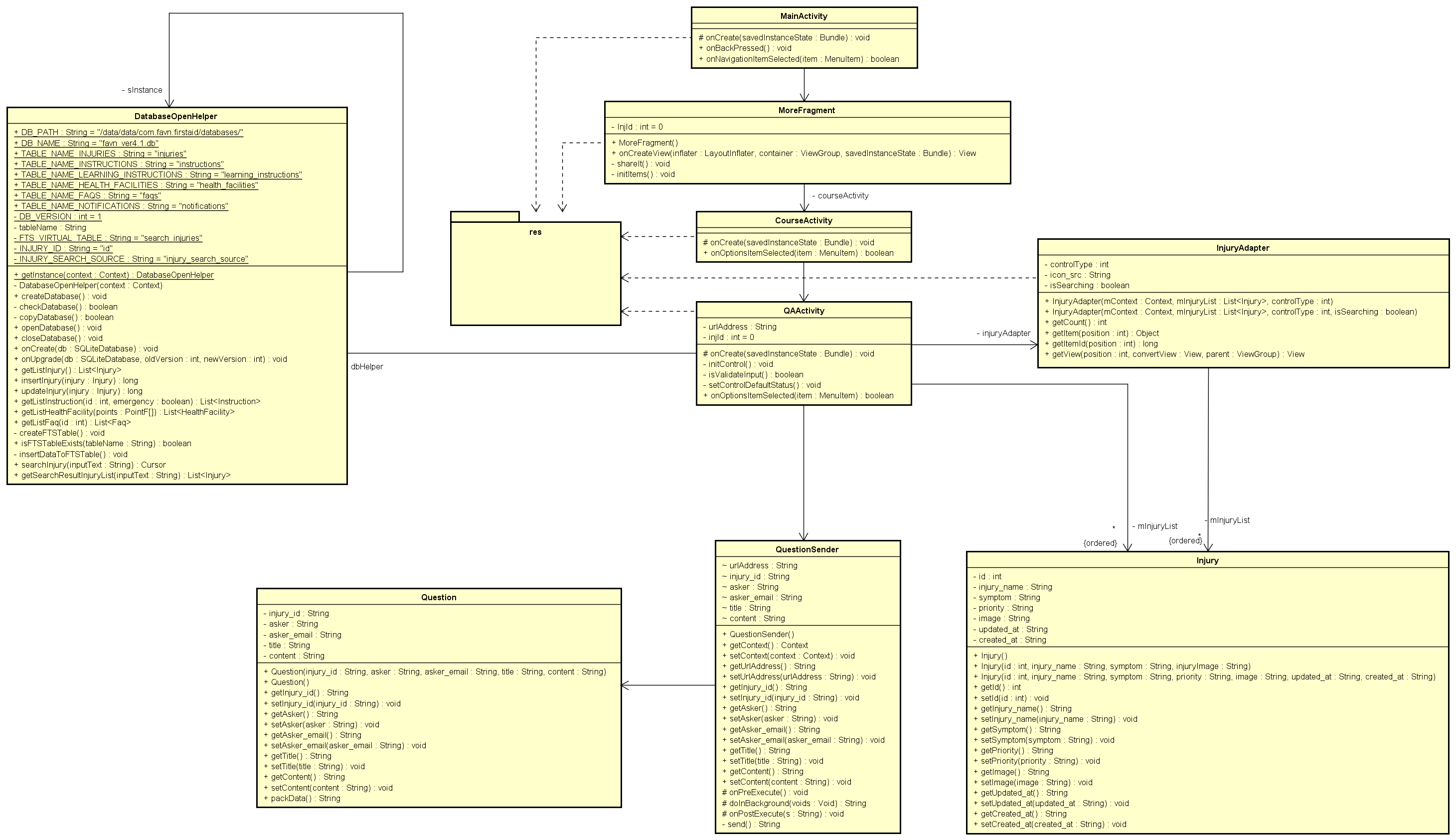


Figure ‑: Learning class diagram

#### Sequence Diagram

##### Send questions

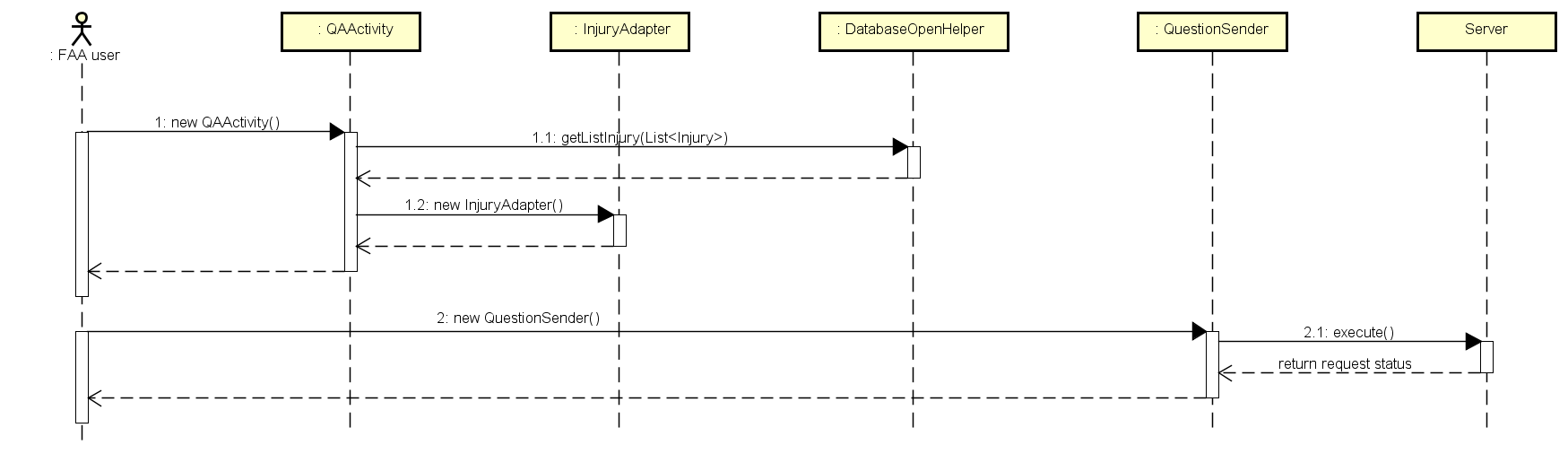


Figure ‑: Send questions

##### View course

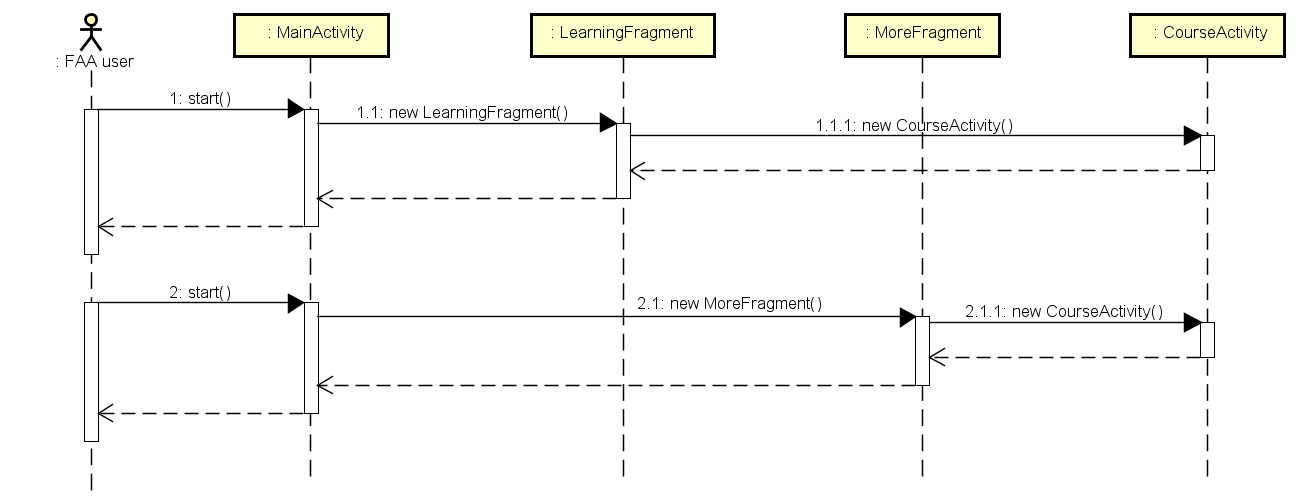


Figure ‑: View courses

##### Share application

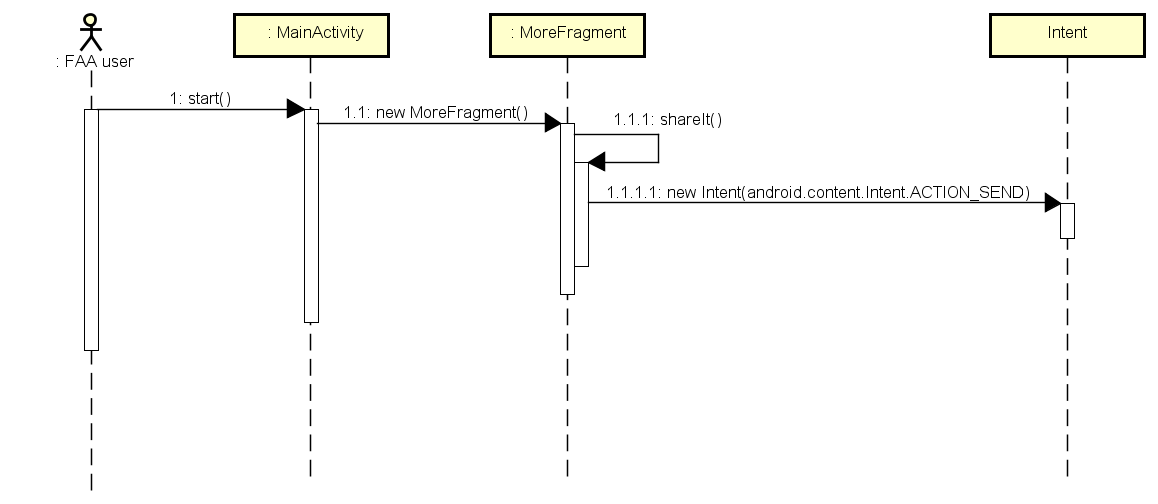


Figure ‑: Share application

### Setting

#### Class Diagram

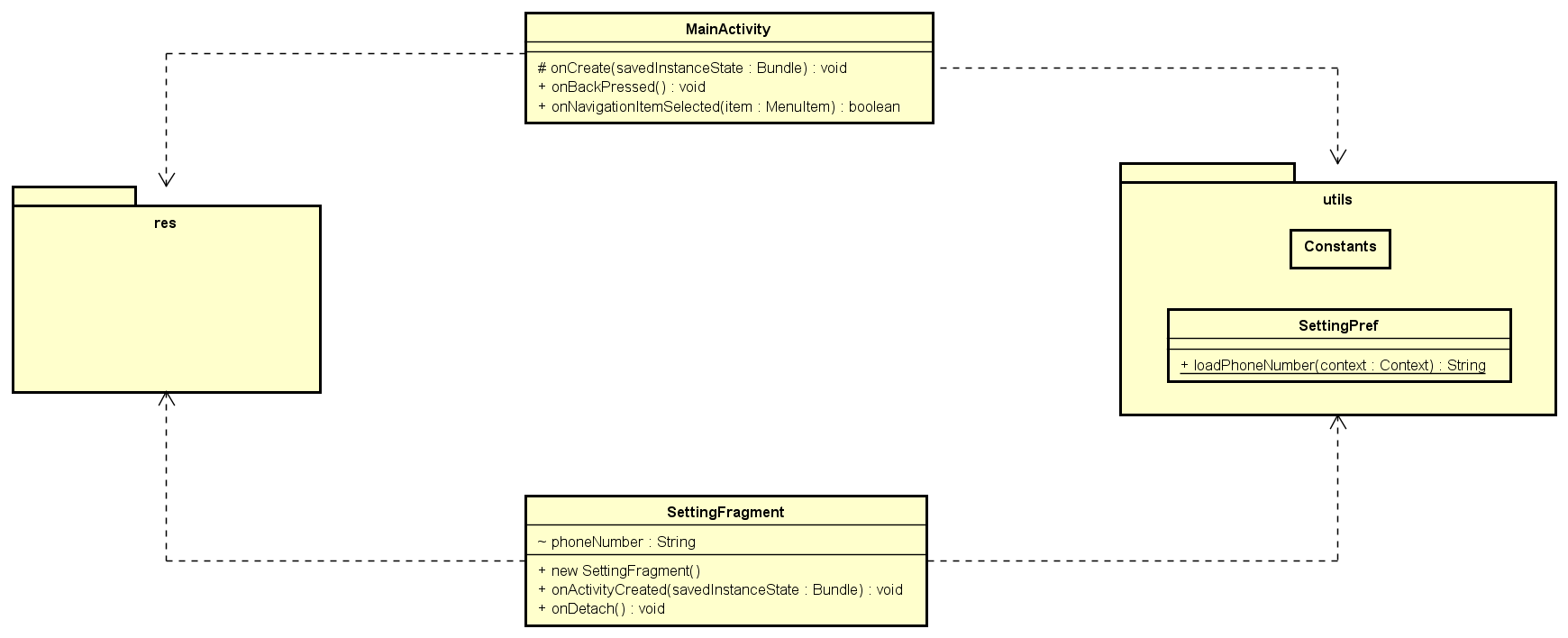


