

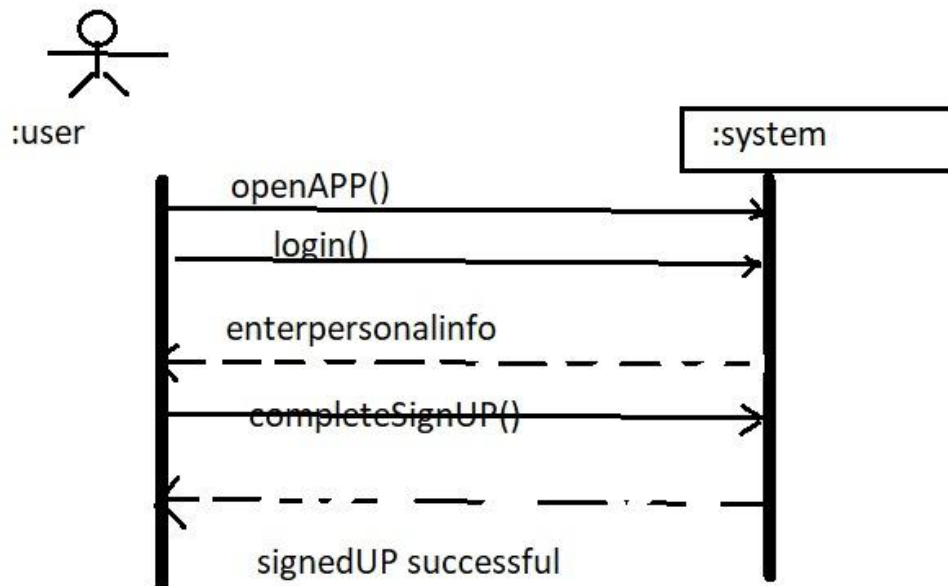
# OOAD Project Deliverable 2

BSEF19M015 Haider Ali

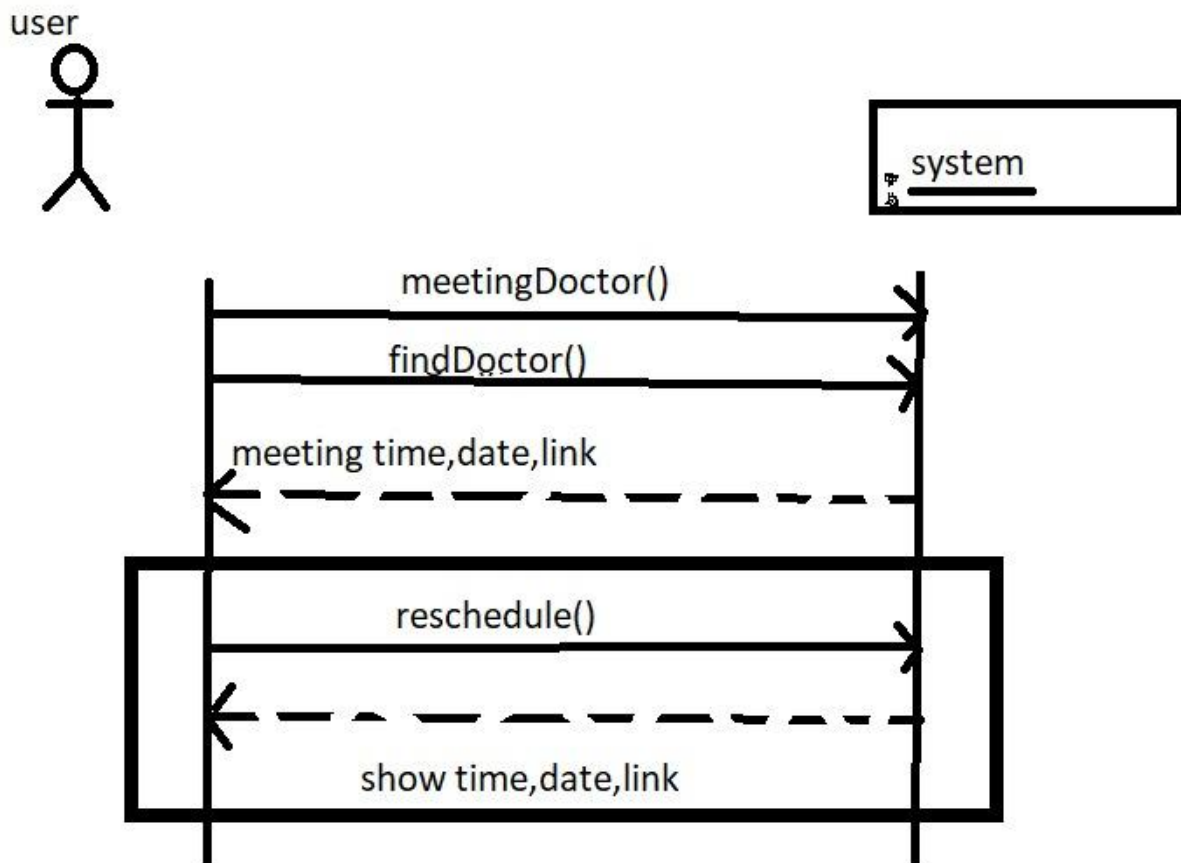
BSEF19M023 Zain Ul Abdin

BSEF19M002 Hammad Akhtar

