## Use Case Tables

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| **Use Case ID:** | 1 | |
| **Use Case Name:** | Login as doctor | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Website homepage is opened | |
| **Post-conditions:** | Doctor’s homepage is opened | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to login as doctor |  |
|  | 2- System displays a form containing two empty parts for username and password to be filled |
| 3- fill form |  |
|  | 4- system validates actor data  5- system displays actor’s homepage |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Actor enters invalid username or password |  |
|  |  | 1. System asks actor to re-enter them correctly |

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| **Use Case ID:** | 2 | |
| **Use Case Name:** | Login as patient | |
| **Actors:** | Patient | |
| **Pre-conditions:** | Website homepage is opened | |
| **Post-conditions:** | patient’s homepage is opened | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to login as patient |  |
|  | 2- System displays a form containing two empty parts for patient’s code and password to be filled |
| 3- fill form |  |
|  | 4- system validates actor data  5- system displays actor’s homepage |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Actor enters invalid patient’s code or password |  |
|  |  | 1. System asks actor to re-enter them correctly |

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| **Use Case ID:** | 3 | |
| **Use Case Name:** | Show Patient history | |
| **Actors:** | * Patient * Doctor | |
| **Pre-conditions:** | Login as doctor or as patient | |
| **Post-conditions:** | Patient’s history records are displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1. Doctor choose to display specific patient’s history |  |
|  | 1. System asks doctor to enter patient’s code |
| 1. Doctor enters patient’s code |  |
|  | 1. System displays patient’s history |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Patient choose to display his/her history |  |
|  |  | 2- System displays patient’s history |

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| **Use Case ID:** | 4 | |
| **Use Case Name:** | Add prescription | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Login as doctor | |
| **Post-conditions:** | New prescription is added to patient’s history | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to add new prescription |  |
|  | 2- System displays a form containing three parts for symptoms, disease and medicine to be filled |
| 3- save prescription after filling it |  |
|  | 4- system adds new prescription to patient’s history |
| **Includes:** | * Add symptoms * Add disease * Add medicine | |

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| **Use Case ID:** | 5 | |
| **Use Case Name:** | Add symptoms | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Login as doctor (while adding prescription) | |
| **Post-conditions:** | symptoms are added to prescription | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to fill symptoms part |  |
|  | 2- System displays empty part to be filled |
| 3- fill part and save it |  |
|  | 4- system adds saved symptoms to prescription |

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| **Use Case ID:** | 6 | |
| **Use Case Name:** | Add disease | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Login as doctor (while adding prescription) | |
| **Post-conditions:** | disease is added to prescription | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to fill disease part |  |
|  | 2- System displays empty part to be filled |
| 3- fill part and save it |  |
|  | 4- system adds saved disease to prescription |

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| **Use Case ID:** | 7 | |
| **Use Case Name:** | Add medicine | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Login as doctor (while adding prescription) | |
| **Post-conditions:** | medicine is added to prescription | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to fill medicine(s) part |  |
|  | 2- System displays empty part to be filled |
| 3- fill part and save it |  |
|  | 4- system adds saved medicine(s) to prescription |

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| **Use Case ID:** | 8 | |
| **Use Case Name:** | Show medicine alternatives | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Login as doctor (while adding medicine) | |
| **Post-conditions:** | Selected medicine is added to prescription | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to display medicine alternatives |  |
|  | 2- System displays a list containing medicine and it’s alternatives |
| 3- select medicine form list |  |
|  | 4- system adds selected medicine to prescription |
| **Extends:** | Add medicine | |

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| **Use Case ID:** | 9 | |
| **Use Case Name:** | Add attachment | |
| **Actors:** | Doctor | |
| **Pre-conditions:** | Website homepage is opened | |
| **Post-conditions:** | An attachment is added to patient’s history | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- choose to add attachment to specific patient |  |
|  | 2- System displays a form containing two empty parts for patient’s code and attachment |
| 3- fill patient’s code and upload attachment |  |
|  | 4- system adds attachment to patient’s history |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Actor enters invalid patient’s code |  |
|  |  | 1. System asks actor to re-enter patient’s code correctly |