Figure ‑: Setting class diagram

#### Sequence Diagram

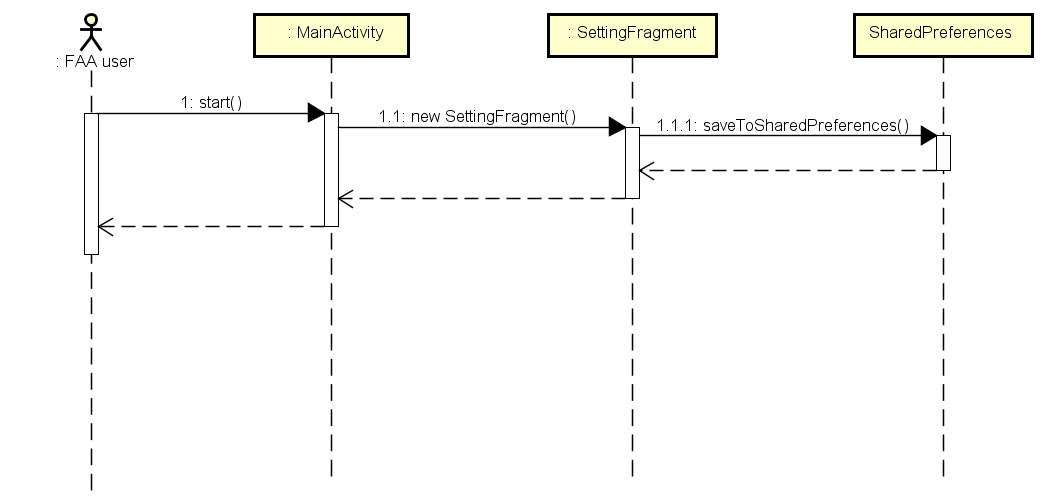


Figure ‑: Setting sequence diagram

### Information

#### Class Diagram

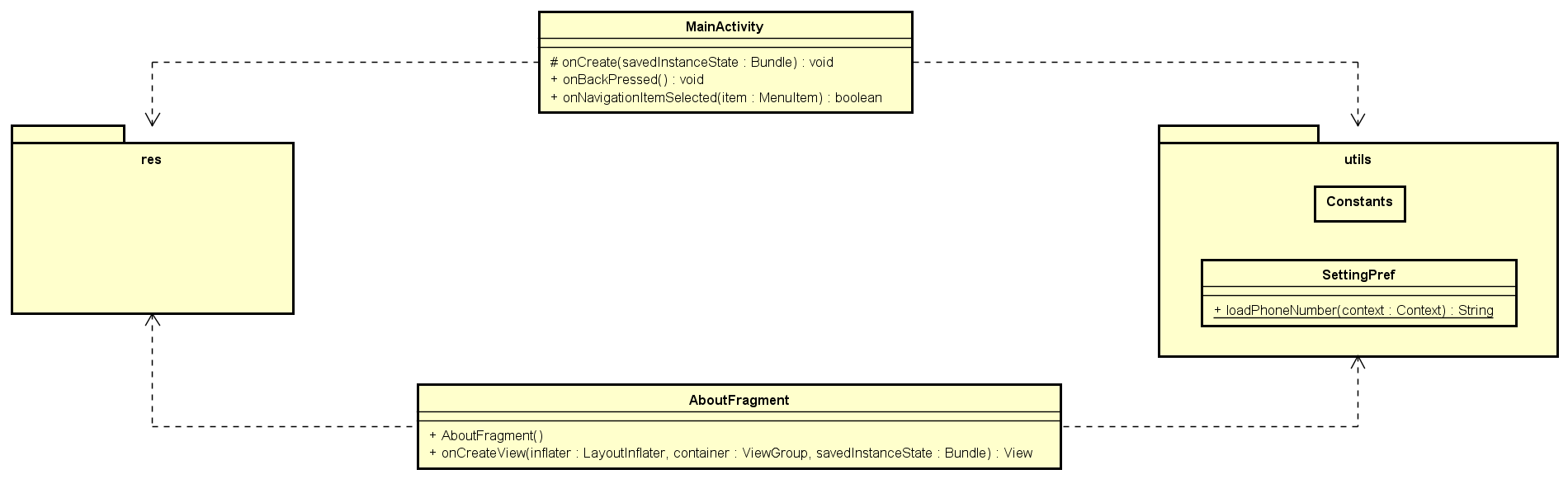


Figure ‑: Information class diagram

#### Sequence Diagram

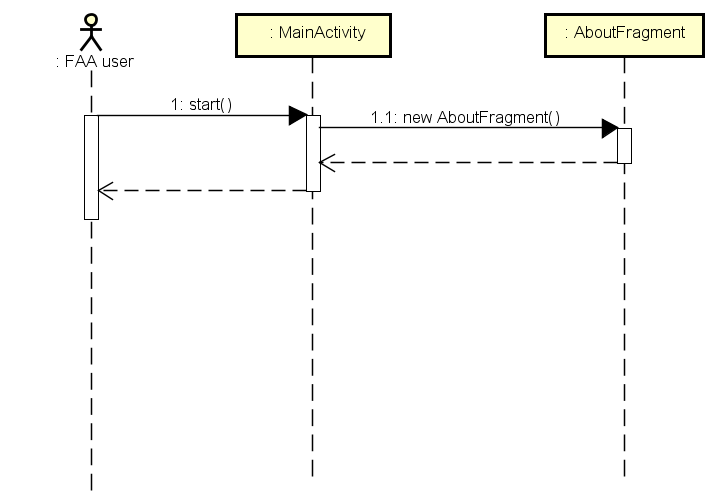


Figure ‑: View application information

## Ambulance Application

### Common

#### Class Diagram

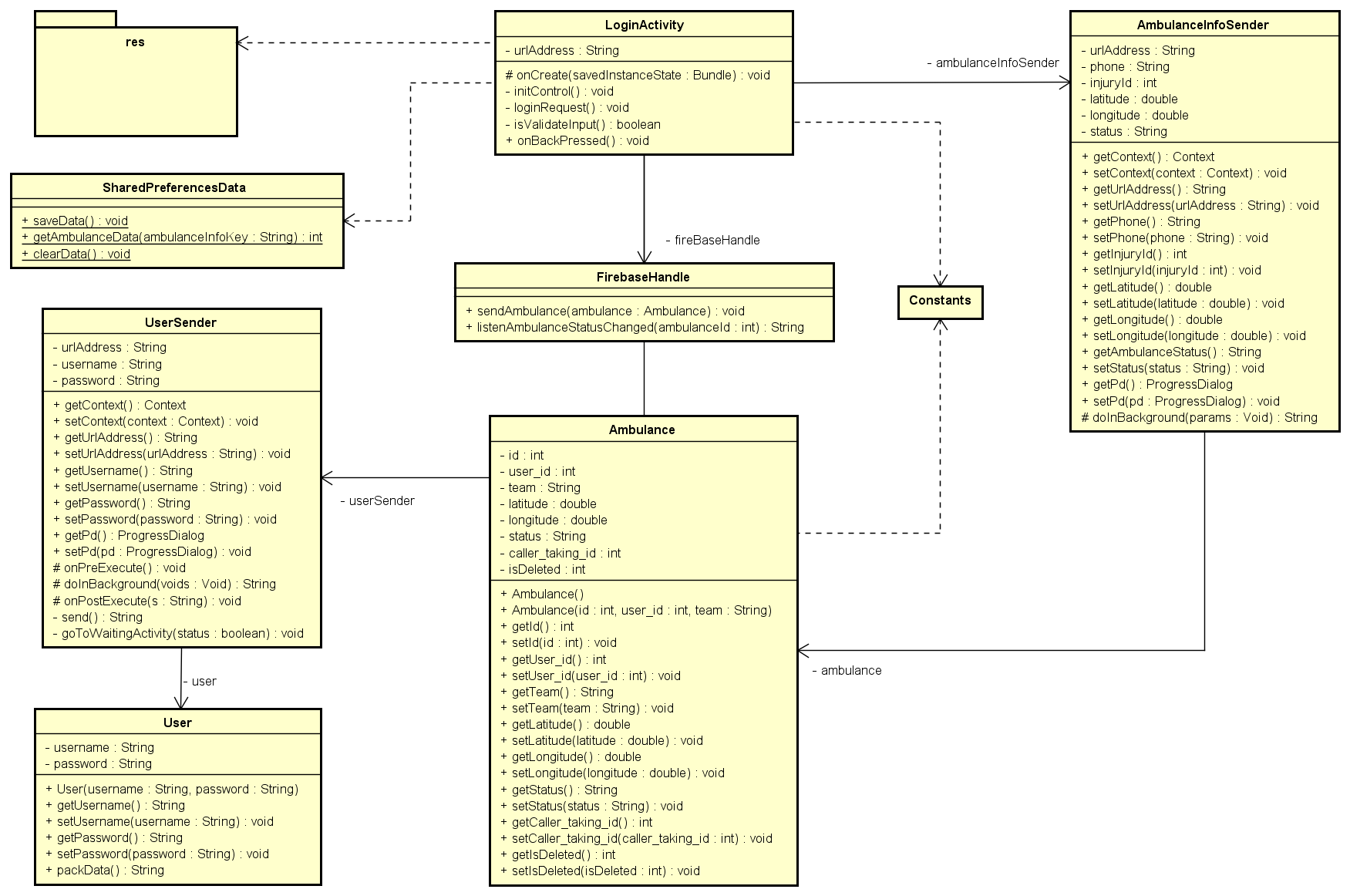


