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# **Chapter 1**

# **Introduction**

## **1.1 Purpose**

The purpose of this report is to give detailed description of the application for online medicine purchasing and ordering named EasyMed. It will clarify the main motive and functionalities of the proposed application, the interfaces of the system, what this application will do, etc. This document will also show the constrains of the app and how to overcome those obliges.

## 

## **1.2 Intended Audience**

This project is about online medicine ordering and purchasing. The intended audience is the honorable faculty member of Software Engineering course and the supervisor of this project Md. Musfique Anwar and the project managers & developers.

## **1.3 Intended Use**

This project is intended to make buying medicine easy for everyone. By using this app anyone can buy medicine and deliver it to them without having to go to a pharmacy. Furthermore, anyone can see the description and side effects without confronting anyone.

## **1.4 Product Scope**

The primary purpose of EasyMed is to purchase medicine by just a single click and to reduce the time consumption. This system will allow user to purchase the medicines and healthcare products through an app and get delivery at home 24/7. The user can also get symptoms-based suggestion and expert advice. This system will save a lot of time of the user. This app-based system will also serve patients in case of emergency.

# **Chapter 2**

# **System Architecture Description**

2.1 Overview of modules/components

2.2 Database

**2.3 Class Libraries**

# **Chapter 3**

# **Diagrams**

3.1 E-R diagrams

3.2 Database schema

3.3 UML diagrams

3.3.1 Use case diagrams



**Use Case Name**: Search Medicine

**Actors**: Customer

**Preconditions**: The user must know the name of the medicine.

**Description ("Scenario")**:

1. The user puts the name of the medicine or the name of the company in the search box.

2. The user is shown all the medicine with that name or sold by the company.

3. The user maybe shown medicine similar to the searched medicine.

**Exceptions (Scenario)**:

The user puts the wrong name of the medicine or wrong name of the company.

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**Postconditions**:

The user proceeds to select the medicine and add it to cart to confirm the order.

**Use Case Name**: Order medicine

**Actors**: Customer

**Preconditions**: The user must select the medicine he wants to buy .

**Description ("Scenario")**:

1. The user clicks on the medicine he wants to buy and add it’s to cart.

2. The user clicks on the checkout option.

3. The user clicks on the payment option.

**Exceptions (Scenario)**:

The user doesn’t add the required medicine to cart.

**Postconditions**:

The user heads towards the payment option to complete his payment.

**Use Case Name**: Payment

**Actors**: Customer

**Preconditions**: The user must select how he wants to complete his payment.

**Description ("Scenario")**:

1. The user clicks on pay on delivery option to pay after receiving the medicine.

2. The user clicks on pay online option to pay through bkash.

**Exceptions (Scenario)**:

The user doesn’t complete his payment through bkash then his order will be cancelled.

**Postconditions**:

The user gets a confirmation number through message after he finishes his payment using bkash.

**Use Case Name**: Make an appointment

**Actors**: Customer

**Preconditions**: The user need to select the the date and time he wants to make an appointment with the specialist to talk with him personally.

**Description ("Scenario")**:

1. The user clicks on make an appointment option.

2. The user puts his date and time of convenience to make an appointment.

3. The user may put emergency on his appointment request.

**Exceptions (Scenario)**:

The user puts wrong date and time to make the appointment.

**Postconditions**:

The user gets a confirmation of the appointment with the specialist.

**Use Case Name**: Submit prescription.

**Actors**: Customer.

**Preconditions**: The user needs to submit a prescription to buy any sleeping medicine.

**Description ("Scenario")**:

1. The user selects submit your prescription option.

2. The user uploads the prescription in jpeg or pdf form.

3. The prescription is sent to the admin for verfiacation

**Exceptions (Scenario)**:

Any false or modified document was submitted.

**Postconditions**:

The user gets to select the sleeping if his prescription was verified by the admin.

**Use Case Name**: Check availability.

**Actors**: Admin.

**Preconditions**: The admin checks if the required medicine is available in the nearby pharmacy.

**Description ("Scenario")**:

1. The admin sends a delivery man to the local pharmacy to check if the medicines are available in stock.

2. The admin confirms the order after finding the medicine in stock.

**Exceptions (Scenario)**:

The medicine is not available in any pharmacy.

**Postconditions**:

The admin confirms the delivery man to complete the order.