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| **Use Case ID:** | 10 | |
| **Use Case Name:** | Show Patient attachments | |
| **Actors:** | * Patient * Doctor | |
| **Pre-conditions:** | Login as doctor or as patient | |
| **Post-conditions:** | Patient’s attachments are displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1. Doctor choose to display specific patient’s attachments |  |
|  | 1. System asks doctor to enter patient’s code |
| 1. Doctor enters patient’s code |  |
|  | 1. System displays patient’s attachments |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Patient choose to display his/her attachments |  |
|  |  | 2- System displays patient’s attachments |

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| **Use Case ID:** | 11 | |
| **Use Case Name:** | Get similar blood types close users | |
| **Actors:** | Citizen | |
| **Pre-conditions:** | Login as doctor or as patient | |
| **Post-conditions:** | List of similar blood type friends is displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- patient choose to display similar blood type close users |  |
|  | 2- System displays a list containing similar blood type close users |
| **Exceptions:** | **User Action** | **System Action** |
|  | 1. Doctor choose to display similar blood type close users of specific patient |  |
|  |  | 1. System asks doctor to enter patient’s code |
|  | 1. Doctor enters patient’s code |  |
|  |  | 1. System displays a list containing similar blood type close users |

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| **Use Case ID:** | 12 | |
| **Use Case Name:** | Search accounts | |
| **Actors:** | Citizen – Doctor – Pharmacist – Medical group admin | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | Account profile information is displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User types account name (e.g. pharmacy name) |  |
|  | 2- System displays the list of accounts matching the search statement |
| 3- User chooses the desired account |  |
|  | 4- System displays account information |
| **Exceptions** | **User Action** | **System Action** |
| 1- User filters search results  **Possible filters:**   * Citizens * Doctors * Pharmacists * Medical groups |  |
|  | 2- System filters search result and redisplays it |

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| **Use Case ID:** | 13 | |
| **Use Case Name:** | Search for care place | |
| **Actors:** | Citizen – Doctor – Pharmacist – Medical group admin | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | A list of most suitable places is displayed depending on the desired criteria | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to look for a care place |  |
|  | 2- System displays available options  **Places:** Hospital and which – Clinic – Radiation center – Laboratory – Blood bank – Pharmacy  **Care services:** Dialysis room – ICU – Incubator  **Selection criteria:** Distance – Commonly visited – Cost - Reputation  More options are displayed depending on user choice (e.g. radiation type – analysis type – Blood type – hospital section) |
| 3- User chooses the care place type and selection criteria |  |
|  | 4- System displays a list of most suitable care places |
| **Exceptions:** | **User Action** | **System Action** |
| 1 – The user chooses specific place from the list |  |
|  | 2- System shows more information about that place |

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| **Use Case ID:** | 14 | |
| **Use Case Name:** | Request care service | |
| **Actors:** | Doctor – Hospital admin– Clinic admin – Radiation center admin – Lab admin – Blood bank admin | |
| **Pre-conditions:** | The user is viewing the hospital care services | |
| **Post-conditions:** | The request is sent to the hospital and the doctors who provide the service there | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to ask for some care service (e.g. ICU) |  |
|  | 2- System asks the user to provide a link to the medical history of the patient and a description of the patient case |
| 3- User provides needed information and confirms the request |  |
|  | 4- System sends the request to the hospital and the doctors who provide the service |

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| **Use Case ID:** | 15 | |
| **Use Case Name:** | Accept care request | |
| **Actors:** | Doctor – Hospital admin | |
| **Pre-conditions:** | -The user is logged in  -A care request was sent to the hospital  -If a doctor will accept the request, he must be a staff member in the hospital | |
| **Post-conditions:** | The system sends acceptance message to the account that requested the care service | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to view care requests |  |
|  | 2- System displays a list of all unaccepted care requests |
| 3- User selects a request from the list |  |
|  | 4- System displays request details |
|  | 5- User accepts the request |  |
|  |  | 6- System sends acceptance message to the account that requested the care service  7- System removes the request from unaccepted requests list |

