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| |  |  |  |  | | --- | --- | --- | --- | |  | | **MINISTRY OF EDUCATION AND TRAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Online Medical Consultant System |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 02 – Report 04** | | | **Group member** | Trần Nguyên Tiến Sứ - Team Leader - SE60781  Trần Cao Danh - Team Member - SE60705 | | **Supervisor** | Mr. Nguyễn Huy Hùng | | **Ext. Supervisor** | N/A | | **Capstone Project code** | OMCS | | |
| * Ho Chi Minh City, 20 June / 2014 – |

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# Definitions, Acronyms, and Abbreviations

# 

# Report No.4: Software Design Description (SDD)

## Design Overview

* This document describes the technical and user interface design of. It includes the architectural design, the detailed design of common functions and business functions and the design of database model.
* The architectural design describes the overall architecture of the system and the architecture of each main component.
* The detailed design describes static and dynamic structure for each component and functions. It includes class diagrams, class explanations and sequence diagrams for each use cases.
* The database design describes the relationships between entities and details of each entity.

## System Architectural Design

### Choice of system architecture



Figure : MVC Architecture

**(http://smist08.wordpress.com/tag/mvc/)**

**The Model** is the part of the application that handles the logic for the application data.  
Often model objects retrieve data (and store data) from a database.

**The View** is the parts of the application that handles the display of the data.  
Most often the views are created from the model data.

**The Controller** is the part of the application that handles user interaction.  
Typically controllers read data from a view, control user input, and send input data to the model.

**(**<http://www.w3schools.com/aspnet/mvc_intro.asp>**)**

### Description of System Interface

#### User interfaces

* Web-based user interfaces that rely on Bootstrap. Focusing on user experience

#### Hardware interfaces

* The OMCS is intended as a website runs well on all modern web browsers. The website should be deployed online and accessible on any computer using different Operation Systems. At present, OMCS does not have mobile version.

#### Software interfaces

* The system should be able to run on any browser supported HTML 5.
* Any service exposed by the system should be accessible using HTTP protocol.

#### Communication interfaces

* The system uses HTTP protocol to communicate between server and clients.

