18CSC206J - LAB REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this lab report titled **"HOSTEL BOOKING PORTAL"** is the bonafide work done by NIKHIL BURDAK (RA2011003010209) who carried out the lab exercises under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other work.

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ABSTRACT

The Hostel Booking Portal is a website that will be used for automating the booking of hostels for a specified organization. This software will help the user in booking a room, getting roommate detail, room detail, reporting, registration, and searching the information about residents and roommates. The aim of the Hostel Management System is to carry out the activities of the Hostel in an efficient way. It will take the operations of the Hostel to an upper level by providing faster access to data and allowing addition, up-gradation, modification, and deletion of data in a very systematic and reliable manner. Overcoming the problem, we deal which we face like lack of roommate details, Room details(photos), and Room swapping features in the current scenario. So, using this application it will become easy for an individual to book hostel and get its related details.

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LIST OF ABBREVIATIONS

WBS - Work Breakdown Structure

ER - Diagram Entity Relationship

SWOT - Strength, Weakness, Opportunities, Threats

DFD - Data Flow Diagram

USTR - Use Case Testing Requirement

NFR - Non-Functional Requirement

CHAPTER 1

PROBLEM STATEMENT

The Hostel Booking Portal is a website that will be used for automating the booking of hostels for a specified organization. This software will help the user in booking a room, getting roommate detail, room detail, reporting, registration, and searching the information about residents and roommates. The aim of the Hostel Management System is to carry out the activities of the Hostel in an efficient way. It will take the operations of the Hostel to an upper level by providing faster access to data and allowing addition, up-gradation, modification, and deletion of data in a very systematic and reliable manner. Overcoming the problem, we deal which we face like lack of roommate details, Room details(photos), and Room swapping features in the current scenario. So, using this application it will become easy for an individual to book hostel and get its related details.

DATE	11-MARCH-2022
SUBMITTED BY	NIKHIL BURDAK [RA2011003010209]
TITLE / ROLE	HOSTEL BOOKING PORTAL

1.1 THE PROJECT
In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

- **Roommate details**:
  Here an individual student can access basic details of his/her roommate at the time of booking. Details include name, email, branch, etc.
- **Room details**:
  Room picture are available on site for reference purpose. One can get details about hostel amenities, direction and then choose from them.
- **Room swapping**:
  In case anyone wants to change roommate then so they can file forum regarding room swapping.
- **Management**:
  It helps one to apply for leave, complaint about room services directly to the hostel management. One can read notice board.

1.2 THE HISTORY
In bullet points, describe the current situation.

In current scenario, there is lack of room details mentioned, there is no option of room swapping/change.
One cannot know about their roommate priorly at the time of booking.
Currently hostellers have to submit applications and in/out receipts to the reception in paper.

1.3 LIMITATIONS
List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

- Lack of experience
- Lack of technical testing
- Data base management is a hectic part.
- Excess traffic may cause server issues.
- May contain bugs.

1.4 APPROACH

List what is needed to complete the project.

The project needs a number of prerequisites for its successful completion. Some of the skills include

- HTML, CSS
- JAVASCIRPT
- DJANGO
- REACT
- DATA STRUCTURE

1.5 BENEFITS

In bullet points, list the benefits that this project will bring to the organization.

Some of benefits of the project are

o A student can easily access hostel photos and check direction of the room and choose the room accordingly.
o A student can contact their roommate.
o A student can file complaint regarding any room service and amenities easily.
o There is always an option of changing a room.

CHAPTER-2
STAKEHOLDERS & PROCESS MODELS

To identify the appropriate Process Model for the project and prepare Stakeholder and User Descriptions.

2.1 Selection of Methodology

We have selected the Waterfall Methodology for this project because of its linear approach. In a waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases. Once the work begins, teams cycle through a process of planning, executing, and evaluating. The requirement of user's specifications and the idea of the team System design helps in specifying hardware and system architecture implementation with input from system design the program is tested in small blocks called units. Each unit is tested for its functionality Integration and Testing. Combine all units (integration) test complete product for faults Deployment. If any issues come up and any enhancement to the product Will occur only in a customer environment. It is simple and easy to understand and use, and easy to manage.