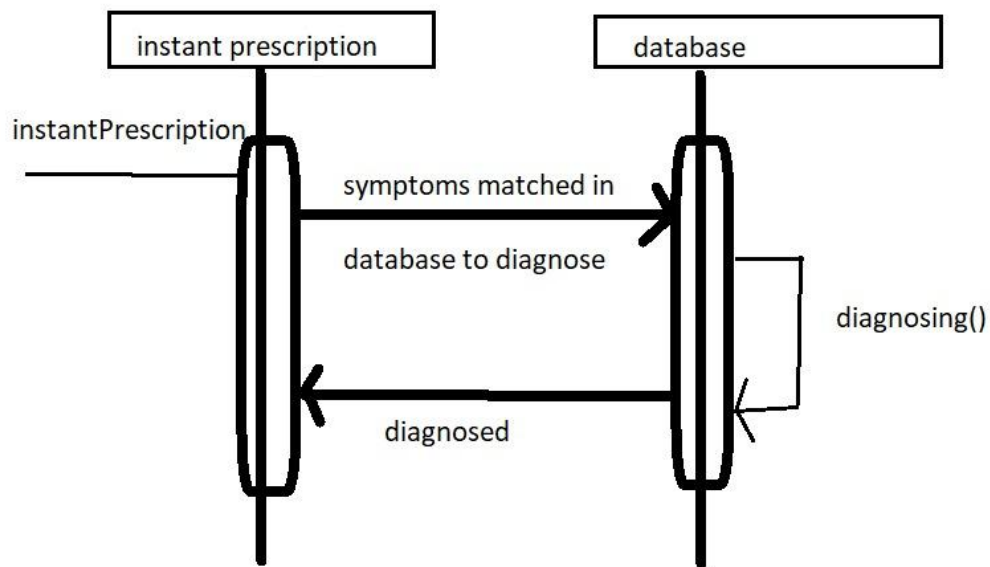
## System Sequence Diagram 1 (sign Up)



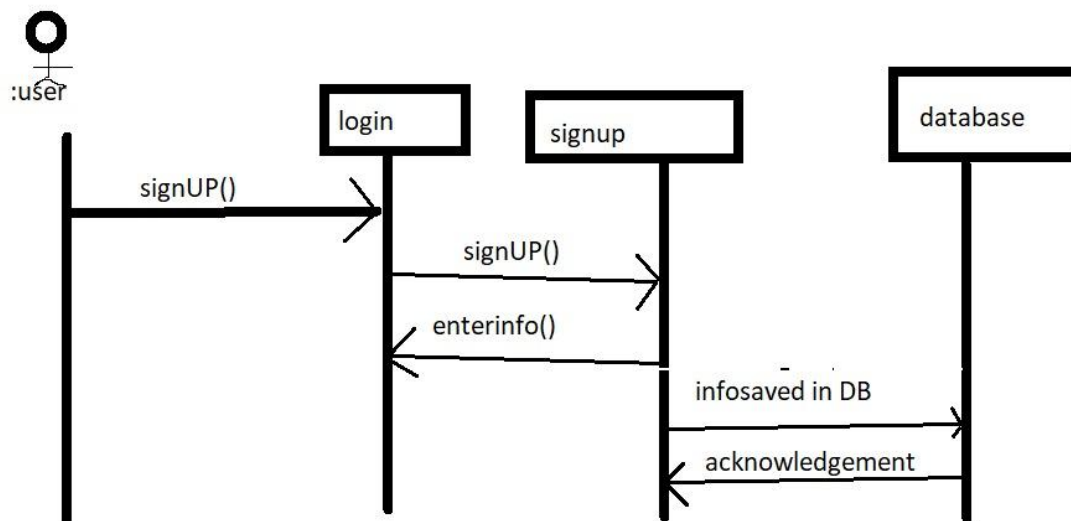
## System Sequence Diagram 2 (appointing doctor)



