Hospital System

supervised by : Dr. Hadeer Ahmed

Advanced Programming

submission date: 22/4/2024

(group number 1)

1-TEAM MEMBERS

a-Abd-Elrahman Yahya
b-Mahmoud Abd-Elmenem
c-Mahmoud Khaled
d-Mostafa Salah
e-Mosab Mohammed

2-Project idea:

- A system of a hospital and their workers including: doctors , nurses , patients and their staff.
- There is also a system for entering and displaying data for doctors, nurses, and patients
- And search for them by using ID

3-Work distribution:

- **Mosab Mohammed and Mahmoud Abd-Elmenem :**
  GUI,Login,Sound, Slides card and Test the project

- **Mostafa Salah :**
  Design and Files

- **Mahmoud Khaled and Abd-Elrahman Yahya :**
  Action Button , Dark mode, UML and Report

4-Action steps:

4-1 Choosing the idea.
4-2 Choosing classes and GUI.
4-3 Making of flowchart and UML.
4-4 Building classes and GUI
4-5 Making of main_minu and another classes.
4-6 Making of files and their functions.
4-7 Linking between files , classes and functions and GUI.
4-8 Testing the project.

5-classes:

- Person:
  The base class which all classes are derived from.
  It includes information of every human-being like:
  Name , age and gender.

- Worker:
  A derives class form person which includes data like :
  Salary and bonus.

- Doctor:
  A derived class from worker that includes data of doctors like:
  profession.

- nurses:
  A derived class from worker that includes data of nurses.

- staff:
  A derived class from worker that includes data of nurses.

- patients:
  A class that includes all related data to patients like : Diseases.

6-GUI

- Login:
  Log in with your username and password.

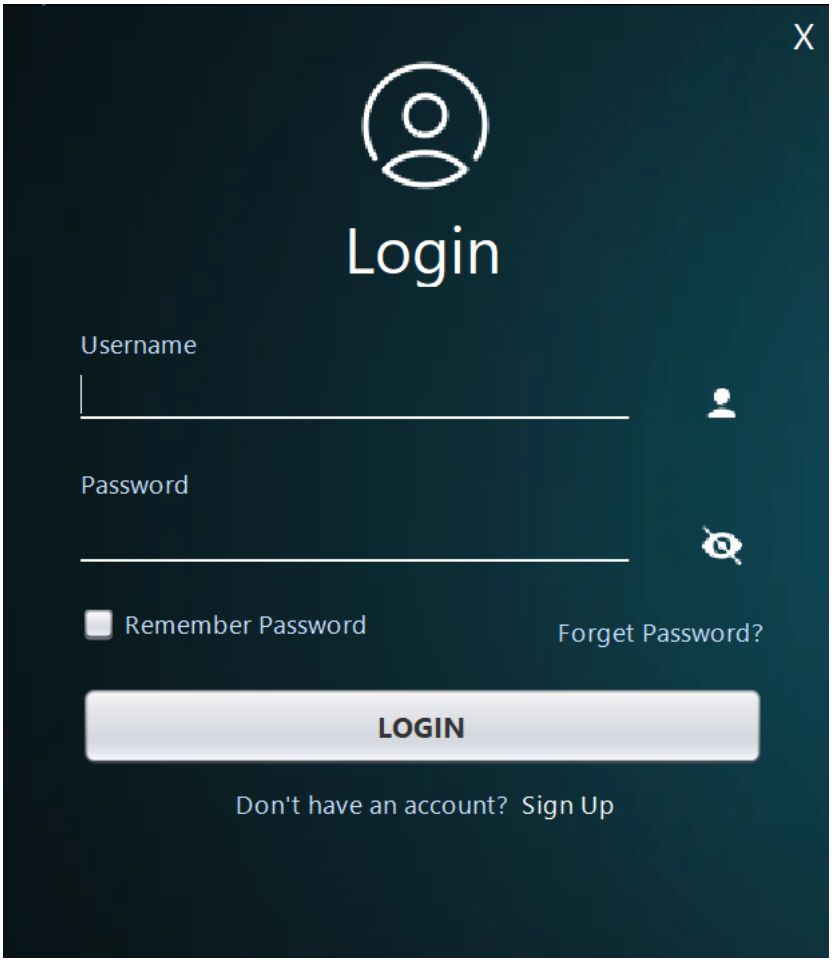
- Main_Menu:
  It contains all important GUI and Functions such as : doctor, nurse, staff, and patient, recording data, and displaying all the data or by using ID.

- Show Data:
  Show all data in selected panal.

