PES University, Bengaluru

(Established under Karnataka Act 16 of 2013)
Department of Computer Science & Engineering
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UE19CS353 – Object Oriented Analysis and Design with Java

Theory ISA (Mini Project)

Report on

Hospital Management System

By:

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6th Semester Sec B

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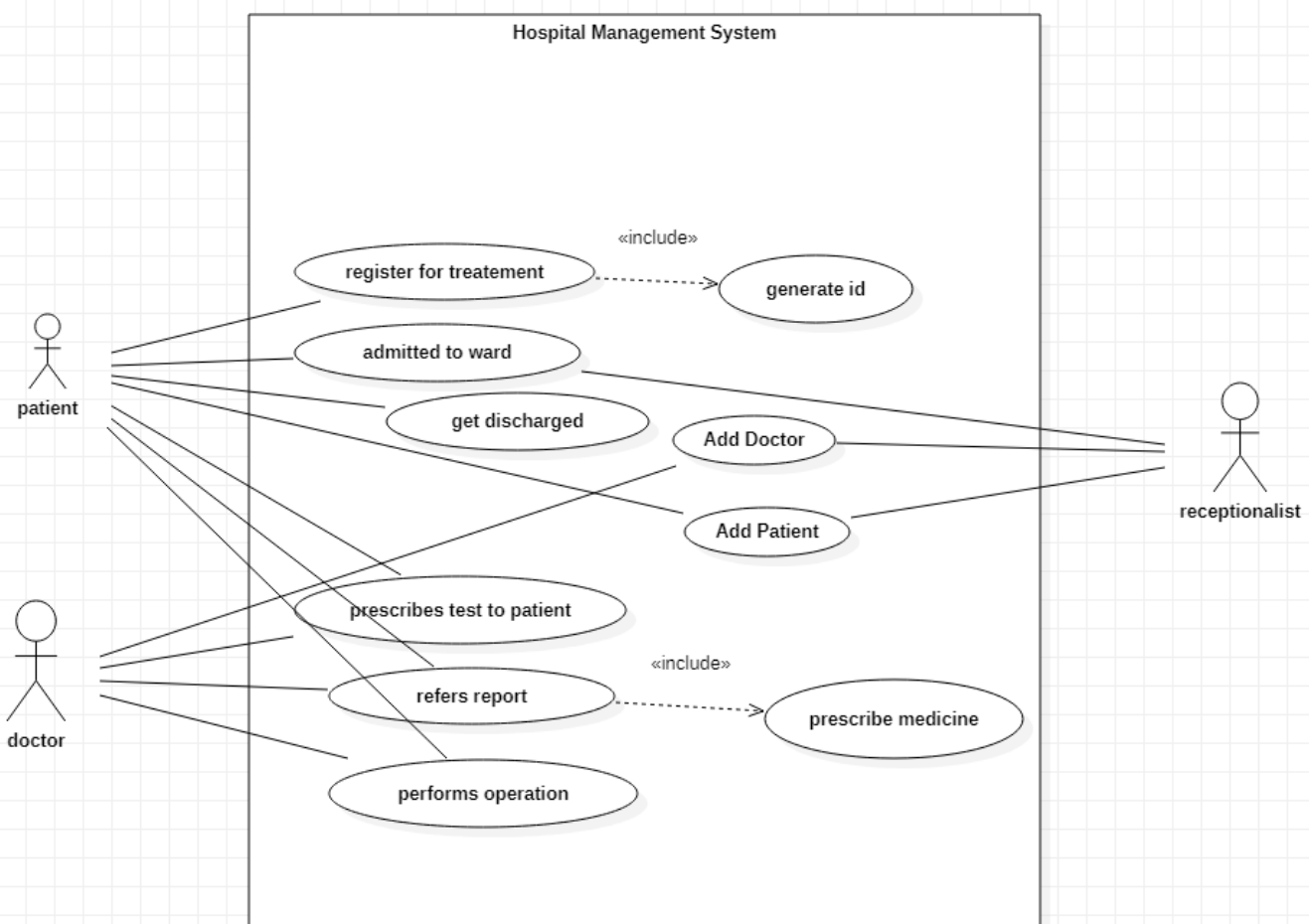
1. Project Description

The Hospital Management system includes registration of patients, staff, doctors and storing their details into the system. The software has the facility to give a unique id for every patient and stores the details of every patient, doctor and the staff automatically. It includes a search facility to know the appointment with the doctor and ward availability. Users can search availability of a doctor and the details of a patient using the id.

