



University of Pune



A

PROJECT REPORT

“HOSTEL MANAGEMENT SYSTEM”

Submitted to

Savitribai Phule Pune University

In Partial Fulfilment of the requirements of the Award of the
Degree of

BATCHLOR OF COMPUTER APPLICATION (SCIENCE)

By

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FOR ACADAMIC YEAR 2022-23

Kopargaon Taluka Education Society's

**K.J. SOMAIYA COLLEGE OF ARTS, COMMERCE
AND SCIENCE**

Mohanrajnagar, Kopargaon-423601, Dis-Ahemadnagar



Certificate

This Is Certify That **Miss. Shivani Nandu Bhalerao** Student Of **B.C.A.Sci**
Has A Complete Project Report On Presentation Report Of

“HOSTEL MANAGEMENT SYSTEM” Submitted In Partial Fulfilment
Of It He Degree Of Baster Of Commerce As Per The Syllabus Of
SAVITRIBAI PHULE UNIVERCITY For The Academics Year
2022-23

I Further Clarified That, The Work Has Been Carried Out Under
My Guidance.

Project Guide

Head Of Department

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

At every student I express my gratitude to almighty lord for showering this grace and Blessing upon to me to complete this project.

Although the our name appears on the cover of this book, many people had contributed in some from on the other form to this project Development.

We could not done this project without the assistance or support of each of the following we thank you all.

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Miss. Shivani Nandu Bhalerao
TY BCA(Science)

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Introduction To Project

1.1 Background

This Hostel Management System is developed in favor of the hostel management team which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and the information about those ones who had left the hostel years before.

This solution is developed on the plight of the hostel management team, through this they cannot require so efficient person to handle and manage the affairs of the students in the hostel, all you need to do is to login as administrator and you can see the information of all the students who have obtained and registered their hostel form, click verify to ascertain their eligibility and allocate them to the available hostel.

Identification of the problems of the existing hostel management leads to the development of computerized solution that will be compatible to the existing hostel management with the solution which is more users friendly and more GUI oriented. We can improve the efficiency of the hostel management, thus overcome the drawbacks of the existing management.

1.2 Objectives

The main objectives of this project work are that:

- Student will no longer apply for their hostels manually.
- The warden can see and access the student's data.
- This also will reduce the manual work of the persons in admin penal.
- It helps the admin to know the number of students that can leave in a room and a block.
- To ensure that the number of student staying in a room does not exceed specified limit.
- Help the admin to disseminate information to students without calling for a meeting or moving room to room.
- To ensure that student remit the hostel property given to them before vacating the hostel.

Problem Defination

There are a lot of drawbacks in keeping and maintaining a hostel. Especially with a manual system. Since most hostels are being run by only one hostel manager, the number of students in a room are sometimes not known by the officer. He has to go room by room to ensure that a room is occupied or not. Sometimes people may be owing in the hostel and they are saved on papers or huge notebooks, and sometimes receipts. If the books should go missing or stolen, one would never be able to know if a student is owing or not. Room allocation also becomes a problem as the officer might not know which rooms are available or not. And some hostels have a lot of rooms or have mare storeys and it would be very tedious to go through all storeys in search of a free room for an applicant. Also the officer might not know the number of students in a room or know if a room is full or not.

Introduction To Proposed System

This software product the “Hostel Management System” to improve their service for all the students of the hostel. This also reduce the manual work of the person in admin panel and the bundle of registers that were search when to find the information of previous student, because through this system you can store the data of those students who had leaved the hostel. Through this you can check the personal profile of all the current students within few minutes the data base of the system will help you to check the fees of every students and the students hostel dues the student of the hostel will be recognized from the ID number allocated at the room rental time.in the last this system will improve the last this system will improve the management work in the hostel.

This system you can store the data of those students who had leaved the hostel three years ago. Through this you can check the personal profile all the current students within few minutes the data base of the system will help you to check a particular one.

Existing System

❖ Advantages

- Effective for any college and school.
- Time saving.
- Easy to use.
- Reduce paper work.
- Easy to handle
- Easy data updating

❖ Disadvantages

- Low Security
- More Human error
- Inaccuracy of data

System Requirements

❖ Hardware Requirement:

- **Processor:** Intel® Core™ i5/i3
- **Hard Disk:** 160 GB & Above
- **Ram:** 8 GB.
- **Monitor:** VGA/SVGA
- **Printer:** Inkjet
- **Mouse:** Optical Mouse

❖ Software Requirement:

- **Operating System:** Windows 8 and Above Version
- **Front-End:** Java NetBeans
- **Back-End:** MySQL Database

Scope of System

This project aims at automating the hostel management for smooth working of the hostel by automating almost all the activities.

The software “Hostel Management System will be an application that will be used for maintaining the records in an organized manner and to replace old paper work system.

Updating and modifications will be easily achievable and all the calculations and accounting work would be accurate.

Feasibility Study

- The feasibility study is a major factor which contributes to the analysis & development of the system. The decision of the system analysis whether to design a particular system or not depends on its feasibility study.
- It enables us to determine the potential of existing system & improving it. It helps to know what should be embedded in the new system. It also helps to develop a cost-effective system. We can make better utilization of available resources. The project concept is feasible because of following:

❖ **Technical Feasibility:**

- Technical feasibility is the study of hardware and software requirement on which the application is to be used upon. It is important to consider the budget of the system or the overall cost.
- The proposed system is technically feasible as it has been developed with the help of available technology. The proposed System uses front end java NetBeans & back end tool is MySQL for storing & maintaining database. No expert manpower is required for this purpose