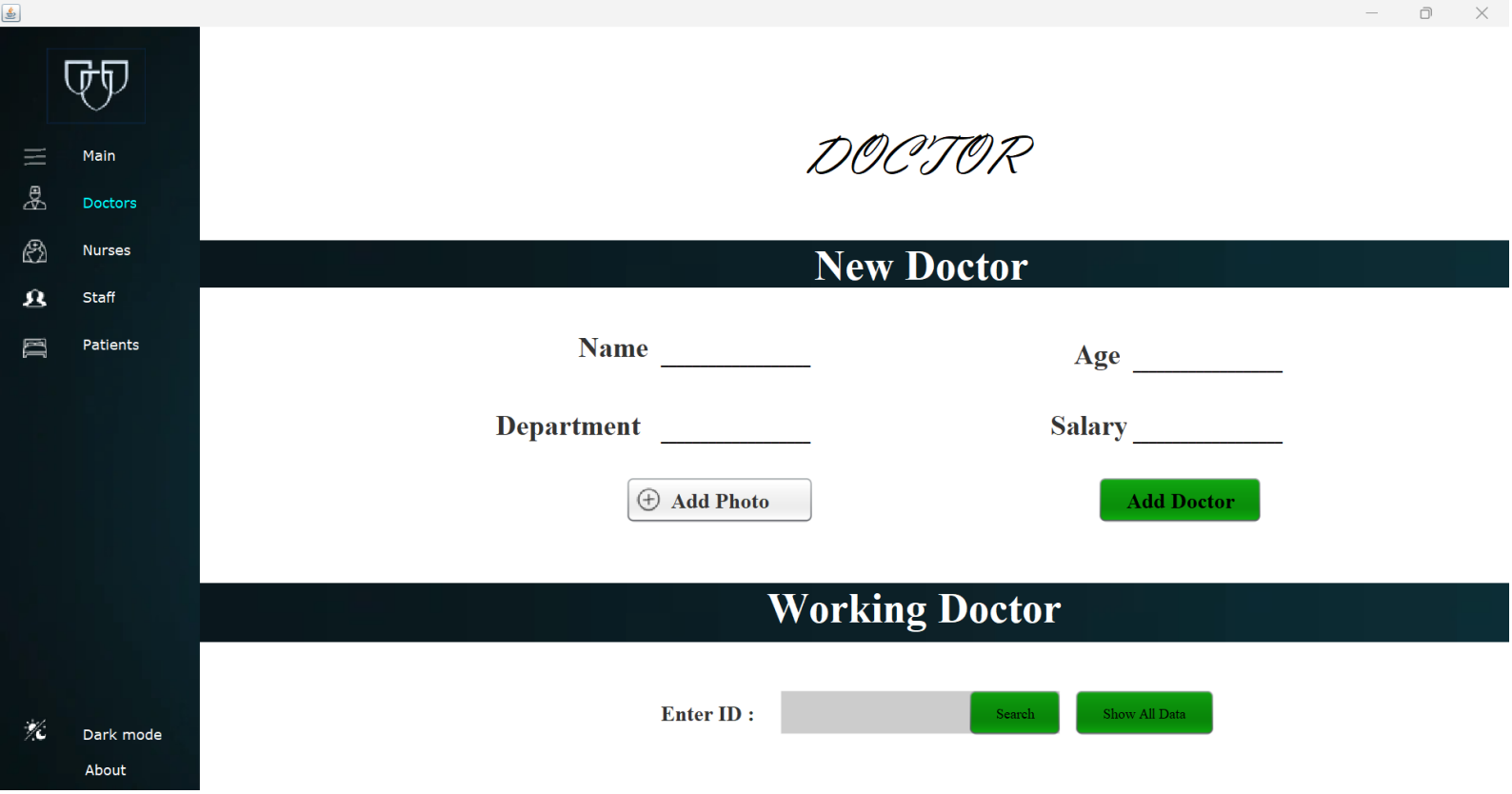
- Data_Card:
  Display the data by using ID.

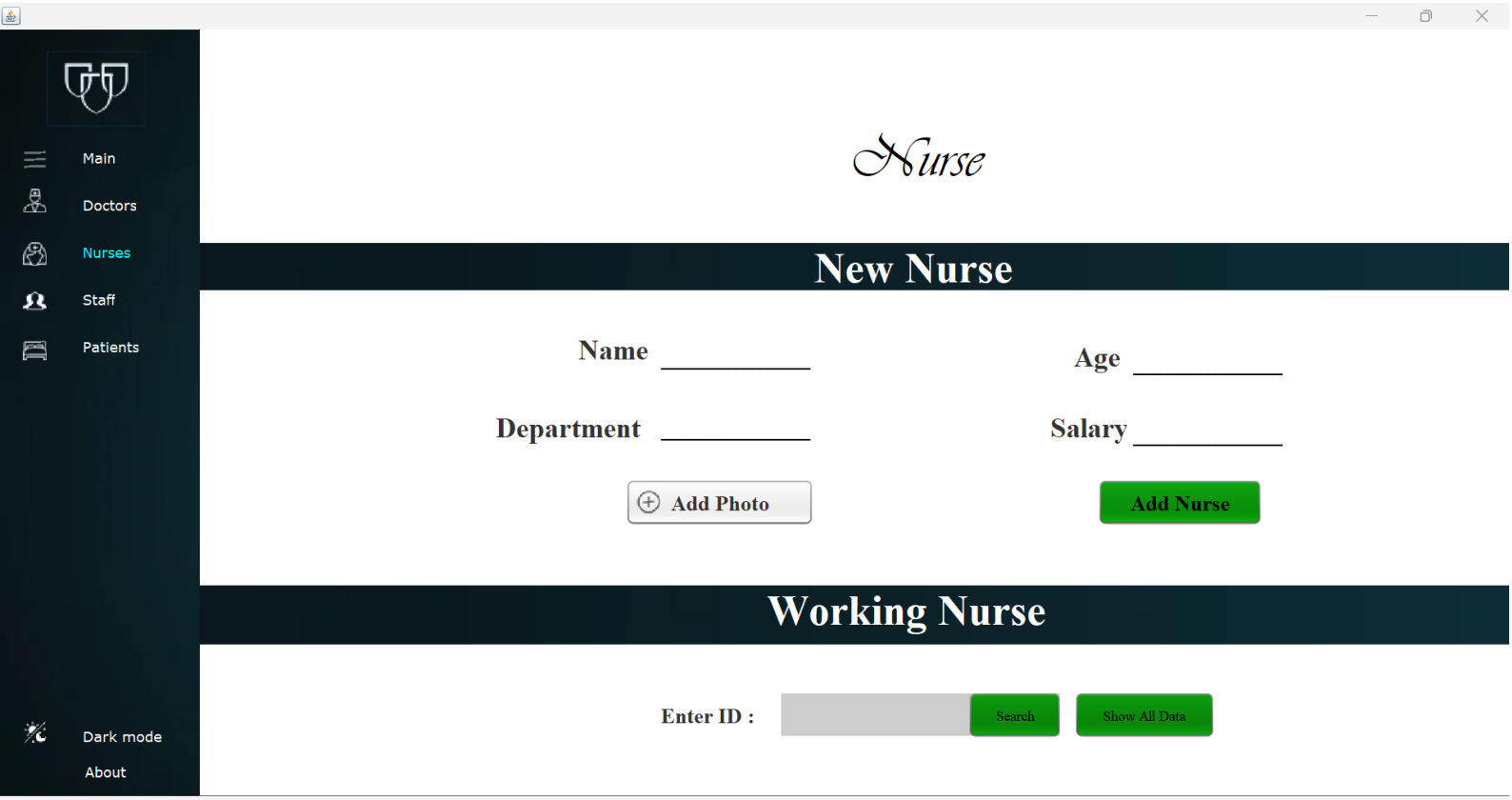
- About:
  Display all data about team members.

