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| |  |  |  |  | | --- | --- | --- | --- | |  | | **MINISTRY OF EDUCATION AND TRAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Online Medical Consultant System |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 02 – Report 03** | | | **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, 11 May / 2014 – |

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# Definitions, Acronyms, and Abbreviations

# 

# Report 3: System Requirements Specifications (SRS)

## User Requirement Specification

**OMCS** is a website that provides the convenient way by let patient communicate face-to-face with health care provider via social media. It helps improving the processes of medical treatment.

There are two module need to be implemented:

* Front end: This part is served for patients and doctors. It helps them communicate effectively. Doctor can create medical profile for patient so he/she not only can track the patient’s medical process and but also can advise accordingly.
* Back end: this part is served for admins. Admins will control important activities in the system such as managing medical profile, creating medical form …

## System Requirement Specification

### External Interface Requirements

#### User Interfaces

#### Main Page

#### Login Screen

* For users that have account.
* Prompts the user to input their account information to login.
* Notifies the user if their information is invalid.

#### Register Screen

* For users that do not have account.
* Prompts the user to input required information to create a new account.
* Notifies the user if the input information is invalid.

#### Admin Page

* Show all subpages that the admin manages.
* Logout to exit admin page.

#### Hardware Interfaces

The **OMCS** is intended as a website runs well on all web browsers. At present, **OMCS** does not have mobile version.

