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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

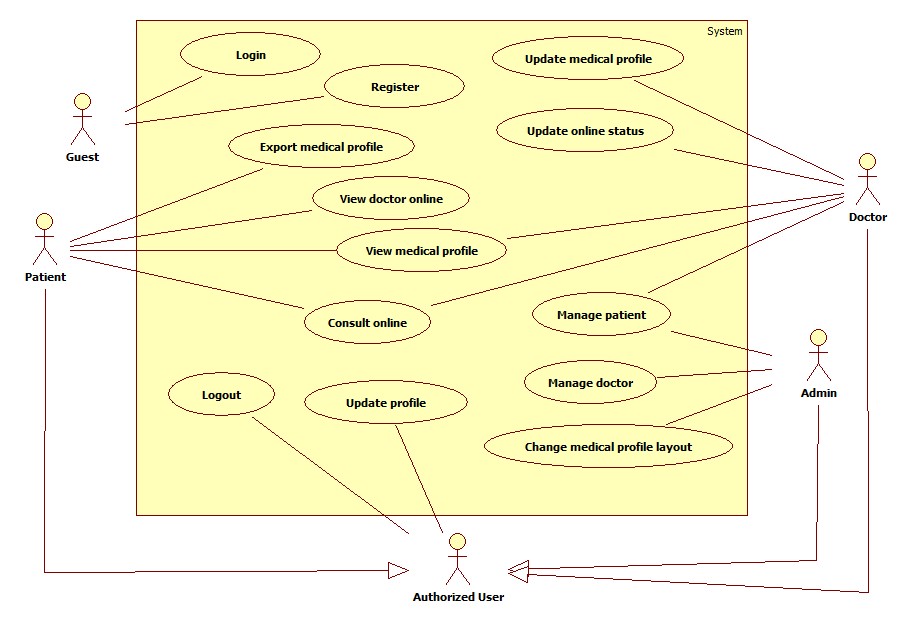


Figure System Use Case Overview

****

Figure <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 <Guest> Login

#### Use Case-1 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 1 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_001 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Guest> Login | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Guest   **Summary:** Logging 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 “Login” 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 “Home” page. | * Redirect to “Login” page. * Display form to input login information. | | 2 | User input email and password. |  | | 3 | User clicks on “Đăng nhập” button. | * Validate email and password. * Redirect to page follow user’s role. |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | When user fills wrong email or password. | Display a hint message “Email hoặc mật khẩu không đúng ". | | 2 | When network disconnected. | Display an informed message “Kết nối mạng bị lỗi”. | | 3 | Email or passwod is blank. | Show message: “Vui lòng điền vào trường này”. |   **Relationship:** N/A  **Business Rules:**   * Each patient, doctor, admin has an account. * Only active account can log in. | | | | |

Table <Guest> Login

#### Functional Requirement 2 - Register

#### Use Case-2 Diagram



Figure <Guest> Register

#### Use Case-2 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 2 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_002 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Guest> Register | | | |
| **Author** | DanhTC | | | |
| **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” link to “Register” page.  **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 | ActorAction | System Response | | 1 | “Email”, “Họ”, “Tên”, “Mật khẩu”, “Xác nhận mật khẩu” text-box is empty | Display message: “Bạn cần nhập giá trị này”. | | 2 | When user fills email not correct format | Display message “Email không đúng định dạng”. | | 3 | When user fills exist email | Display message “Địa chỉ email đã tồn tại”. | | 4 | Mandatory field which have a mark ”\*” is empty | Display message “Bạn cần nhập giá trị này”. | | 5 | When user fills password is more than 32 characters or less than 6 characters | Display message “Độ dài trong khoảng từ 6 đến 32 kí tự”. | | 6 | When user fills re-password not match password | Display message “Xác nhập mật khẩu không trùng khớp”. | | 7 | Captcha is empty | “Mã captcha không được để trống”. | | 8 | Captcha not match captcha picture | “Mã captcha không trùng khớp”. |   **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. | | | | |

