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| **USE CASE - 1 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_001 | **Use-case Version** | | **1.1** |
| **Use-case Name** | <Guest> Login | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Guest   **Summary:** This use case allows user login into system.  **Goal:** Check user’s role to use system’s functions.  **Triggers:**Click on “Đăng nhập” link on homepage.  **Preconditions:**   * User has already created an account in system. * User account in active state.   **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 Chủ” page. | * Redirect to “Login” page. * Display form to input login information: * Email: textbox, required * Mật khẩu: textbox, password box, require. * Đăng nhập: button. | | 2 | Enters email and password into textboxes.  [Alternative1] |  | | 3 | Click “Đăng nhập” button. | * Validate email and password. * Redirect to page follow user’s role. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Clicks on “Từ chối” button. | * Navigate back to homepage. |   **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 | Email or password is blank. | Show message: “Vui lòng điền vào trường này”. |   **Relationship:** N/A  **Business Rules:**   * Only active account can log in successfully. User can active account by using active link sent by email at the time registration or contacting with administrator. * When login successfully, logged user will be navigated by their role to quickly do their jobs. * Passwords stored in database are encrypted using MD5 message-digest algorithm. | | | | |

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| **USE CASE - 22 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_022 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor> Enable private mode | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:**   * This use case allows doctor to enable private mode when chatting with patient.   **Goal:**   * Doctor can have the private consultant mode.   **Triggers:**   * User clicks on “Tư vấn riêng…” switch button on chat page.   **Preconditions:**   * User must log in with role “Doctor”. * User is in conversation with a specify patient.   **Post-Conditions:**   * Success: Doctor’s status is changed to busy, patient detail panel is shown. * Failure: System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Tư vấn riêng…” switch button on chat page. | * Hide “Lịch sử tư vấn” panel * Doctor status is changed to busy and update to all online patient. * Show “Chi tiết bệnh nhân” panel:   + Xem chi tiết: button  + Dị ứng: button  + Lịch sử tiêm chủng: button  + Yêu cầu webcam…: button  + Lịch sử khám bệnh: collapsible pane, show latest treatment history  + Xem chi tiết: button, show detail treatment history  + Chỉnh sửa: button, update treatment history information  + Liên kết hội thoại: button  + Xóa: button, delete treatment history  + Quay lại: button, view previous treatment history  + Tiếp tục: button, view next treatment history  + Khám bệnh: collapsible pane, add new treatment |   **Alternative Scenario:** N/A  **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot switch to private mode | Display error message “Có lỗi xảy ra trong quá trình chuyển chế độ Tư vấn riêng”. |   **Relationship:** Consult online  **Business Rules:**   * In private mode, doctor only serves one patient at the same time. * All data about user detail is loaded dynamically when doctor change to private mode. * All online patients will get updated about doctor status when doctor change to private mode. * Treatment history is shown with the button that link with a medical profile or a tag name “Khám bệnh tự do” if it not belong to any medical profile. | | | | |

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| **USE CASE - 5 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_005 | **Use-case Version** | | **1.1** |
| **Use-case Name** | <Doctor> Request Webcam | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:** This use case allows doctor to request patient’s webcam when chatting.  **Goal:** Doctor can see the video stream from patient’s webcam.  **Triggers:**   * User clicks on “Yêu cầu Webcam…” button on chat page.   **Preconditions:**   * User must log in with role “Doctor”. * “Tư vấn riêng” mode is enabled. * Patient is still online. * Patient has a webcam which work properly.   **Post-Conditions:**   * Success: Doctor can see the patient’s webcam stream. * Failure: System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Doctor clicks on “Yêu cầu Webcam…” button.  [Exception 1] | Send a message to a patient “Bạn nhận được yêu cầu xem webcam từ bác sĩ:.... Bạn có muốn chia sẻ webcam?.” with two buttons: “Đồng ý” and “Bỏ qua”. | | 2 | Patient click on “Đồng ý” button [Alternative 1] | Streaming video to doctor. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Patient clicks on “Từ chối” button. | Show message “Yêu cầu xem webcam bị từ chối”. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Patient is offline | Display message “Bệnh nhân … không ở chế độ Online”. |   **Relationship:** <Doctor> Enable private mode  **Business Rules:**   * To request webcam, doctor has to enable “Tư vấn riêng” mode first. * Doctor can only request one patient’s webcam at the time. | | | | |

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| **USE CASE - 6 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_006 | **Use-case Version** | | **1.1** |
| **Use-case Name** | <Patient> Show Webcam | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case is about Showing webcam when chatting.  **Goal:** Doctor can see video stream from patient’s webcam.  **Triggers:**   * User clicks on “Đồng ý” button in popup “Bạn nhận được yêu cầu xem webcam từ bác sĩ:.... Bạn có muốn chia sẻ webcam?.”.   **Preconditions:**   * User must log in with role “Patient”. * Use case UC\_005 (<Doctor> Request Webcam) must be executed first.   **Post-Conditions:**   * Success: Show webcam successfully. * Failure: System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Đồng ý” button on “Bạn nhận được yêu cầu xem webcam từ bác sĩ:.... Bạn có muốn chia sẻ webcam?.” pop-up. [Alternative 1] | * Request browser to use media’s capture device (camera, microphone) | | 2 | User clicks on “Đồng ý” button on pop-up “OMCS muốn sử dụng máy ảnh của bạn”  [Alternative 2] | * Attach camera stream into user’s screen. * Transmit camera stream 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. | * Do nothing |   **Exception: N/A**  **Relationship:** Consult online  **Business Rules:**   * User need to have webcam connected properly with computer. If they have a microphone, the sound will be transmitted also. * Video, audio are transferred using WebRTC by establishing a Peer to Peer connection. * System’s server doesn’t know about the stream transmitted from patient. | | | | |

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| **USE CASE - 19 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_019 | **Use-case Version** | | **1.1** |
| **Use-case Name** | <Patient> Comment Doctor | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Patient   **Summary:** This use case allows patient comment on doctor.  **Goal:** Patient can comment doctor.  **Trigger:** User want to comment for a specific doctor.  **Precondition:**   * User must log in with role “Patient”.   **Post-condition:**   * Success: Comment added for doctor successful. * Failure: Nothing is inserted. System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User choose a doctor | * Show quick rating panel:   + The average point of selected doctor.  + Number of patients does rating.  + Button “Xem chi tiết”. | | 2 | User click on “Xem chi tiết” button. | * Show “Comment” popup:   + List out some basic information about selected doctor: name, specialty…  + Bình luận: textbox, required.  + Gửi: button.  + Close: button. | | 3 | User input “Bình luận” textbox |  | | 4 | User click on “Gửi” button.  [Alternative 1], [Exception 1] | * Save comment to database. * Show comment with patient’s fullname. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User click on “Close” button. | * Clear input data * Close popup |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | SystemResponse | | 1 | “Bình luận” is blanked. | Show error message: “Không được để trống trường này” |   **Relationship:** N/A  **Business Rules:**   * Comments are sorted descend by created time. * Comments are organized into pages (4 comments for each page). * Comments are saved into database and those can be managed by admin. * Doctor can see comments from patients and can reply them. | | | | |

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| **USE CASE - 20 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_020 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Admin> Define New Medical Profile Template | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin   **Summary:** This use case help admin to 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 hồ sơ” page to define new medical profile template.  **Precondition:**   * User must log in with role “Admin”.   **Post-condition:**   * Success: New medical profile template created successful. * Failure: System displays error message.   **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.   * Tên mẫu hồ sơ: textbox, require. * Lưu: button. * Bỏ qua: button. | | 2 | User fills all mandatory fields. |  | | 3 | User clicks on “Lưu” button. | * Insert template in database. * Redirect to “Tạo mẫu hồ sơ” page with 3 tab.   “Phân vùng” tab:  + Khu vực  + Lịch sử bệnh án  + Hồ sơ phim  + Dị ứng  + Tiêm chủng  “Tùy chỉnh” tab:  + Xây dựng bảng  + Ô nhập liệu  + Kiểu ngày tháng  + Đoạn nhập liệu  + Tùy chọn đơn 1 hàng dọc  + Tùy chọn đơn hàng ngang  + Tùy chọn kép hàng dọc  + Tùy chọn kép hàng ngang  + Tùy chọn đơn  + Tùy chọn kép  “Có sẵn” tab contains 3 legends:  “Thông tin cá nhân”:  + Họ và tên:  + Giới tính:  + Ngày sinh:  + Tuổi:  + Số điện thoại:  + Địa chỉ thường trú:  + Địa chỉ tạm trú:  “Thông tin bệnh nhân”:  + Dân tộc:  + Quốc tịch:  + Công việc:  + Nơi làm việc:  + Người liên lạc:  + Địa chỉ người liên lạc:  + Số điện thoại người liên lạc:  + Mã số thẻ bảo hiểm y tế:  + Ngày cấp:  + Ngày hết hạn:  “Sức khỏe cơ bản”: with value mapping patient.  + Chiều Cao (cm):  + Cân nặng (kg):  + Màu tóc:  + Màu mắt:  + Nhóm máu:  + Lượng đồ uống có cồn (lít) hàng tuần:  + Số năm uống:  + Lượng thuốc hút (gói) hằng tuần:  + Số năm hút:  + Tên loại thể thao:  + Thời gian tham gia (giờ) hằng tuần:  + Tham gia khác (Yoga, Thiền định, ….):  + Thời gian tham gia (giờ) hằng tuần:   * The left footer contains 1 button: “Lưu”. | | 4 | User drag fields into “Mẫu hồ sơ” editor area. | Fields will be inserted into the position that user drag into. | | 5 | Users click on “Lưu” button. | * Insert medical profile template into database. * 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 “MedicalProfileTemplate” pop-up page. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Mandatory field which have a mark ”\*” is empty | Display message “Bạn cần nhập giá trị này”. |   **Relationship:** N/A  **Business Rules:**   * Medical profile template fields are arranged vertically. * User can customize detail of an element by click on it: detail will be shown by popup. All information stored in JSON. * “Lịch sử bệnh án”, “Hồ sơ phim”, “Dị ứng”, “Tiêm chủng” are built-in modules in system. * “Khu vực”, “Ô nhập liệu “, “Kiểu ngày tháng”, “Đoạn nhập liệu”, and other components in 2nd tab are highly-customized HTML elements. * “Họ và tên”, “Giới tính”, “Ngày sinh” and other components in 3rd tab are derived from patient information. User can change the way those fields displayed and the way mapping work. | | | | |

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| **USE CASE - 20 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_020 | **Use-case Version** | | **1.1** |
| **Use-case Name** | <Admin><Doctor><Patient> Logout | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Admin * Doctor * Patient   **Summary:**   * This use case allows user to log out of the system   **Goal:**   * User logs out of the system. User’s current session is destroyed.   **Triggers:**   * Click on “Đăng xuất” button on navigation menu.   **Preconditions:**   * User must log in with role “Patient”, “Doctor” or “Admin”.   **Post-Conditions:**   * Success: User’s session is destroyed. User 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 navigation menu. | Destroy user’s session. Redirect to home page. |   **Alternative Scenario:** N/A.  **Exception:** N/A.  **Relationship:** Login  **Business Rules:** N/A | | | | |

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| **USE CASE - 23 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_023 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor> Capture webcam | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:** This use case allows doctor to capture webcam and create film document.  **Goal:** Doctor can create film document based on webcam.  **Triggers:**   * User clicks on “Chụp hình ảnh…” button on chat page.   **Preconditions:**   * User must log in with role “Doctor”. * Use case “<Doctor> Request Webcam” must be executed first.   **Post-Conditions:**   * Success: Film document created successfully using image from patient’s webcam. * Failure: System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Chụp hình ảnh…” button on chat page. | Popup “Thêm Hồ Sơ ảnh” is shown:  + Hồ sơ bệnh án: dropdown list, source from database  + Ngày khám: dropdown list, source from database, required  + Loại phim: dropdown list, source from database, default value (Webcam)  + Mô tả: textarea, min length: 1, max length: 1000, required  + Kết luân: textarea, min length: 1, max length: 1000, required  + Lưu: button  + Bỏ qua: button | | 2 | Input fields  [Exception 1] |  | | 3 | Click on “Lưu” button  [Alternative 1] | Film document will be added successfully and show message: “Hồ sơ ảnh đã được lưu thành công!” |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Bỏ qua” button | * Close popup. * Reset all fields to default value. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Mandatory field which have a mark ”\*” is empty | Display message “Bạn cần nhập giá trị này”. |   **Relationship:** <Doctor> Request Webcam  **Business Rules:**   * This use case need “<Doctor> Request Webcam” use case executed first to capture the current stream. * A film document can belong to a Medical Profile or a Treatment History. | | | | |

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| **USE CASE - 24 SPECIFICATION** | | | | |
| **Use-case No.** | UC\_024 | **Use-case Version** | | **1.0** |
| **Use-case Name** | <Doctor> Create treatment history | | | |
| **Author** | SuTNT | | | |
| **Date** | 29/05/2014 | **Priority** | Normal | |
| **Actor:**   * Doctor   **Summary:**   * This use case allows doctor create treatment history when chatting with patient.   **Goal:**   * Doctor can create a treatment history for patient.   **Triggers:**   * User clicks on “Khám bệnh” collapsible pane on chat page.   **Preconditions:**   * User must log in with role “Doctor”. * “Tư vấn riêng” is enabled.   **Post-Conditions:**   * Success: A new treatment history added successful to database. * Failure: System displays error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks on “Khám bệnh” collapsible pane on chat page. | Show form with information:  + Ngày phát bệnh: datepicker  + Hồ sơ bệnh án: dropdown list, source from database.  + Triệu chứng: textarea, min length: 1, max length: 1000, required  + Chẩn đoán: textarea, min length: 1, max length: 1000, required  + Phương pháp điều trị: textarea, min length: 1, max length: 1000  + Tình trạng điều trị: textarea, min length: 1, max length: 1000  + Ghi chú: textarea, min length: 1, max length: 1000  + Lưu lượt khám bệnh: button  + Tạo lại từ đầu: button | | 2 | Input fields  [Exception 1] |  | |  | Click on “Lưu” button  [Alternative 1] | Treatment History will be added successfully and show message: “Lượt khám bệnh lưu thành công!” |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Tạo lại từ đầu” button | * Reset all fields to default value. |   **Exception:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Mandatory field which have a mark ”\*” is empty | * Display message “Bạn cần nhập giá trị này”. |   **Relationship:** <Doctor> Enable private mode  **Business Rules:**   * Doctor can create a treatment belong to a medical profile or not. If not, it becomes “Khám bệnh tự do”. | | | | |