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| **Use Case ID:** | 16 | |
| **Use Case Name:** | Cancel care request | |
| **Actors:** | Doctor – Medical group admin | |
| **Pre-conditions:** | -The user is logged in  -The user has sent a care request | |
| **Post-conditions:** | The system cancels the care request | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to view care requests |  |
|  | 2- System displays a list of all unaccepted care requests |
| 3- User chooses to cancel a request |  |
|  | 4- System cancels the request |

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| **Use Case ID:** | 17 | |
| **Use Case Name:** | Add staff member | |
| **Actors:** | * Medical group admin * Pharmacy Owner | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | The chosen doctor/pharmacist is added as a staff member | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User searches for the doctor’s/pharmacist’s account |  |
|  | 2- System displays a list of all accounts matching the search statement |
| 3-User chooses the desired account |  |
|  | 4- System displays account information |
| 5-User marks the account owner as a staff member |  |
|  | 5- System adds the chosen doctor/pharmacist to staff members |

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| **Use Case ID:** | 18 | |
| **Use Case Name:** | View staff members | |
| **Actors:** | * Medical group admin * Pharmacy Owner | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | A list of all staff members who are registered on the system is displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to list staff members |  |
|  | 2- System displays a list of all staff members who are registered on the system |
| **Exceptions** | **User Action** | **System Action** |
| 1-User removes a member from the staff |  |
|  |  | 2-System removes the member from the staff |

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| **Use Case ID:** | 19 | |
| **Use Case Name:** | Add new schedule | |
| **Actors:** | Medical group admin | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | New schedule is saved | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to add a new schedule |  |
|  | 2- System displays a schedule template |
|  | 3- User enters the following scheduled information:   * Schedule name * Services that will be bound to the schedule * Available days and hours   4- User chooses to save the schedule |  |
|  |  | 4- System saves the new schedule |
| **Exceptions** | **User Action** | **System Action** |
| 1- User adds the same service in two different schedules |  |
|  |  | 2- System denies the operation and shows a warning |

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| **Use Case ID:** | 20 | |
| **Use Case Name:** | Update a schedule | |
| **Actors:** | Medical group admin | |
| **Pre-conditions:** | The user is logged in | |
| **Post-conditions:** | Schedule is updated | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to display schedules |  |
|  | 2- System displays a list of all schedules |
| 3- User chooses the desired schedule |  |
|  | 4- System displays the current schedule information |
| 5- User edits the schedule and chooses to save changes  **Possible edits:**   * Schedule name * Services that are bound to the schedule * Available days and hours |  |
|  | 6- System updates the schedule |
| **Exceptions** | **User Action** | **System Action** |
| 1- User adds the same service in two different schedules |  |
|  | 2- System denies update and shows a warning |

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| **Use Case ID:** | 21 | |
| **Use Case Name:** | Display Medicine info | |
| **Actors:** | * Pharmacist * Citizen * Doctor | |
| **Pre-conditions:** | User is logged in to the system and has link of medicine (medicine name) | |
| **Post-conditions:** | User shows the information of the medicine | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User clicks on medicine name |  |
|  | 2- System displays the information of the medicine |

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| **Use Case ID:** | 22 | |
| **Use Case Name:** | Ask for medicine | |
| **Actors:** | * Citizen * Doctor * Pharmacist | |
| **Pre-conditions:** | User is logged in to the system | |
| **Post-conditions:** | User asked for medicine | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- user clicks to ask for medicine |  |
|  | 2-system displays one field to write medicine name |
| 3-user writes medicine name and clicks on search button |  |
|  | 2- System searches for pharmacies that have the asked medicine and displays result to User |

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| **Use Case ID:** | 23 | |
| **Use Case Name:** | Add friend | |
| **Actors:** | * Doctor * Citizen | |
| **Pre-conditions:** | User is logged in to the system | |
| **Post-conditions:** | Both users are marked as friends | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User Searches for Specific user |  |
|  | 2- System displays a list of users that matches the search |
| 3- User Clicks on “Add Friend” Button |  |
|  | 4- System Marks both users as friends  5- System notifies the added user that someone added him as a friend |

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| **Use Case ID:** | 24 | |
| **Use Case Name:** | Add parent | |
| **Actors:** | * Doctor * Citizen | |
| **Pre-conditions:** | User is logged in to the system | |
| **Post-conditions:** | Parent User is marked as a parent | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User Searches for Specific user |  |
|  | 2- System displays a list of users that matches the search |
| 3- User Clicks on “Add Parent” Button |  |
|  | 4- System Marks the user as a parent  5- System notifies the parent user that someone added him as a parent |