Table <Guest> Register

#### Functional Requirement 3 - View Medical Profile

#### Use Case-3 Diagram



Figure <Doctor><Patient> View Medical Profile

#### Use Case-3 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 3 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_003 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor><Patient> View Medical Profile | | | |
| **Author** | SuTNT | | | |
| **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 chi tiết**”** button on “AdminMedicalProfile” 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 chi tiết” button. [Alternative 1] | Redirect into “Detail” page to shows medical profile details. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Trở về” button. | Redirect into “AdminMedicalProfile” page. | | 2 | User click on “Cập nhật hồ sơ bệnh án” button | Redirect into “UpdateMedicalProfile” to edit medical profile value. |   **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 | | | | |

Table <Doctor><Admin> View Medical Profile

#### Functional Requirement 4 – Chat

#### Use Case-4 Diagram



Figure <Doctor><Patient> Chat

#### Use Case-4 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 4 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_004 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor><Patient> Chat | | | |
| **Author** | DanhTC | | | |
| **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 “DoctorConversation” page and patient is on “UserConversation” 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 page.   **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 | | | | |

Table <Doctor><Patient> Chat

#### Functional Requirement 5 – Request Webcam

#### Use Case-5 Diagram



Figure <Doctor><Patient> Request Webcam

#### Use Case-5 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 5 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_005 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor> Request Webcam | | | |
| **Author** | SuTNT | | | |
| **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 page.   **Preconditions:**   * User must log in with role “Doctor”. * User is on chat page.   **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 “Bạn đã gửi yêu cầu xem webcam bệnh nhân …..” on “Doctor” Page. |   **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. | | | | |

Table <Doctor><Patient> Request Webcam

#### Functional Requirement 6 – Show Webcam

#### Use Case-6 Diagram



Figure < Patient> Show webcam

#### Use Case-6 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 6 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_006 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Patient> Show Webcam | | | |
| **Author** | DanhTC | | | |
| **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 “UserConversation” page. * User clicks on “Đồng ý” 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 “Đồng” button on “Yêu cầu xem webcam” pop-up page. [Alternative 1] | * 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. |   **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. | | | | |

Table < Patient> Show webcam

#### Functional Requirement 7 – Upload Attachment

#### Use Case-7 Diagram

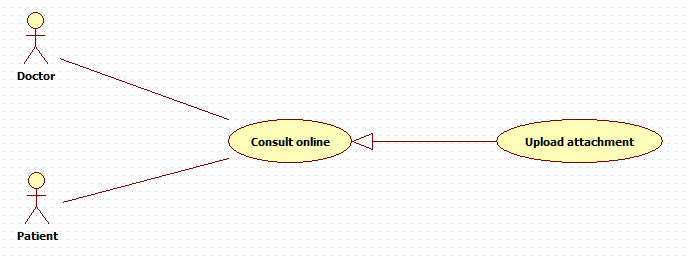


Figure <Doctor>< Patient> Upload Attachment

#### Use Case-7 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 7 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_007 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Patient><Doctor> Upload Attachment | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient * Doctor   **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 chatpage.  **Preconditions:**   * User must log in with role “Patient” or “Doctor”. * User is on chat page.   **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 “+” button on page. | Show “Chọn tập tin để gửi” window. This window will help user access to the file that user want to attach. | | 2 | User chooses the file and clicks “Save” button. [Alternative 1] | The system will give a file to textbox. | | 3 | User click on “Gửi tập tin” button on page. | The system will give a link to the doctor or patient for downloading or give a picture to the doctor or patient for show picture or downloading. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Cancel” button | Back to chat page 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. | | | | |

Table <Doctor>< Patient> Upload Attachment

#### Functional Requirement 8 – View Consulting History

#### Use Case-8 Diagram



Figure < Patient> View consult history

#### Case-8 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 8 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_008 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Patient> View Consulting History | | | |
| **Author** | DanhTC | | | |
| **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.  **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. | | 2 | User chooses the conversation and clicks on “Xem lược sử” button. | * Open “Lược sử” 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 “Lược sử” 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 | | | | |

Table < Patient> View consult history

#### Functional Requirement 9 – View Doctor Online

#### Use Case-9 Diagram



Figure < Patient> View doctor online

#### Use Case-9 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 9 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_009 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Patient> View doctor online | | | |
| **Author** | SuTNT | | | |
| **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 vấn trực tuyến” page and online doctor will have online icon.  **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 | | | | |

