Software Engineering

Project report

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Problem statement:

Clinic appointment reservation system:
The purpose of this project is to prevent conflicts of appointments that always happen.
A clinic appointment reservation system is a system used in clinics by doctors and receptionists to easily manage doctors' appointments. Doctors can add their free appointments within the upcoming week or view their already reserved appointments. Receptionists can search for free appointments, reserve appointments for patients, search for a reserved appointment, edit appointments or cancel appointments. Each user has a unique ID and password to use the system.

2.3 first milestone :

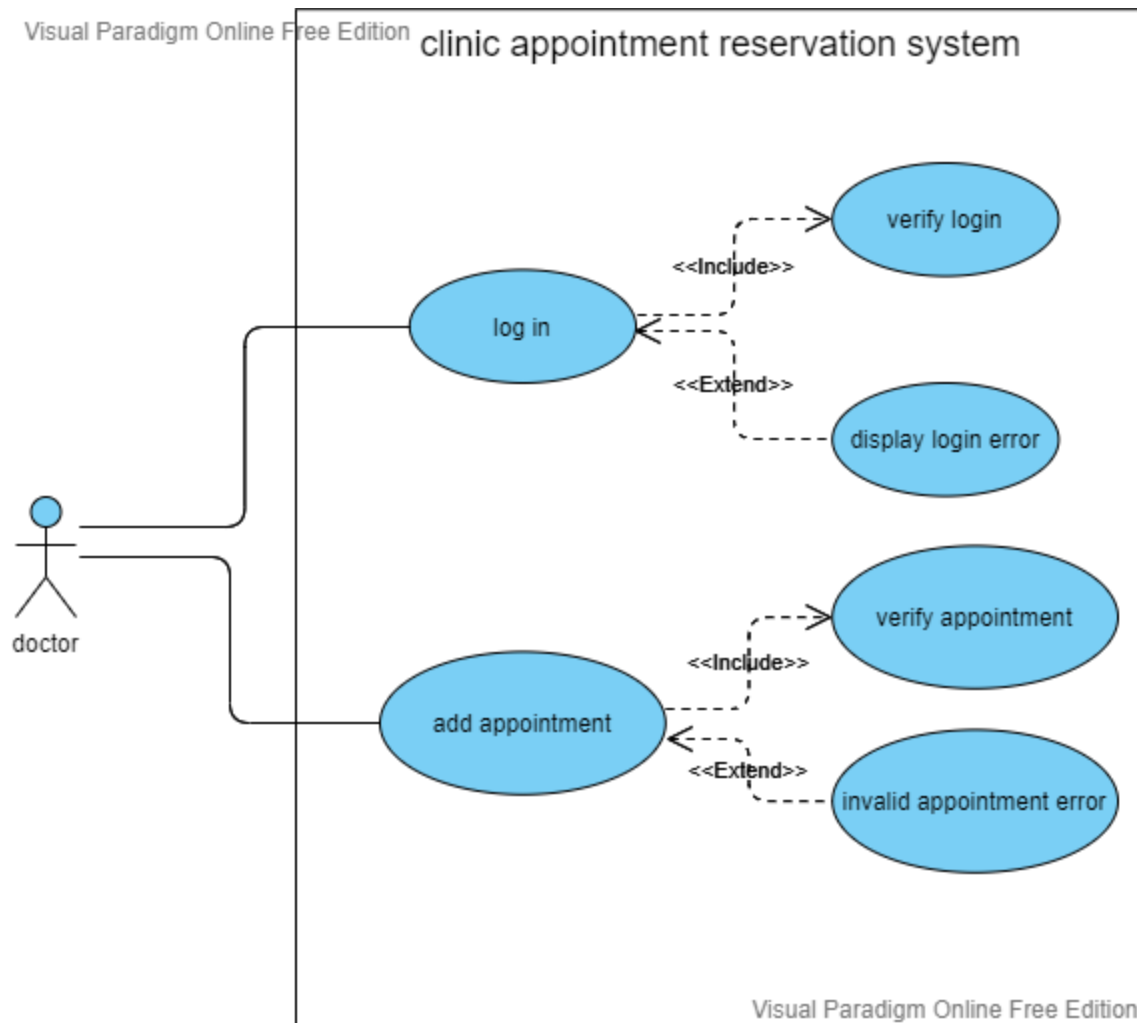## Requirements elicitation:

<u>Doctor functionalities:</u>

- Login.
- Add a free appointment.