**Use Case Name**: Confirm order.

**Actors**: Admin.

**Preconditions**: The admin verifies if all the process was done accordingly.

**Description ("Scenario")**:

1. The admin checks if the medicine is available in stock.

2. The admin confirms if the payment option was selected successfully.

**Exceptions (Scenario)**:

Any of the steps had some error in it .

**Postconditions**:

The admin sends the customer a message of his order being confirmed.

**Use Case Name**: Verify payment.

**Actors**: Admin.

**Preconditions**: The admin verifies the payment which the customer has selected.

**Description ("Scenario")**:

1. The admin checks if the pay on delivery option was selected

2. The admin confirms if the payment through bkash was valid.

**Exceptions (Scenario)**:

The payment through bkash was not received successfully.

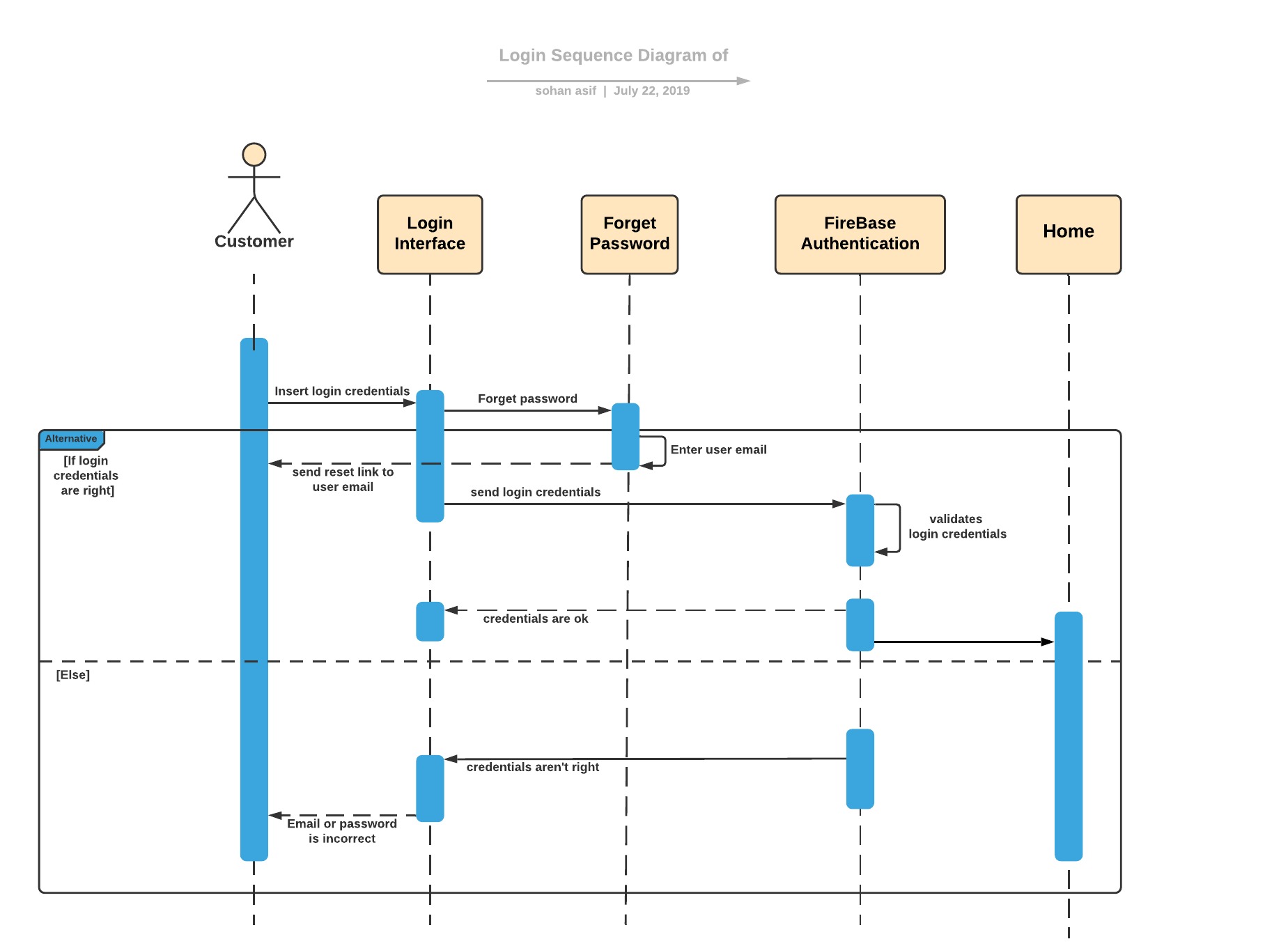
**Postconditions**:

The admin sends the customer a message of his payment was received successfully.