2.2. Information Regarding Stakeholders of The Project

Table 2.1: Table of stakeholders

Stakeholder Name	Activity/ Area /Phase	Interest	Influence	Priority (High/ Medium/ Low)
Project Manager	Leading the Team in every aspect. Accountable for the entire project integration, team & project success andfailure	High	High	2
Team Members	New product excitement Retain and upgrade their skills	High	Medium	2
End-User	Provides feedback about the system GUIand Functionalities	High	Low	5
Client/Customer	Provides the requirements on which thesystem is going to be built on and gain services	High	High	6
Sponsor	Negotiate Funding of the project	Medium	Low	3
Investor	The promoter of the investing Provides necessary financial resources	Low	Low	4

CHAPTER 3

IDENTIFYING REQUIREMENTS

To identify the system, functional and non-functional requirements for the project

3.1 System/Hardware Requirements

This project is basically a website hence to utilize it, a computer or system must have one Web Browser installed. The app will be supported on Google Chrome, Safari, Mozilla Firefox, Microsoft Edge, and a few others. It specifies the hardware requirements like memory restrictions, cache size, the processor, RAM size, etc... those are required for the software to run.
Processor: - Pentium 4
Ram: - 512 MB
Disk Space: - 150 MB
Screen Aspect-Ratio: compatible with both mobile and Desktop
Operating System: - Windows XP, 7, 8,10,11, MacOS
Keyboard-To accept user input.
Printer-To the desired output.

3.2 Functional Requirements

• **Response Time**: The response of all the operations is good. This has been made possible by careful programming.

• **User Satisfaction**: The system is such that it stands up to the user expectations.

• **Error Handling**: Response to user errors and undesired situations has been taken care of to ensure that the system operates without halting.

• **Safety and Robustness:** The system is able to avoid or tackle disastrous actions. In other words, it should be foul-proof. The system safeguards against undesired events, without human intervention.

• **Portable**: The software should not be architecture-specific. It should be easily transferable to other platforms if needed.

• **User-friendliness**: The system is easy to learn and understand. A native user can also use the system effectively, without any difficulties.

3.3 Non-Functional Requirements

- Once Deployed the Database shouldn't lose any data
- The Application should be available to user 24/7
- The speed of the system should be optimized such that the users may not feel any lag
- The cost of the server should be reduced for overcoming excess loss
- Security: The system uses SSL (secured socket layer) in all transactions that include any confidential customer information.
- Reliability: The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.
- Maintainability: A commercial database is used for maintaining the database and the application server takes care of the site.

CHAPTER 4

PROJECT PLAN AND EFFORT

To prepare project plan based on scope, calculate project effort based on resources

4.1 PROJECT MANAGEMENT PLAN

Table 4.1: Project Management Plan

Focus Area	Details
Quality Management	Our site is dynamic in nature due to frequent change in prices on host sites and we have to provide up to date data to our clients. So, we have to update data on the web page on a regular basis.
Resource Management	The main part of our website is its database management. We have to scrape a large amount of data and to save data we need active cloud service. Finance: Main expense will be of cloud service rental and its hosting.
Risk Management	The biggest risk in these types of process we follow is that prices change frequently, each website updates their product prices due to competitors and this would be problematic for us as we have to scrape the data on a regular basis.

4.2 ESTIMATION

Table 4.2 Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (in hours)	Cost in INR
Design the user screen	E1R1A1T1 (Effort-Requirement-Activity-Task)	Confirm the user requirements (acceptance criteria)	3	3,750
	E1R1A1T2	Wireframing/UX	6	7,500
	E1R1A1T3	Developing Frontend	15	18,750
Identify Data Source for displaying units of Energy Consumption		Go through Interface contract (Application Data Exchange) documents	5	6,250
		Document		

Effort (hr)	Cost (INR)
1	1250

Table 4.3 Infrastructure/Resource cost

Infrastructure Requirement	Qty	Cost per qty	Cost per item
IR1 Server	10	500	5000
IR2 Storage	1	5000	50000
IR3 Network	1	200	2000

Table 4.4 Maintenance and Support Cost [OpEx]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin Developer, Support Consultant	3	2,000,000	6,000,000
License	Operating System Database Middleware IDE	10	10000	100,000
Infrastructures	Server, Storage and Network	20	20000	400,000

4.3 PROJECT TEAM FORMATION

Table 4.5 Identification Team Members

Name	Role	Responsibilities
ANIKET LAAD	Project Manager	Manage the project
ABHINAV MISHRA	Business Analyst	Discuss and Document Requirements
NIKHIL BURDAK	Technical Lead	Design the end-to-end architecture
ANIKET LAAD	UX Designer	Design the user experience
ANIKET LAAD	Frontend Developer	Develop user interface
NIKHIL BURDAK	Backend Developer	Design, Develop and Unit Test Services/API/DB
ANIKET LAAD	Cloud Operations	Provision required Services
NIKHIL/ABHINAV	Tester	Define Test Cases and Perform Testing