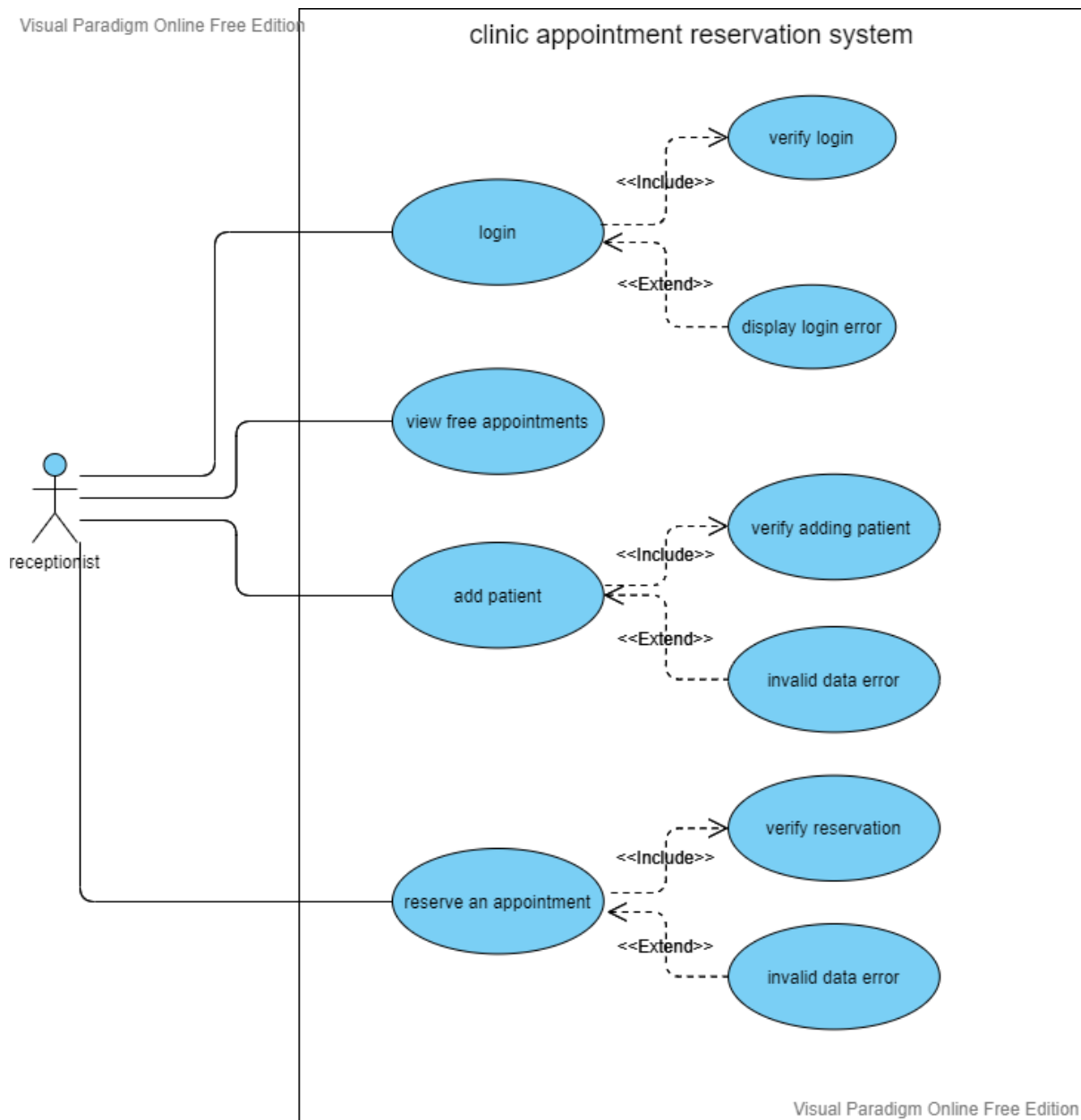<u>Receptionist functionalities:</u>

- Login.
- View all free appointments.
- Add patient information.
- Reserve an empty appointment for a patient.