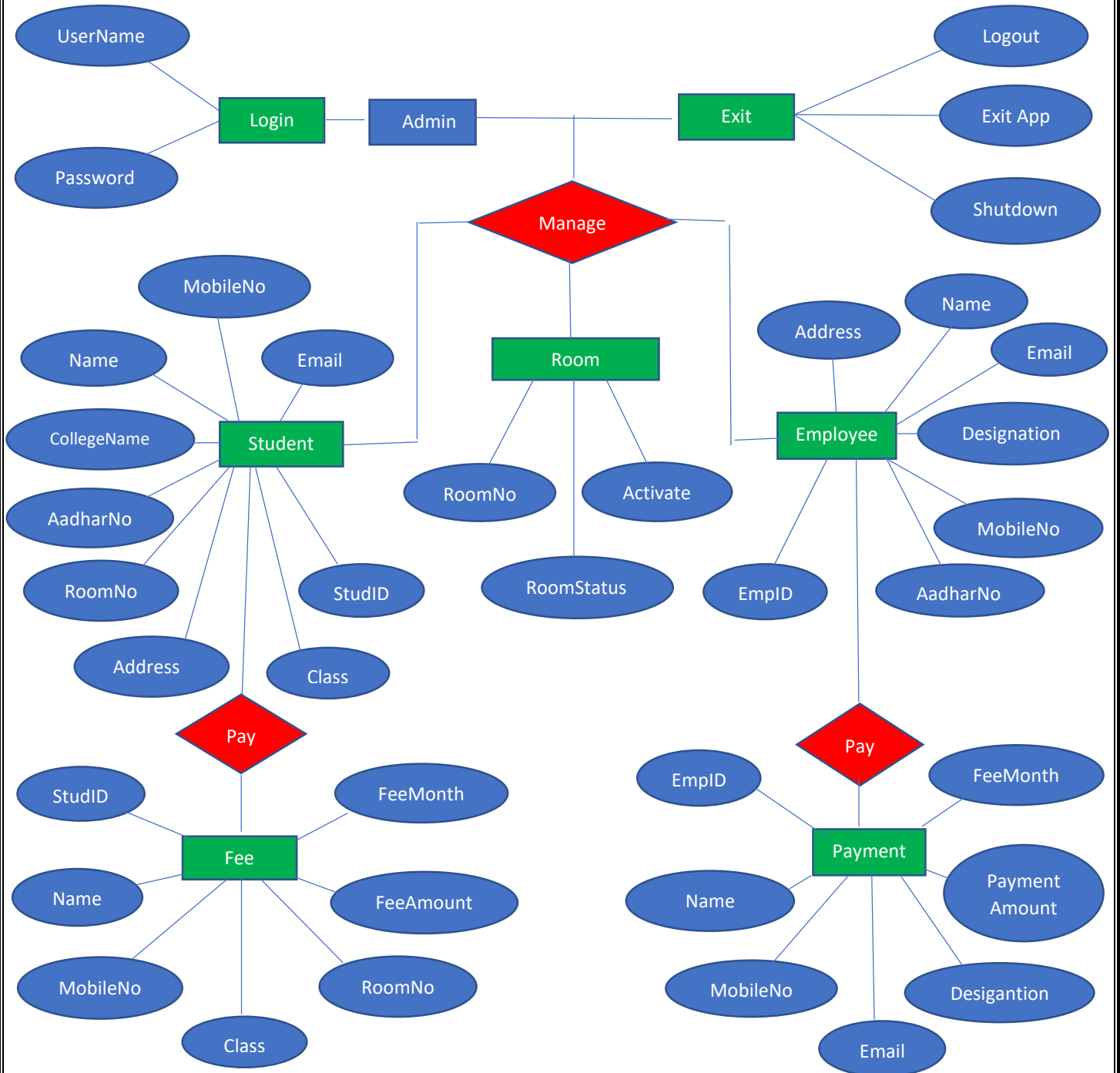
❖ **Economical Feasibility:**

- The economical feasibility is considered in terms of money price value. The organization measure the cost effectiveness of the project. The economical feasibility of the proposed system is as under.
- The organization is ready to invest on proposed system for latest technology & best result.
- The unit has not be spend much amount for the computer hardware & software.
- The organization is in position & also incapable to pay for the system.

❖ **Operational Feasibility:**

The proposed system is very user friendly & the user is much easily able to interact with the system. Therefore the users will readily accept the system & data entry & making queries can be easily.

ER Diagram



ER Diagram Hostel Management System

Data Dictionary

❖ Student Registration Table:

Sr.No.	Attribute	Data Type	Constraint
1	Student ID	Integer	Primary key
2	Name	Varchar	Not Null
3	Father Name	Varchar	Not Null
4	Mother Name	Varchar	Not Null
5	Email	Varchar	Not Null
6	Mobile Number	Varchar	Not Null
7	College Name	Varchar	Not Null
8	Address	Varchar	Not Null
9	Aadhar Number	Varchar	Not Null
10	Class	Varchar	Not Null
11	Room No	Varchar	Not Null
12	Status	Varchar	Not Null

❖ Room Information:

Sr.No	Attribute	Data Type	Constraint
1	Room No	Varchar	Primary key
2	Activate	Varchar	Not Null
3	Room Status	Varchar	Not Null

❖ Fees Details:

Sr.No.	Attribute	Data Type	Constraint
1	Student ID	Integer	Not Null
2	Name	Varchar	Not Null
3	Class	Varchar	Not Null
4	Mobile Number	Varchar	Not Null
5	Room No	Varchar	Not Null
6	Month	Varchar	Not Null
7	Amount	Varchar	Not Null

❖ Employee Registration Table:

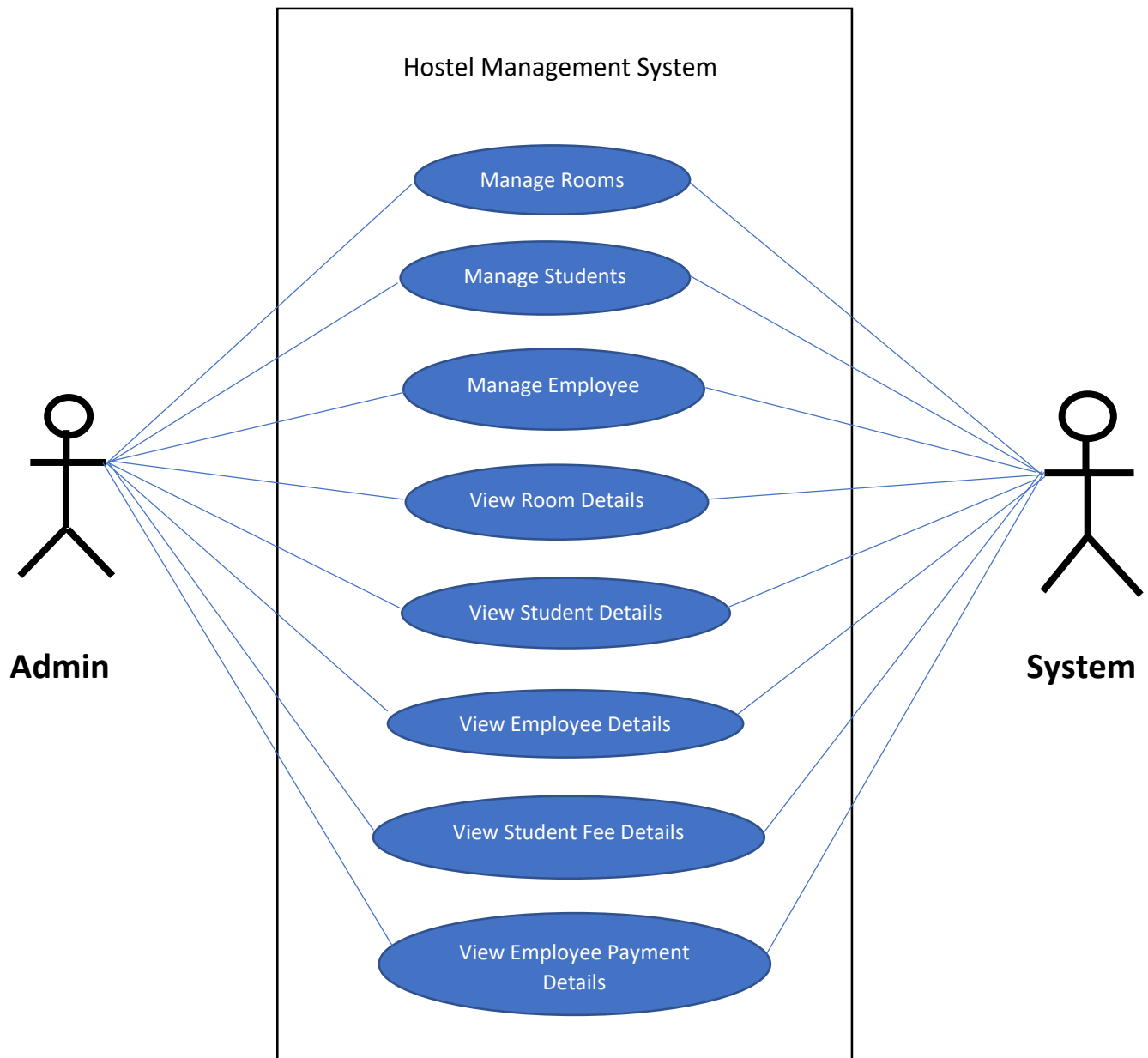
Sr.No.	Attribute	Data Type	Constraint
1	Employee Id	Integer	Primary key
2	Name	Varchar	Not Null
3	Father Name	Varchar	Not Null
4	Mother Name	Varchar	Not Null
5	Email	Varchar	Not Null
6	Mobile Number	Varchar	Not Null
7	Address	Varchar	Not Null
8	Aadhar Number	Varchar	Not Null
10	Designation	Varchar	Not Null
11	Status	Varchar	Not Null