Table 4.5 Responsibility Assignment Matrix

RACI Matrix	Team Members			
Activity	NAME (BA)	Name (Developer)	Name (Project Manager)	Key Business User
User Requirement Documentation	Aniket Laad(R)	Abhinav Mishra(I) Nikhil Burdak(C)	Aniket Laad(I)	Abhinav Mishra(A)
Frontend	Aniket Laad(R)	Abhinav Mishra(C)	Aniket Laad(I)	Abhinav Mishra(A)
Backend	Nikhil Burdak(R)	Aniket Laad(C)	Aniket Laad(I)	Abhinav Mishra(A)
UI/UX	Abhinav Mishra(R)	Aniket Laad(C)	Aniket Laad(I)	Abhinav Mishra(A)
Tester	Nikhil/Abhinav(R)	Aniket Laad(C)	Aniket Laad(I)	Abhinav Mishra(A)

A	Accountable
R	Responsible
C	Consult
I	Inform

CHAPTER 5

WORK BREAKDOWN STRUCTURE AND RISK ANALYSIS

The aim of these processes is to ensure that various Project tasks are well coordinated and they meet the various project objectives including timely completion of the project. Project Planning is an aspect of Project Management that focuses a lot on Project Integration. The project plans reflect the current status of all project activities and is used to monitor and control the project. The Project Planning tasks ensure that various elements of the Project are coordinated and therefore, guide the project execution.

Breaking work into smaller tasks is a common productivity technique used to make the work more manageable and approachable. For projects, the Work Breakdown Structure (WBS) is the tool that utilizes this technique and is one of the most important projects management documents.

It single handedly integrates scope, cost, and schedule baselines ensuring that project plans are in alignment.
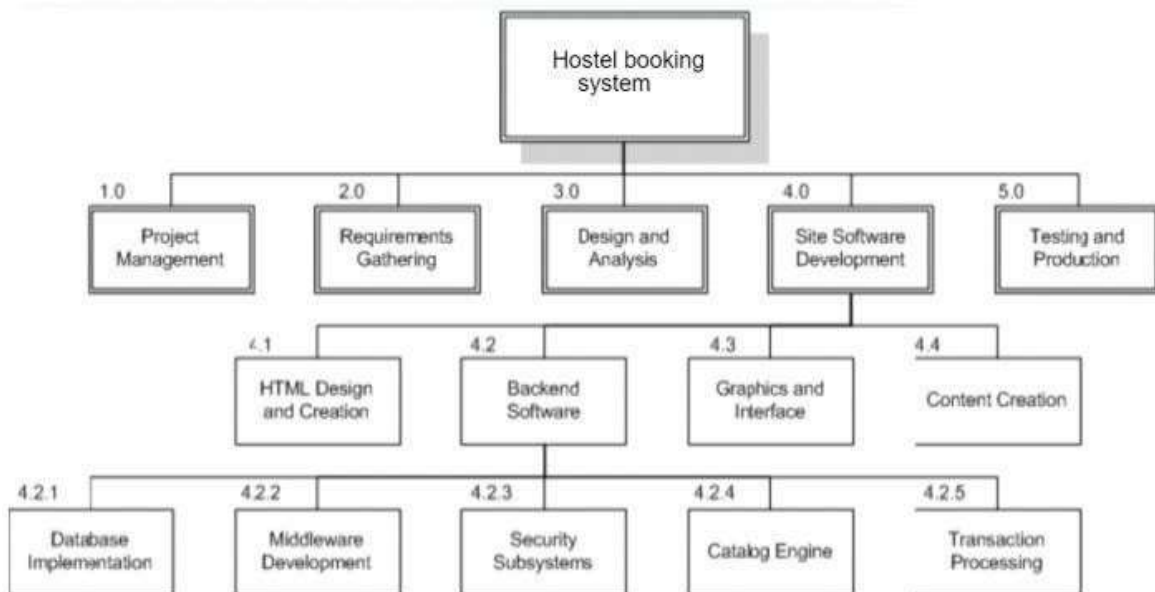
5.1 Work Breakdown Structure:

FIG 5.1 WBS

5.2 Timeline-Gantt Chart:

FIG 5.2 TIMELINE CHART

5.3 Risk Analysis – SWAT and RMMM:

Table 5.1 Risk Management Framework - Risks and Mitigation

Response	Strategy	Examples
Avoid	As there are many functionalities in the application, the old school method to work with the backend of the site may make it a lengthy process. So using some newer system might help.	• Employing Data Management Engineers. • Implementing a newer backend model.
Transfer	Server may not be able to handle numerous data simultaneously or there may be server related issues. So for the cloud operations a third party service will be used.	• For the cloud operations AWS cloud service will be used • For database management we will be using mongodb atlas.
Mitigate	Communicating services might not be effective between the employees. The employee can be contacted either through a phone call or through an email.	• Time Management. • Work related issues.
Accept	People are not willing to join our application and moving to another online platform.	• Not a large Audience. • Frontend of the website might be accepted by the people.