Figure ‑: Common class diagram

#### Sequence Diagram

##### Login Sequence diagram

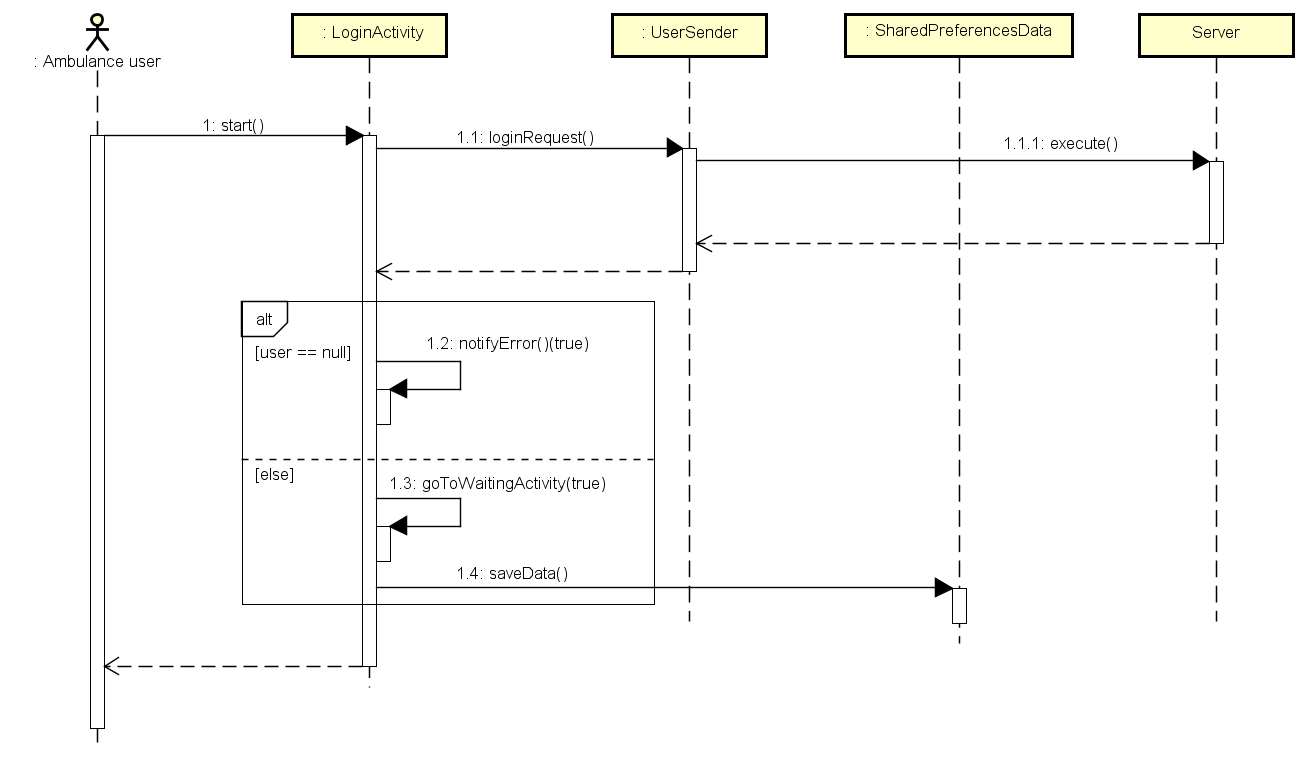


Figure ‑: Login sequence diagram

##### Logout Sequence diagram

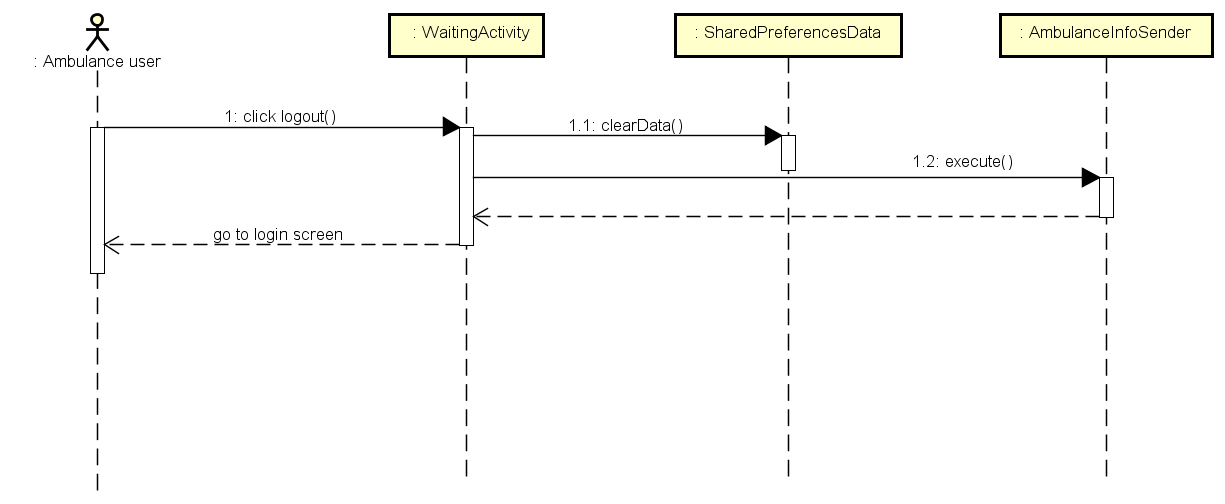


Figure ‑: Logout sequence diagram

### Task

#### Class Diagram

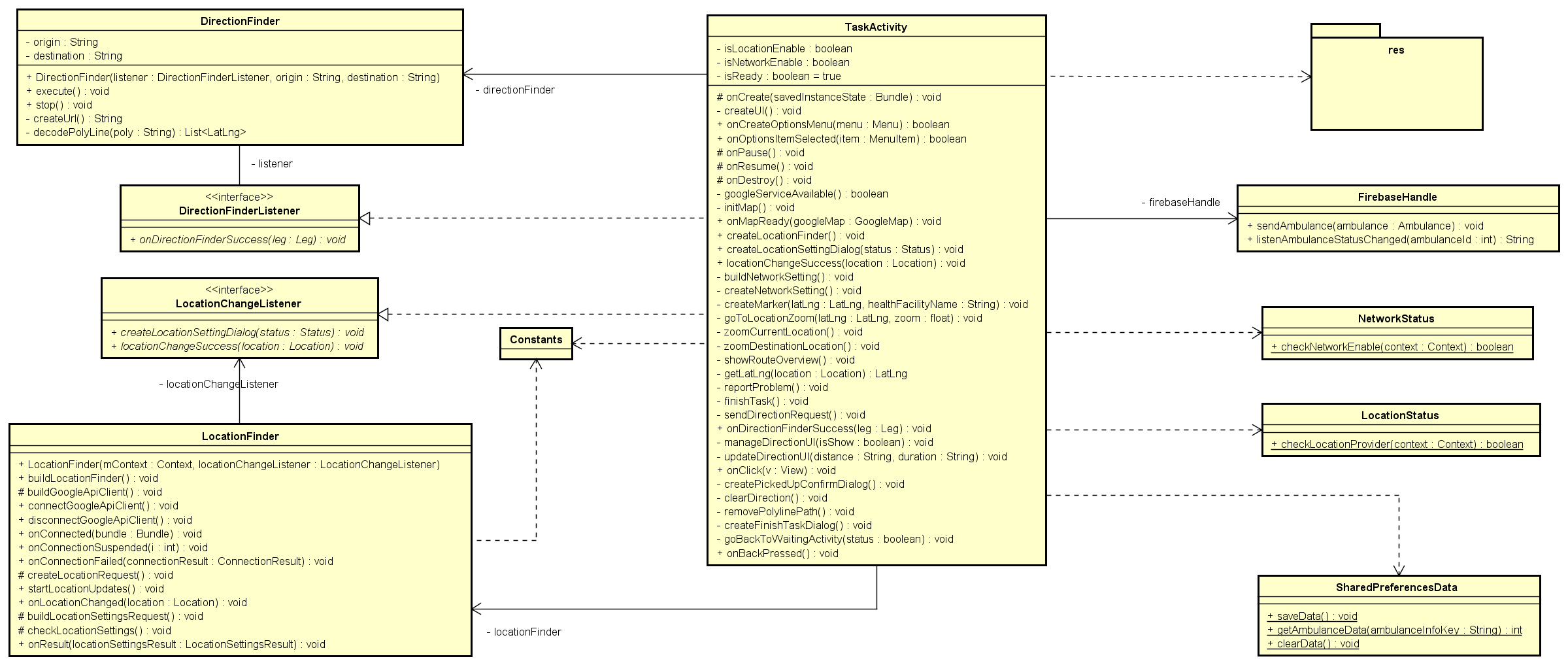
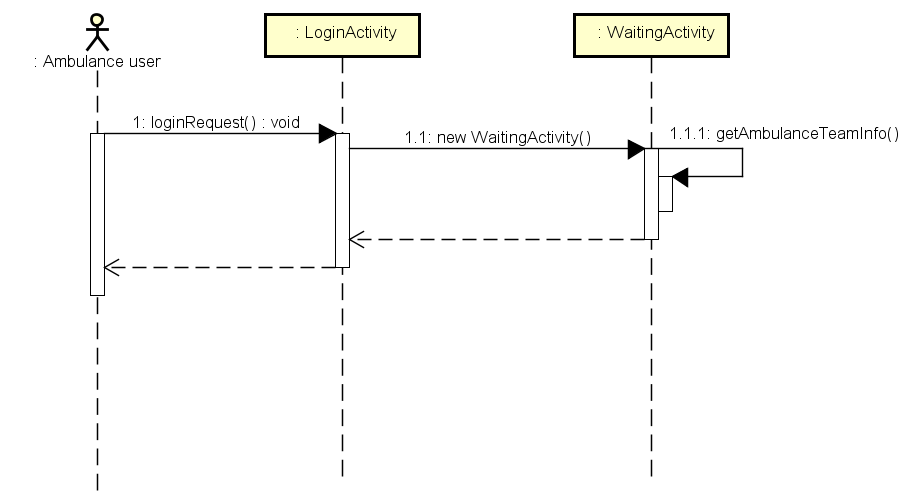