#### System Interfaces

#### Communications Protocol

### Functional Requirements

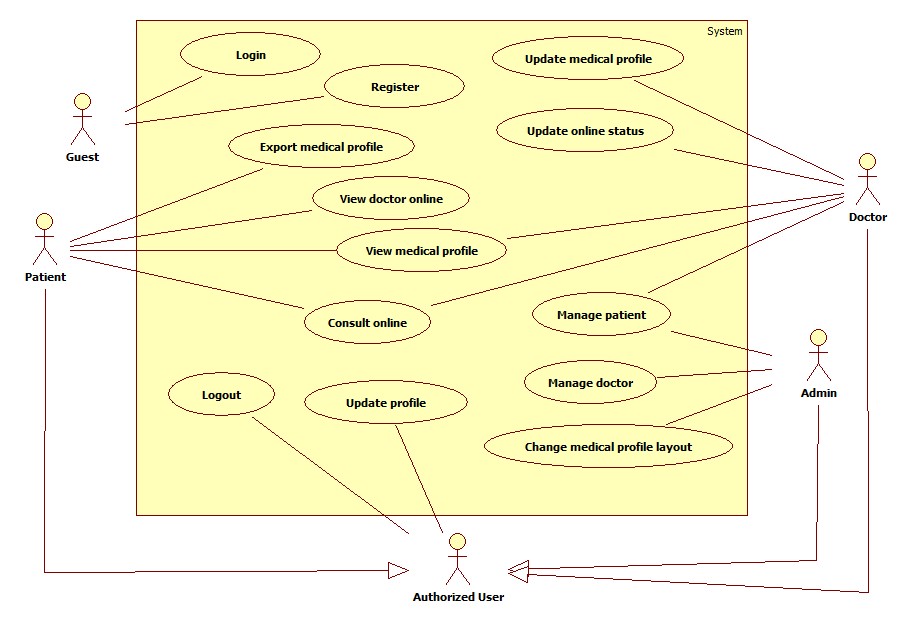


Figure 1 System Use Case Overview

****

Figure 2 <Admin> Use Case Overview

****

**Doctor’s Use Case Diagram**

****

**Patient’s Use Case Diagram**

****

**Guest’s Use Case Diagram**

****

**Authorized User’s Use Case Diagram**

#### Functional Requirement 1 - Login

#### Use Case-1 Diagram



Figure 3 <Guest> Login

#### Use Case-1 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 1 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_001 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Login | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Guest   **Summary:** Log in into system  **Goal:** Check user’s role to use system’s functions.  **Triggers:**Click on “Đăng nhập” link to log in  **Preconditions:**   * Page is loaded successfully. * Users are in “Đăng nhập” page.   **Post-Conditions:**   * Success: member login successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click “Đăng nhập” link on “Trang chú” page. | * Redirect to “Đăng nhập” page. * Display form to input login information. | | 2 | User fills username and password. |  | | 3 | User clicks on “Đăngnhập” button. | * Validate username and password. * Redirect to “Trang chủ” page. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When user fills wrong username or password. | Display a hint message “Tên đăng nhập hoặc mật khẩu không đúng, xin thử lại". | | 2 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 3 | Username or password is blank. | Show message: “Tên đăng nhập hoặc mật khẩu không đuợc để trống”. |   **Relationship:** N/A  **Business Rules:**   * Each patient, doctor, admin has an account. * Only active account can log in. * After 5 times wrong, the system will lock account for 30 minutes. | | | | |

Table 1<Guest> Login

#### Functional Requirement 2 - Register

#### Use Case-2 Diagram



#### Use Case-2 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 2 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_002 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Register | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Guest   **Summary:** User uses this function to register into system.  **Goal:** Help guest to create an account on website.  **Triggers:**Click on “Đăng ký” to register.  **Preconditions:**   * Page is loaded successfully * Register page will be shown   **Post-conditions:**   * Guest become member of website   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Đăng ký” link on homepage | * Display “Đăng ký” page. * Display a form to input registration information. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Đăng ký” button. | * Validate the inputted information. * Insert into database. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respnse | | 1 | “Tên đăng nhập” text-box is empty | Display message: “Bạn chưa điền tên đăng nhập. Xin vui lòng thử lại”. | | 2 | When user fills username is more than 15 characters or less than 8 characters | Display message “Tên đăng nhập phải từ 8 đến 15 ký tự. Xin vui lòng thử lại”. | | 3 | When user fills exist username | Display message “Tên đăng nhập bạn chọn đã được sử dụng, xin vui lòng thử tên khác”. | | 4 | Mandatory field which have a mark ”\*” is empty | Display message “Thông tin của bạn chưa đúng”. | | 5 | When user fills password is more than 15 characters or less than 8 characters | Display message “Mật khẩu phải từ 8 đến 15 ký tự. Xin vui lòng thử lại”. |   **Relationship:** N/A  **Business Rules:**   * Each created account must be inactive and has role “patient”. * Each created account will be active when users active theirs account through email. | | | | |

#### Functional Requirement 3 - Export Medical Profile

#### Use Case-3 Diagram



#### Use Case-3 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 3 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_003 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Export Medical Profile | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about exporting medical profile for a patient.  **Goal:** Patient can export a medical profile.  **Triggers:** Patient clicks on “Xuất hồ sơ bệnh án**”** button on “Hồ sơ bệnh án” page.  **Preconditions:**   * Page is load successfully. * User must log in with role “Patient”.   **Post-Conditions:**   * Success: Export medical profile successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Xuất hồ sơ bệnh án” button. | Display “Chi tiết xuất**”** pop-up page**.** This page includes location, file type for user to choose easily. | | 2 | Choose file type and location to export. |  | | 3 | Clicks “Xuất”button. [Alternative 1] | Display message “Xuất thành công”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button | Close “Chi tiết xuất” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User doesn’t choose location, file type. | Display message “Đề nghị chọn đường dẫn, loại file xuất ra”. | | 2 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** View Medical Profile  **Business Rules:**   * Doctor supplies some medical profile for patient. * Patient has a complete medial profile (required field must be filled). | | | | |

#### Functional Requirement 4 - View Medical Profile

#### Use Case-4 Diagram



#### Use Case-4 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 4 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_004 | **Use-case Version** | | **1.0** |
| **Use-case Name** | View Medical Profile | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient * Admin   **Summary:** This use case is about Viewing medical profile for a patient.  **Goal:** Patient can view a medical profile.  **Triggers:** Patient clicks on “Xem hồ sơ bệnh án**”** button on “Bệnh nhân” page or “Admin” page.  **Preconditions:**   * User must log in with role “Patient” or “Admin”.   **Post-Conditions:**   * Page load successfully.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Xem hồ sơ bệnh án” button. [Alternative 1] | Display “Hồ sơ bệnh án**”** pop-up page**.** This page shows medical profile details. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ qua” button. | Close “Hồ sơ bệnh án” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Internet connection has problem. | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại.” |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

