**Use Cases**

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| **ID and name** | UC-1: **Sign Up** | | |
| **Primary actor** | Admin  Pharmacist  Doctor | **Secondary actors** | System |
| **Description** | A user creates his account. | | |
| **Trigger** | The user opens the app. | | |
| **Preconditions** | PRE-1. User account is not already created. | | |
| **Postconditions** | POST-1. User receives an authentication status response: successful, unsuccessful. | | |
| **Flow** | 1. The user introduces his first name in the "First Name Field" field. 2. The user introduces his second name in the "Second Name Field" field. 3. The user introduces his identification number in the "Identification Number Field" field. 4. The user introduces his username in the "Username" field. 5. The user introduces his password in the "Password" field. 6. User presses the “Sign Up” button. 7. System validates the data and print message: successful or unsuccessful. 8. In case of successful registration, the menu will open. Otherwise, the registration will restart. | | |
| **Exceptions** | * + - 1. Existent account: User will press “Log In” button and will register to his account.       2. Invalid credentials: The app displays message “Invalid credentials!”. User will register again. | | |

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| **ID and name** | UC-2: **Log In** | | |
| **Primary actor** | Admin  Pharmacist  Doctor | **Secondary actors** | System |
| **Description** | A user registers in his account. | | |
| **Trigger** | The user opens the app. | | |
| **Preconditions** | PRE-1. User account is already created. | | |
| **Postconditions** | POST-1. The user receives an authentication status response: successful, unsuccessful. | | |
| **Flow** | 1. The user introduces his username in the "Username" field. 2. The user introduces his password in the "Password" field. 3. User presses the “Log In” button. 4. System validates the data and print message: successful or unsuccessful. 5. In case of successful authentication, the menu will open. Otherwise, the authentication will restart. | | |
| **Exceptions** | * + - 1. Non-existent account: User will press “Sign Up” button and will create an account.       2. Wrong credentials: The app displays message “Invalid credentials!”. User will authenticate again. | | |

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| **ID and name** | UC-3: **Add medicine** | | |
| **Primary actor** | Admin | **Secondary actors** | System |
| **Description** | The admin adds new medicine in medicine list. | | |
| **Trigger** | There is a new medicine that needs to be introduced in the database. | | |
| **Preconditions** | PRE-1. Admin is logged in. | | |
| **Postconditions** | POST-1. The medicine is in the list and all doctors can order it from their lists. | | |
| **Flow** | 1. Data for the new medicine is introduced in the fields. 2. The user presses the “Add” button. 3. Data is validated. 4. New medicine is added to the medicine database. 5. The list of medicines from each department is updated. | | |
| **Exceptions** | * + - 1. Initial invalid quantity: The app displays message “Invalid quantity!”. The app is waiting for a value > 0.       2. Invalid data: The app displays message “Invalid data!”. Valid data must be introduced.       3. Medicine already exists in the system: the quantity increases with the new one added | | |

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| **ID and name** | UC-4: **Delete medicine** | | |
| **Primary actor** | Admin | **Secondary actors** | System |
| **Description** | The admin deletes medicine in medicine list. | | |
| **Trigger** | There is a medicine that needs to be erased from the database. | | |
| **Preconditions** | PRE-1. Admin is logged in.  PRE-2. Medicine exists in list | | |
| **Postconditions** | POST-1. The medicine is no longer in the list and all doctors can see the new list updated. | | |
| **Flow** | 1. ID for the medicine which needs to be erased is introduced in the field. 2. The user presses the “Delete” button. 3. ID is validated. 4. Medicine is deleted from the medicine database. 5. The list of medicines from each department is updated. | | |
| **Exceptions** | * + - 1. Non-existent ID: The app displays message “Invalid ID!”. The app is waiting for an existent ID. | | |

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| **ID and name** | UC-5: **Update medicine** | | |
| **Primary actor** | Admin | **Secondary actors** | System |
| **Description** | The admin updates a medicine in medicine list. | | |
| **Trigger** | There is a medicine that needs to be updated in the database. | | |
| **Preconditions** | PRE-1. Admin is logged in.  PRE-2. Medicine exists in list. | | |
| **Postconditions** | POST-1. All doctors can see the new list with the medicine updated. | | |
| **Flow** | 1. Data for the medicine which needs to be updated is introduced in the field. 2. The user presses the “Update” button. 3. ID is validated. 4. Data that needs to be updated is validated. 5. Medicine is updated in the medicine database. 6. The list of medicines from each department is updated. | | |
| **Exceptions** | * + - 1. Non-existent ID: The app displays message “Invalid ID!”. The app is waiting for an existent ID.       2. Invalid data: The app displays message “Invalid data!”. Valid data must be introduced. | | |

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| **ID and name** | UC-6: **View all medicine** | | |
| **Primary actor** | Admin  Doctor  Pharmacist | **Secondary actors** | System |
| **Description** | User wants to see the drugs from medicine list. | | |
| **Trigger** | The doctor wants to make an order. | | |
| **Preconditions** | PRE-1. The user is logged in. | | |
| **Postconditions** | POST-1. All users can see the list. | | |
| **Flow** | 1. The user presses the “View all” button. 2. The list of medicines is displayed in a table. | | |
| **Exceptions** | none | | |