## Component Diagram

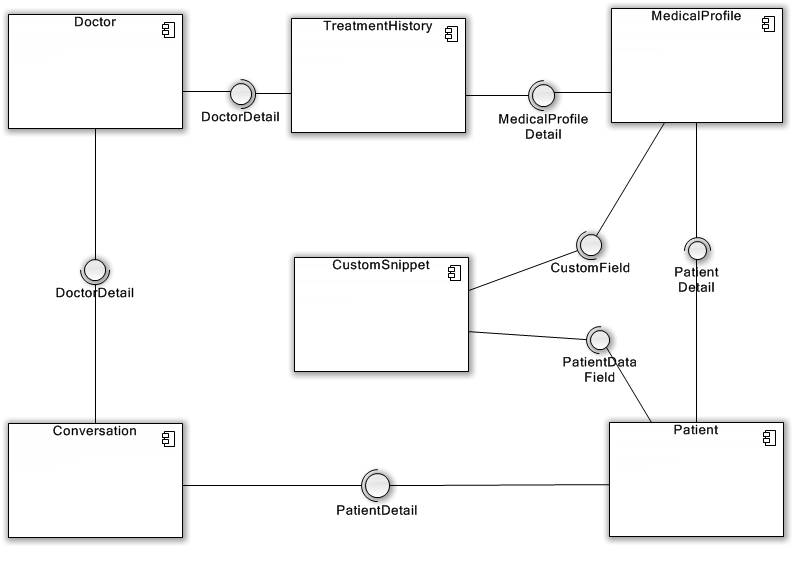


Figure 2: Component Diagram

## Detailed Description of Components

### Class Diagram

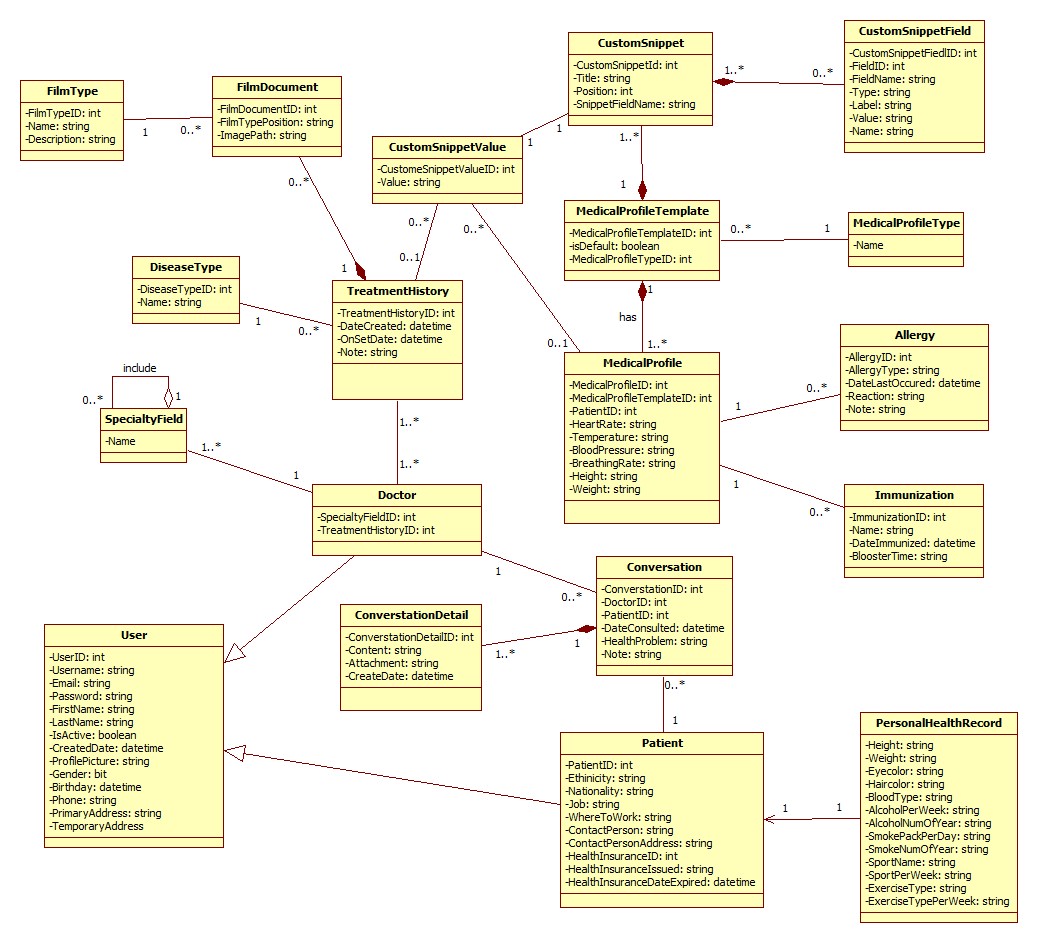


Figure 3: Class Diagram

## Sequence Diagram

### <Guest> Login

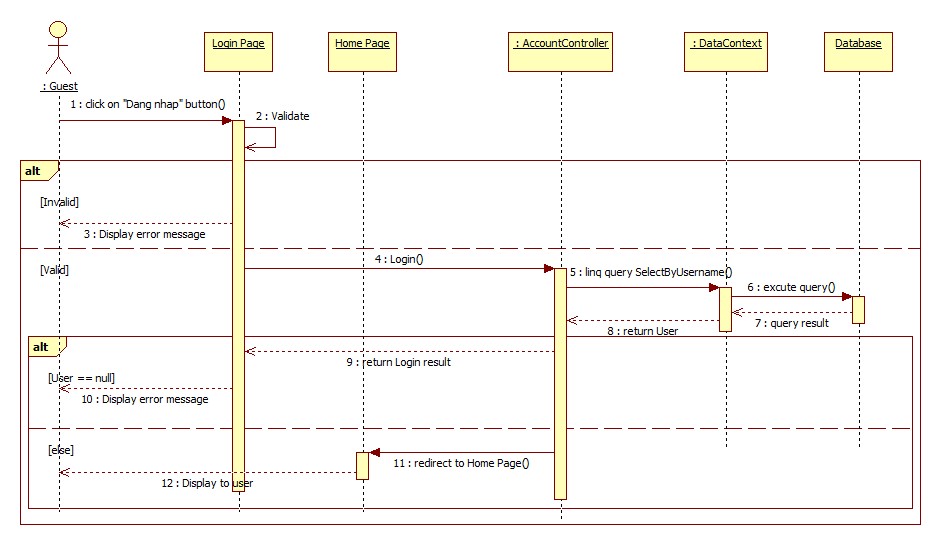


Figure 4: <Guest> Login Sequence Diagram

### <Guest> Register

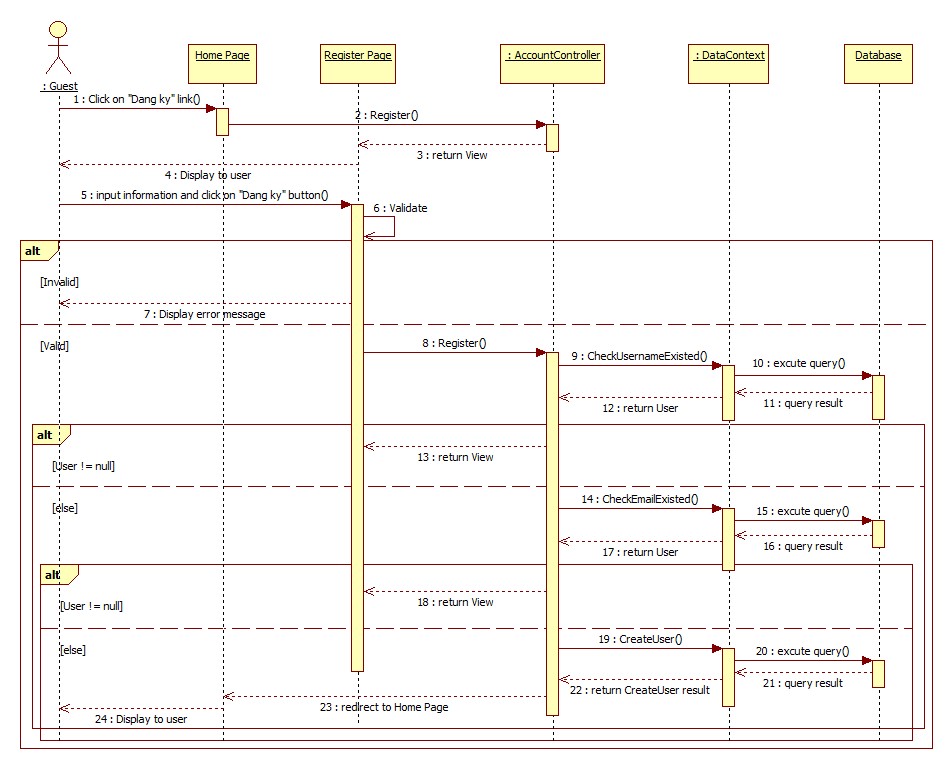


Figure 5: <Guest> Register Sequence Diagram

### <Authorized User> Change Password

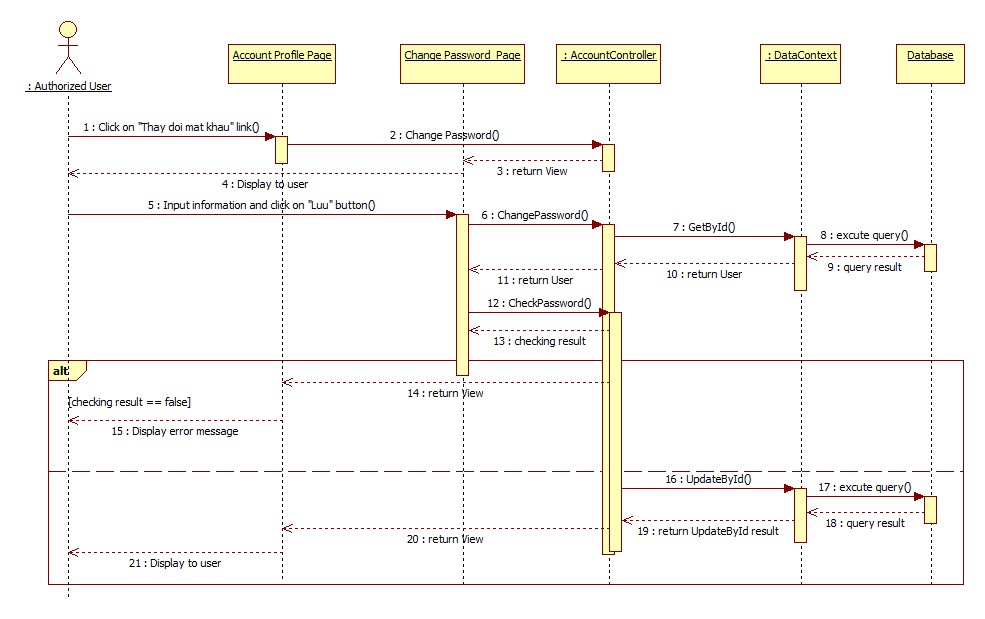


Figure 6: <Authorized User> Change Password Sequence Diagram

### <Authorized User> Change Profile Picture

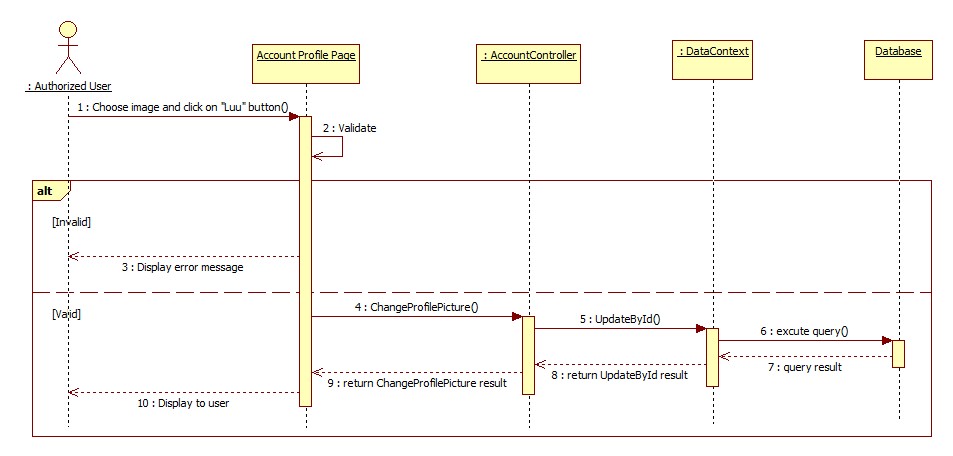