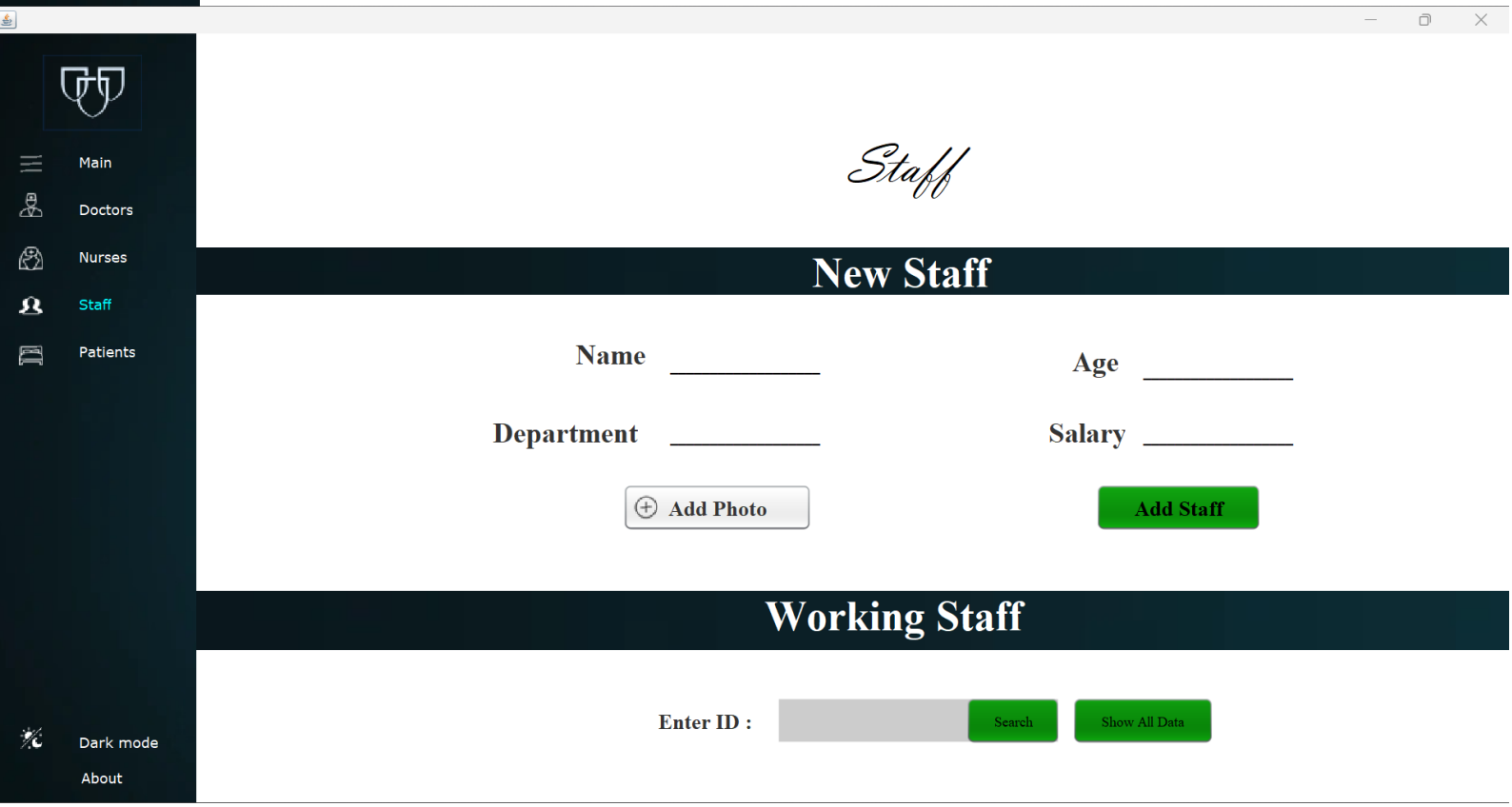
snapshots of the project while running:



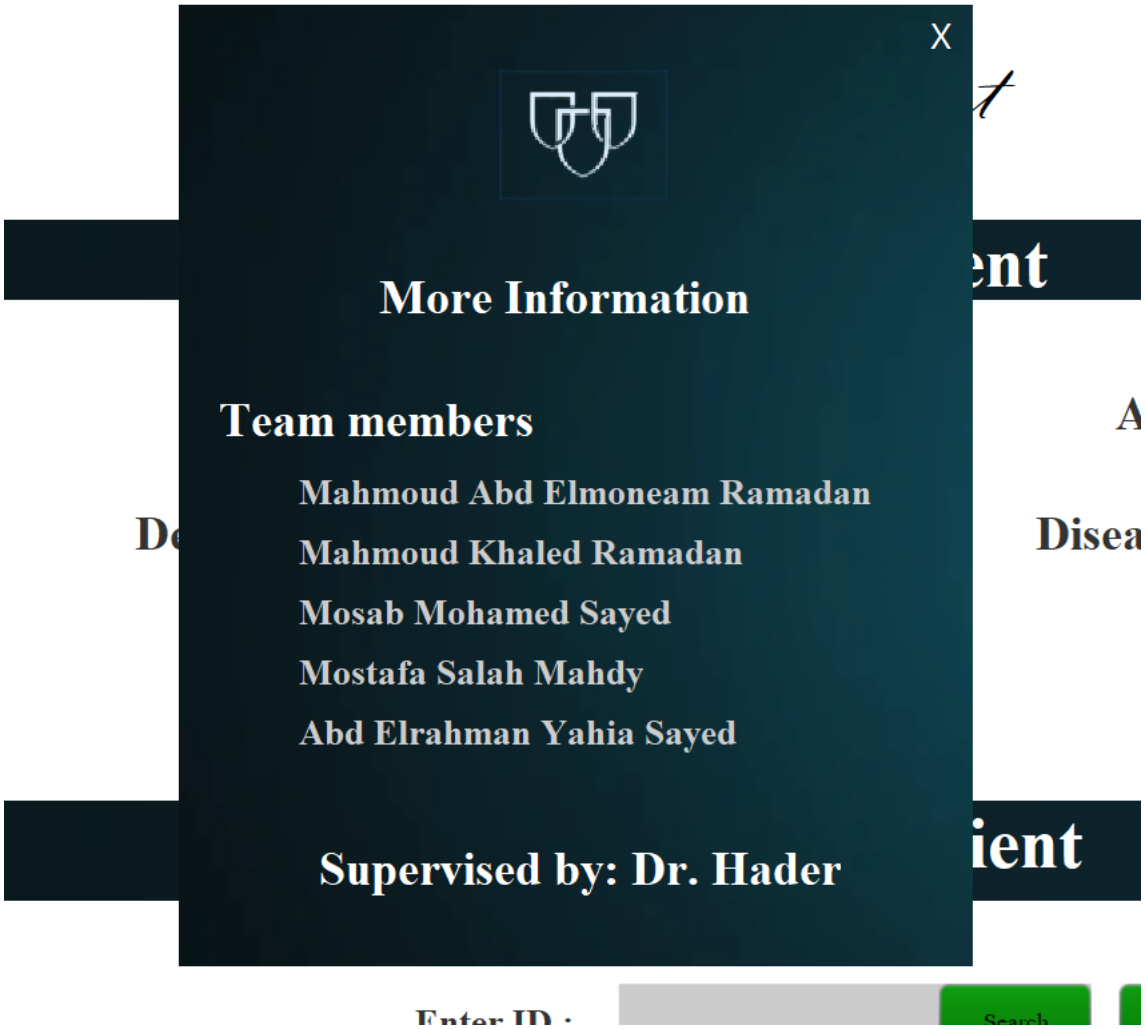
Main
Doctors
Nurses
Staff
Patients
Dark mode
About


Main
Doctors
Nurses
Staff
Patients
Dark mode
About
DOCTOR
New Doctor
Name
Age
Department
Salary
Add Photo
Add Doctor
Working Doctor
Enter ID :
Search
Show All Data


Main
Doctors
Nurses
Staff
Patients
Dark mode
About
Nurse
New Nurse
Name
Age
Department
Salary
Add Photo
Add Nurse
Working Nurse
Enter ID :
Search
Show All Data


Main
Doctors
Nurses
Staff
Patients
Dark mode
About
Staff
New Staff
Name
Age
Department
Salary
Add Photo
Add Staff
Working Staff
Enter ID :
Search
Show All Data