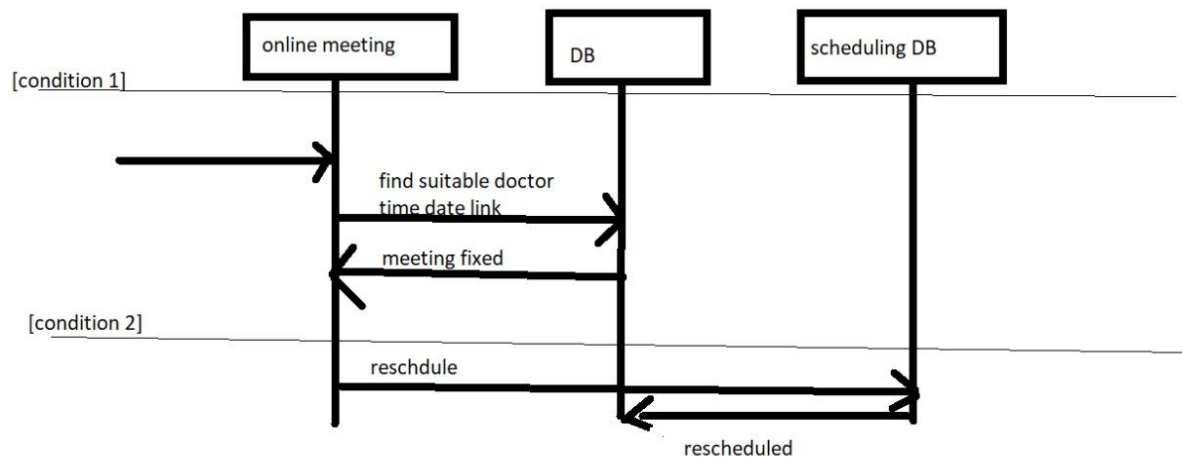
## Sequence Diagram 1 (instant prescription)



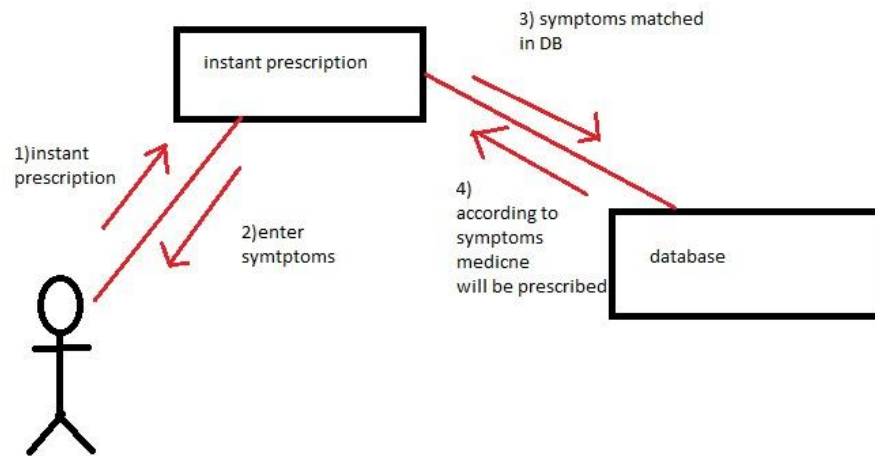
## Sequence Diagram 2 (sign up)