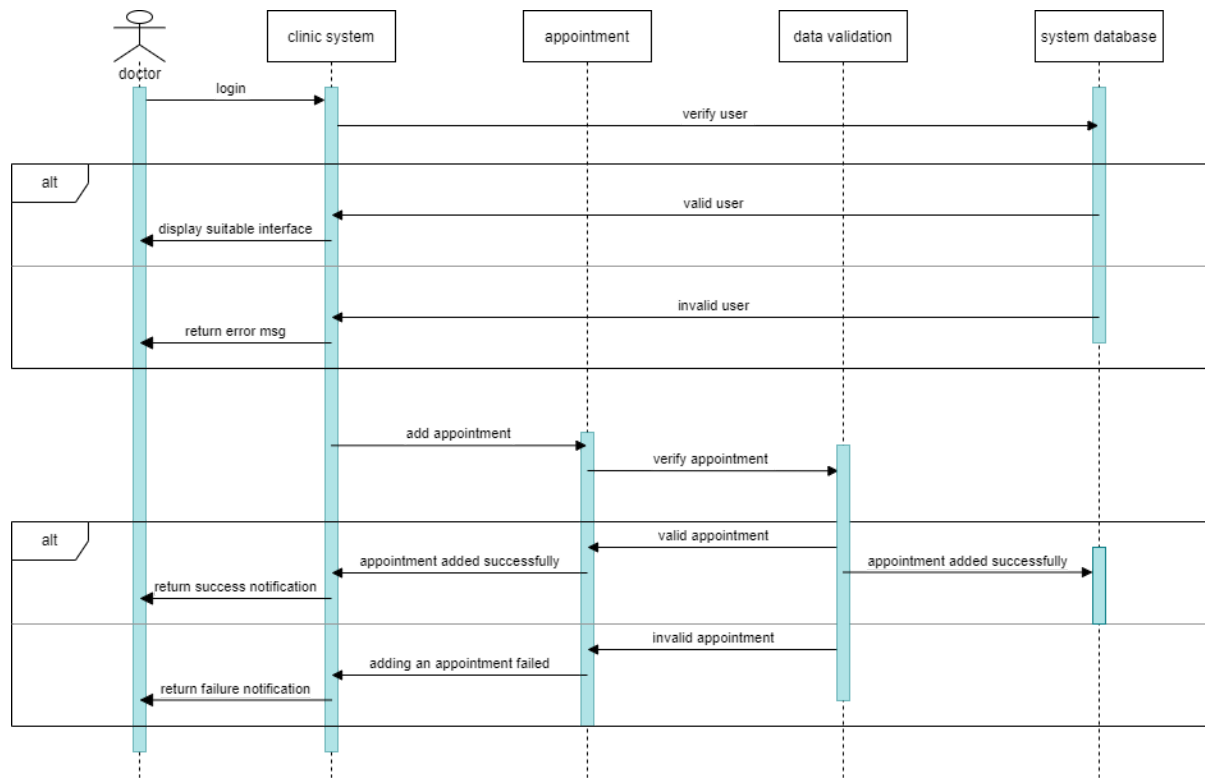## Interaction diagrams :

- Use case diagram for a doctor :

clinic appointment reservation system

doctor

verify login

<<Include>>

log in

<<Extend>>

display login error

verify appointment

<<Include>>

add appointment

<<Extend>>

invalid appointment error

● Use case diagram for a receptionist :

clinic appointment reservation system

verify login

<<Include>>

login

<<Extend>>

display login error

view free appointments

verify adding patient

<<Include>>

add patient

<<Extend>>

invalid data error

verify reservation

<<Include>>

reserve an appointment

<<Extend>>

invalid data error

receptionist

Activity diagrams :