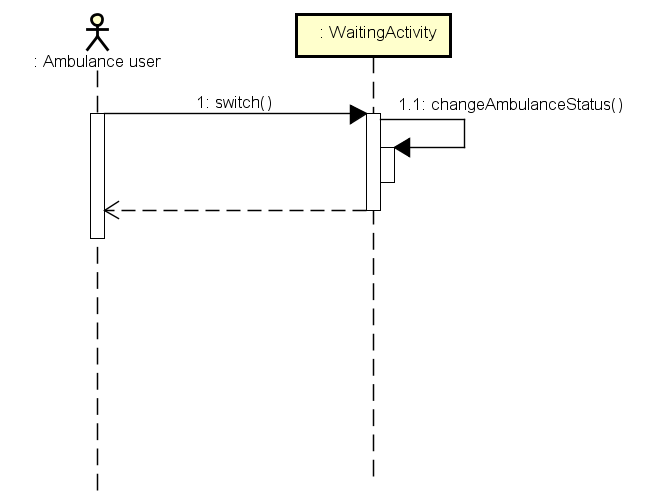
Figure ‑: Task class diagram

#### Sequence Diagram

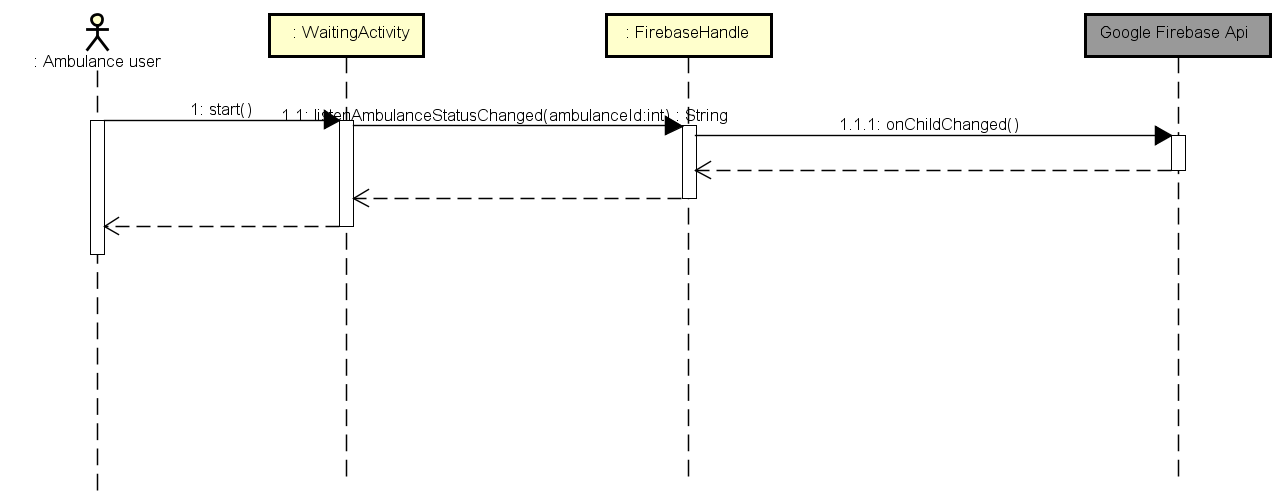
##### View ambulance team information sequence diagram



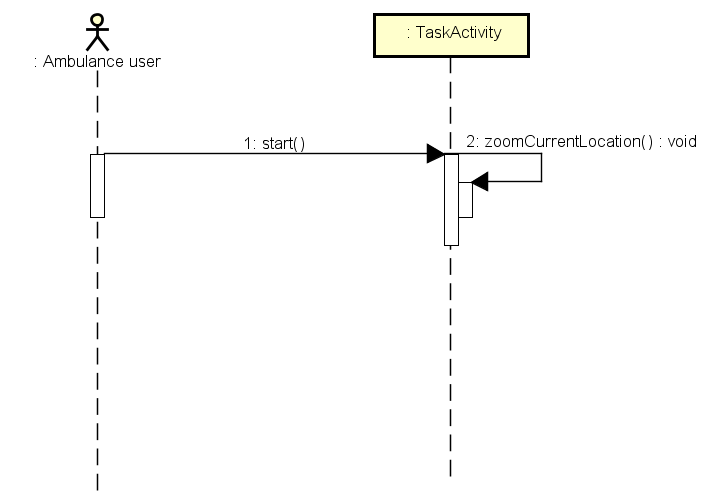
##### Change status sequence diagram



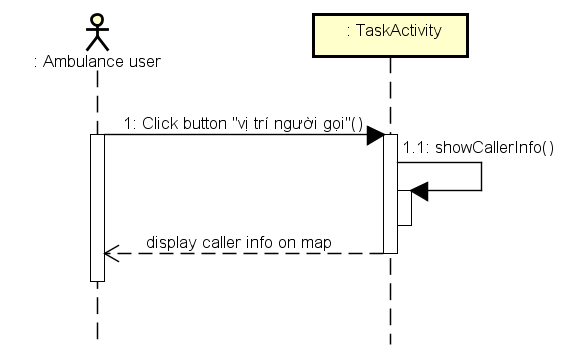
##### Notify task sequence diagram



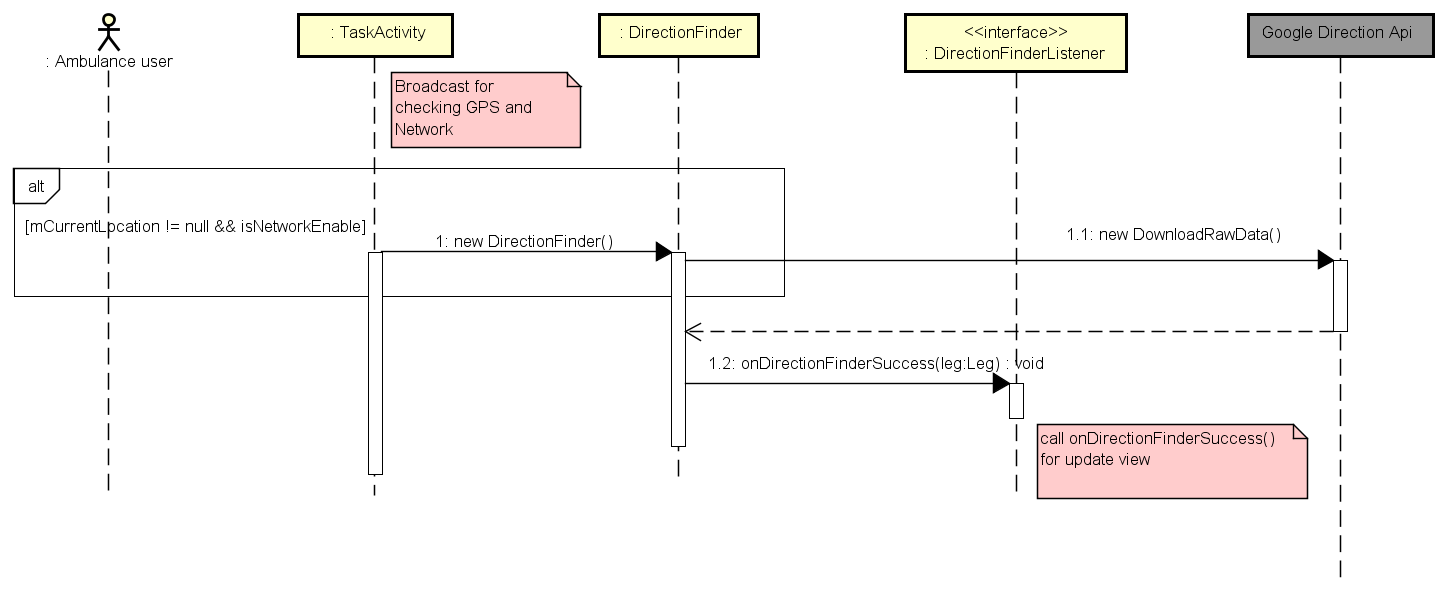
##### View current location sequence diagram



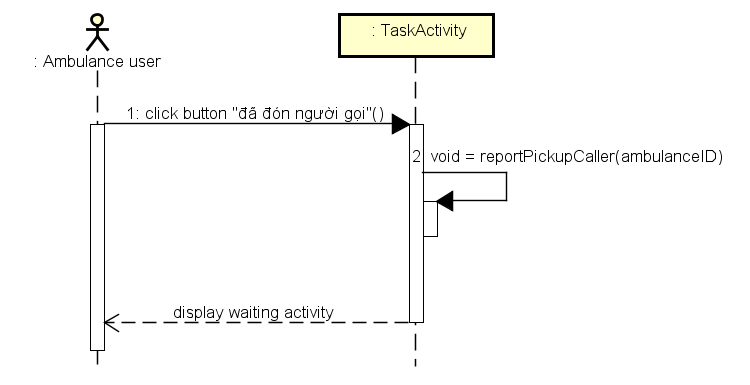
##### Show location of caller sequence diagram



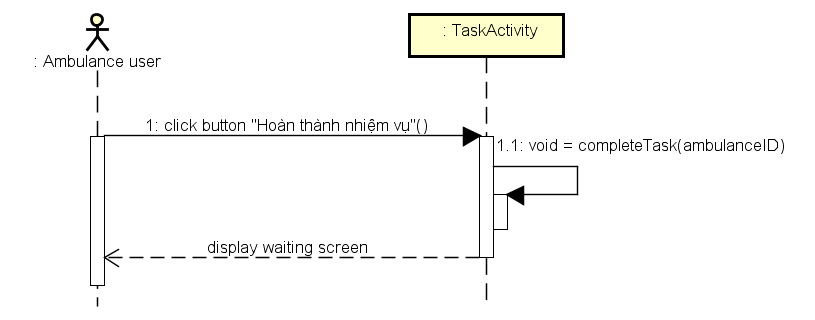
##### Show direction to caller sequence diagram



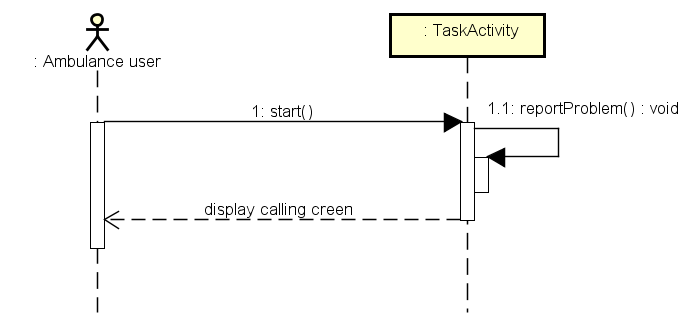
##### Report picked up victim sequence diagram