Table < Patient> View doctor online

#### Functional Requirement 10 – Update medical profile

#### Use Case-10 Diagram

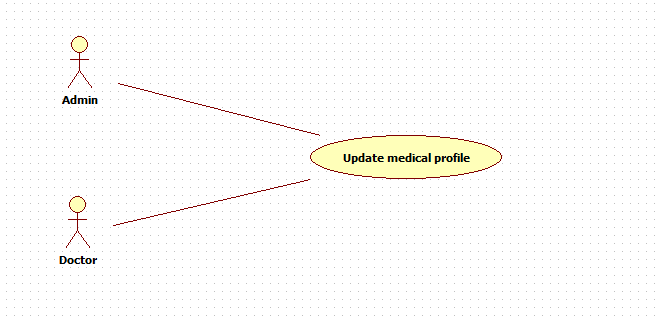


Figure <Doctor>< Admin> Update medical profile

#### Case-10 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 10 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_010 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Dotor><Admin> Update medical profile | | | |
| **Author** | DanhTC | | | |
| **Date** | 30/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor * Admin   **Summary:** This use case is doctor update medical profile.  **Goal:** Doctor can update medical profile.  **Triggers:** Doctor clicks on “Cập nhật**”** button on “DoctorMedicalProfile”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:**   |  |  |  | | --- | --- | --- | | Ste | Actor Action | System Response | | 1 | User logged – in as “Doctor” and clicks on “Cập nhật” button on “DoctorMedicalProfile” page. | Display “UpdateMedicalProfile” page with patient’s fields has been added to doctor can edit and update. | | 2 | Input suitable fields want to update and click on “Cập nhật” button. | * Validate input data. * Display message: “Cập nhật thành công”. |   **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 | | | | |

Table <Doctor>< Admin> Update medical profile

#### Functional Requirement 11 – Create Doctor

#### Use Case-11 Diagram



Figure <Admin> Create doctor

#### Use Case-11 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 11 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_011 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Create Doctor | | | |
| **Author** | SuTNT | | | |
| **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 “AdminDoctor” 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 “AdminDoctor” 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 “AdminDoctor” 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 Respons | | 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”. | | | | |

Table <Admin> Create doctor

#### Functional Requirement 12 – Edit Doctor

#### Use Case-12 Diagram



Figure <Admin> Edit doctor

#### Use Case-12 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_012 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Edit Doctor | | | |
| **Author** | DanhTC | | | |
| **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 “AdminDoctor” 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 “AdminDoctor” 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 “AdminDoctor” 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 Reponse | | 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. | | | | |

Table <Admin> Edit doctor

#### Functional Requirement 13 – Search Doctor

#### Use Case-13 Diagram



Figure <Admin> Search doctor

#### Use Case-13 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Search Doctor | | | |
| **Author** | SuTNT | | | |
| **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 email/full name of doctor then they search all doctor with relative email /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 email/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 email. * 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 email/full name, using containing text search. | | | | |

Table <Admin> Search doctor

#### Functional Requirement 14 – Deactivate Doctor

#### Use Case-14 Diagram



Figure <Admin> Deactivate Doctor

#### Use Case-14 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Deactivate Doctor | | | |
| **Author** | DanhTC | | | |
| **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 “AdminDoctor” page.  **Precondition:**   * “AdminDoctor” 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. | | | | |

Table <Admin> Deactivate Doctor

#### Functional Requirement 15 – Activate Doctor

#### Use Case-15 Diagram



Figure <Admin> Activate doctor

#### Use Case-14 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_015 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Activate Doctor | | | |
| **Author** | SuTNT | | | |
| **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 “AdminDoctor” page.  **Precondition:**   * “AdminDoctor” 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 timeou. | 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. | | | | |

Table <Admin> Activate doctor

#### Functional Requirement 16 – Create Patient

#### Use Case-16 Diagram

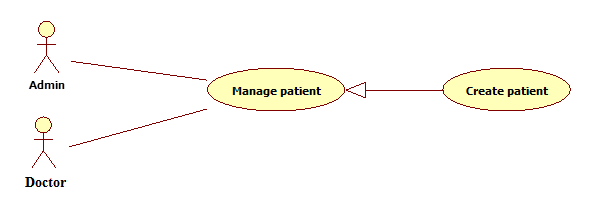


Figure <Admin><Doctor> Create patient

#### Case-16 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_013 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor> Create Patient | | | |
| **Author** | DanhTC | | | |
| **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” navigation.  **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” navigation. | * 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 “Index” 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”. | | | | |