❖ Payment Details:

Sr.No.	Attribute	Data Type	Constraint
1	Employee Id	Integer	Not Null
2	Name	Varchar	Not Null
3	Mobile Number	Varchar	Not Null
4	Email	Varchar	Not Null
5	Designation	Varchar	Not Null
6	Month	Varchar	Not Null
7	Amount	Varchar	Not Null

UML Diagrams

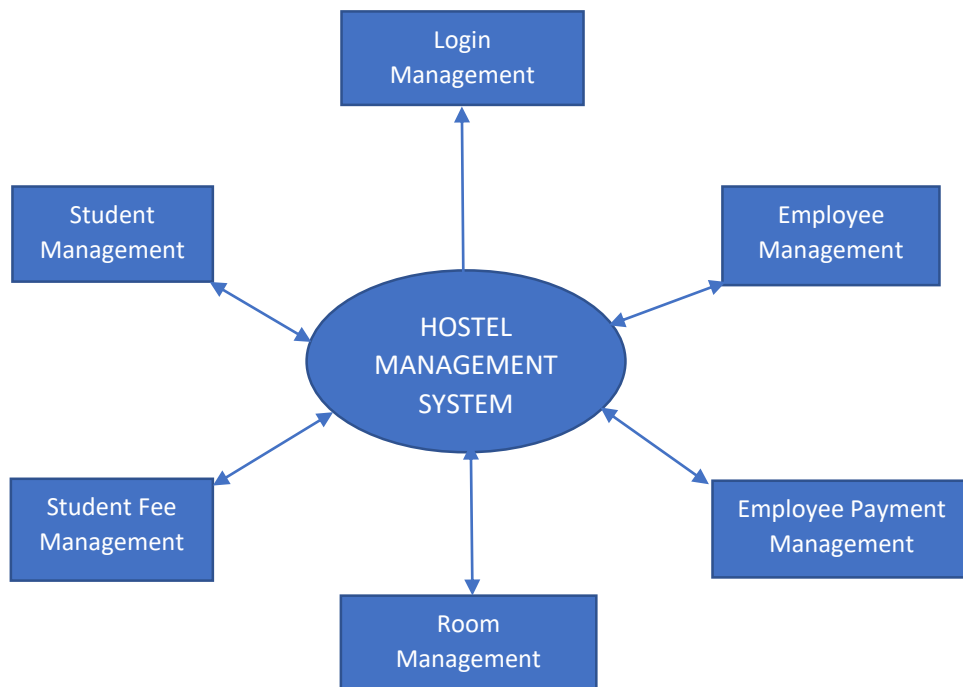
- Use Case Diagram:



Use Case Diagram between Admin and System

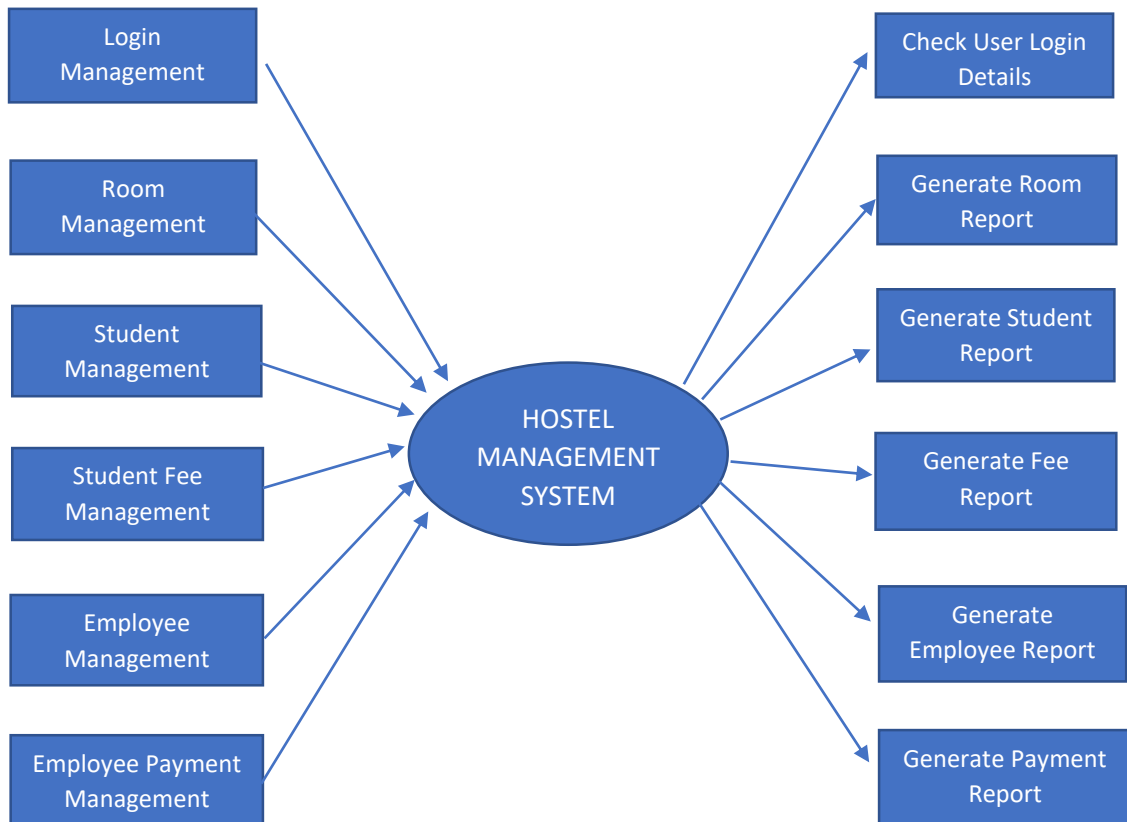
- Data Flow Diagram DFD:

1. DFD Zero Level:



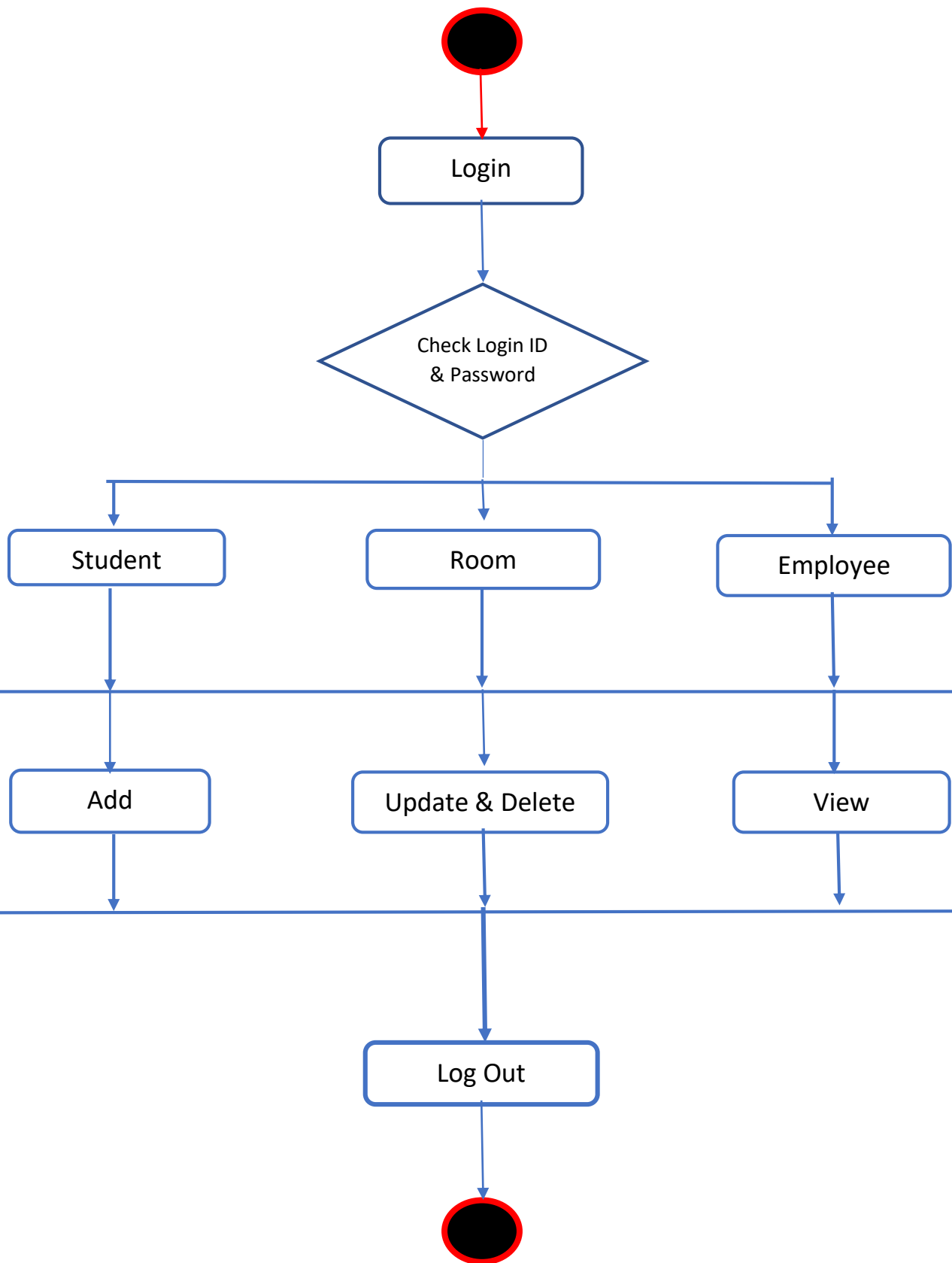
Zero Level DFD – Hostel Management

2. DFD First Level:

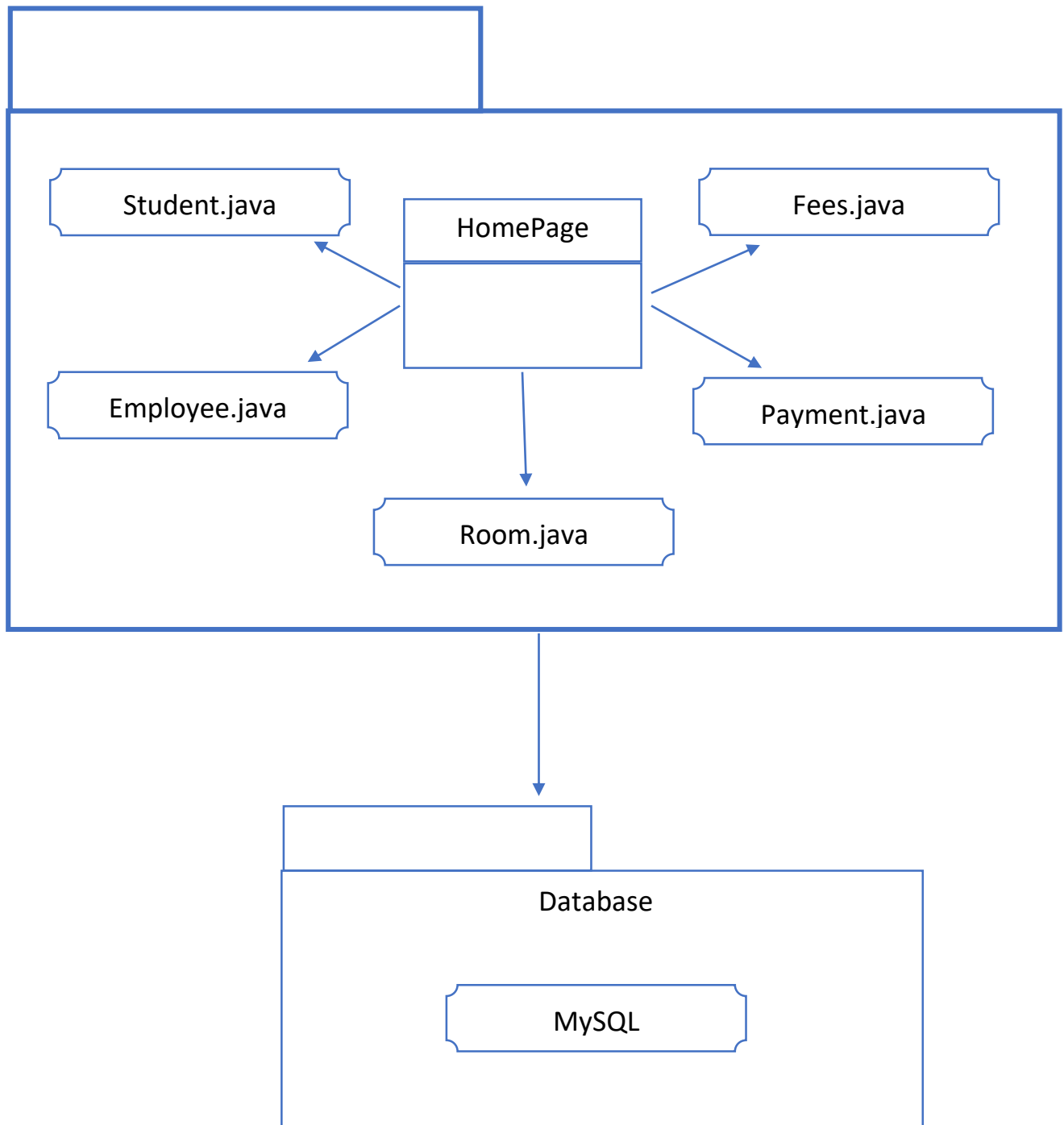


First Level DFD – Hostel Management System

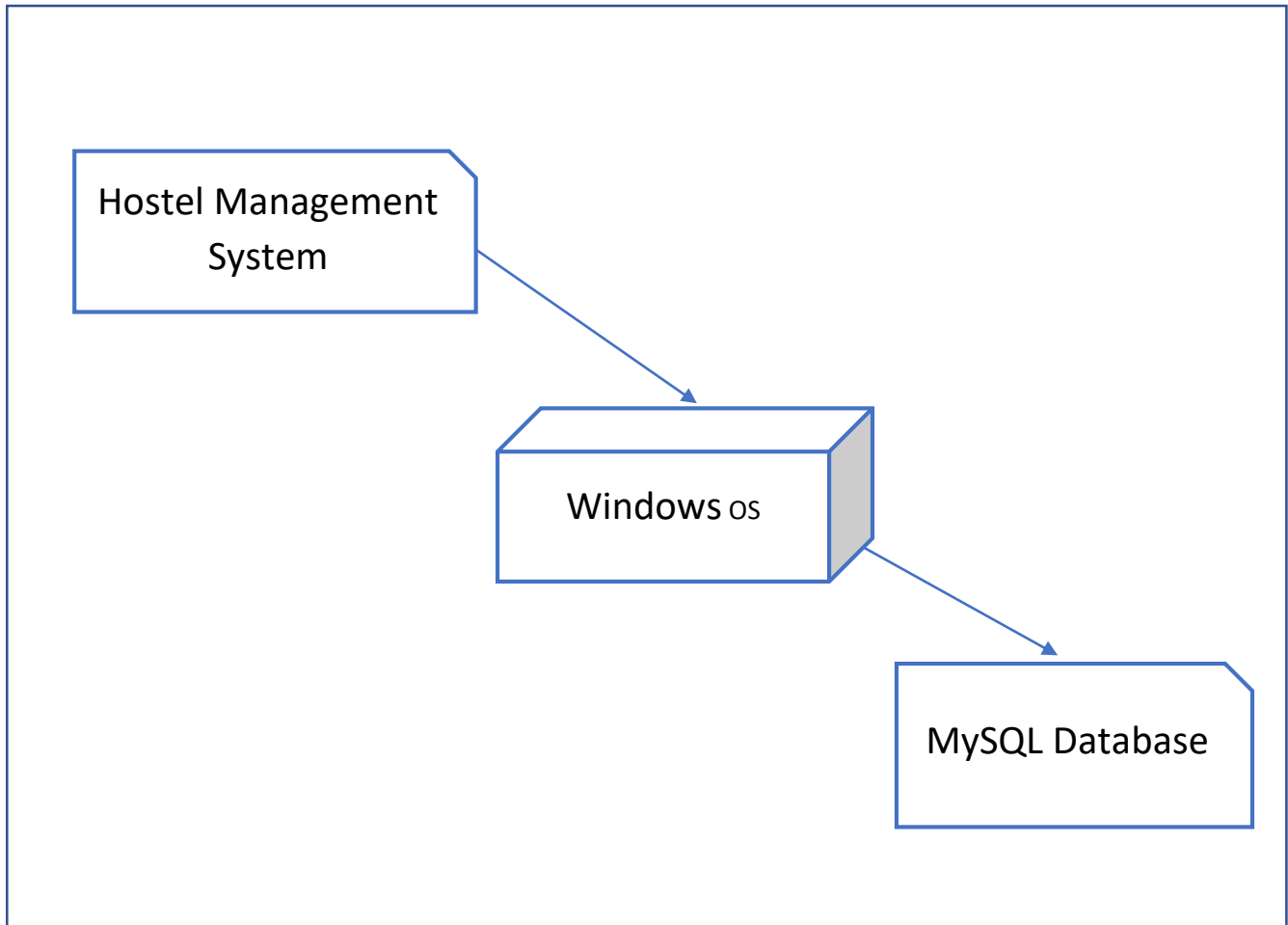
- Activity Diagram:



- Component Diagram:



- Deployment Diagram:



System Testing

- **Software Testing:**

Is all the link of website that works done properly? All input type that work properly or not & button that work or not or data feeding is properly operation and Tool-bars work properly? Is it possible to invoke each function using logical assumptions that if all parts of the system are correct, the goal will be successfully achieved? The testing process focuses on the logical intervals of the software ensuring that all statements have been tested and on functional interval is conducting tests to uncover errors and ensure that defined input will produce actual results that agree with the required results. Program level testing, modules level testing integrated and carried out.