##### Report completed task sequence diagram

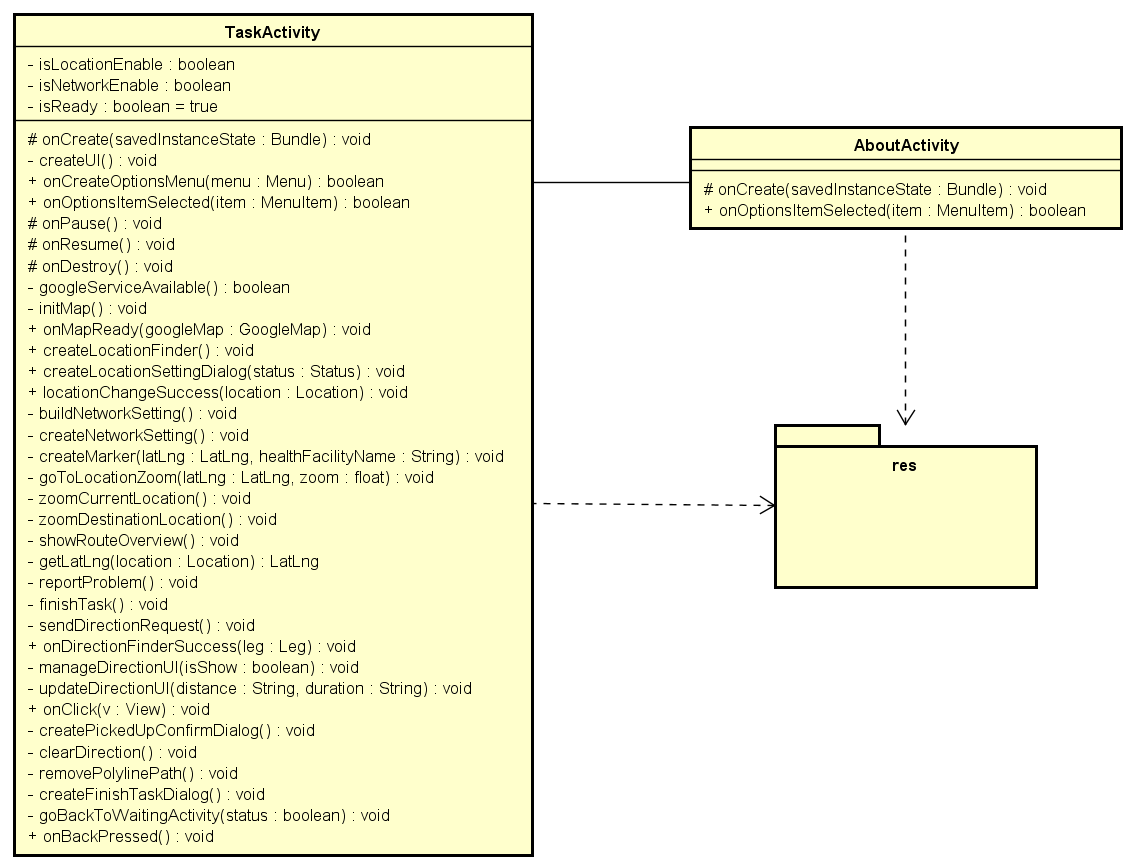


##### Report problem sequence diagram



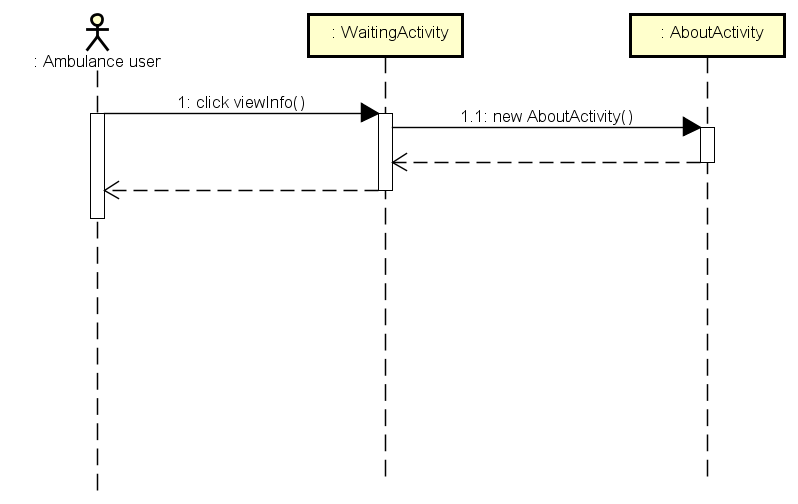
### Information

#### Class Diagram



#### Sequence Diagram

##### View application information sequence diagram



## Dispatcher Application

### Common

#### Class diagram

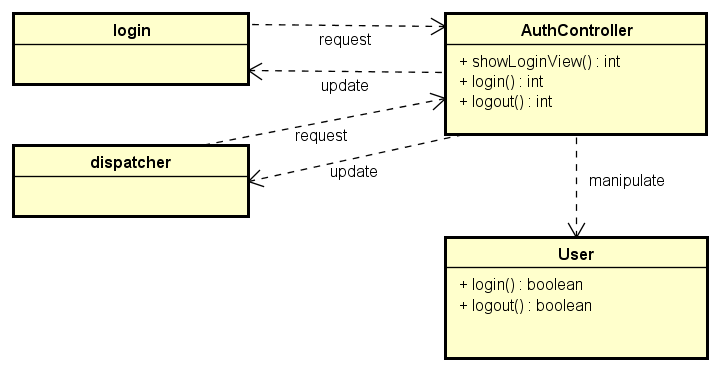


Figure ‑: Common Class Diagram

#### Sequence diagram

Refer to 3.4.1.2 of this document with classes above to handle sequence

### Create emergency case

#### Class diagram

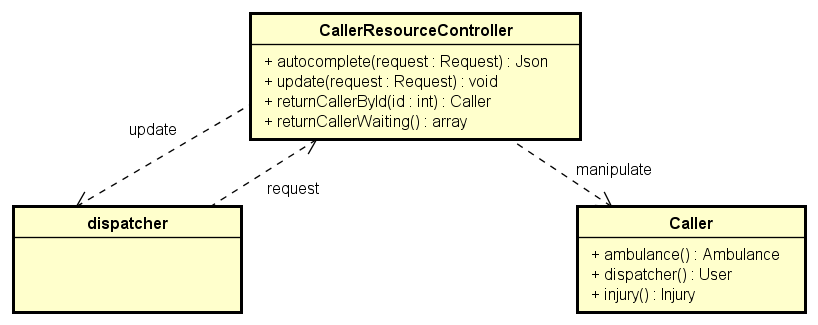


Figure ‑: Create Emergency Case Class Diagram

#### Sequence diagram

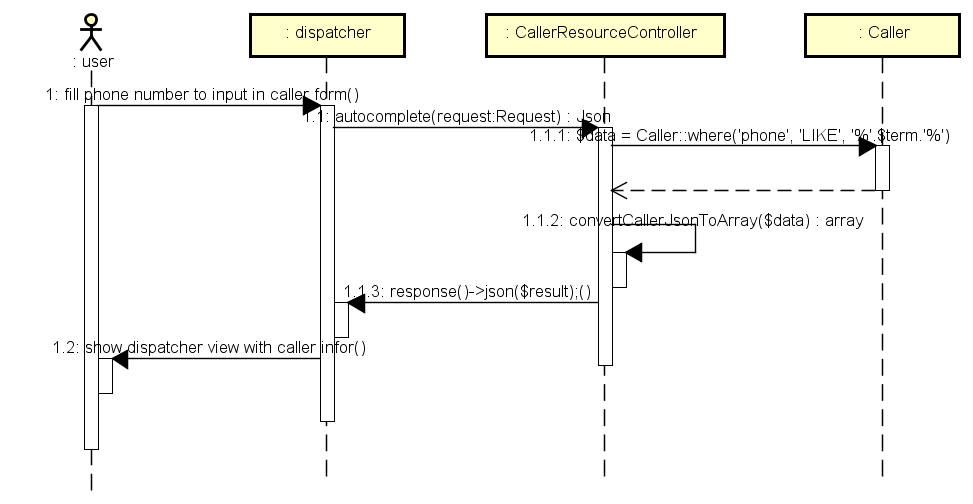


Figure ‑: Create Emergency Case Sequence Diagram

### Dispatch ambulance

#### Class diagram

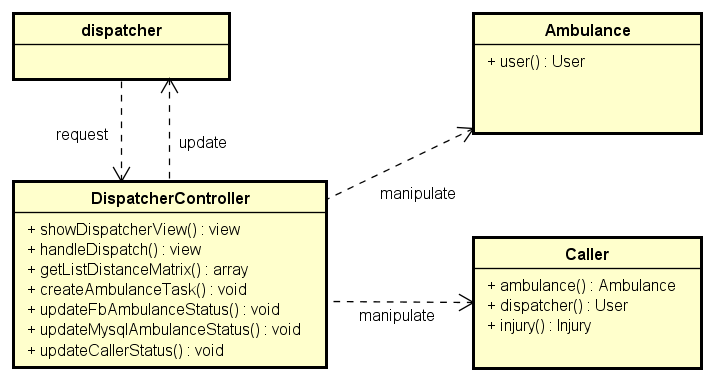


Figure ‑: Dispatch Ambulance Class Diagram

#### Sequence diagram

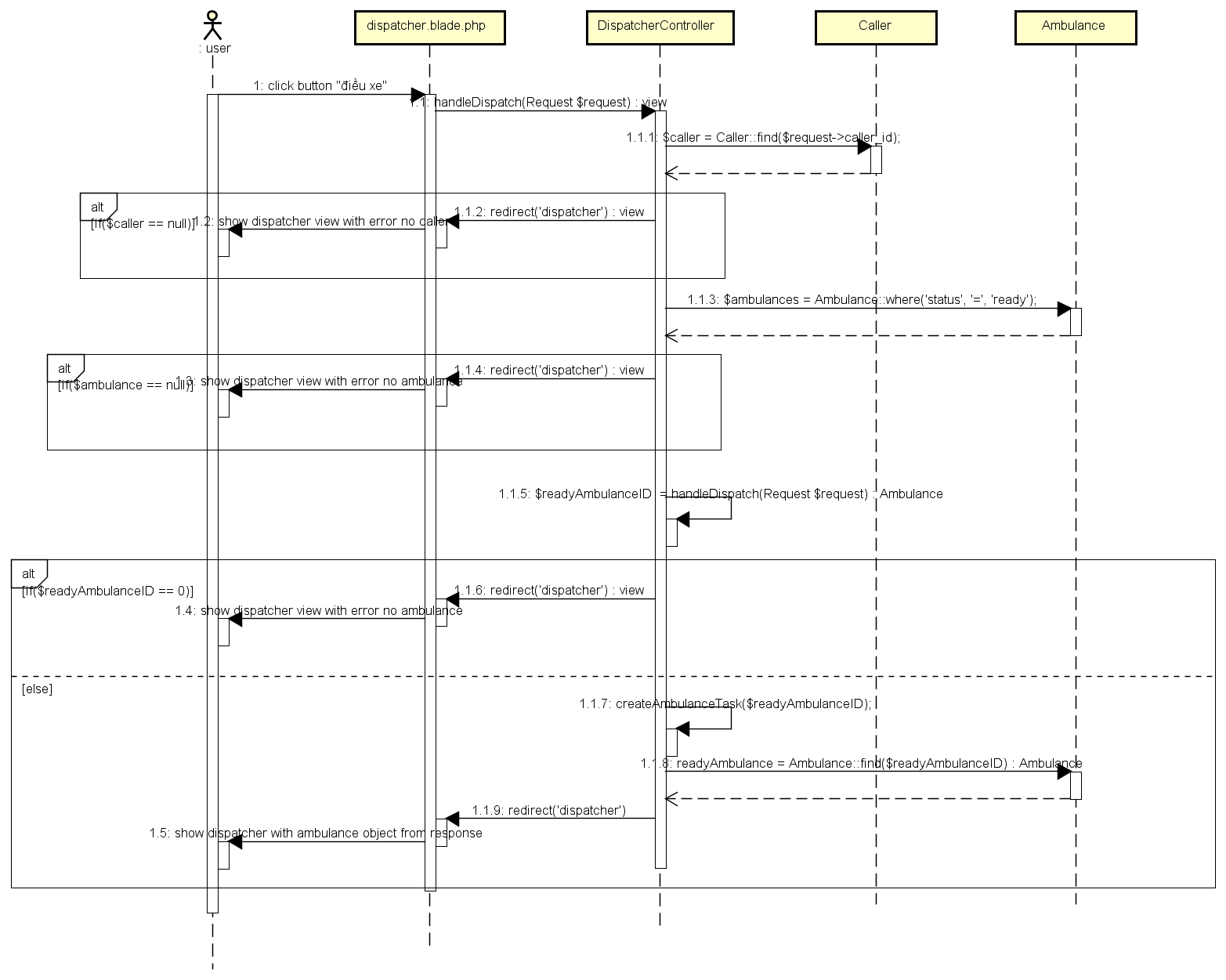


Figure ‑: Dispatch Ambulance Class Diagram

### View ambulance information

#### Class diagram

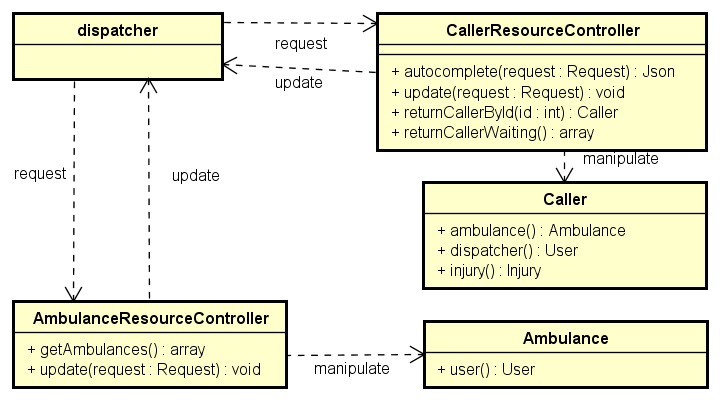


Figure ‑: View Ambulance Information Class Diagram

#### Sequence diagram

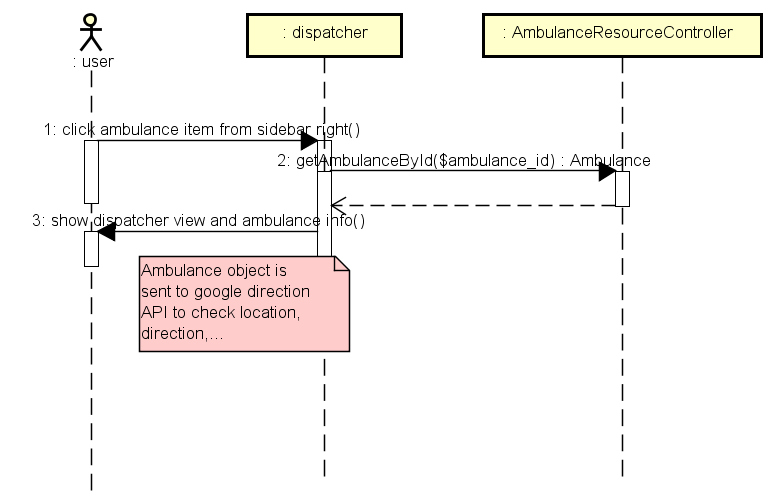
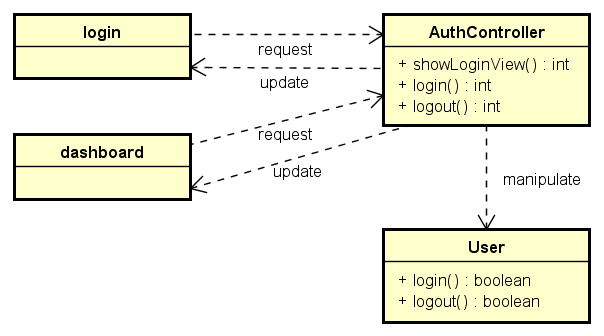