Table <Admin><Doctor> Create patient

#### Functional Requirement 17 – Edit Patient

#### Use Case-17 Diagram

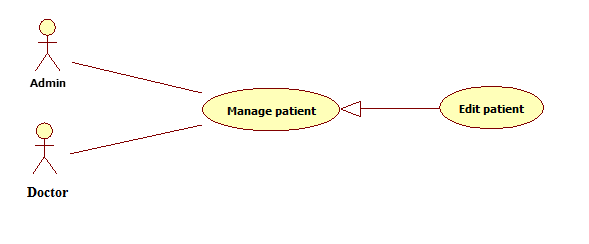


Figure <Admin><Doctor> Edit patient

#### Use Case-17 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_017 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor> Edit Patient | | | |
| **Author** | SuTNT | | | |
| **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” navigation.  **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” navigation. | * 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 “Index” 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:**   * Email is forbidden. * Password is forbidden. | | | | |

Table <Admin><Doctor> Edit patient

#### Functional Requirement 18 – Search Patient

#### Use Case-18 Diagram

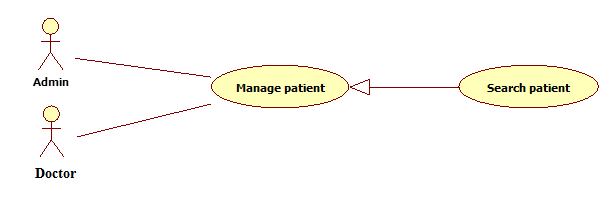


Figure <Admin><Doctor> Search patient

#### Use Case-18 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 13 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_018 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor> Search Patient | | | |
| **Author** | DanhTC | | | |
| **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 email/full name of patient then they search all patient with relative email/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 email/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 email. * 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 email/full name, using containing text search. | | | | |

Table <Admin><Doctor> Search patient

#### Functional Requirement 19 – Deactivate Patient

#### Use Case-19 Diagram



Figure <Admin> Deactivate patient

#### Use Case-19 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_014 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Deactivate Patient | | | |
| **Author** | SuTNT | | | |
| **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” navigation.  **Precondition:**   * “Index” 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. | | | | |

Table <Admin> Deactivate patient

#### Functional Requirement 20 – Activate Patient

#### Use Case-20 Diagram



Figure <Admin> Activate patient

#### Use Case-20 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 14 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_20 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Activate Patient | | | |
| **Author** | DanhTC | | | |
| **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” navigation.  **Precondition:**   * “Index” 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. | | | | |

Table <Admin> Activate patient

#### Functional Requirement 21 – Update Medical Profile Template

#### Use Case-21 Diagram

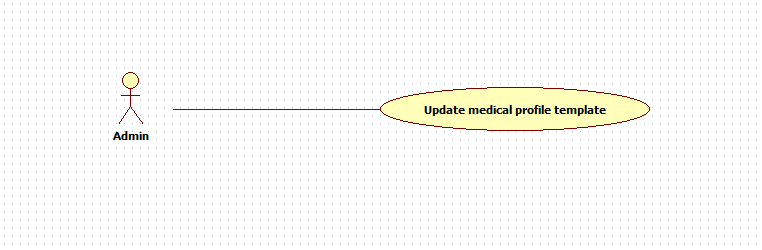


Figure <Admin> Update medical profile template

#### Use Case-21 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 15 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_021 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Change Medical Profile Layout | | | |
| **Author** | SuTNT | | | |
| **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 “Sửa cấu trúc” bệnh nhân on “AdminMedicalProfile” page.  **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 | Click on “Sửa cấu trúc” button | Show medical profile template is created. | | 2 | Drag in or drag out fields. | Show fields or remove fields. | | 3 | Click on “Cập nhật” button | Display message: “Cập nhật 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.” |   **Relationship:** N/A  **Business Rules:** N/A | | | | |

Table <Admin> Update medical profile template

#### Functional Requirement 22 – Change Picture Profile

#### Use Case-22 Diagram



Figure <Admin><Doctor><Patient> Change picture profile

#### Use Case-22 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 22 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_022 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor><Patient> Change Picture Profile | | | |
| **Author** | DanhTC | | | |
| **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 “Index” page and select “Cập nhật 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 “Cập nhật ảnh đại diện” button on index page and select picture. | Display a “change profile” picture box. | | 2 | Select a template profile picture or upload owner’s picture. |  | | 3 | User clicks on “Cập nhật” button. | * Validate input data. * Save to database * Display new profile picture |   **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 | | | | |

Table <Admin><Doctor><Patient> Change picture profile

#### Functional Requirement 23 – Change Password

#### Use Case-23 Diagram

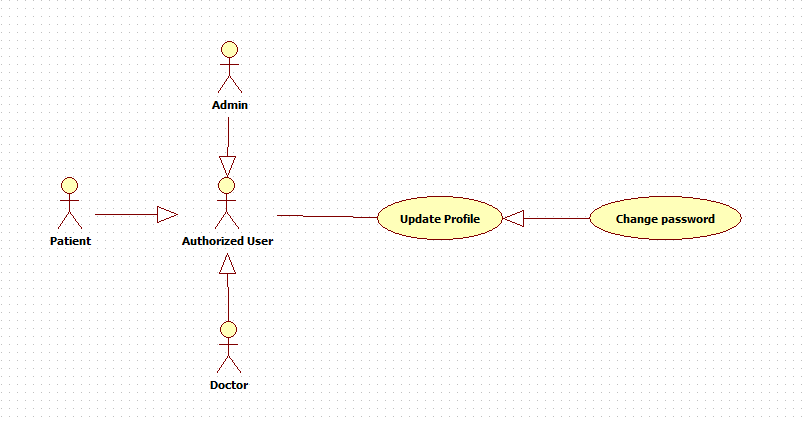


Figure <Admin><Doctor><Patient> Change password

#### Use Case-23 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 17 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_017 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor><Patient> Change Password | | | |
| **Author** | DanhTC | | | |
| **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 “Index” 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 | | | | |

Table <Admin><Doctor><Patient> Change password

#### Functional Requirement 24 – Define New Medical Profile Template

#### Use Case-24 Diagram

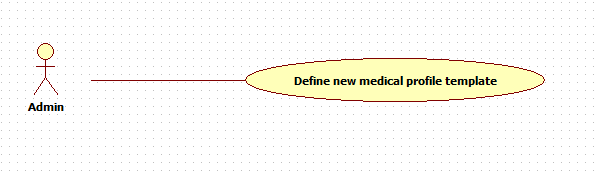


Figure <Admin> Define new medical profile template

#### Use Case-24 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 17 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_024 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Define New Medical Profile Template | | | |
| **Author** | DanhTC | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case is about define new medical profile template.  **Goal:** User can define new medical profile template.  **Trigger:** Click on “Thêm mẫu hồ sơ mới” button on “Quản lý mẫu” page to define new medical profile template.  **Precondition:**   * Page is loaded successfully. * Users have already logged in.   **Post-condition:**   * Success: Define new medical profile template. * 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 “Thêm mẫu hồ sơ mới” button on “Quản lý mẫu” page. [Alternative1] | Open “Thêm mẫu hồ sơ” pop-up page. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Tiếp tục” button. [Alternative 1] | * Validate the inputted information * Insert template in database. * Redirect to “Tạo mẫu hồ sơ” page. | | 4 | User drag fields want to create into “Mẫu hồ sơ”. | Fields will fix follow user drag in. | | 5 | Users click on “Lưu” button. | Display message “Mẫu hồ sơ đã được cập nhật thành công”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User clicks on “Bỏ Qua” button. | Close “Thêm mẫu hô sơ” 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:** Define new medical profile  **Business Rules:** N/A | | | | |

Table <Admin> Define new medical profile template

#### Functional Requirement 25 – Logout

#### Use Case-25 Diagram



Figure <Admin><Doctor><Patient> Logout

#### Use Case-25 Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE - 18 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_025 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin><Doctor><Patient> Logout | | | |
| **Author** | SuTNT | | | |
| **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. | 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 | | | | |

Table <Admin><Doctor><Patient> Logout