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| **Use Case ID:** | 25 | |
| **Use Case Name:** | Add sibling | |
| **Actors:** | * Doctor * Citizen | |
| **Pre-conditions:** | User is logged in to the system | |
| **Post-conditions:** | The two users are marked as a siblings | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User Searches for Specific user |  |
|  | 2- System displays a list of users that matches the search |
| 3- User Clicks on “Add sibling” Button |  |
|  | 4- System Marks the user as a parent  5- System notifies the sibling user that someone added him as a sibling |

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| **Use Case ID:** | 26 | |
| **Use Case Name:** | Remove favorite user | |
| **Actors:** | * Doctor * Citizen | |
| **Pre-conditions:** | User is logged in to the system | |
| **Post-conditions:** | The two users no longer become favorite of each other | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User opens his favorite users List |  |
|  | 2- System displays user’s favorite users list |
| 3- User Clicks on “Remove User” Button |  |
|  | 4- System removes both users from their favorite users list |

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| **Use Case ID:** | 27 | |
| **Use Case Name:** | Rate care place | |
| **Actors:** | * Citizen | |
| **Pre-conditions:** | Search for Care place | |
| **Post-conditions:** | New rate is added to the care place | |
| **Flow of events:** | **User Action** | **System Action** |
| 1-user rate a care place with specific value |  |
|  | 2- system adds the new rate to the care place |

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| **Use Case ID:** | 28 | |
| **Use Case Name:** | Send SOS | |
| **Actors:** | Citizen | |
| **Pre-conditions:** | User is logged in | |
| **Post-conditions:** | The SOS is delivered to the nearest hospitals | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to send an SOS |  |
|  | 2- System asks the user to describe the problem/ emergency situation |
| 3- User types the description and submits the SOS |  |
|  | 4- System sends the SOS message to the nearest hospitals according to current user location |

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| **Use Case ID:** | 29 | |
| **Use Case Name:** | Accept SOS | |
| **Actors:** | Hospital admin - Doctor | |
| **Pre-conditions:** | - The user is logged in  - Doctor is able to respond if only he is a member in a hospital | |
| **Post-conditions:** | The SOS is marked as closed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to list SOSs sent to the hospital |  |
|  | 2- System shows a list of SOSs sent to that hospital |
| 3- User chooses the SOS that he wants to respond to |  |
|  | 4- System views the SOS details |
| 5- User chooses to accept the SOS |  |
|  | 6- System marks the SOS as closed, and sends a message to the user who sent the SOS, informing him with the name of the hospital that accepted his SOS |

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| **Use Case ID:** | 30 | |
| **Use Case Name:** | Cancel SOS | |
| **Actors:** | Citizen | |
| **Pre-conditions:** | - The user is logged in  - The user has already sent an SOS | |
| **Post-conditions:** | The SOS is cancelled | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses view his SOSs |  |
|  | 2- System views SOSs sent by the user |
| 3- User chooses to cancel an SOS |  |
|  | 4- System cancels the SOS |

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| **Use Case ID:** | 31 | |
| **Use Case Name:** | Accept Membership Request | |
| **Actors:** | Pharmacy Owner | |
| **Pre-conditions:** | -The user is logged in  -pharmacy view is opened | |
| **Post-conditions:** | The system adds the User to Pharmacy Staff | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to view membership requests |  |
|  | 2- System displays a list of all pending membership requests |
| 3- User chooses to accept membership a request |  |
|  | 4- System adds the User to the Pharmacy staff member |

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| **Use Case ID:** | 32 | |
| **Use Case Name:** | Reject Membership Request | |
| **Actors:** | Pharmacy Owner | |
| **Pre-conditions:** | -The user is logged in  -pharmacy view is opened | |
| **Post-conditions:** | The system deletes the User from Pending requests | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User chooses to view Membership requests |  |
|  | 2- System displays a list of all pending membership requests |
| 3- User chooses to reject a request |  |
|  | 4- System deletes the request from pending requests |