Main
Doctors
Nurses
Staff
Patients
Dark mode
About
Patient
New Patient
Name
Age
Department
Disease
Add Photo
Add Patient
Existing Patient
Enter ID :
Search
Show All Data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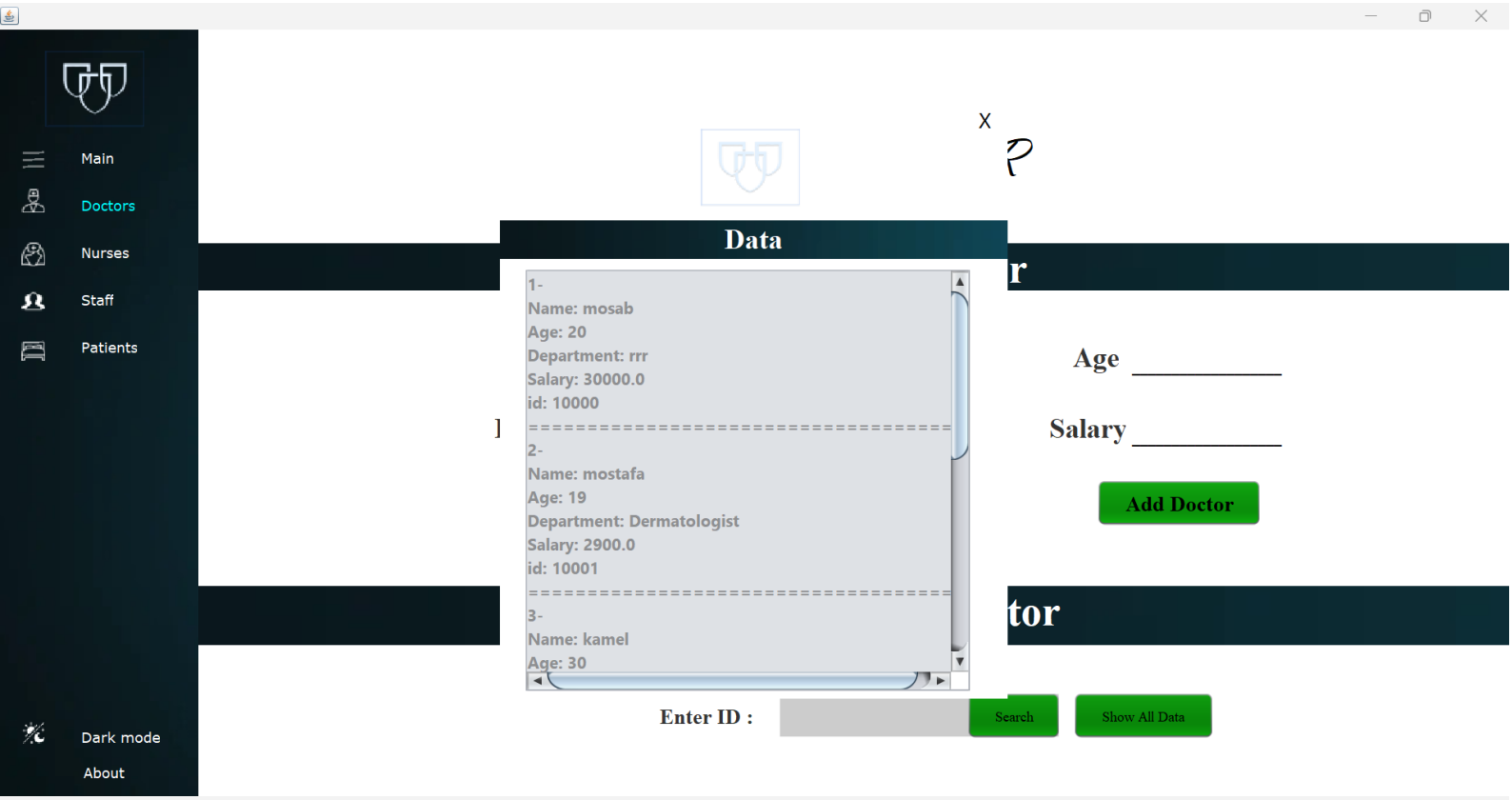
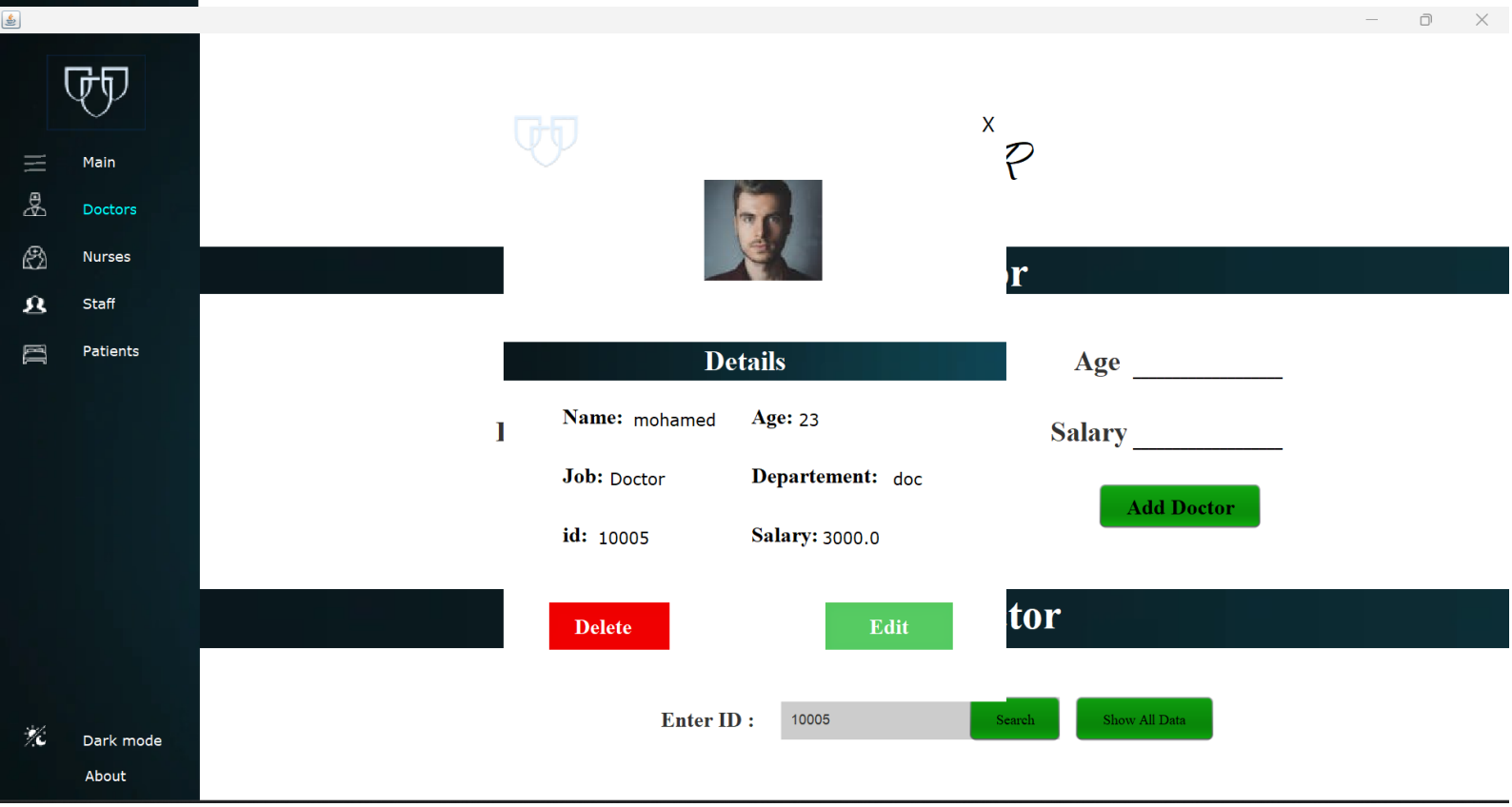
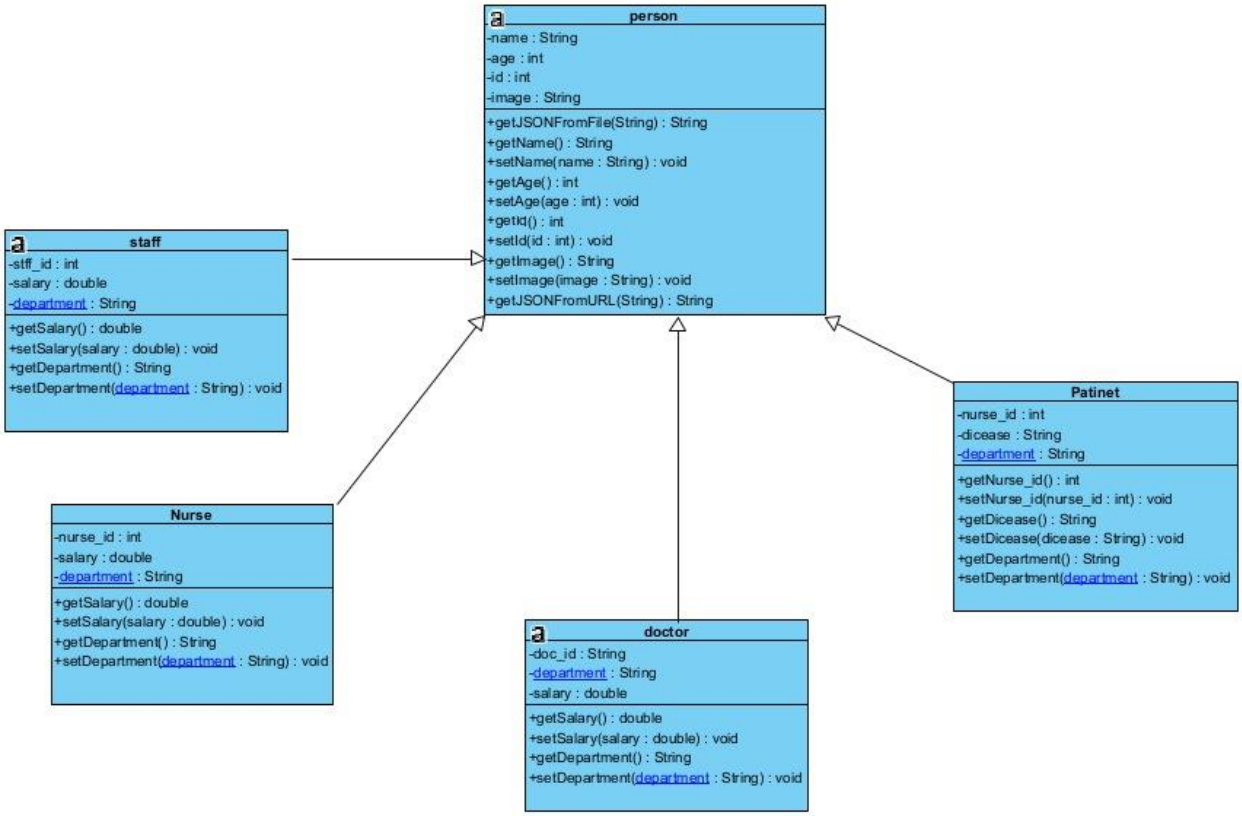
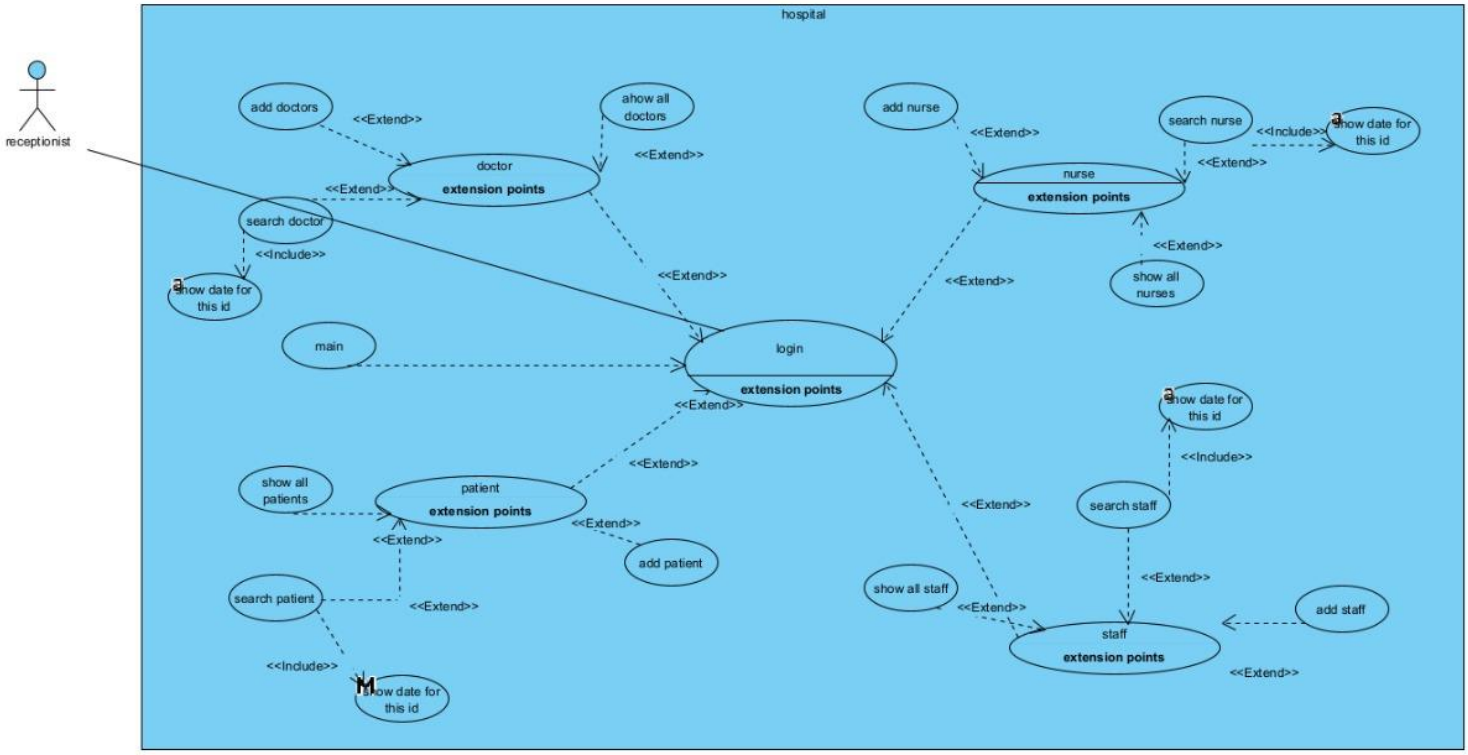
More Information
Team members
Mahmoud Abd Elmoneam Ramadan
Mahmoud Khaled Ramadan
Mosab Mohamed Sayed
Mostafa Salah Mahdy
Abd Elrahman Yahia Sayed
Supervised by: Dr. Hader

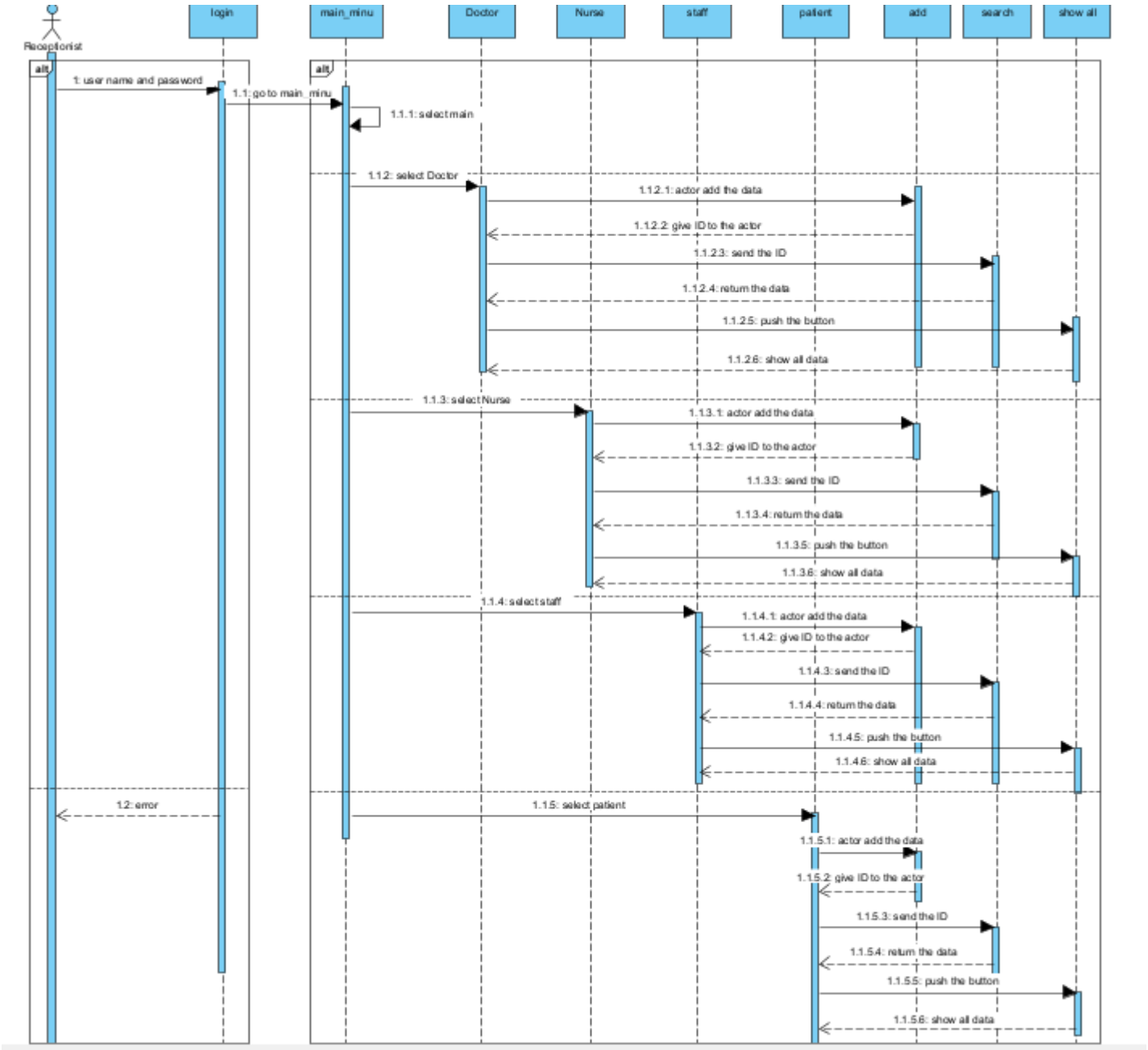

Main
Doctors
Nurses
Staff
Patients
Dark mode
About
Data
1-
Name: mosab
Age: 20
Department: rrr
Salary: 30000.0
id: 10000
==========
2-
Name: mostafa
Age: 19
Department: Dermatologist
Salary: 2900.0
id: 10001
==========
3-
Name: kamel
Age: 30
Age
Salary
Add Doctor
Enter ID :
Search
Show All Data


Main
Doctors
Nurses
Staff
Patients
Dark mode
About
Details
Name: mohamed
Age: 23
Job: Doctor
Departement: doc
id: 10005
Salary: 3000.0
Delete
Edit
Age
Salary
Add Doctor
Enter ID :
10005
Search
Show All Data

UML diagrams:






Receptionist
login
main_minu
Doctor
Nurse
staff
patient
add
search
show all
alt
1: user name and password
1.1: go to main_minu
1.1.1: select main
1.1.2: select Doctor
1.1.2.1: actor add the data
1.1.2.2: give ID to the actor
1.1.2.3: send the ID
1.1.2.4: return the data
1.1.2.5: push the button
1.1.2.6: show all data
1.1.3: select Nurse
1.1.3.1: actor add the data
1.1.3.2: give ID to the actor
1.1.3.3: send the ID
1.1.3.4: return the data
1.1.3.5: push the button
1.1.3.6: show all data
1.1.4: select staff
1.1.4.1: actor add the data
1.1.4.2: give ID to the actor
1.1.4.3: send the ID
1.1.4.4: return the data
1.1.4.5: push the button
1.1.4.6: show all data
1.2: error
1.1.5: select patient
1.1.5.1: actor add the data
1.1.5.2: give ID to the actor
1.1.5.3: send the ID
1.1.5.4: return the data
1.1.5.5: push the button
1.1.5.6: show all data