Figure ‑: View Ambulance Information Sequence Diagram

## Admin/Expert Application

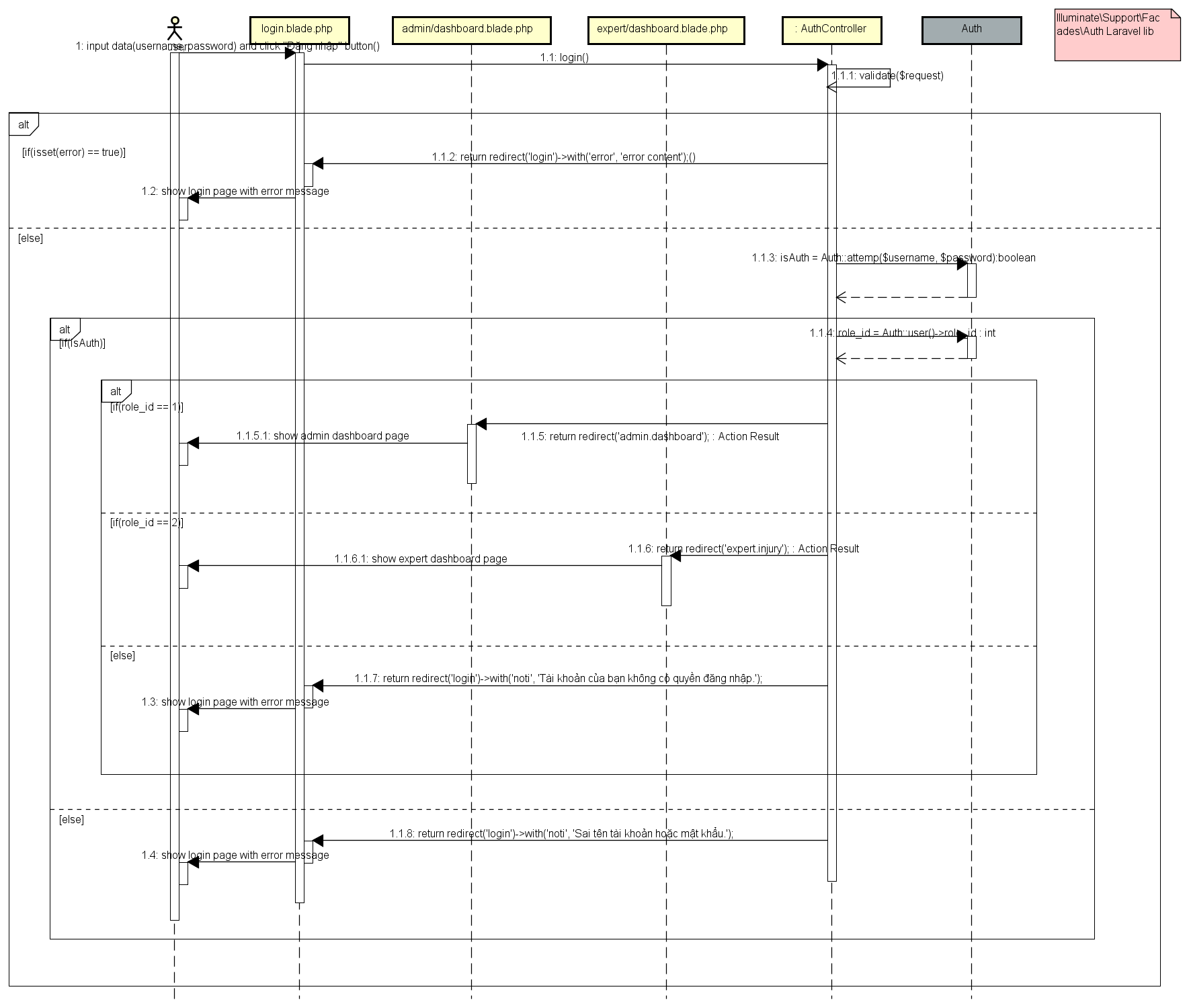
### Common

#### Class diagram



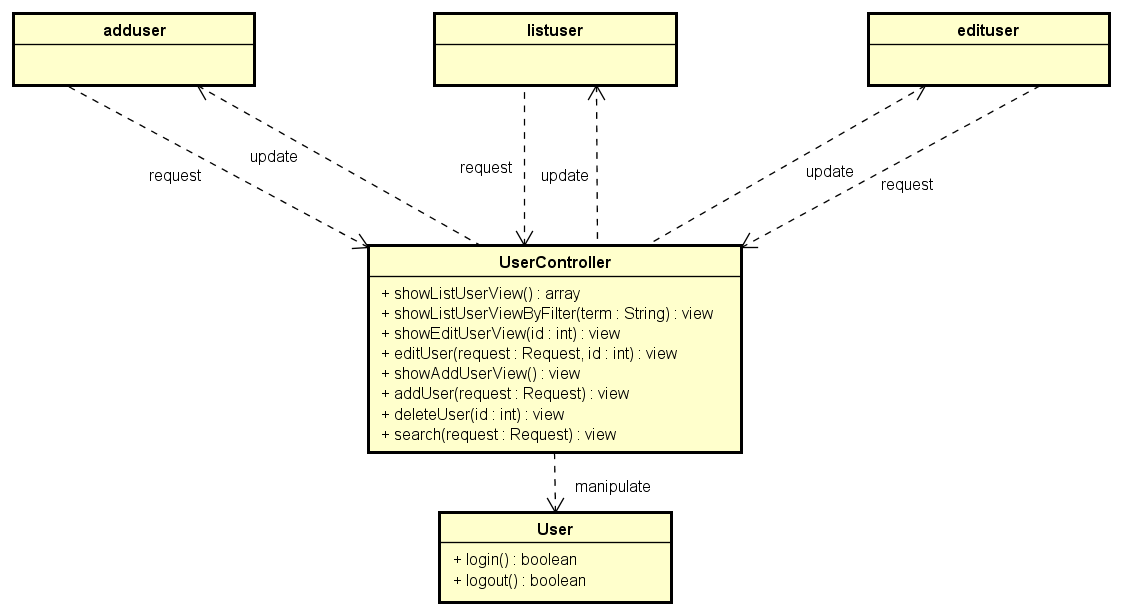
#### Sequence diagram

##### Login



### Manage user’s account

#### Class diagram

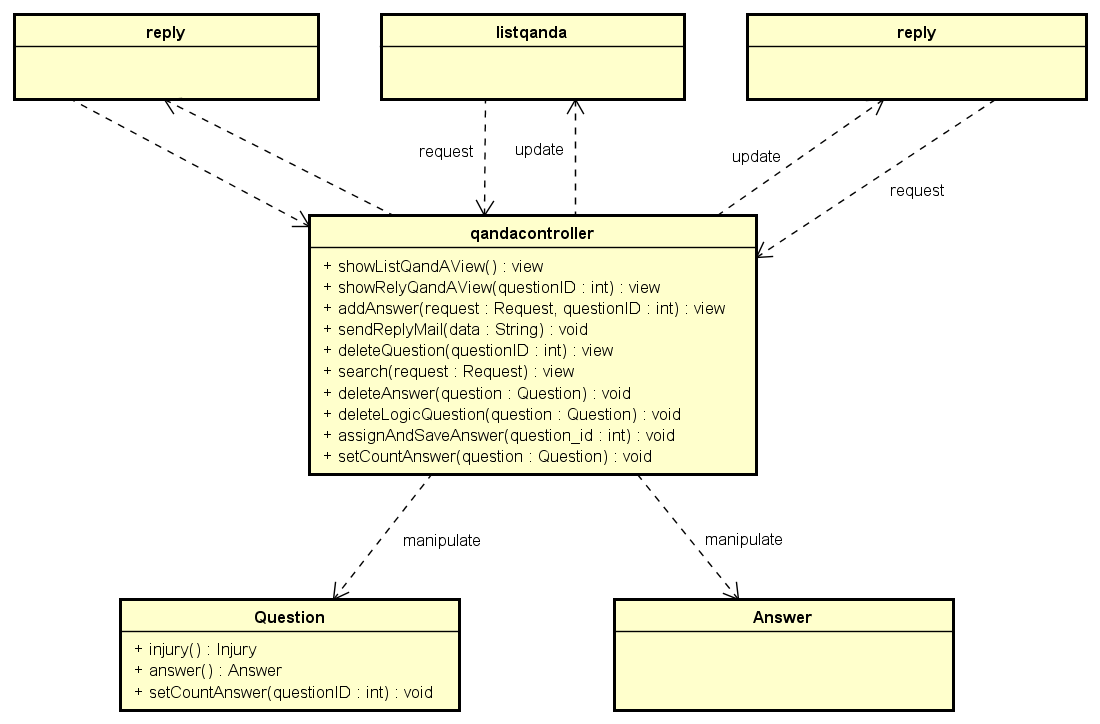


#### Sequence diagram

Refer to 3.4.4.2 of this document with classes above to handle sequence .