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| **Use Case ID:** | 33 | |
| **Use Case Name:** | Add Workday | |
| **Actors:** | Pharmacy Owner | |
| **Pre-conditions:** | * The user is logged in * Pharmacy view is opened | |
| **Post-conditions:** | Workday is added | |
| **Flow of events:** | **User Action** | **System Action** |
| 1-user chooses to add new workday to pharmacy |  |
|  | 2- System displays a template |
|  | 3- user adds the required data to add new workday the clicks to add new workday |  |
|  |  | 4- System saves the new workday |

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| **Use Case ID:** | 34 | |
| **Use Case Name:** | Update Workday | |
| **Actors:** | Pharmacy Owner | |
| **Pre-conditions:** | * The user is logged in * The user chooses the workday | |
| **Post-conditions:** | Workday is updated | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User updates workday |  |
|  | 2-system displays template to update workday |
| 3-user updates workday and clicks to update |  |
|  | 2- System updates the workday |

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| **Use Case ID:** | 35 | |
| **Use Case Name:** | Delete Workday | |
| **Actors:** | Pharmacy Owner | |
| **Pre-conditions:** | * The user is logged in * The user chooses workday | |
| **Post-conditions:** | Workday is Deleted | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- User clicks to delete workday |  |
|  | 2- System deletes the workday |

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| **Use Case ID:** | 36 | |
| **Use Case Name:** | Show Pharmacy medicines | |
| **Actors:** | Pharmacist | |
| **Pre-conditions:** | * The Pharmacist is logged in * Pharmacy view is opened | |
| **Post-conditions:** | Pharmacy medicines is displayed | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- Pharmacist chooses to show Pharmacy medicines |  |
|  | 2- System displays a Pharmacy medicines |

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| **Use Case ID:** | 37 | |
| **Use Case Name:** | Add Pharmacy medicine | |
| **Actors:** | Pharmacist | |
| **Pre-conditions:** | * The Pharmacist is logged in * Pharmacy view is already opened | |
| **Post-conditions:** | A new medicine is added to pharmacy medicines | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- Pharmacist chooses to add a new medicine |  |
|  | 2- System displays a template to add new medicine |
| 3- Pharmacist fills the fields to add medicine then clicks to add medicine |  |
|  | 4-system saves the medicine to the pharmacy medicines |
| **Exceptions** | **User Action** | **System Action** |
| 1- Pharmacist adds medicine that already exists in the pharmacy medicines |  |
|  | 2- System warns the user |

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| **Use Case ID:** | 38 | |
| **Use Case Name:** | Update Pharmacy medicine | |
| **Actors:** | Pharmacist | |
| **Pre-conditions:** | * The Pharmacist is logged in * pharmacy medicine is opened | |
| **Post-conditions:** | A medicine is updated | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- Pharmacist choose to update medicine |  |
|  | 2-system displays template to update medicine |
| 3- Pharmacist writes updates that he/she need to update medicine  Updates may be:   * Medicine Quantity * Medicine Expiration Date * Medicine Reorder Level   4- Pharmacist makes updates then clicks to update medicine |  |
|  | 5-system updates medicine |

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| **Use Case ID:** | 39 | |
| **Use Case Name:** | Delete Pharmacy medicine | |
| **Actors:** | Pharmacist | |
| **Pre-conditions:** | * The Pharmacist is logged in * Pharmacy medicine is opened | |
| **Post-conditions:** | A medicine is deleted | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- Pharmacist chooses to delete medicine from pharmacy Medicines |  |
|  | 2-system deletes medicine from pharmacy medicines |

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| **Use Case ID:** | 40 | |
| **Use Case Name:** | Sell Medicines | |
| **Actors:** | Pharmacist | |
| **Pre-conditions:** | * The Pharmacist is logged in * Pharmacy view is opened | |
| **Post-conditions:** | Medicines are sold | |
| **Flow of events:** | **User Action** | **System Action** |
| 1- Pharmacist chooses to sell medicines |  |
|  | 2- System displays template to user |
| 3- Pharmacist fills template by writing medicines and its quantity the click to print receipt |  |
|  | 4-system calculates the total price, update Pharmacy medicines and print receipt  5-alert user if there is medicine reaches the reorder level |