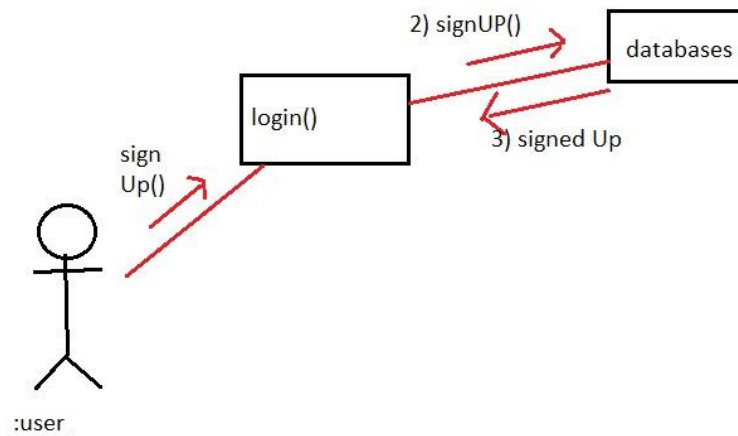
## Sequence Diagram 3 (online meeting)



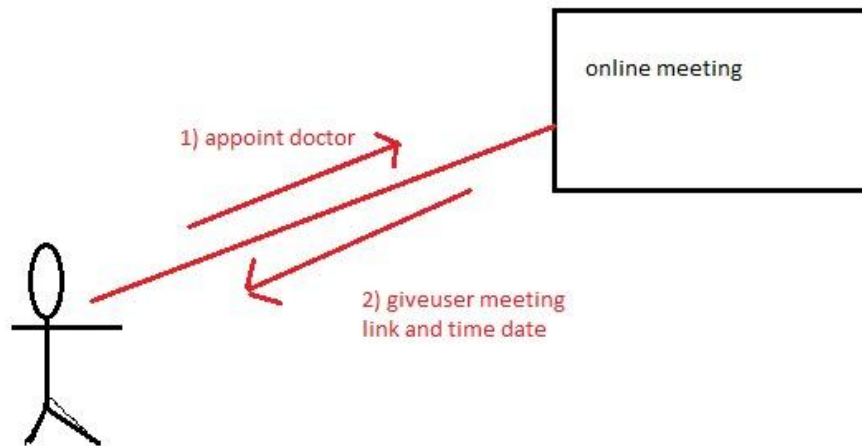
## Collaboration Diagram 1 (instant prescription)



## Collaboration Diagram 2 (signup)



## Collaboration Diagram 3 (appointing doctor)



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## Use Case Operational Contracts:

### **Operation:**

Login/Signup(username, password)

### **Cross Reference:**

Use case: Login

### **Precondition:**

The app has successfully been opened

### **Post condition:**

- A user ID instance ID is created/validated
- ID.username becomes username
- ID.password becomes password
- ID was associated with useridentification based on username/password match

**Operation:**

EnterSymptoms(Symptoms)

**Cross Reference:**

Use case: Instant Prescription

**Precondition:**

The user has been authenticated by Login/Signup

**Post condition:**

- A prescription item instance prescription is retrieved according to Symptoms
- A medicine is prescribed for the respective symptoms provided by the user
- The user's medical record is updated

**Operation:**

SelectAppointment(gender, date, time)

**Cross Reference:**

Use case: Doctor Appointment

**Precondition:**

The user has been authenticated by Login/Signup

**Post condition:**

- A new appointment instance appointment is created
- appointment.gender becomes gender
- appointment.date becomes date
- appointment.time becomes time
- Appointment with a doctor is set based on gender, date and time match
- The user's medical record is updated

**Operation:**

ViewRecord()

**Cross Reference:**

Use case: Medical Record Feature

**Precondition:**

The user has been authenticated by Login/Signup

**Post condition:**

- A medical record instance record is retrieved from the database



- The record of the user is displayed giving the records of all the previous prescriptions and doctor appointments

**Operation:**

Reschedule(newdate, newtime)