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| **ID and name** | UC-7: **Create order** | | |
| **Primary actor** | Doctor | **Secondary actors** | System |
| **Description** | The doctor creates an order of medicines. | | |
| **Trigger** | The doctor wants to create an order. | | |
| **Preconditions** | PRE-1. The doctor is logged in.  PRE-2. List must be available. | | |
| **Postconditions** | POST-1. The pharmacists will see the order. | | |
| **Flow** | 1. The doctor selects from the list the medicine that he wants to order. 2. The doctor can see his cart being updated at every single added medicine. 3. The doctor selects the quantity of every medicine added. 4. The doctor presses the “Place order” button. 5. The order is sent to | | |
| **Exceptions** | * + - 1. The cart is empty: The app displays message “Empty cart!”. The app is waiting for a valid order. | | |

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| **ID and name** | UC-8: **View status orders** | | |
| **Primary actor** | Doctor | **Secondary actors** | System |
| **Description** | The doctor wants to see the status of his orders. | | |
| **Trigger** | The doctor wants to see if he will receive the medicine that he ordered. | | |
| **Preconditions** | PRE-1. The doctor is logged in.  PRE-2. The orders must be sent. | | |
| **Postconditions** | POST-1. The doctor will see the status off his orders in a list. | | |
| **Flow** | 1. The doctor presses the “View order status” button. 2. The order statuses will be displayed on a table with the message: pending, honored or rejected. | | |
| **Exceptions** | none | | |

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| **ID and name** | UC-9: **Update medicine list** | | |
| **Primary actor** | Pharmacist | **Secondary actors** | System |
| **Description** | The user will update the medicine in the list. | | |
| **Trigger** | The user discovered that the list must be updated. | | |
| **Preconditions** | PRE-1. The user is logged in. | | |
| **Postconditions** | POST-1. All pharmacists can see the new list with the medicine updated. | | |
| **Flow** | 1. The user presses the “Update medicine list” button. 2. A new window will be displayed. 3. The user can now add, delete or update a medicine. 4. The data for the add, delete or update will be introduced in certain fields. 5. The data will be validated. 6. If data is validated, then the list of medicines from each department is updated | | |
| **Exceptions** | * + - 1. Initial invalid quantity: The app displays message “Invalid quantity!”. The app is waiting for a value > 0.       2. Invalid data: The app displays message “Invalid data!”. Valid data must be introduced.       3. Medicine already exists in the system: the quantity increases with the new one added.       4. Non-existent ID: The app displays message “Invalid ID!”. The app is waiting for an existent ID. | | |

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| **ID and name** | UC-10: **View all orders** | | |
| **Primary actor** | Pharmacist | **Secondary actors** | System |
| **Description** | The pharmacist wants to see the orders from medicine list. | | |
| **Trigger** | The pharmacist wants to accept or reject orders. | | |
| **Preconditions** | PRE-1. The pharmacist is logged in. | | |
| **Postconditions** | POST-1. All pharmacists can see the list. | | |
| **Flow** | 1. The pharmacist presses the “View all orders” button. 2. The list of orders is displayed in a table. | | |
| **Exceptions** | none | | |

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| **ID and name** | UC-11: **Honoring the order** | | |
| **Primary actor** | Pharmacist | **Secondary actors** | System |
| **Description** | The pharmacist wants to accept an order. | | |
| **Trigger** | The pharmacy has all the drugs the doctor requested. | | |
| **Preconditions** | PRE-1. The pharmacist is logged in. | | |
| **Postconditions** | POST-1. The doctor will see that his order is honored. | | |
| **Flow** | 1. The pharmacist presses on the order. 2. All the drugs ordered are displayed in a table. 3. The pharmacist presses on the “accept order” button. 4. The status of this order will be updated and the doctor will see this. | | |
| **Exceptions** | * + - 1. There are not enough drugs of a certain category: The app will display the message “Order can not be honored due to high quantity!”. The order status will remain “pending”.       2. No order is selected. The app will display the message “No order selected!”. | | |

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| **ID and name** | UC-12: **Reject the order** | | |
| **Primary actor** | Pharmacist | **Secondary actors** | System |
| **Description** | The pharmacist wants to reject an order. | | |
| **Trigger** | The pharmacy has not all the drugs the doctor requested. | | |
| **Preconditions** | PRE-1. The pharmacist is logged in. | | |
| **Postconditions** | POST-1. The doctor will see that his order is rejected. | | |
| **Flow** | 1. The pharmacist presses on the order. 2. All the drugs ordered are displayed in a table. 3. The pharmacist presses on the “reject order” button. 4. The status of this order will be updated and the doctor will see this. | | |
| **Exceptions** | * + - 1. No order is selected. The app will display the message “No order selected!”. | | |

Iteration 1:

Create domain classes: User, Medicine, Order + others

Create database

Create database repository for all classes from domain

Create a service for:

Display all medication

Find user data

Create GUI for SignUp, LogIn page, Medication List

Iteration 2:

Add new functionalities to service

Add, delete, update medication

Add order

View all orders

Create GUI for Doctor and Pharmacist

Iteration 3:

Add new functionalities to service

accept, reject order

View order status

Update medicine list –Pharmacist

Create GUI for Doctor and Pharmacist