The Hospital Management System can be entered using a username and password. It is accessible either by a doctor or receptionist. Only they can add data into the database.

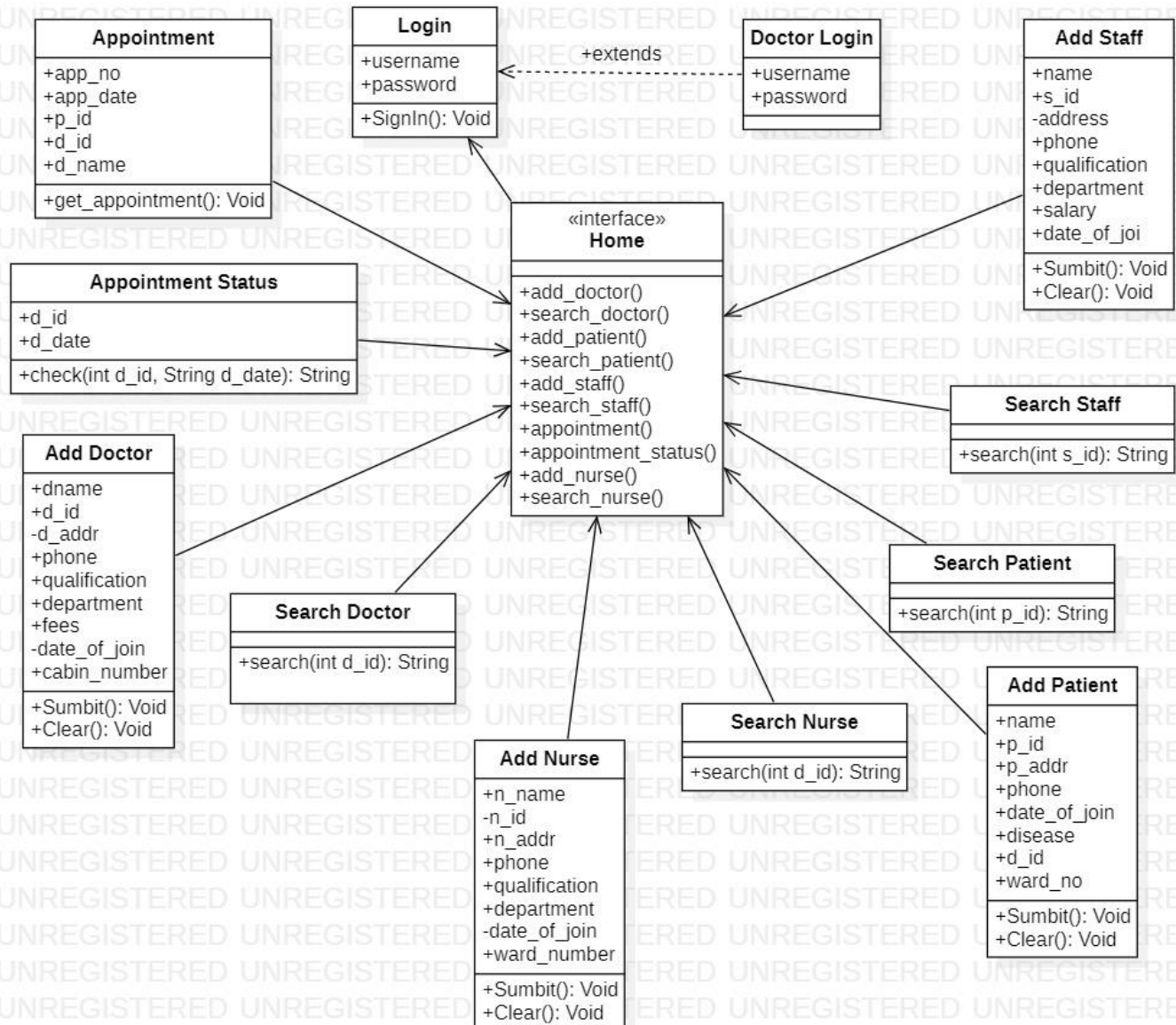**GitHub Link**: https://github.com/Chintamani-Bhat/Hospital-Management-System.git