❖ **There are two major type of testing they are**

- 1) White Box Testing
- 2) Black Box Testing.

1. White Box Testing :

White box sometimes called “Glass box testing” is a test case design uses the control structure of the procedural design to drive test case.

A) All independent paths within a module have been exercised once. In our system, ensuring that case was selected and executed checked all case structures. The bugs that were prevailing in some part of the code where fixed

b) All logical decisions were checked for the truth and falsity of the values.

2. Black Box Testing:

Black box testing focuses on the functional requirements of the software. This is black box testing enables the software engineering to derive a set of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white box testing rather it is complementary approach that is likely to uncover a different class of errors that white box methods like.

- 1) Interface errors
- 2) Performance in data structure
- 3) Performance errors
- 4) Initializing and termination errors

Test Case

❖ Student Registration:

Test case objective	Prerequisites	Testing steps	Expected result	Actual result	Pass/Fail
Validation of Student ID field	ID contains only digits	Enter ID into Student ID field	ID with only digits should be accepted	ID with only digit accepted	Pass
Validation of Room no. field	Room no. contains digits or Character	Select Room no. into Room no. field	Name with digits & Character should be accepted	Name with digits & Character should be accepted	Pass
Validation of Name field	Name contains only character	Enter name into Name field	Name with only character should be accepted	Name with only character accepted	Pass
Validation of Mobile No	Mobile No contains only digits	Enter Mobile No into Mobile No field	Mobile No with only digits should be accepted	Mobile No with only digit accepted	Pass
Validation of Email	Email contains digits ,@symbol or characters	Enter Email into paid Email field	Email contains digits ,@symbol or characters should be accepted	Email contains only digits ,@symbol or characters	Pass
Validation of Address	Address contain only Character	Enter Address into Address field	Address contains with only character should be accepted	Address contains with only character accepted	Pass

❖ Employee Registration:

Test case objective	Prerequisites	Testing steps	Expected result	Actual result	Pass/Fail
Validation of Employee ID field	ID contains only digits	Enter ID into Employee ID field	ID with only digits should be accepted	ID with only digit accepted	Pass
Validation of Name field	Name contains only character	Enter name into Name field	Name with only character should be accepted	Name with only character accepted	Pass
Validation of Mobile No field	Mobile No contains only digits	Enter Mobile No into Mobile No field	Mobile No with only digits should be accepted	Mobile No with only digit accepted	Pass
Validation of Email field	Email contains digits ,@symbol or characters	Enter Email into paid Email field	Email contains digits ,@symbol or characters should be accepted	Email contains only digits ,@symbol or characters	Pass
Validation of Address field	Address contains with only character	Enter Address into Address field	Address contains with only character should be accepted	Address contains with only character accepted	Pass
Validation of Designation field	Designation contains with only character	Select Designation into Designation field	Designation contains with only character should be accepted	Designation contains with only character accepted	Pass

❖ Room Registration:

Test case objective	Prerequisites	Testing steps	Expected Result	Actual Result	Pass/Fail
Validation of Room no. field	Only Room Format is accepted	Enter Rooms no. into Room no. field	Digits & character should be accepted	Digits & character should be accepted	Pass
Validation Activate or Deactivate field	Only Selected Item is accepted	Selected Activate or Deactivate is field	Only Selected Item is accepted	Only Selected Item is accepted	Pass
Validation Room Status field	Only Selected Item is accepted	Selected Booked or Not Booked is field	Only Selected Item is accepted	Only Selected Item is accepted	Pass

❖ Fees Details

Test case objective	Prerequisites	Testing steps	Expected steps	Actual result	Pass/Fail
Validation of Student ID field	ID contains only digits	Enter ID into Student ID field	ID with only digits should be accepted	ID with only digits accepted	Pass
Validation of Name field	Name contains only character	Enter name into Name field	Name with only character should be accepted	Name with only character accepted	Pass
Validation of Month field	Only Month Format	Select Month into Month Field	Only Select item is accepted	Only Select item is accepted	Pass

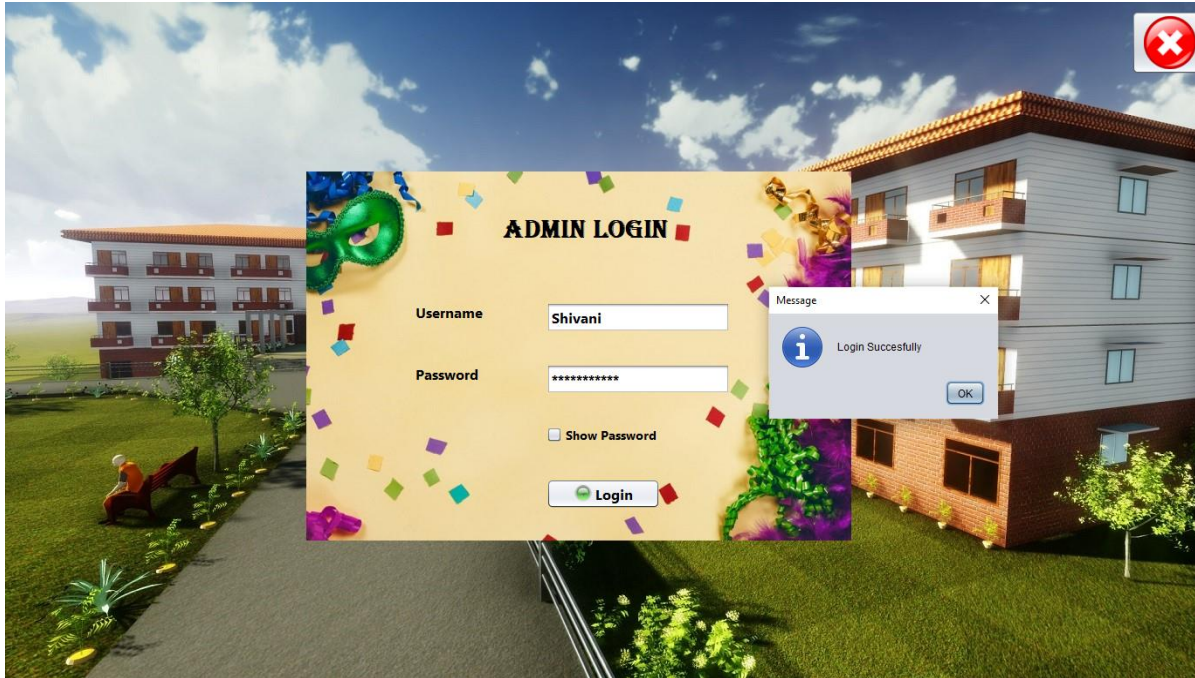
Validation of Amount field	Only Selected Items	Select amount into amount Field	Only Select item is accepted	Only Select item is accepted	Pass
----------------------------	---------------------	---------------------------------	------------------------------	------------------------------	------

❖ Payment Details

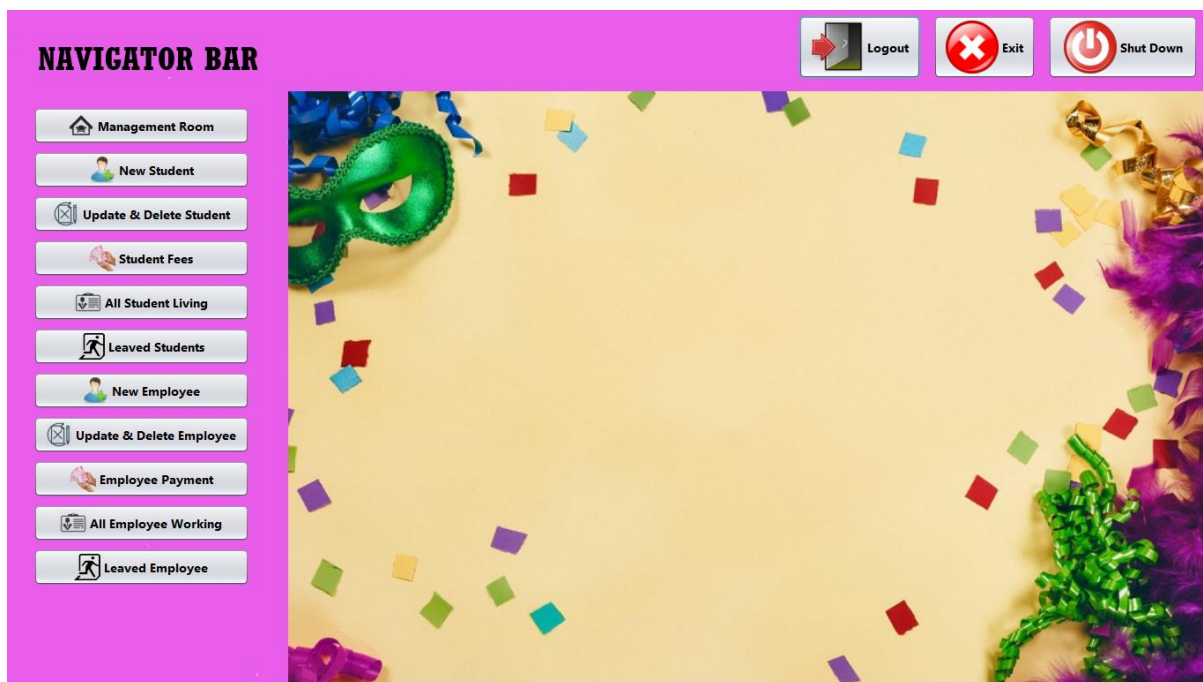
Test case objective	Prerequisites	Testing steps	Expected steps	Actual result	Pass/Fail
Validation of Employee ID field	ID contains only digits	Enter ID into Employee ID field	ID with only digits should be accepted	ID with only digits accepted	Pass
Validation of Name field	Name contains only character	Enter name into Name field	Name with only character should be accepted	Name with only character accepted	Pass
Validation of Month field	Only Month Format	Select Month into Month Field	Only Select item is accepted	Only Select item is accepted	Pass
Validation of Amount field	Only Selected Items	Select amount into amount Field	Only Select item is accepted	Only Select item is accepted	Pass

Input Screens

❖ Login Page



❖ Home Page



❖ Manage Room

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

ADD NEW ROOM

Room NumberS6Activate or Deactivate☒ YesSave

UPDATE & DELETE ROOM

Room NumberSearchActivate or Deactivate☐ YesUpdateDelete

ALL ROOMS

	Activate	Room Status
F5	Yes	Booked
F6	Yes	Booked
F7	Yes	Booked
F8	Yes	Booked
F9	No	Not Booked
S1	Yes	Booked
S2	Yes	Not Booked
S3	Yes	Not Booked
S4	Yes	Not Booked
S5	Yes	Not Booked

Message

Successfully Updated

OK

❖ Add New Student

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

ADD NEW STUDENT

Student Id3

Full NamePriya AwareAddressNashik

Father NameAnila AwareAadhar No411759439008

Mother NameSeema AwareClassTY BCS

Emailpriyaaware56@gmail.comRoom NoF3

Mobile No9764216667

College Namek j somiya college kopergoan

SaveResetClear

Message

Successfully Updated

OK

❖ Update Delete Student

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

UPDATE DELETE STUDENT

Student ID3Search

Full NamePriya AwareAddressNashik,Maharastra

Father NameAnila AwareMessageX411759439008

Mother NameSeema AwareiSuccessfully UpdatedOK

Emailpriyaaware56@F3

Mobile No9764216667Living Statusliving

College Namek j somiya college kopergoan

Update

Reset

Delete

Clear

❖ Student Fees

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

STUDENT FEES

Student ID3Serach

NamePriya AwareMobile No9764216667

ClassTY BCSClear

Room NoF3MessageX3000

Save

iSuccessfully UpdatedOK

ID	Name	Class	Month	Amount
----	------	-------	-------	--------

❖ Add New Employee

NAVIGATOR BAR

- Management Room
- New Student
- Update & Delete Student
- Student Fees
- All Student Living
- Leaved Students
- New Employee
- Update & Delete Employee
- Employee Payment
- All Employee Working
- Leaved Employee

LogoutExitShut Down

ADD NEW EMPLOYEE

Employee ID4

Full NameOm Warma

AddressMumbai,Maharashtra

Father NameSanjay Warma

Aadhar No968545127485

Mother NameShardha Warma

DesignationAccounting and Budgeting

Emailomsai2023@gmail.com

Mobile No7485961253

Save

Reset

Clear

Message
Sucesfully Updated
OK

❖ Update Delete Employee

NAVIGATOR BAR

- Management Room
- New Student
- Update & Delete Student
- Student Fees
- All Student Living
- Leaved Students
- New Employee
- Update & Delete Employee
- Employee Payment
- All Employee Working
- Leaved Employee

LogoutExitShut Down

UPDATE DELETE EMPLOYEE

Employee ID4Search

Full NameOm Warma

AddressMumbai,Maharashtra

Father NameSanjay Warma

Aadhar No968545127485

Mother NameShardha Warm

DesignationAccounting and Budgeting

Emailomsai2023@gmail.com

Mobile No7485961253

Update

Reset

Delete

Clear

Message
Sucesfully Updated
OK

❖ Employee Payment

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

EMPLOYEE PAYMENT

Employee ID4Search

NameOm WarmaEmailomsai2023@gmail.com

Mobile No7485961253MonthMay-2023

DesignationAccounting and BudgetingAmount10000

Clear

ID	Name	Mobile No	Designation	Email	Month	Amount
4	Om Warma	7485961253	Accounting an...	omsai2023@...	May-2023	10000

Output Screens

❖ Display All Rooms Information

NAVIGATOR BAR

Management Room

New Student

Update & Delete Student

Student Fees

All Student Living

Leaved Students

New Employee

Update & Delete Employee

Employee Payment

All Employee Working

Leaved Employee

Logout

Exit

Shut Down

ADD NEW ROOM

Room Number

Activate or Deactivate ☐ Yes

Save

UPDATE & DELETE ROOM

Room Number

Search

Activate or Deactivate ☐ Yes

Update

Delete

ALL ROOMS

Number	Activate	Room Status
F1	Yes	Booked
F2	Yes	Not Booked
F3	Yes	Booked
F4	Yes	Not Booked
F5	Yes	Not Booked
F6	No	Not Booked
G1	Yes	Not Booked
G2	Yes	Not Booked
G3	Yes	Not Booked
S1	Yes	Not Booked
S2	Yes	Not Booked
S3	Yes	Not Booked

❖ Display All Student Details

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

student employee student fees payment student employee payment fees room student fees employee fees payment employee student

Limit to 1000 rows

1 • SELECT * FROM hms.student;

studentId	name	fatherName	motherName	email	mobileNo	collegeName	address	aadharNo	sdclass	roomNo	status
1	Shivani Bhalerao	Nandu Bhalerao	Varsha Bhalerao	shivani2020@gmail.com	9370277851	k j soniya college kopergoan	Nashik,Maharashtra	411759439008	TY BCA(sc)	F1	living
2	Pallavi Shinde	Kran Shinde	Sunita Shinde	pallavishinde12@gmail.com	9921824161	k j soniya college kopergoan	Kopergoan,Maharashtra	456585257595	TY BCS	F2	living
3	Priya Aware	Anila Aware	Seema Aware	priyaaware56@gmail.com	9764216667	k j soniya college kopergoan	Nashik,Maharashtra	411759439008	TY BCS	F3	living
4	Savita Wagha	Kalasa Wagha	Manisha Wagha	savitawagha34@gmail.com	8574964585	k j soniya college kopergoan	Dondalgaon, S. SambhajeNagr	456532124521	SY BCS	S1	leaved
5	Pooja Aware	Babasaheba Aware	Sindu Aware	poojaaware90@gmail.com	3625857465	k j soniya college kopergoan	Mumabi,Maharashtra	963685257412	SY B.Com	G1	leaved
6	Sakshi Mohite	Anila Mohite	Kavita Mohite	sakshi78@gmail.com	7445857424	k j soniya college kopergoan	Kopergoan	122345567889	TY BCA(science)	S2	living
7	Pratiksha Dahe	Amol Dahe	Krishnabai Dahe	pratiksha11@gmail.com	6356257584	k j soniya college Kopergoan	Pultamba,Kopergoan	855225857465	TY BCA(Science)	G2	leaved

student 1 x

English (United States)
English (India) keyboard
To switch input methods, press Windows key+Space.

Type here to search

34°C

15:56
10-05-2023

❖ Display Student Fees Details

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```
SELECT * FROM hms.fees;
```

The result grid displays the following data:

studentId	name	sdclass	roomNo	mobileNo	month	amount
1	Shivani Bhalariao	TY BCA(sd)	F1	9370277851	May-2023	3000
3	Priya Aware	TY BCS	F3	9764216667	May-2023	3000
2	Palavi Shinde	TY BCS	F2	9921824161	May-2023	3000
6	Sakshi Mohite	TY BCA(science)	S2	7445857424	May-2023	3000
4	Savita Waghre	SY BCS	S1	8574964585	May-2023	3000
5	Pooja Aware	SY B.Com	G1	3625857465	May-2023	3000
7	Pratiksha Dahe	TY BCA(Science)	G2	6356257584	May-2023	3000

❖ Display All Employees Details

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```
SELECT * FROM hms.employee;
```

The result grid displays the following data:

employeeId	name	fatherName	motherName	email	mobileNo	address	aadharNo	designation	status
1	Sadhna Tikande	Vilas Tikande	Savita Tikande	sadhna23@gmail.com	9764216667	Kopergaon,Maharashtra	124563564587	Quality Control	Working
2	Mangle Sharma	Sanjay Sharma	Kamal Sharma	mangle45@gmail.com	9657302358	Pune,Maharashtra	788945561223	Housekeeping	Working
3	Sairam Shinde	Ganesh Shinde	Vinod Shinde	sairamshinde66@gmail.com	9921824161	Sinner,Maharashtra	454152654521	Maintenance	Not Working
4	Om Warma	Sanjay Warma	Shardha Warma	omsai2023@gmail.com	7485961253	Mumbai,Maharashtra	968545127485	Accounting and Budgeting	Working

❖ Display Employee Payment Details

The screenshot displays the MySQL Workbench interface. The 'Schemas' pane on the left shows the database structure, including tables like employee, fees, payment, room, student, hostel, and sys. The 'payment' table is selected, and its details are shown in the 'Table: room' section. The 'Columns' section lists: number (varchar(10) PK), activate (varchar(45)), and roomStatus (varchar(45)).

The 'Result Grid' shows the following data:

employeeId	name	mobileNo	designation	email	month	amount
1	Sadhna Tikande	9764216667	Quality Control	sadhna23@gmail.com	May-2023	10000
2	Mangle Sharma	9657302358	Housekeeping	mangle45@gmail.com	May-2023	10000
4	Om Warma	7485961253	Accounting and Budgeting	onsai2023@gmail.com	May-2023	10000

The bottom status bar indicates the session is 'payment 1' and the user is in 'Read Only' mode. The system clock shows 17:43 on 05-05-2023.

Limitations

- The main drawback of the proposed system is that, it is not web-based system.
- The proposed system is only handle by Admin
- This System store one time only one record

Conclusion

Hostel Management System is a customize and user-friendly software for hostel. It has been design to automate, manage and look after the overall processing of even very large hostel. It is capable of managing enquiry details, student details, payment details etc. Hostel Management System is customized and user-friendly software for hostel which provide hostel information, hostel account information. Hostel management software system is offering a maximum of stability, cost effectiveness and usability. It provides the most flexible and adaptable standards management system software solution for hostel.

References

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