- Sequence diagram for a doctor:
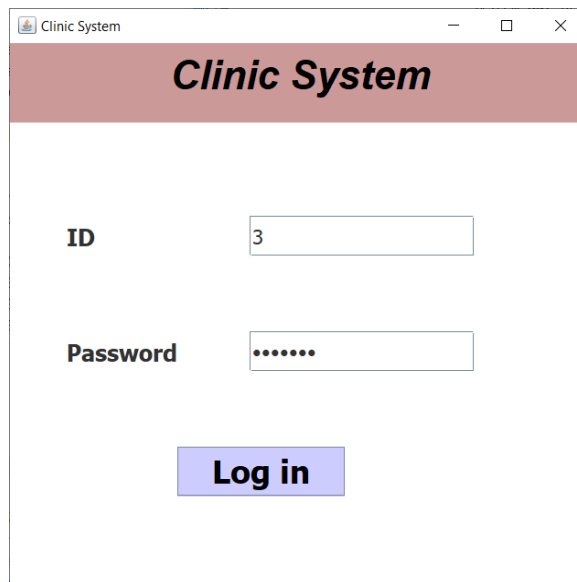
● Sequence diagram for a receptionist:
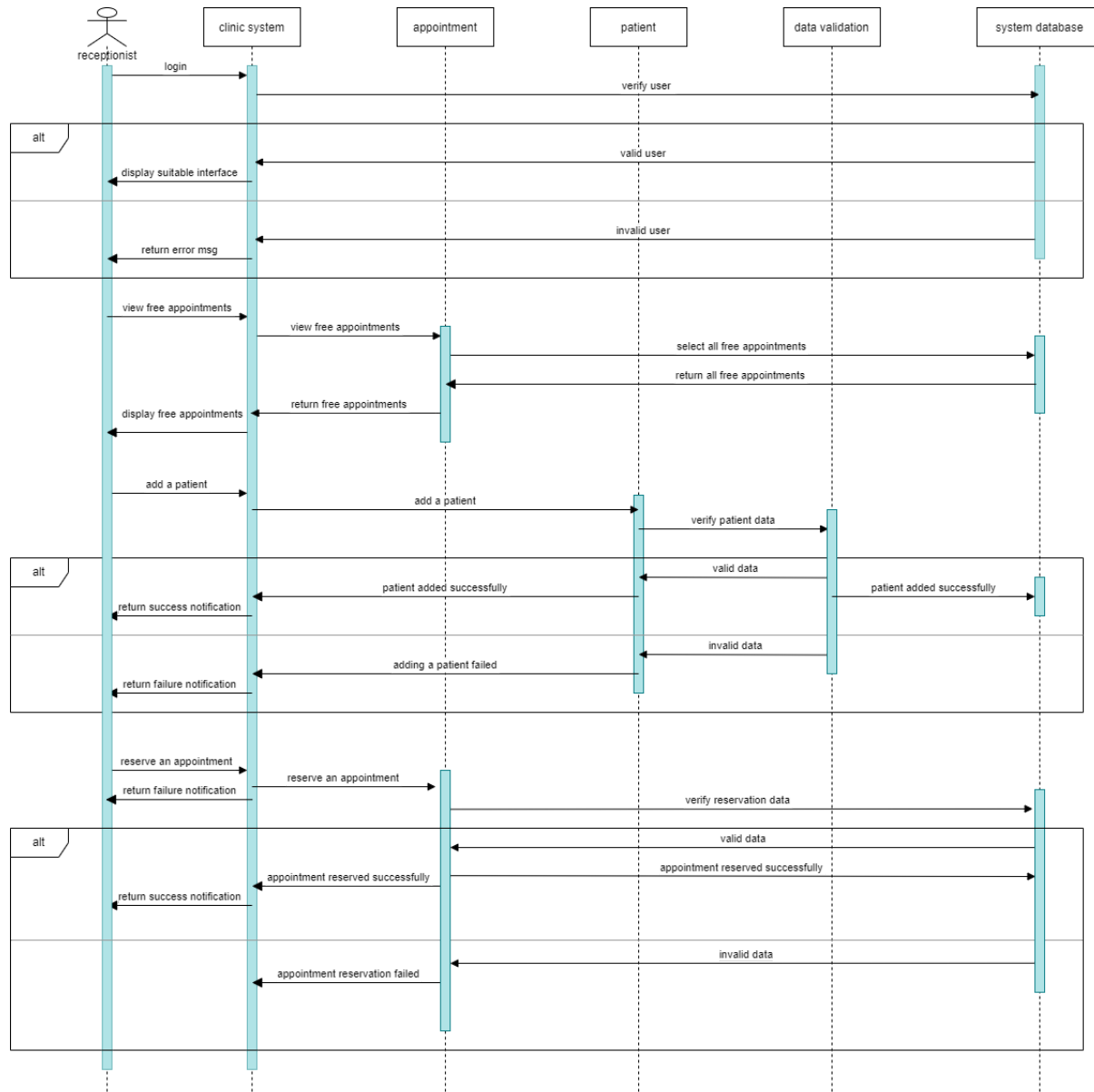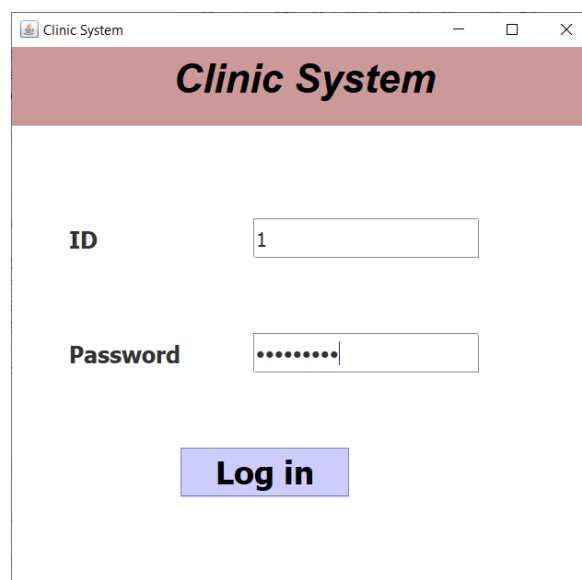
User guide :

- First, user entre his ID and password
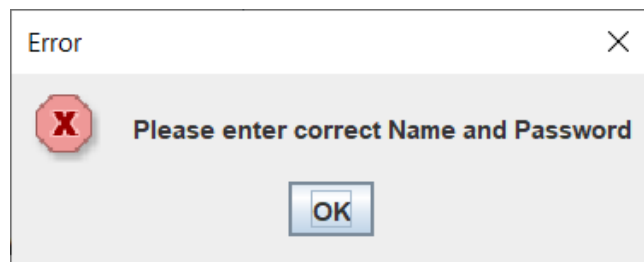
- After verifying ID and password, we returns the suitable interface:
- Doctor interface:

● Receptionist interface:

<u>Doctor interface:</u>

- Doctor can add a new free appointment by entering date and time as following:

For invalid date or time, error message appeared as following:
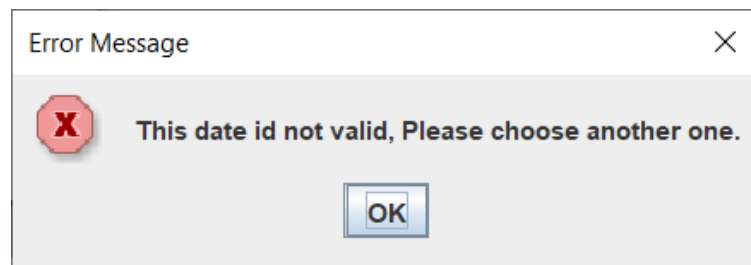
Receptionist interface:

- Receptionist can add a new patient data as following:
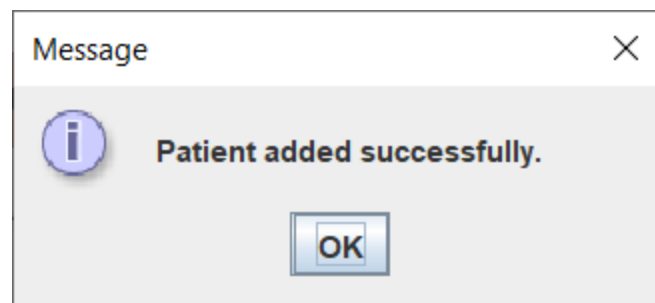
● Receptionist can view all free appointments as following:

Error Message ✕

❌ **No Appointments.**

OK
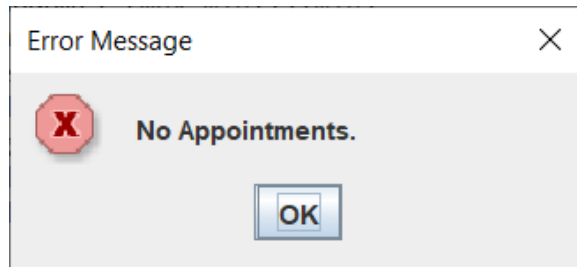
☕ Clinic System   — ☐ ✕

Doctor Id	Doctor Name	Date	Time
1	salma	2022-11-25	22:38:44
1	salma	2022-12-25	21:36:46

● Receptionist can reserve an appointment to a patient as following:

For invalid data, error message appeared as following:
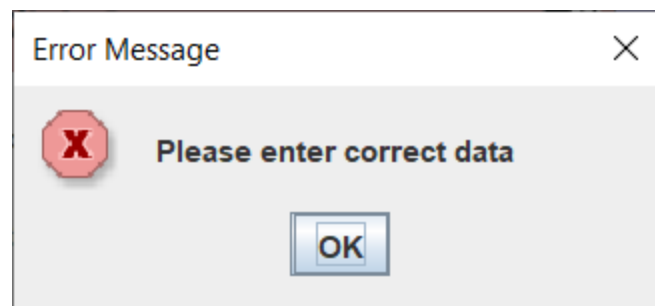
Libraries included:

- Mysql-connector java jar