#### Functional Requirement 6 – Chat

#### Use Case-6 Diagram



#### Use Case-6 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 6 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_006 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Chat | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor * Patient   **Summary:** This use case is about chatting between doctor and patient.  **Goal:** User can send message to each other.  **Triggers:**   * Doctor is on “Tin nhắn” page and patient is on “Tư vấn trực tuyến” page. * User input to text-box and clicks on “Gửi” button to send message.   **Preconditions:**   * User must log in with role “Doctor” or “Patient”. * User is on chat window.   **Post-Conditions:**   * Success: Send and receive message successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User inputs message to text-box and clicks on “Gửi” button. | Send message to chat partner and display that message for him/her. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** Consult online  **Business Rules:** N/A | | | | |

#### Functional Requirement 6 – Request Webcam

#### Use Case-6 Diagram



#### Use Case-6 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 6 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_006 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Request Webcam | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:** This use case is about Requesting webcam when chatting.  **Goal:** User can request showing webcam.  **Triggers:**   * User clicks on “Xem webcam” button on chat window.   **Preconditions:**   * User must log in with role “Doctor”. * User is on chat window.   **Post-Conditions:**   * Success: Send request successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Xem webcam” button. | Display message “Bác sĩ gửi yêu cầu xem webcam” on chat window. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** Consult online  **Business Rules:**   * User can’t send the next request when patient doesn’t answer. | | | | |

#### Functional Requirement 6 – Show Webcam

#### Use Case-6 Diagram



#### Use Case-6 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 6 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_006 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Show Webcam | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about Showing webcam when chatting.  **Goal:** User can show webcam.  **Triggers:**   * User receives request “Xem webcam” from doctor on chat window. * User clicks on “chấp nhận” button and allows open webcam on website.   **Preconditions:**   * User must log in with role “Patient”. * Receive a request “xem webcam”.   **Post-Conditions:**   * Success: Show webcam successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Chấp nhận” button on “Yêu cầu xem webcam” pop-up page. [Alternative 1] | Display request “Mở webcam” on patient’s page. | | 2 | User clicks “Cho phép”. [Alternative 2] |  | | 3 |  | * Display user’s webcam. * Send webcam to doctor. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Từ chối” button. | Send message “Yêu cầu bị từ chối” to doctor. | | 2 | User clicks on “Từ chối” button. | Display message “Webcam hiện không được mở”. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” | | 2 | Webcam was not found. | Display message “Không tìm thấy webcam từ máy bệnh nhân”. |   **Relationship:** Consult online  **Business Rules:**   * Patient has webcam. | | | | |

#### Functional Requirement 7 – Upload Attachment

#### Use Case-7 Diagram



#### Use Case-7 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 7 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_007 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Upload Attachment | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about Uploading attachment for user when chatting.  **Goal:** User can upload attachment when chatting.  **Triggers:** User clicks on “Gửi tập tin**”** button on chatwindow.  **Preconditions:**   * User must log in with role “Patient”. * User is on chat window.   **Post-Conditions:**   * Success: Upload attachment successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Gửi tập tin” button on chat window. | Show “Chọn tập tin để gửi” window. This window will help user access to the file that user want to attach. | | 3 | User chooses the file and clicks “Save” button. [Alternative 1] | The system will give a link to the doctor for downloading the file. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Cancel” button | Back to chat windows and no file is attached |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | File size is larger than specified file. | Display message “Tập tin lớn hơn quy định. Vui lòng chọn tập tin phù hợp với yêu cầu” | | 2 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** Consult Online  **Business Rules:**   * Image file can be showed directly on chat window. | | | | |

#### Functional Requirement 7 – View Consulting History

#### Use Case-7 Diagram



#### Case-7 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 7 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_007 | **Use-case Version** | | **1.0** |
| **Use-case Name** | View Consulting History | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about Showing consulting history.  **Goal:** User can view consulting history.  **Triggers:** User clicks on “Lịch sử tư vấn**”** link on “Người dùng” page.  **Preconditions:**   * User must log in with role “Patient”.   **Post-Conditions:**   * Success: Consulting history is show successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Lịch sử tư vấn” link. | * Redirect to “Lịch sử tư vấn” page. * System will show a list of conversation as a grid and order by consulted date. | | 3 | User chooses the conversation and clicks on “Xem” button. | * Open “Chi tiết hội thoại” pop-up page. [Alternative 1] * Display conversation between doctor and patient from consulted date. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ qua” button | Close “Chi tiết hội thoại” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** Consult Online  **Business Rules:** N/A | | | | |

#### Functional Requirement 8 – View Doctor Online

#### Use Case-8 Diagram

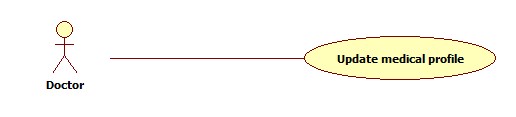


#### Use Case-8 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 8 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_008 | **Use-case Version** | | **1.0** |
| **Use-case Name** | View doctor online | | | |
| **Author** | DangTH | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about viewing doctor online for a patient.  **Goal:** Patient can view doctor online.  **Triggers:** Patient goes to “Tư cấn trực tuyến” page and online doctor will have online status.  **Preconditions:**   * Page load successfully. * User must log in with role “Patient”.   **Post-Conditions:**   * Success: Online doctors appear in the list with online icon. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Tư vấn trực tuyến” link. | * Show the list of doctor and doctors will be grouped by speciality. * Online doctor will have online icon. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Database connection has problem | Display message:”Hệ thống gặp trục trặc. Xin vui lòng thử lại!” | | 2 | Internet connection has problem | Display message “Đường truyền internet gặp trục trặc. Xin vui lòng thử lại!” |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

#### Functional Requirement 10 – Update medical profile

#### Use Case-10 Diagram

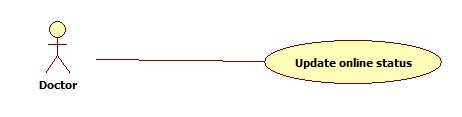


#### Case-10 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 10 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_010 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Update medical profile | | | |
| **Author** | DanhTC | | | |
| **Date** | 30/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:** This use case is doctor update medical profile.  **Goal:** Doctor can update medical profile.  **Triggers:** Doctor clicks on “Cập nhật hồ sơ bệnh án**”** button on “Hồ sơ bác sĩ”page.  **Preconditions:** User must be logged - in as “Doctor”.  **Post-Conditions:**   * Success: A medical profile is updated in the system. * Failure: The doctor is presented with an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User logged – in as “Doctor” and clicks on “Update medical profile” button on “Hồ sơ bác sĩ” page. | Display “Update medical profile” page with patient’s fields has been added to doctor can edit and update. | | 2 | Input suitable fields want to update and click on “Lưu” button. | * Validate input data. * Redirect to “Hồ sơ bác sĩ” page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Exit criteria from main flow: 4 validate input data fails | Exit criteria from main flow: 4 validate input data fails. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

#### Functional Requirement 11 – Update medical profile

#### Use Case-11 Diagram



#### Use Case-11 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 11 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_011 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Update online status | | | |
| **Author** | DanhTC | | | |
| **Date** | 30/05/2014 | **Priority** | Normal | |
| **Actor:** Doctor  **Summary:** This use case is doctor update online status.  **Goal:** Doctor can update online status.  **Triggers:** User clicks on “Cập nhật trạng thái**”** button on **Doctor Profile** page.  **Preconditions:** User must be logged - in as “Doctor”.  **Post-Conditions:**   * Success: Change status doctor. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User logged – in as “Doctor” and clicks “Update online status” button on **Doctor Profile** page. | Display drop down list of status such as: online, offline, busy to update online status. | | 2 | Choose online status. |  |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

#### Functional Requirement 13 – Create Doctor

#### Use Case-13 Diagram



#### Use Case-13 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Create Doctor | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case allows admin can create new doctor.  **Goal:** Help admin to create new doctor account.  **Trigger:** Click on “Tạo Mới” button on “Quản lý bác sĩ” page.  **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: New doctor is inserted into database. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Tạo Mới” button on “Quản lý bác sĩ” page. | * Open “Tạo mới bác sĩ” pop-up page. * Display input fields. | | 2 | User fills all mandatory fields. |  | |  | User clicks on “Lưu” button. [Alternative 1] | * Validate input data. * Redirect to “Quản lý bác sĩ” page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button | Close “Tạo Mới” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. | | 3 | Fail to insert into database | Display message “Có lỗi xảy ra. Vui lòng thử lại”. |   **Relationship:** Manage Doctor  **Business Rules:**   * Created account is active and has role “Doctor”. | | | | |

#### Functional Requirement 13 – Edit Doctor

#### Use Case-13 Diagram



#### Use Case-13 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Edit Doctor | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case allows admin can edit doctor information.  **Goal:** Help admin to edit doctor account.  **Trigger:** Click on “Cập Nhật” button on “Quản lý bác sĩ” page.  **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: Doctor’s information is updated in database. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Cập Nhật” button on “Quản lý bác sĩ” page. | * Open “Cập nhật” pop-up page. * Display input fields. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Lưu” button. [Alternative 1] | * Validate input data. * Redirect to “Quản lý bác sĩ” page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button | Close “Cập nhật” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. | | 3 | Fail to update in database | Display message “Có lỗi xảy ra. Vui lòng thử lại”. |   **Relationship:** Manage Doctor  **Business Rules:**   * Username is forbidden. | | | | |

#### Functional Requirement 13 – Search Doctor

#### Use Case-13 Diagram



#### Use Case-13 Specification

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| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Search Doctor | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case allows admin can search doctor.  **Goal:** Help admin to search doctor account.  **Trigger:**   * In search screen, user inputs username/full name of doctor then they search all doctor with relative username/full name which they inputted. The searching results will show a list of doctor which follow doctor account’ created date. * User input to a blank text-box then clicks on “Tìm Kiếm” button.   **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: Show search results which include a list of doctor. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User inputs the doctor’s username/full name into text-box. |  | | 2 | User clicks on “Tìm Kiếm” button. | * System will show a list of doctor as a grid and order by doctor account’s created date. [Alternative 1] * A doctor will show in a line as a record with these information: * First column is username. * Second column is full name. * Third column is status. * Fourth column is created date. * Fifth column has 2 buttons: “Cập Nhật” and “Vô Hiệu/Kích Hoạt”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | No record found. | Display no record. |   **Exception:** N/A  **Relationship:** Manage Doctor  **Business Rules:**   * Search by doctor’s username/full name, using containing text search. | | | | |

#### Functional Requirement 14 – Deactivate Doctor

#### Use Case-14 Diagram



#### Use Case-14 Specification

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| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Deactivate Doctor | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:** Admin  **Summary:** This use case is about deactivating doctor account.  **Goal:** Help admin to deactivating a doctor account.  **Trigger:** Click on “Vô Hiệu” button corresponding with each doctor account in the doctor account list of “Quản lý bác sĩ” page.  **Precondition:**   * “Quản lý bác sĩ” page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: The doctor account is deactivated and can’t log in. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Vô Hiệu” button | * The corresponding doctor account change to “Bị Khóa” status. * “Vô Hiệu” button change to “Kích Hoạt” button. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. |   **Relationship:** Manage Doctor  **Business Rules:**   * Admin can’t activate/deactivate account of themselves or other admins. | | | | |

#### Functional Requirement 14 – Activate Doctor

#### Use Case-14 Diagram



#### Use Case-14 Specification

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| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Activate Doctor | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:** Admin  **Summary:** This use case is about activating doctor account.  **Goal:** Help admin to activating a doctor account.  **Trigger:** Click on “Kích Hoạt” button corresponding with each doctor account in the doctor account list of “Quản lý bác sĩ” page.  **Precondition:**   * “Quản lý bác sĩ” page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: The doctor account is activated and can log in. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Kích Hoạt” button | * The corresponding doctor account change to “Hoạt Động” status. * “Kích Hoạt” button change to “Vô Hiệu” button. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. |   **Relationship:** Manage Doctor  **Business Rules:**   * Admin can’t activate/deactivate account of themselves or other admins. | | | | |

#### Functional Requirement 13 – Create Patient

#### Use Case-13 Diagram



#### Case-13 Specification

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| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Create Patient | | | |
| **Author** |  | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Doctor   **Summary:** This use case allows admin/doctor can create new patient.  **Goal:** Help admin/doctor to create new patient account.  **Trigger:** Click on “Tạo Mới” button on “Quản lý bệnh nhân” page.  **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin” or “doctor”.   **Post-condition:**   * Success: New patient is inserted into database. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Tạo Mới” button on “Quản lý bệnh nhân” page. | * Open “Tạo mới bệnh nhân” pop-up page. * Display input fields. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Lưu” button. [Alternative 1] | * Validate input data. * Redirect to “Quản lý bệnh nhân” page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button | Close “Tạo Mới” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Fail to insert into database | Display message “Có lỗi xảy ra. Vui lòng thử lại”. |   **Relationship:** Manage Patient  **Business Rules:**   * Created account is active and has role “Patient”. | | | | |

#### Functional Requirement 13 – Edit Patient

#### Use Case-13 Diagram



#### Use Case-13 Specification

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| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Edit Patient | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Doctor   **Summary:** This use case allows admin/doctor can edit patient information.  **Goal:** Help admin/doctor to edit patient account.  **Trigger:** Click on “Cập Nhật” button on “Quản lý bệnh nhân” page.  **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin” or “doctor”.   **Post-condition:**   * Success: Patient’s information is updated in database. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Cập Nhật” button on “Quản lý bệnh nhân” page. | * Open “Cập nhật” pop-up page. * Display input fields. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Lưu” button. [Alternative 1] | * Validate input data. * Redirect to “Quản lý bệnh nhân” page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button | Close “Cập nhật” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Fail to update in database | Display message “Có lỗi xảy ra. Vui lòng thử lại”. |   **Relationship:** Manage Patient  **Business Rules:**   * Username is forbidden. | | | | |

#### Functional Requirement 13 – Search Patient

#### Use Case-13 Diagram



#### Use Case-13 Specification

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| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Search Patient | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Doctor   **Summary:** This use case allows admin/doctor can search patient.  **Goal:** Help admin/doctor to search patient account.  **Trigger:**   * In search screen, user inputs username/full name of patient then they search all patient with relative username/full name which they inputted. The searching results will show a list of patient which follow patient account’ created date. * User input to a blank text-box then clicks on “Tìm Kiếm” button.   **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin” or “doctor”.   **Post-condition:**   * Success: Show search results which include a list of patient. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User inputs the patient’s username/full name into text-box. |  | | 2 | User clicks on “Tìm Kiếm” button. | * System will show a list of patient as a grid and order by patient account’s created date. [Alternative 1] * A patient will show in a line as a record with these information: * First column is username. * Second column is full name. * Third column is status. * Fourth column is created date. * Fifth column has 2 buttons: “Cập Nhật” and “Vô Hiệu/Kích Hoạt”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | No record found. | Display no record. |   **Exception:** N/A  **Relationship:** Manage Patient  **Business Rules:**   * Search by patient’s username/full name, using containing text search. | | | | |

#### Functional Requirement 14 – Deactivate Patient

#### Use Case-14 Diagram



#### Use Case-14 Specification

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| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Deactivate Patient | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case is about deactivating patient account.  **Goal:** Help admin to deactivating a patient account.  **Trigger:** Click on “Vô Hiệu” button corresponding with each patient account in the patient account list of “Quản lý bệnh nhân” page.  **Precondition:**   * “Quản lý bệnh nhân” page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: The patient account is deactivated and can’t log in. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Vô Hiệu” button | * The corresponding patient account change to “Bị Khóa” status. * “Vô Hiệu” button change to “Kích Hoạt” button. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. |   **Relationship:** Manage Patient  **Business Rules:**   * Admin can’t activate/deactivate account of themselves or other admins. | | | | |

#### Functional Requirement 14 – Activate Patient

#### Use Case-14 Diagram



#### Use Case-14 Specification

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| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Activate Patient | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case is about activating patient account.  **Goal:** Help admin to activating a patient account.  **Trigger:** Click on “Kích Hoạt” button corresponding with each patient account in the patient account list of “Quản lý bệnh nhân” page.  **Precondition:**   * “Quản lý bệnh nhân” page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: The patient account is activated and can log in. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Kích Hoạt” button | * The corresponding patient account change to “Hoạt Động” status. * “Kích Hoạt” button change to “Vô Hiệu” button. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 2 | When session timeout. | Display an informed message “Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại”. |   **Relationship:** Manage Patient  **Business Rules:**   * Admin can’t activate/deactivate account of themselves or other admins. | | | | |