CHAPTER-6

SYSTEM ARCHITECTURE, USE CASE & CLASS DIAGRAM

To Design a System Architecture, use case and Class Diagram for Project Management system.

6.1 SYSTEM ARCHITECTURE
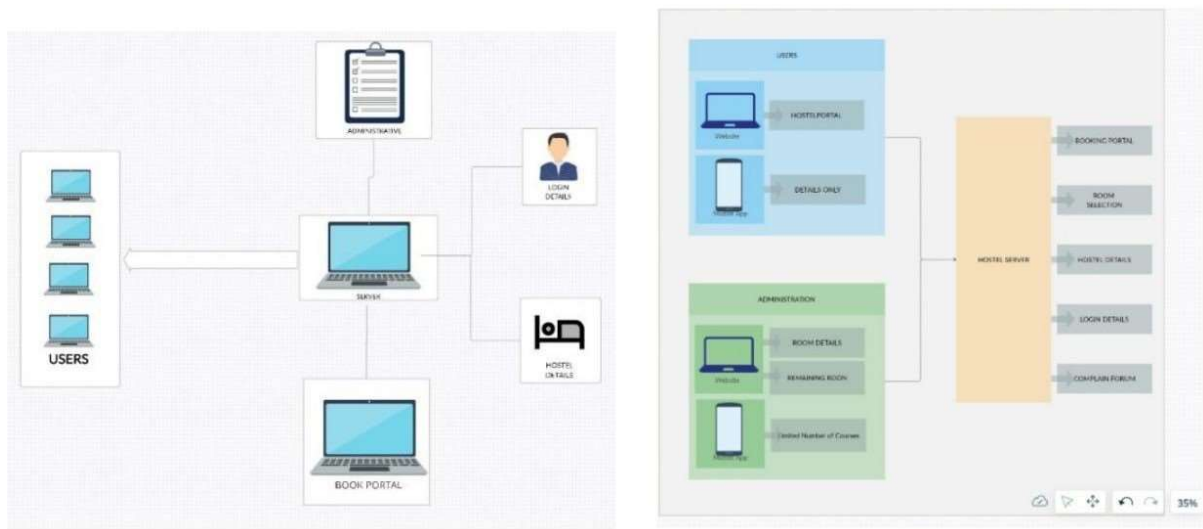
Fig 6.1 system Architecture

6.2 USE CASE DIAGRAM:
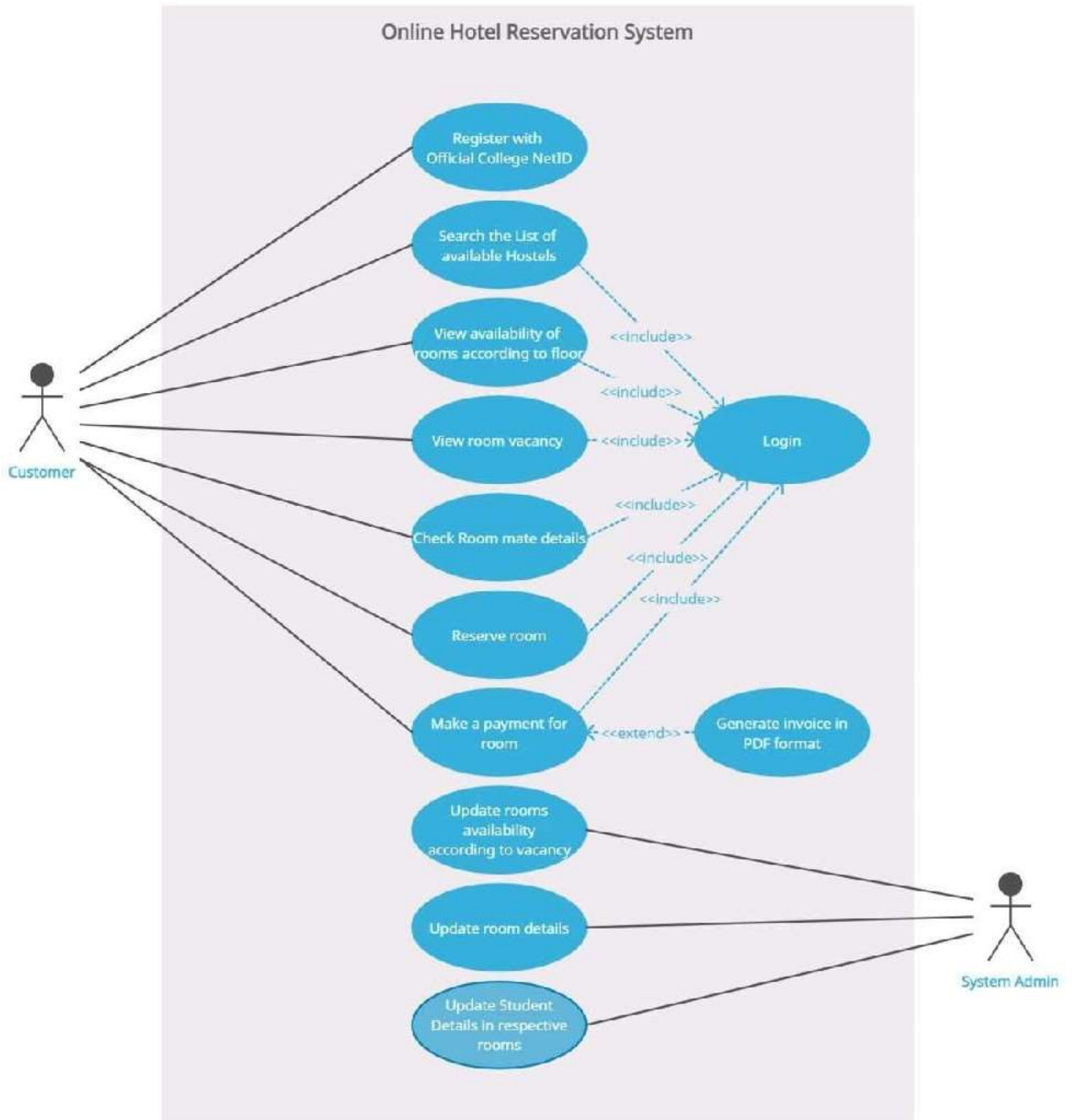
Fig 6.2 Use Case Diagram

6.3 CLASS DIAGRAM

Customer
+CustId: int
+Nme: string
+NetId: string

+GetPassword()
+PersonalDetails()
+RegisterNumber()
+Department()

Hostel Rooms
+RoomNumber: int
+RoomFloor: int

Hostels
+HostelId: int
+HostelName: string
+HostelAddress: string

Student
+StudentName: string
+Number: int
+Address: string
+City: string

Room Booking
+RoomBookingDateFrom: int
+RoomBookingDateTo: int

+RoomType()
+RoomVacancy()
+RoomateDetails()

Room types
+RoomType: string
+RoomTypeRate: int

Room Rate
+RoomRate: Int

Booking
+RoomID: int
+RoomType: string
+RoomRate: int

Fig 6.3 Class Diagram

CHAPTER-7

ENTITY RELATIONSHIP DIAGRAM

To create the Entity Relationship Diagram for Project Management System.

7.1 ENTITY RELATIONSHIP DIAGRAM:

E-R DIAGRAM FOR HOSTEL MANAGEMENT SYSTEM
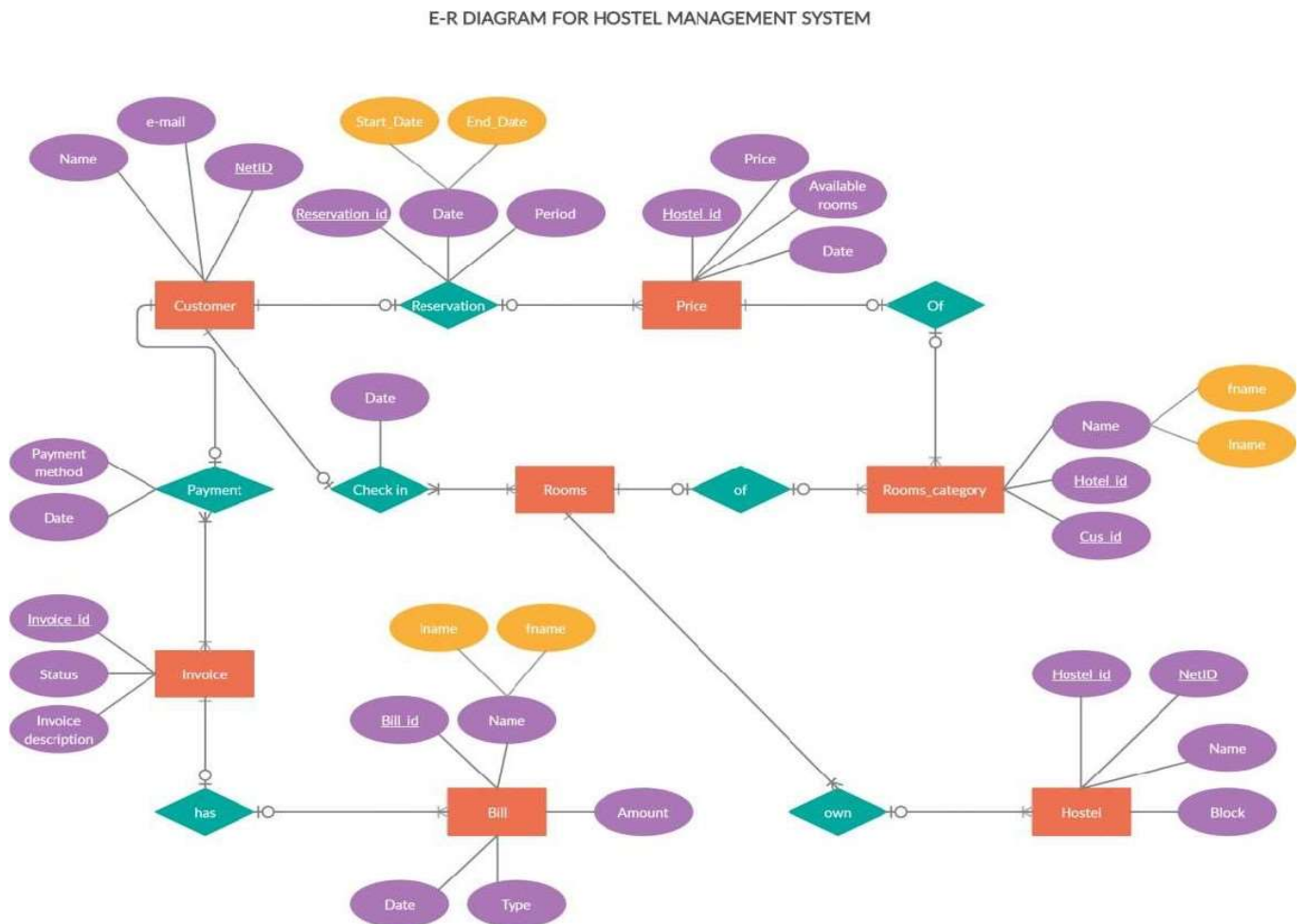
Fig 7.1 ER Diagram

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of da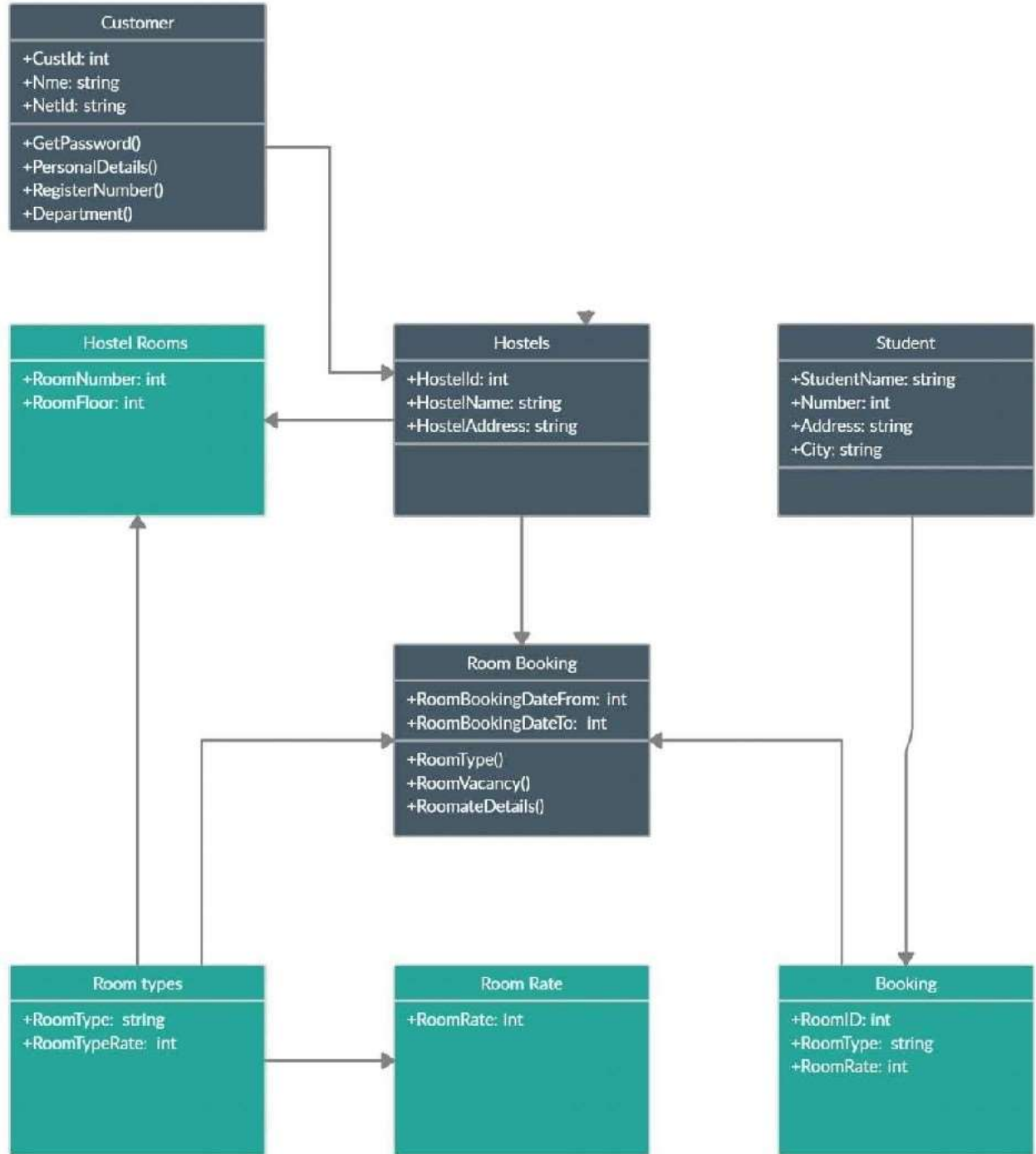tabases. ER diagrams are created based on three basic concepts: entities, attributes, and relationships. ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes, and diamond shapes to represent relationships. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure.

CHAPTER-8

DATA FLOW DIAGRAM

To develop the data flow diagram up to level 1 for the Project Management system.

8.1 Data Flow Diagram:

DFD LEVEL 1 (Main Page)

Fig 8.1 DFD Level 0 (Main Page)

DFD LEVEL 1 (Manage Profile)