2. Analysis and Design Models

Use Case Diagram

Class Diagram:

3. Tools and Frameworks Used

Tools: NetBeans, Eclipse, MySQL
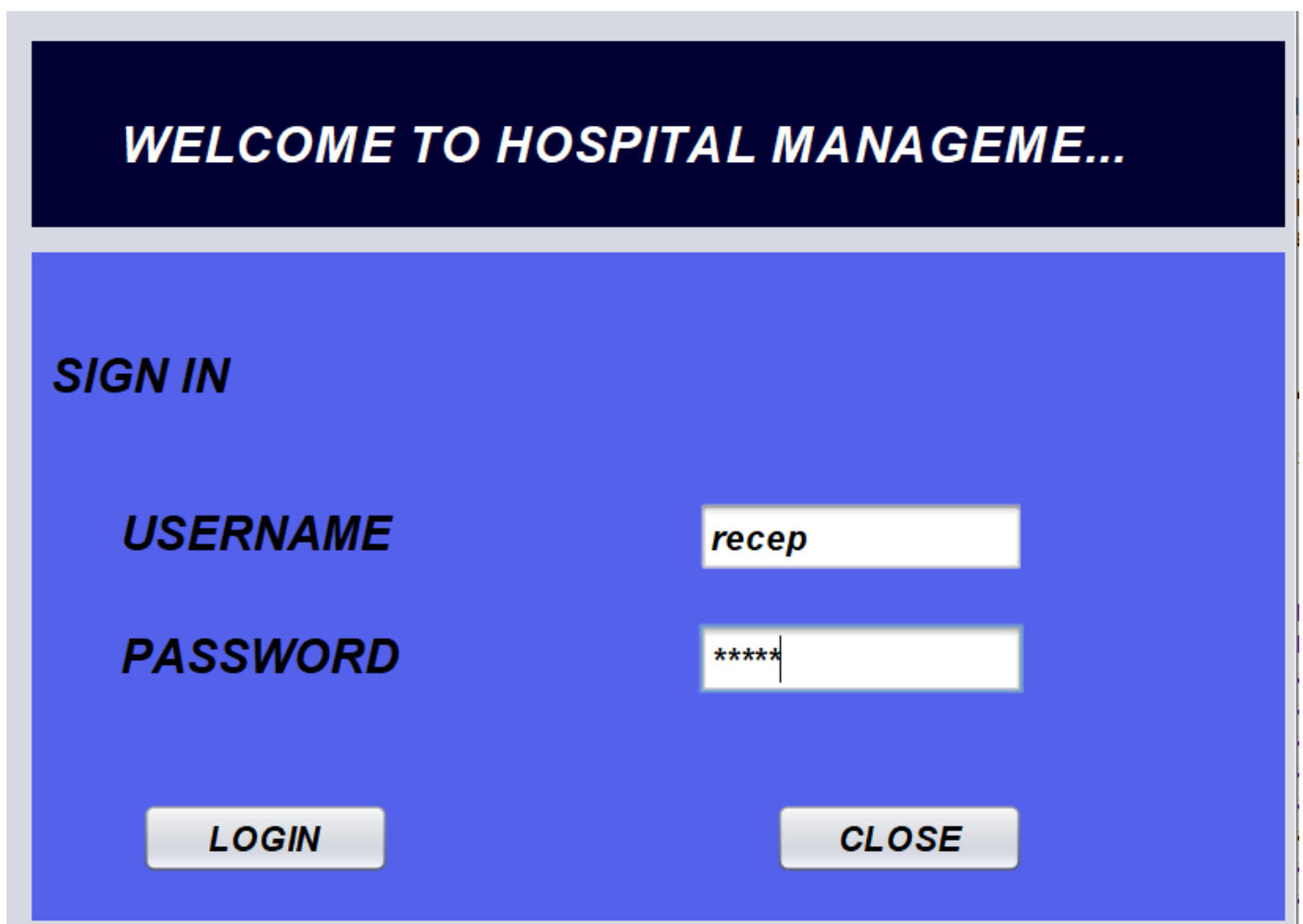**Framework:** Swing Framework

4. Design Patterns Applied

Design Pattern Used: Facade

Facade is a part of Gang of Four design pattern and it is categorized under Structural design patterns. Facade is a class that provides a simple interface to a complex subsystem which contains lots of moving parts. A facade might provide limited functionality in comparison to working with the subsystem directly. However, it includes only those features that clients really care about.

5. Application Screenshots (3-4 important pages)

Login Page:

Add Doctor:

ADD NEW DOCTOR

NAME	Doctor1
DOCTOR ID NUMBER	1234
ADDRESS	Ecity
PHONE NUMBER	9452767654
QUALIFICATION	MBBS
DEPARTMENT	EYE
FEE(IN RUPEES)	150000
DATE OF JOINING(YYYY-MM-DD)	2020-02-17
CABIN NUMBER	8

BACK TO HOME   SUBMIT   CLEAR   EXIT

Add Patient:

ADD NEW PATIENT

NAME	patient1
PATIENT ID NUMBER	1122
ADDRESS	Ecity
PHONE NUMBER	9837343236
DATE OF ADMISSION(YYYY-MM-DD)	2022-03-10
DISEASE/TROUBLE	EYE
DOCTOR ID NUMBER	1234
WARD NUMBER	2

[BACK TO HOME]   [SUBMIT]   [CLEAR]   [EXIT]

Add Staff:

ADD NEW STAFF

NAME	Staff1
ID NUMBER	5654
ADDRESS	Ecity
PHONE NUMBER	8756764728
QUALIFICATION(IF ANY)	B-pharm
DEPARTMENT	Medicine
SALARY	25000
DATE OF JOINING(YYYY-MM-DD)	2022-03-14

[SUBMIT]　　[CLEAR]　　[EXIT]　　[BACK TO HOME]

Add Nurse:

ADD NEW NURSE

NAME   Nurse1

NURSE ID NUMBER   3422   BACK TO HOME

ADDRESS   Ecity

PHONE NUMBER   9004535356   SUBMIT

QUALIFICATION   BAMS
                                                          CLEAR

DEPARTMENT   Medicine

DATE OF JOINING (YYYY-MM-DD)   2021-07-26   CLOSE

WARD NUMBER   4

Search Doctor:

SEARCH DOCT...

search by:

ENTER ID NUMBER:

1234   SEARCH

NAME   Doctor1

ADDRESS   Ecity

PHONE   9452767654

CLEAR DATA   CLOSE

Get Appointment:

GET APPOINTMENT

Appointment Number	23
Appointment Date	2022-03-29
Patient Id	1122
Patient Name	Patient1
Doctor id	1234
Doctor Name	Doctor1

GET APPOINTMENT   CLEAR   CLOSE

6. **Conclusion:**

Hospital management system is all about the modernizing a hospital through use of technology. It automates numerous daily operations and enables smooth interactions of the users. This use case of the system covers the needs of the patients, staff and hospital authorities and simplifies their interactions. This hospital management system is a quite the reliable and is proven on many stages. All the basic requirements of the hospital are provided in the hospital in order to manage it perfectly and large amount of data can also be stored. The requirements were analysed and based on the analysis the design took place; and the implementation done based on object-oriented concepts.

7. Team member contributions

Name	SRN	Contribution
Baargav N V	PES2UG19CS078	Worked on code implementation and design of the project
Chandrahas L G	PES2UG19CS096	Worked on code implementation and Architecture of the project
Chintamani Bhat	PES2UG19CS099	Worked on code implementation design and Database related Operations