**Cross Reference:**

Use case: Schedule Changing

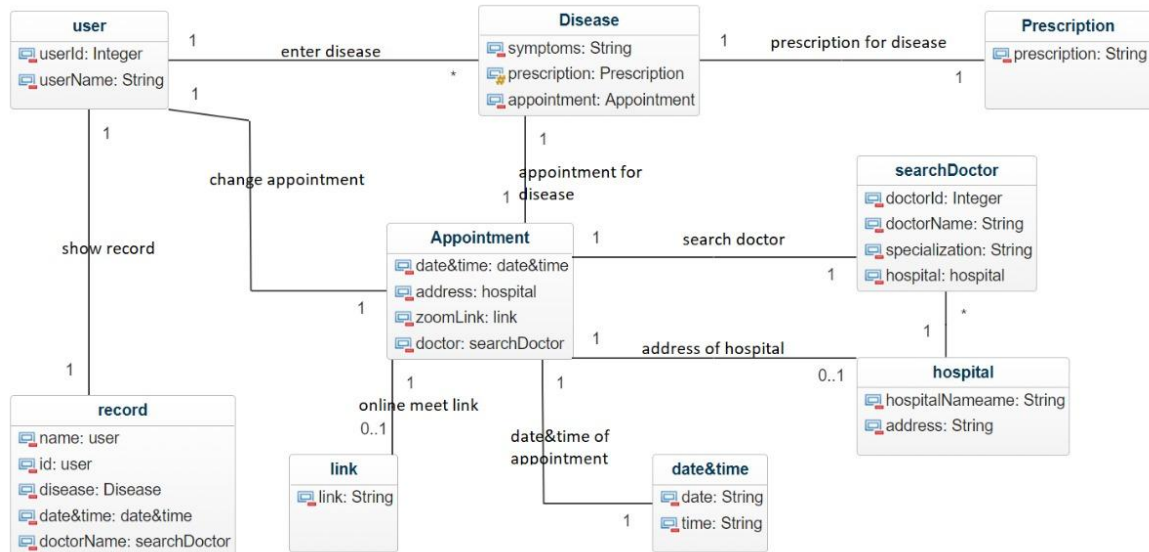
**Precondition:**

- The user has been authenticated by Login/Signup
- The user has already fixed an appointment with a doctor

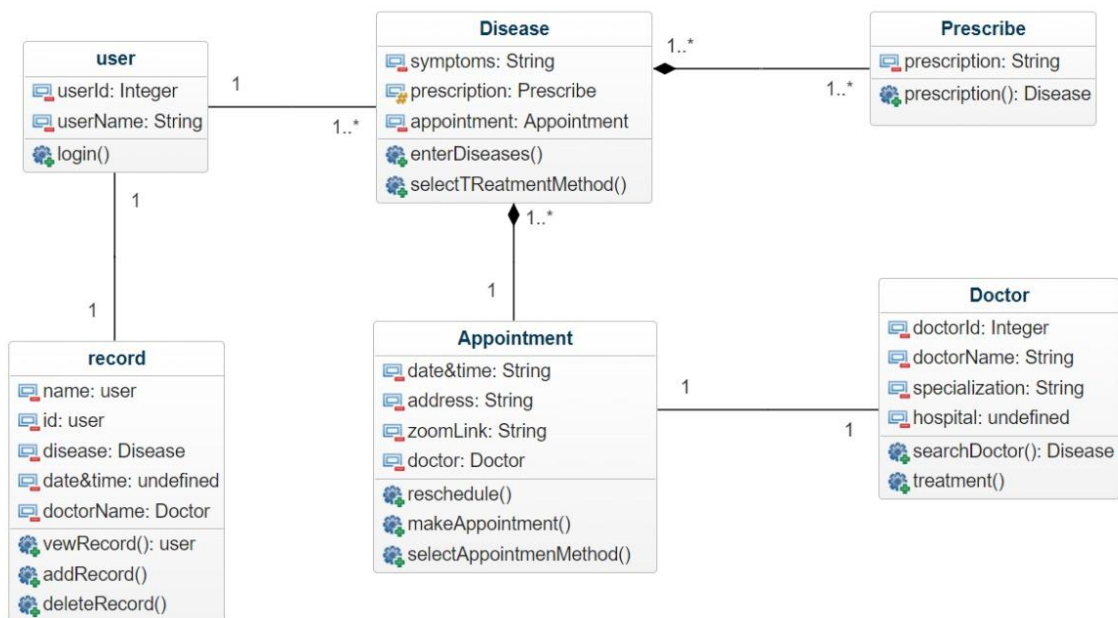
**Post condition:**

- An appointment instance appointment is retrieved from the database
- appointment.newdate becomes date
- appointment.newtime becomes time
- The new date and time are rescheduled for the appointment
- The user's medical record is updated

## **Domain Model**



## Domain Class Diagram



## Architecture:

