Use case diagram

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| Use case UC-1: | Login |
| Related Requirement: | Req 1, req 2, req 12, req 13, req 14, req 15, req 26 |
| Initiating Actor: | User, Patient, Doctor |
| Actor’s Goal: | * To select whether user is patient or doctor and create account with his or her information * To log in with user’s id and password * To log out if user is logged in * To find id or password if patient or doctor forgets it * To block user login when user fails to log in for more than 5 times |
| Participating Actors | Login manager, Account manager, Timer |
| Preconditions | * Website has interface for login * Website has a button for creating account * Initial number of failed log-in is zero * Timer value of blocking login is 24 hours |
| Postconditions | * User information is saved in user account |
| Flow of Events for Main Success Scenario: | |
| → | 1. User click button for creating account |
| ← | 1. System shows registration page |
| → | 1. User inputs user’s information and registers |
| ← | 1. Account manager confirms user’s information and add account if it’s valid |
| ← | 1. System shows login page |
| → | 1. User puts id and password and log in |
| ← | 1. Login manager confirms id and password and if it’s correct, allow logging in |
| → | 1. User clicks logout button |
| ← | 1. Login manager makes user log out, and shows login page |
| Flow of Events for Extensions (Alternative Scenarios): | |
| ← | 1. If user fails to log in for more than 5 times, login manager blocks user from logging in for 24 hours |
| → | 1. System shows login page |
| → | 1. User clicks find id/password button |
| ← | 1. System shows find id/password page |
| → | 1. User puts personal information to verify user |
| ← | 1. Account manager gives id or password if information is correct(user is verified) |
| ← | 1. System shows login page |

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| Use case UC-2: | View/Change Information |
| Related Requirement: | Req 18 |
| Initiating Actor: | Doctor, Patient |
| Actor’s Goal: | * To view or change personal information * To notify patient if their appointment is cancelled or rescheduled by doctor |
| Participating Actors | Patient, Account manager, Notification manager, Login manager |
| Preconditions | * User information is saved in account manager * User is logged in |
| Postconditions | None worth mentioning. |
| Flow of Events for Main Success Scenario: | |
| Change information | |
| → | 1. Member clicks My menu or user icon |
| ← | 1. System shows my information page |
| → | 1. User clicks Change information |
| ← | 1. System shows change information page |
| → | 1. User changes information in input box, and click button ‘change’ |
| ← | 1. Account manager verifies and saves changed personal information |
| ← | 1. System shows my information page with changed information |
| Notify patient | |
| → | 1. Doctor cancels or reschedules an appointment(UC sth) |
| ← | 1. Notification manager sends notification to patient |
| ← | 1. Patient receives a notification and red dot appears at the top right of alarm icon |
| Flow of Events for Extensions (Alternative Scenarios): | |
| ← | 1. If changed information is invalid, account manager pops message that the information is invalid(changed information is not saved) |

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| Use case UC-3: | View Medical History |
| Related Requirement: | Req 7 |
| Initiating Actor: | Doctor |
| Actor’s Goal: | * To view medical history of doctor’s patient |
| Participating Actors | Login manager, Medical history manager |
| Preconditions | * Logged in as a doctor * There is an appointment with a patient |
| Postconditions | None worth mentioning. |
| Flow of Events for Main Success Scenario: | |
| → | 1. Doctor goes to my menu, and click patient medical history button |
| ← | 1. System shows patient medical history page |
| ← | 1. Medical history manager shows a list of patients with brief information of appointments |
| → | 1. Doctor selects a patient |
| ← | 1. Medical history manager shows the medical history of selected patient |
| → | 1. By clicking the patient again, doctor can close medical history |
| Flow of Events for Extensions (Alternative Scenarios): | |
| ← | 1. If there isn’t any appointment, medical history manager shows empty list with message “There isn’t any appointment. “ |