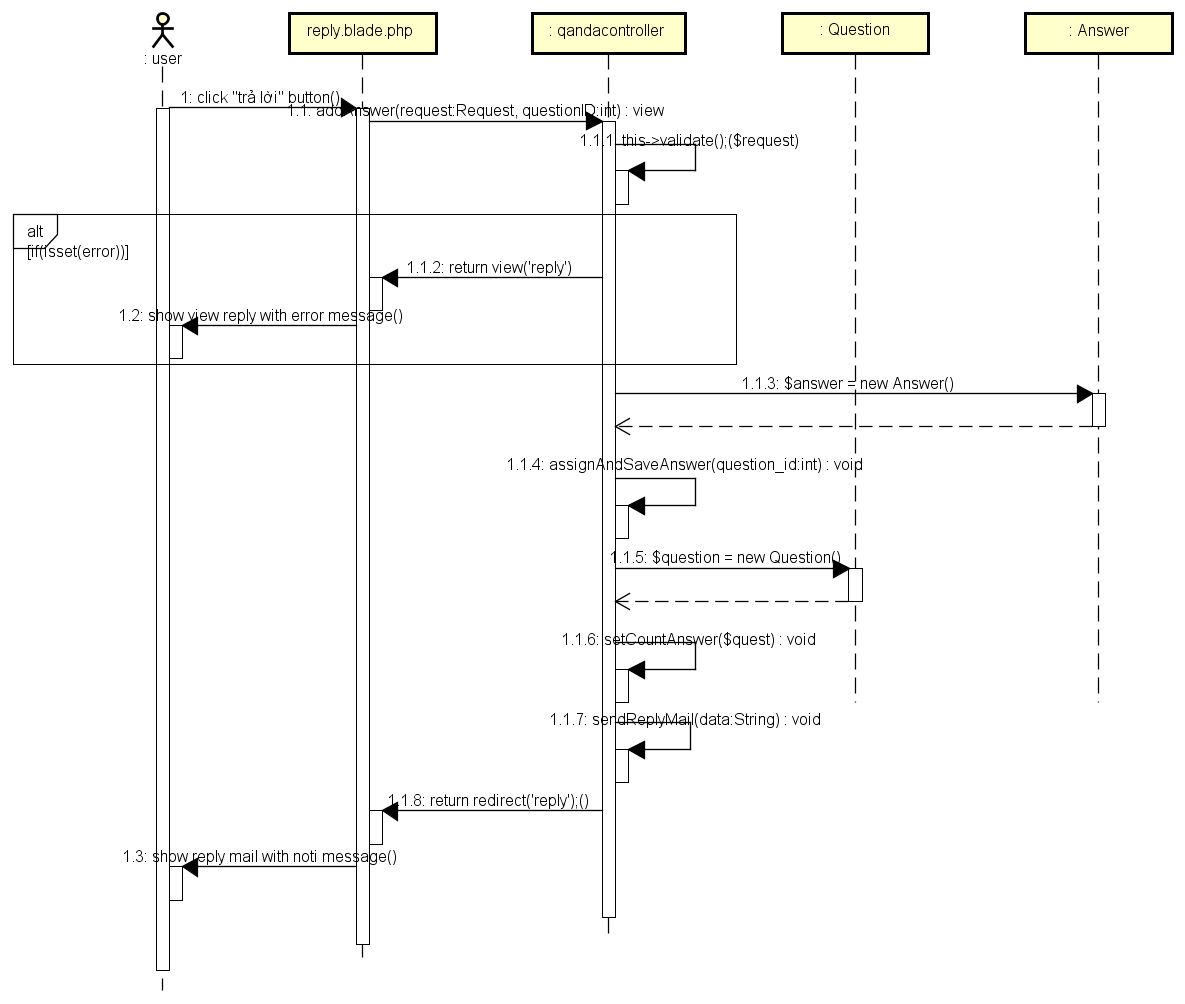
### Manage Q&A

#### Class diagram

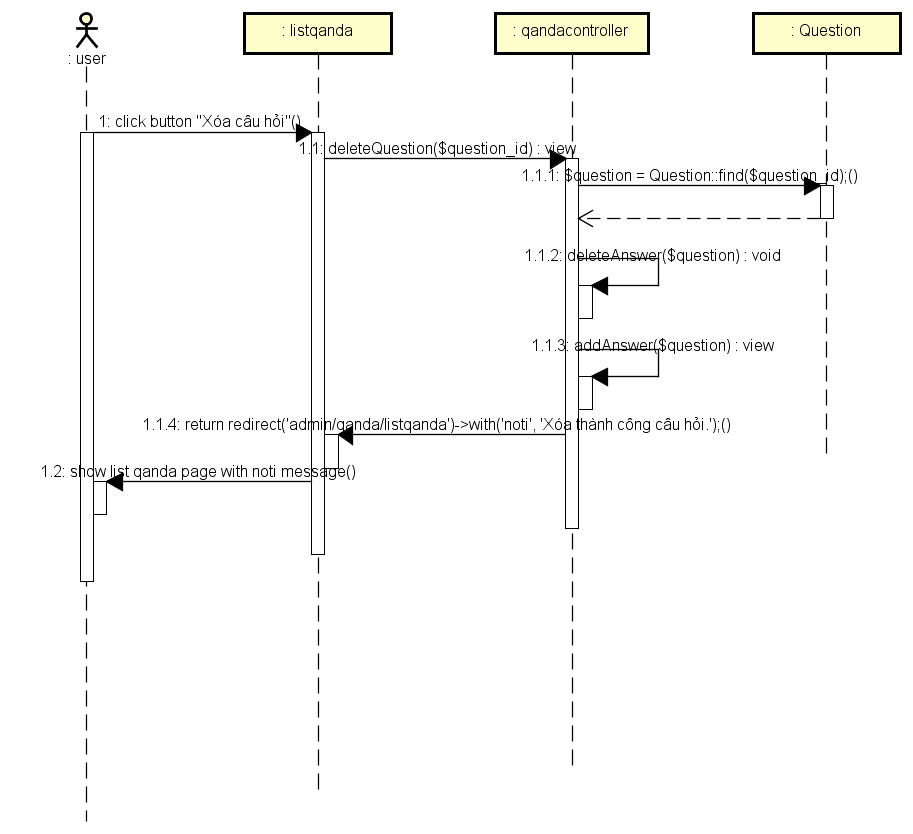


#### Sequence diagram

##### Answer question

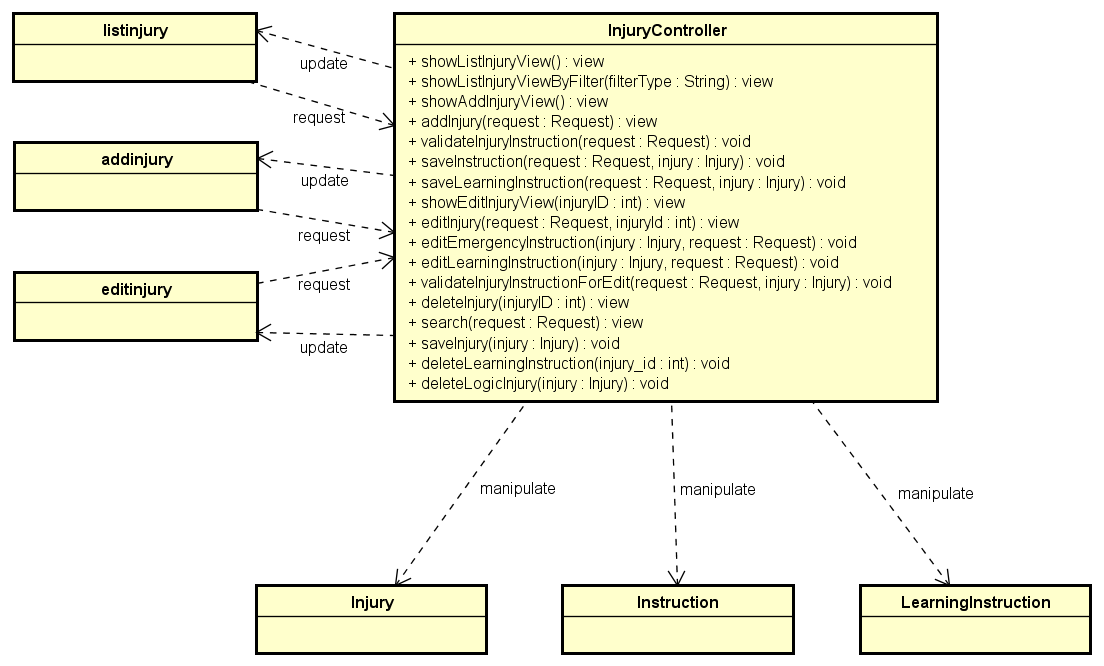


##### Delete question



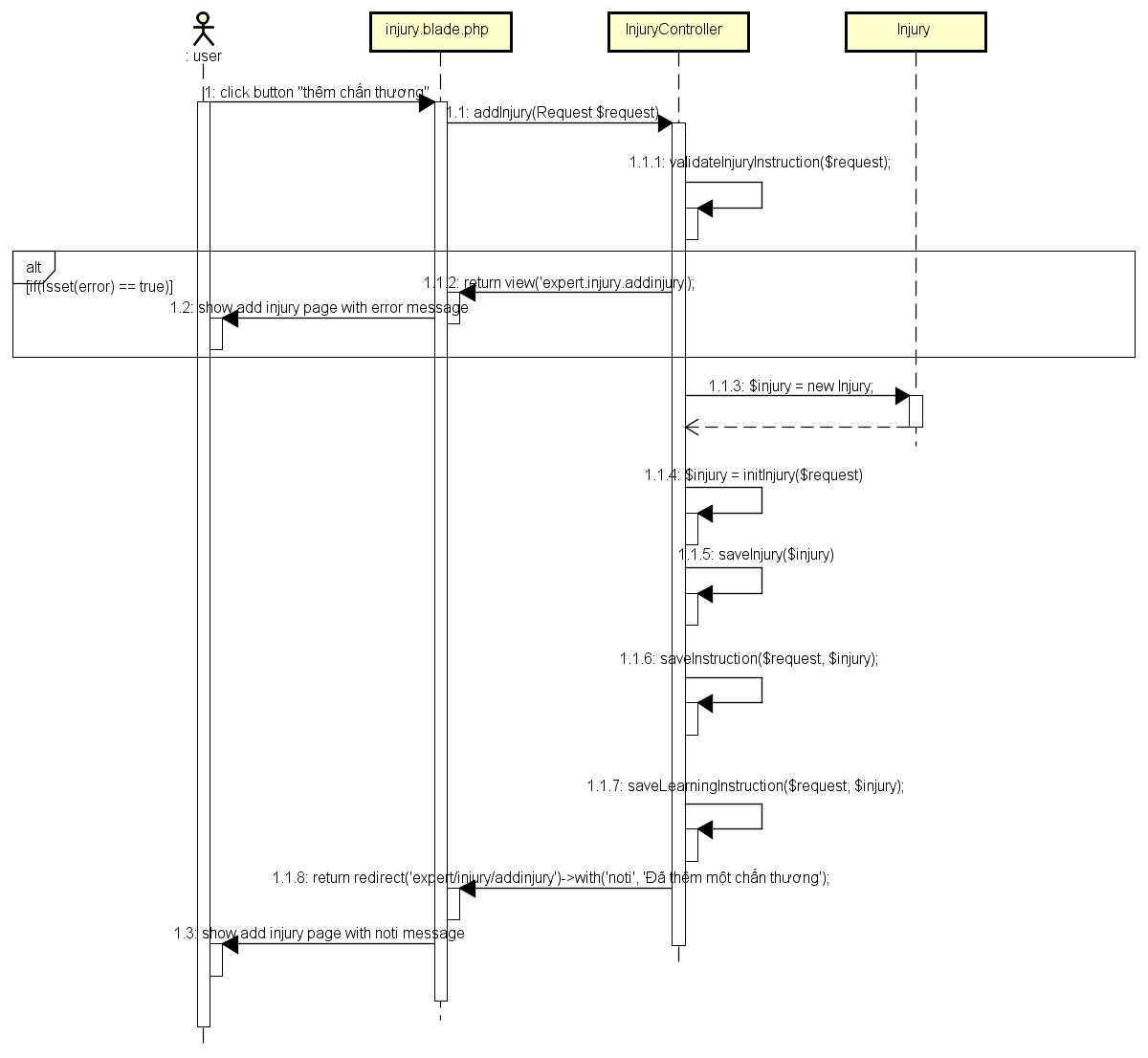