#### Functional Requirement 15 – Change Medical Profile Layout

#### Use Case-15 Diagram



#### Use Case-15 Specification

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| **USE CASE - 15 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_015 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Change Medical Profile Layout | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:** Admin  **Summary:** This use case is about change medical profile layout.  **Goal:** Help admin to change or update medical profile template.  **Trigger:** Click on “Thay đổi mẫu thông tin bệnh nhân” bệnh nhân on “managementpage”  **Precondition:**   * Page is loaded successfully. * Users have already logged in with role “admin”.   **Post-condition:**   * Success: Medical profile template updated. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 |  |  | | 2 |  |  | | 3 |  |  |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi.” | | 2 | When session timeout. | Display an informed message”Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại.” |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

#### Functional Requirement 16 – Change Picture Profile

#### Use Case-16 Diagram



#### Use Case-16 Specification

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| **USE CASE - 16 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_016 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Change Picture Profile | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Patient * Doctor   **Summary:** This use case is about change medical profile picture  **Goal:** Help user to change their medical profile picture  **Trigger:** Click on profile picture in “Hồ sơ” page and select “Thay đổi ảnh đại diện” to change medical profile picture.  **Precondition:**   * Page is loaded successfully. * Users have already logged in.   **Post-condition:**   * Success: User’s medical profile picture changed. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Ảnh đại diện” link on profile page and select “Thay đổi ảnh đại diện”. | Display a “change profile” picture box. | | 2 | Select a template profile picture or upload owner’s picture. |  | | 3 | User clicks on “Đồng ý” button. | * Validate input data. * Save to database * Show message “Bạn đã thay đổi ảnh đại diện thành công”. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi.” | | 2 | When session timeout. | Display an informed message”Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại.” | | 3 | File size is larger than permission size. | Display message “Kích cỡ file lớn hơn quy định.” |   **Relationship:** Update Profile  **Business Rules:** N/A | | | | |

#### Functional Requirement 17 – Change Password

#### Use Case-17 Diagram



#### Use Case-17 Specification

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| **USE CASE - 17 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_017 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Change Password | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Patient * Doctor.   **Summary:** This use case is about changing password for user.  **Goal:** User can change their password.  **Trigger:** Click on “Đổi mật khẩu” button on “Tài khoản” page to change password.  **Precondition:**   * Page is loaded successfully. * Users have already logged in.   **Post-condition:**   * Success: User’s password changed. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Đổi mật khẩu” link on profile page. [Alternative1] | Open “Đổi mật khẩu” pop-up page. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Đồng ý” button. [Alternative 1] | * Validate the inputted information * Update user in database. * Show message “Bạn đã thay đổi mật khẩu thành công”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button. | Close “Đổi mật khẩu” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi.” | | 2 | When session timeout. | Display an informed message”Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại.” |   **Relationship:** Update Profile  **Business Rules:** N/A | | | | |

#### Functional Requirement 18 – Logout

#### Use Case-18 Diagram



#### Use Case-18 Specification

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| **USE CASE - 18 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_018 | **Use-case Version** | | **1.0** |
| **Use-case Name** | Logout | | | |
| **Author** | TinBN | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:** Admin, patient, doctor  **Summary:** Log out system  **Goal:** Help user to log out their account.  **Triggers:** Click on “Đăng xuất” to log out  **Preconditions:**   * Page is loaded successfully. * Users have already logged in.   **Post-Conditions:**   * Success: users log out successfully. * Failure: System displays error message. Content of error message will specify in Exception section.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Đăng xuất” link on main page. | Display a confirm box. | | 2 | User clicks on “Có” button. [Alternative 1] | Logout user, redirect to Home page, logout successfully. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Không” button | Close confirm box. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi.” | | 2 | When session timeout. | Display an informed message ”Thời gian thực thi của bạn đã hết. Vui lòng đăng nhập lại.” |   **Relationship:** Login  **Business Rules:** N/A | | | | |