Figure 7: <Authorized User> Change Profile Picture Sequence Diagram

### <Patient> Conversation

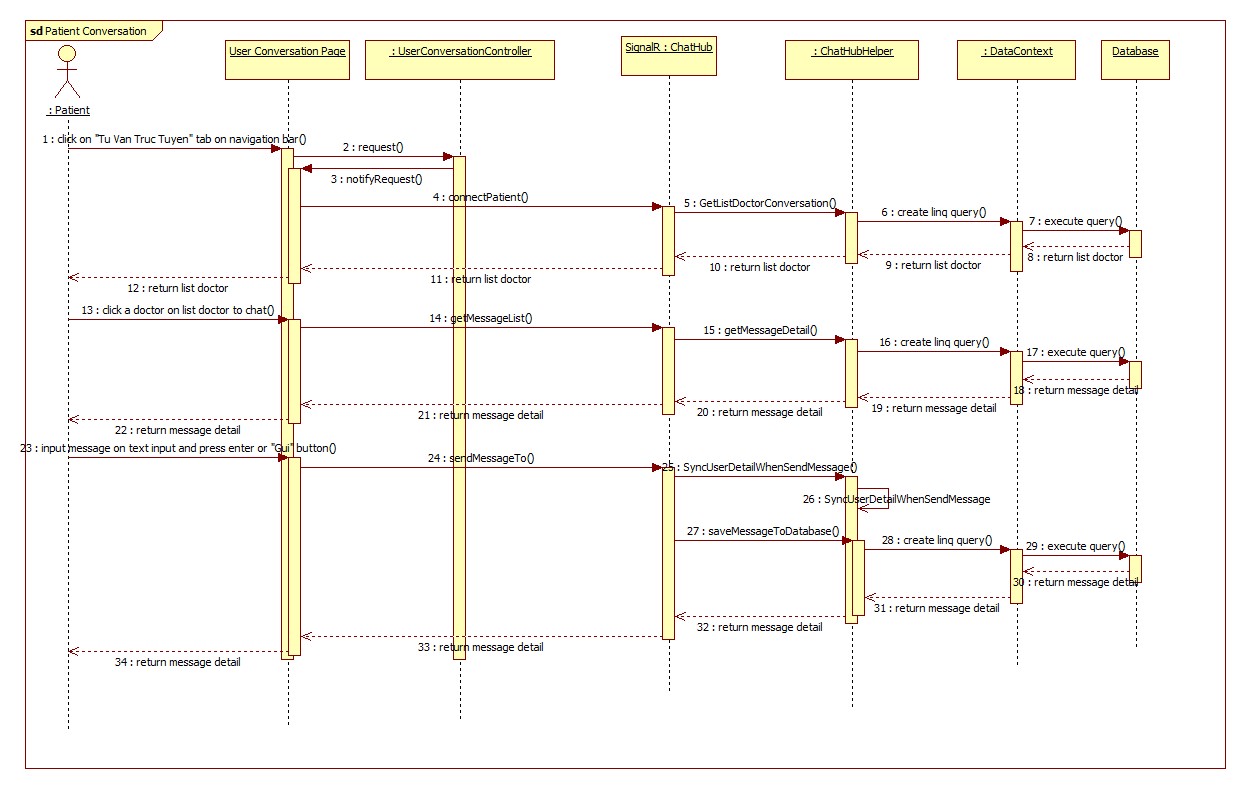


Figure 8: <Patient> Conversation Sequence Diagram

### <Doctor> Request Webcam

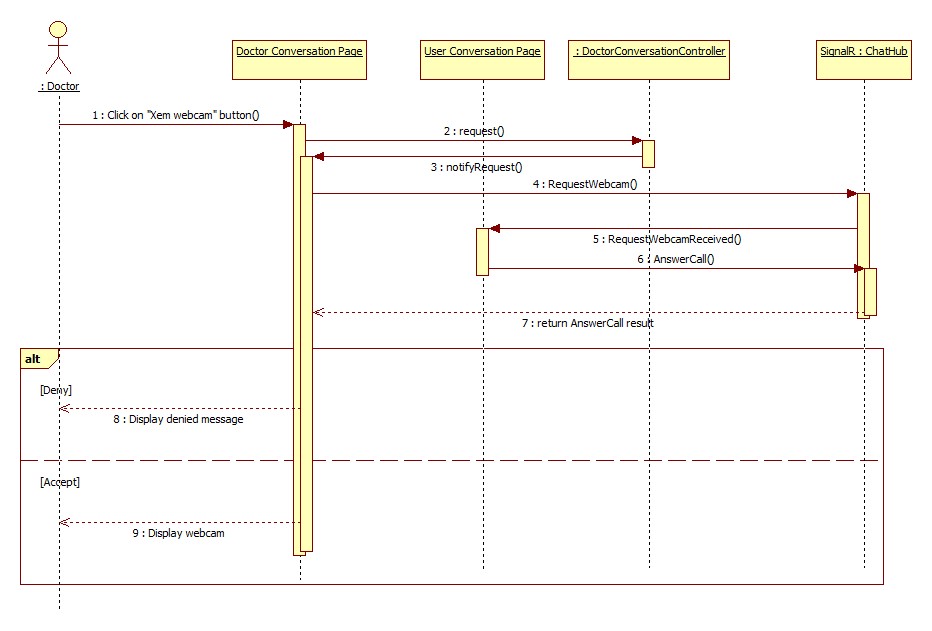


Figure 9: <Doctor> Request Webcam Sequence Diagram

### <Patient> Show Webcam

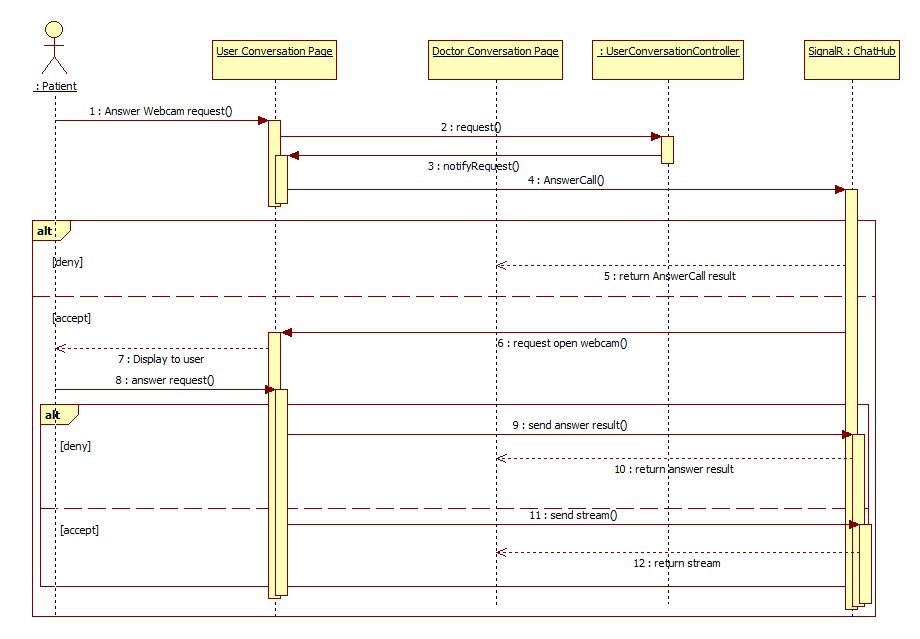


Figure 10: <Patient> Show Webcam

### <Patient> Upload Attachment

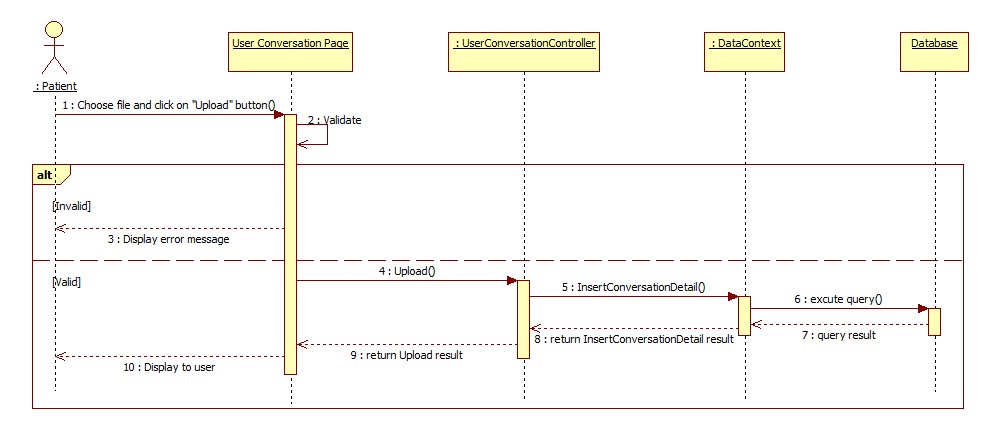


Figure 11: <Patient> Upload Attachment

### <Admin> Define New Medical Profile Template

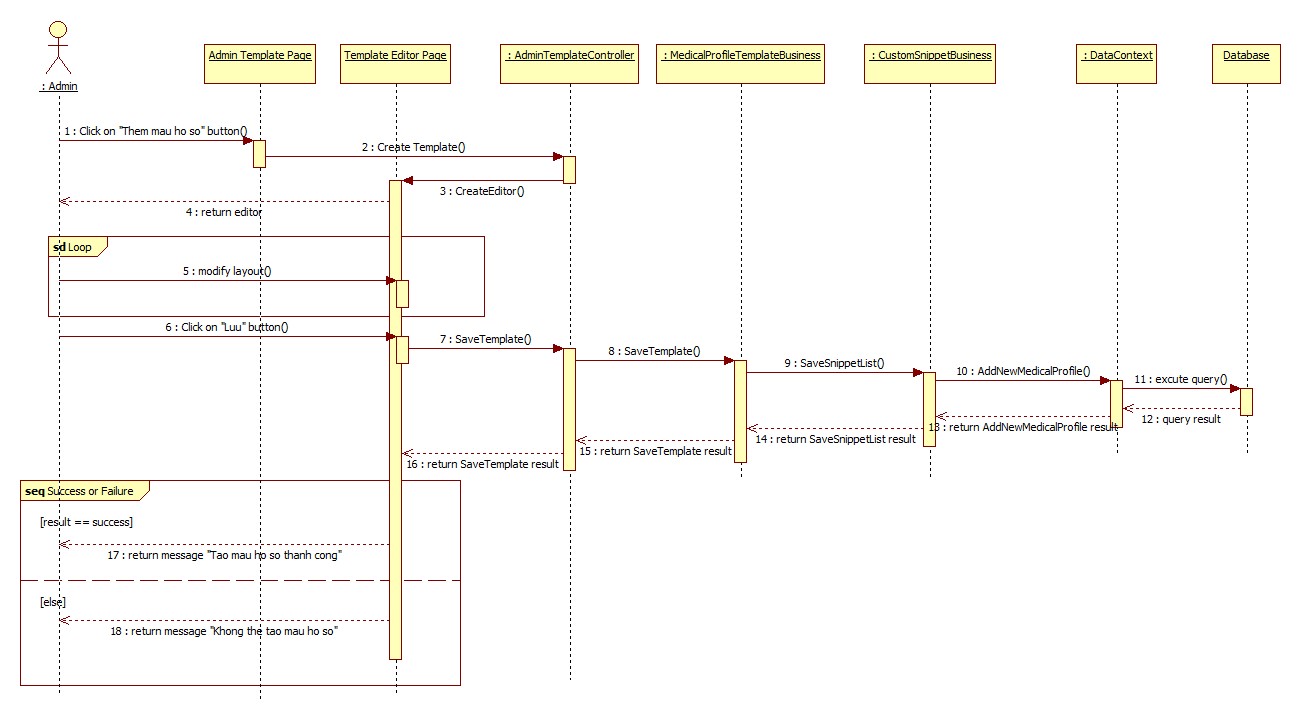
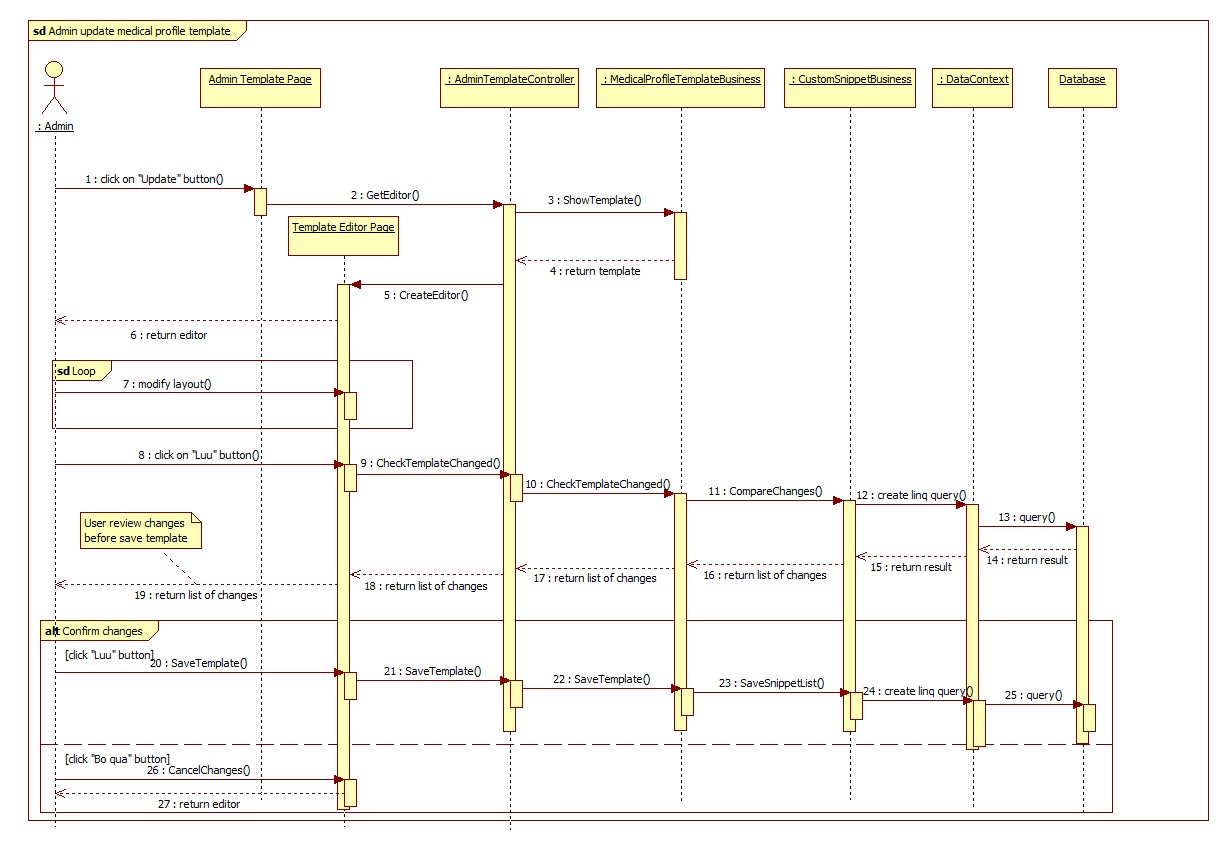


Figure 12: <Admin> Define New Medical Profile Template

### <Admin> Update Medical Profile Template



### <Doctor> Update Medical Profile

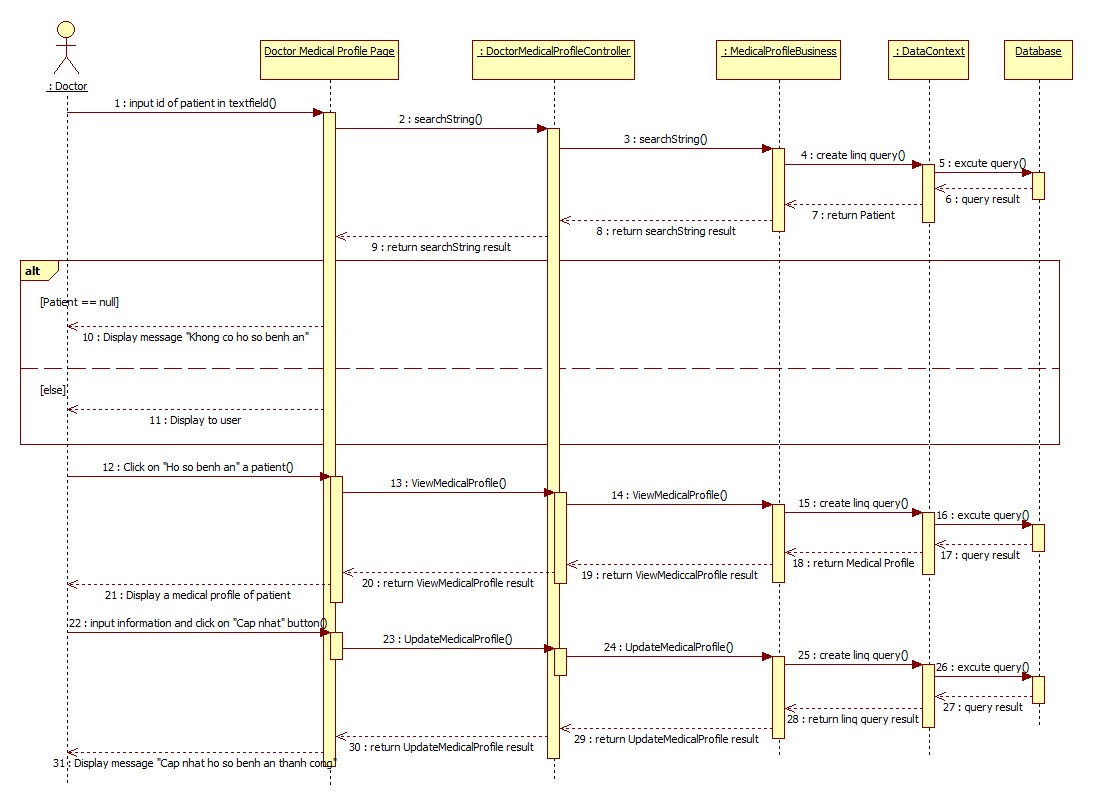


Figure : <Doctor> Update Medical Profile

### <Doctor> Views Medical Profile

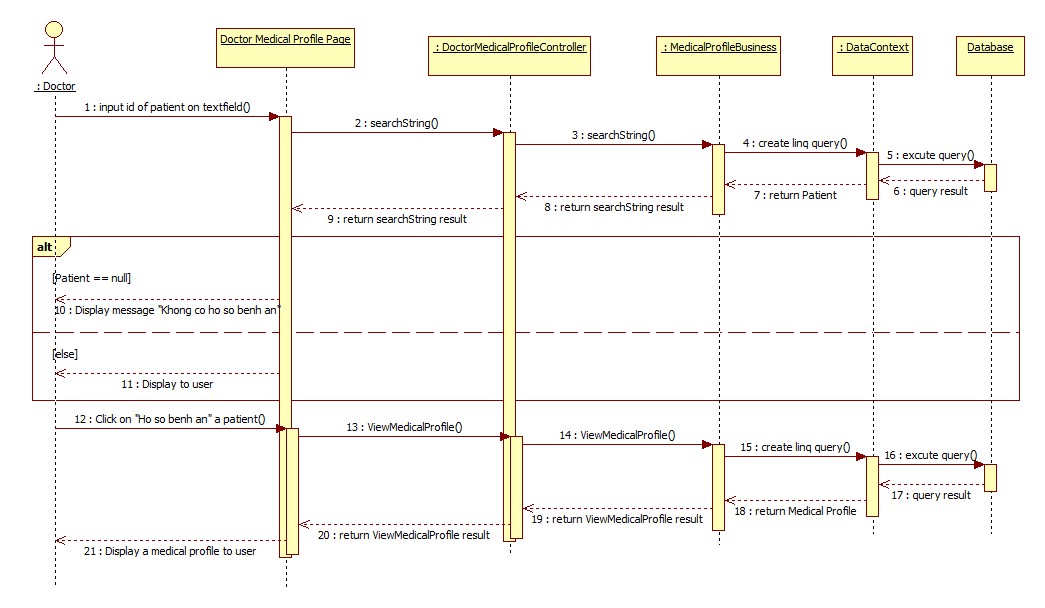


Figure 14: <Doctor> Views Medical Profile

### <Patient> Update Personal Health Record

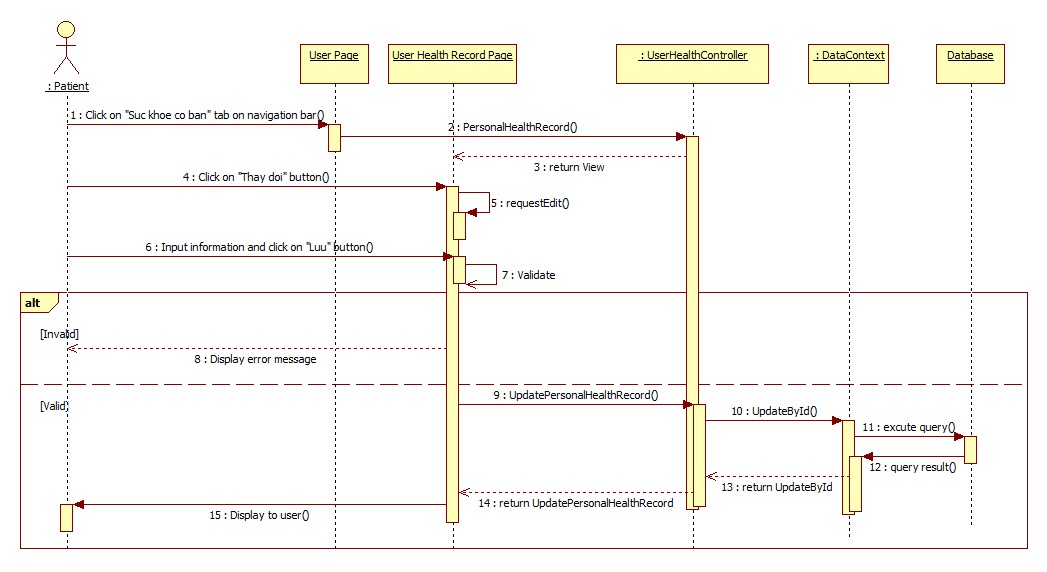


Figure : <Patient> Update Personal Health Record

### <Patient> View medical Profile Record

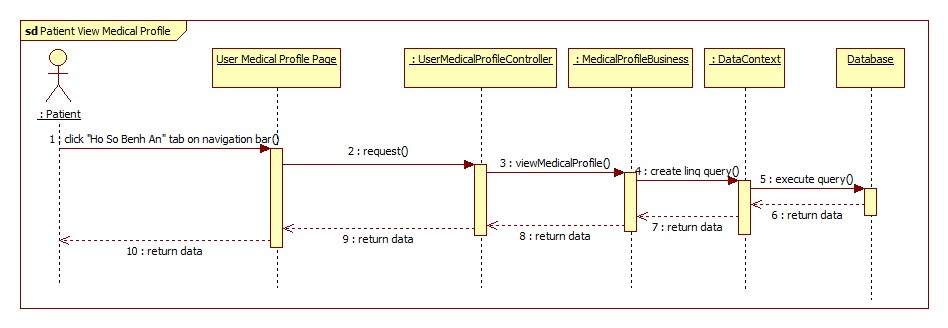


Figure 9: <Patient> View Medical Profile Record

## User Interface Design

## Database Design