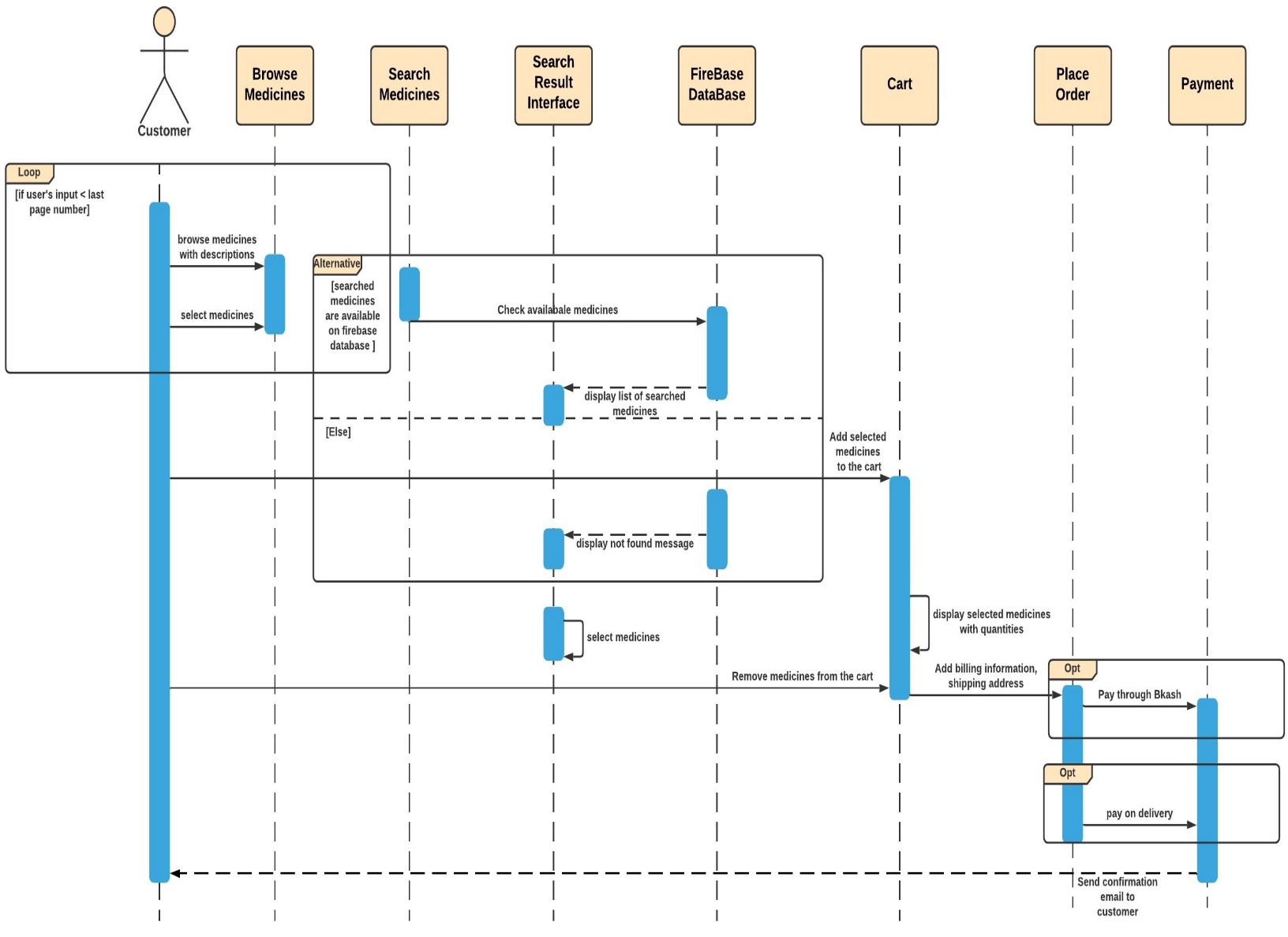
3.3.2 Class diagrams

**3.3.3 Sequence diagrams**

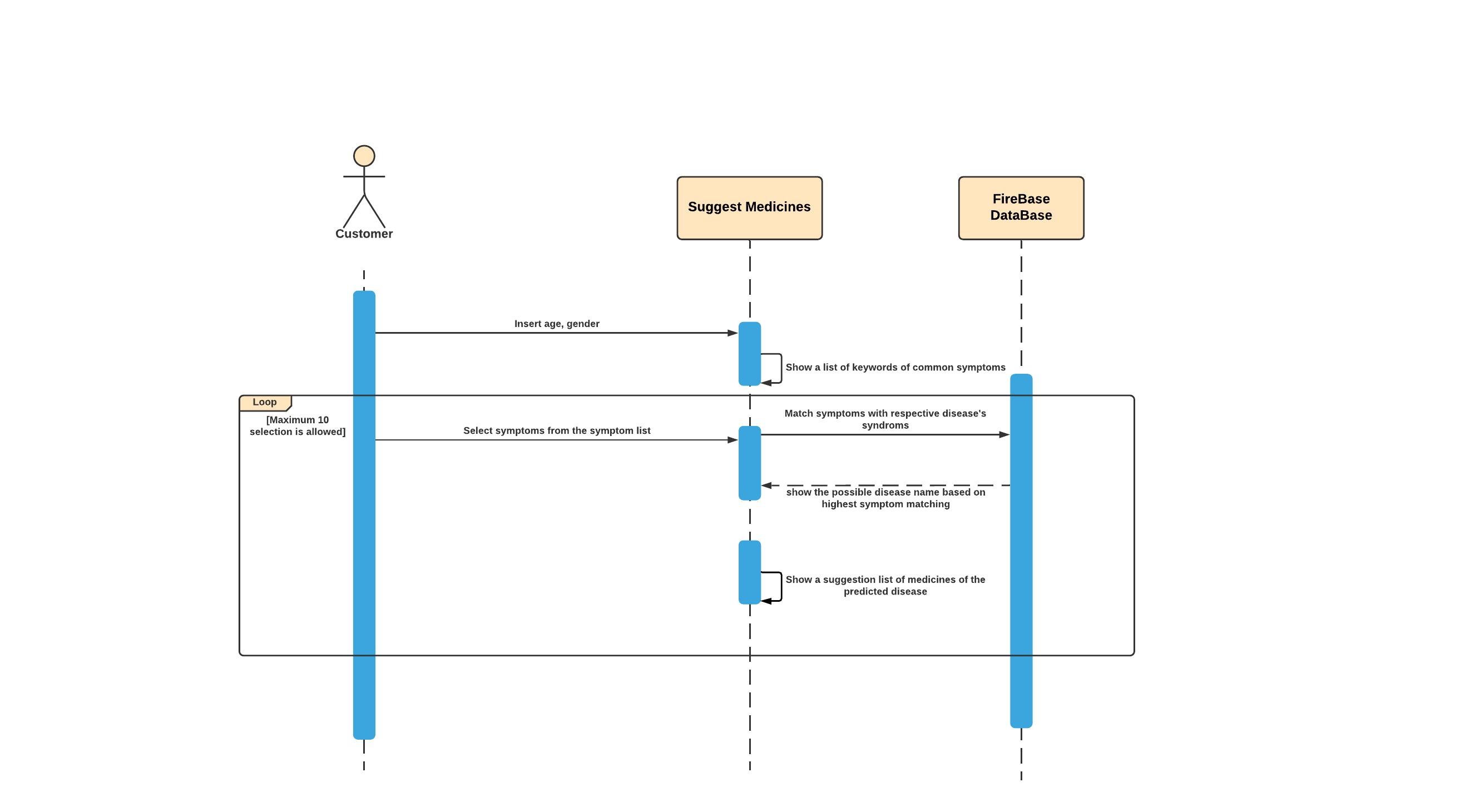
* Sequence diagram of login interface

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* Sequence Diagram of services of EasyMed

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* Sequence diagram of Suggest Medicines based on symptoms



* Sequence diagram of Expert Counselling service