### Manage injury

#### Class diagram

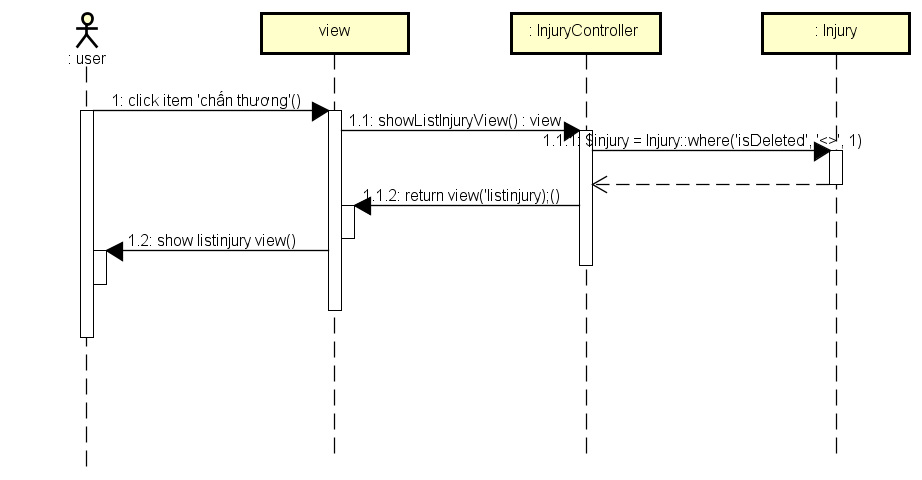


#### Sequence diagram

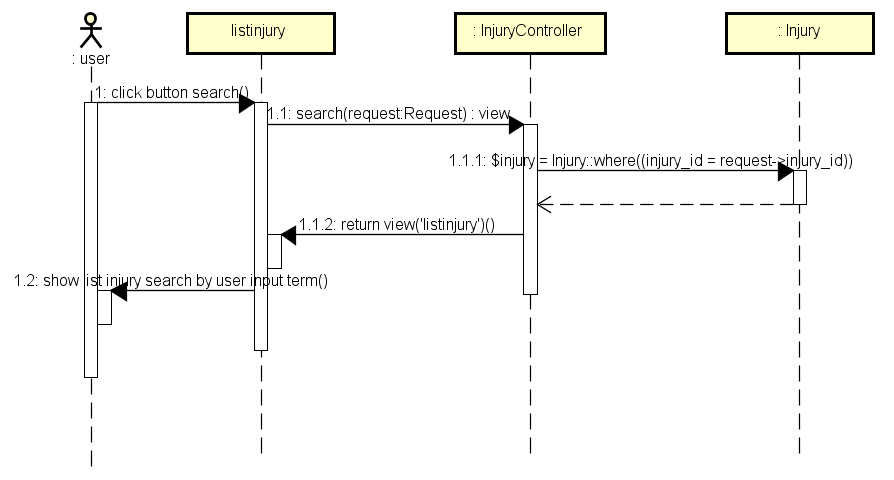
##### Add new injury



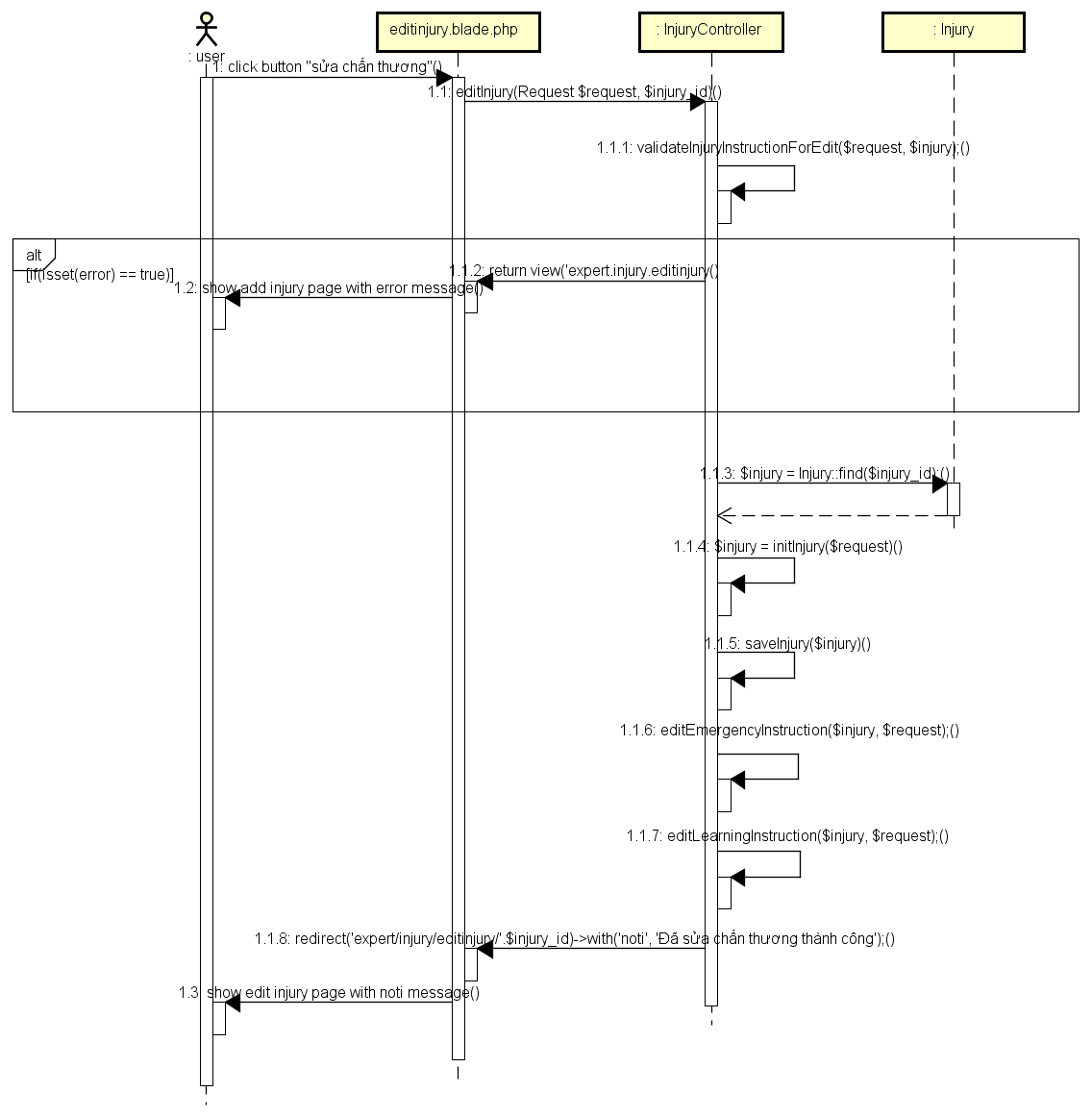
##### View list of injuries



##### Search injury



##### Update injury



##### Delete injury