Fig 8.2 DFD LEVEL 1 (MANAGE PROFILE)
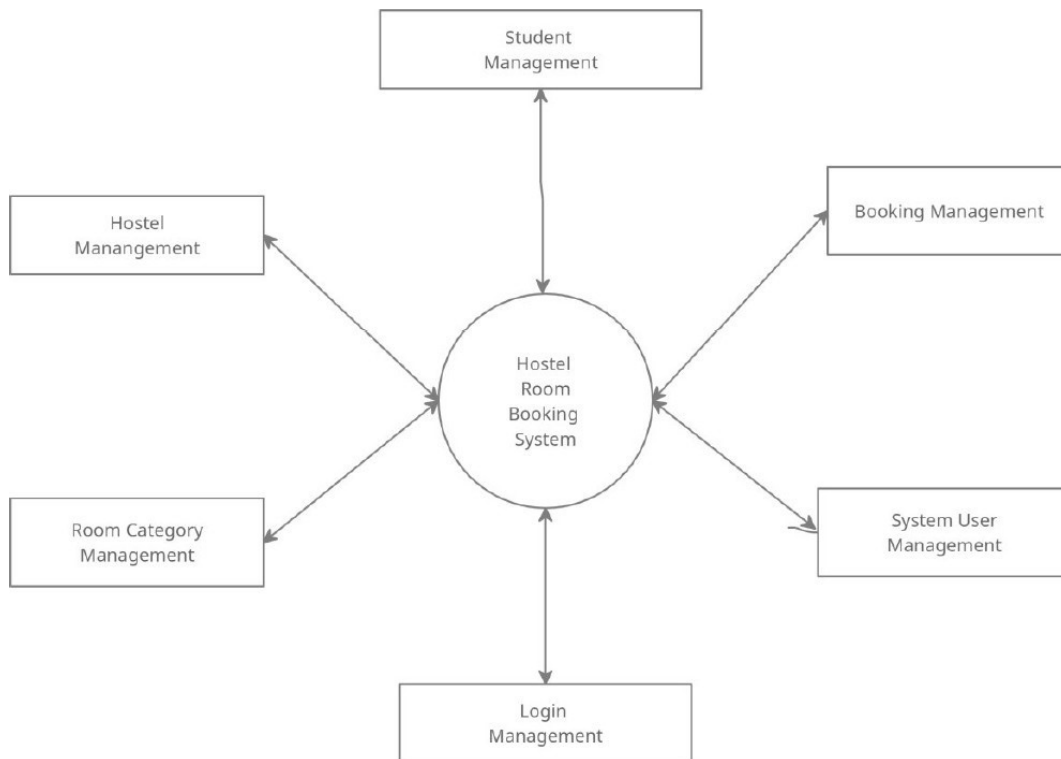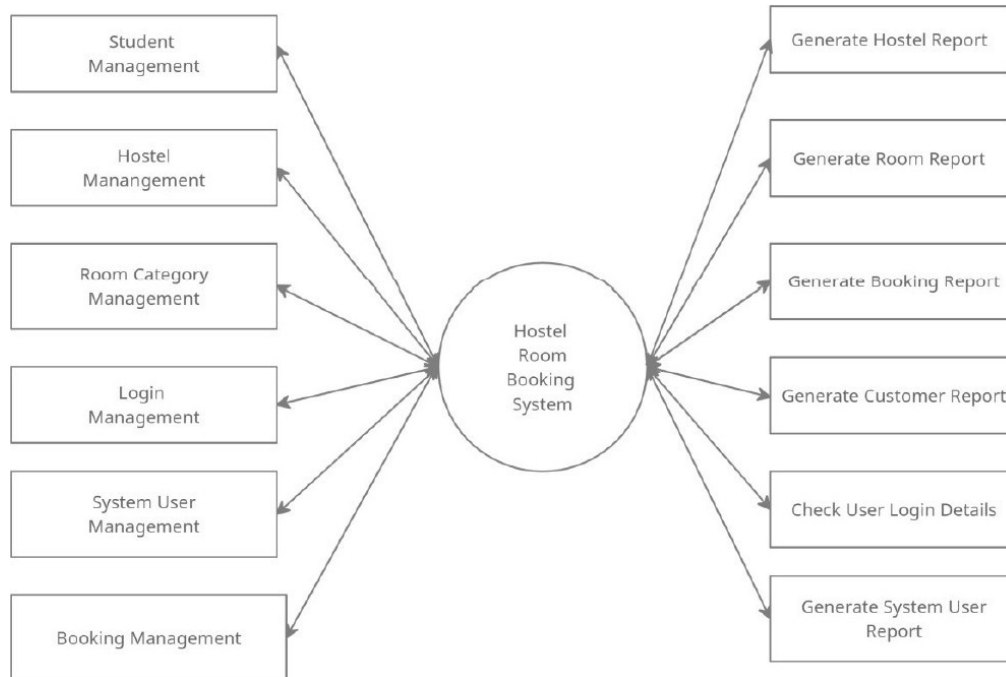
Data Flow Diagram

The DFD takes an input-process-output view of a system. That is, data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software. Data objects are represented by labeled arrows, and transformations are represented by circles (also called bubbles). The DFD is presented in a hierarchical fashion. That is, the first data flow model (sometimes called a level 0 DFD or context diagram) represents the system as a whole. Subsequent data flow diagrams refine the context diagram, providing increasing detail with each subsequent level.

The data flow diagram enables you to develop models of the information domain and functional domain. As the DFD is refined into greater levels of detail, you perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

A few simple guidelines can aid immeasurably during the derivation of a data flow diagram:

(1)   Level 0 data flow diagram should depict the software/system as a single bubble;

(2) Primary input and output should be carefully noted;

(3)   Refinement should begin by isolating candidate processes, data objects, and data stores to be represented at the next level;

(4) All arrows and bubbles should be labeled with meaningful names;

(5) Information flow continuity must be maintained from level to level and

(6)   One bubble at a time should be refined. There is a natural tendency to overcomplicate the data flow diagram. This occurs when you attempt to show too much detail too early or represent procedural aspects of the software in lieu of information flow.

CHAPTER-9

SEQUENCE AND COLLABORATION DIAGRAM

To create the sequence and collaboration diagram for the Project Management system.

9.1 Sequence Diagram:

A sequence diagram or system sequence diagram (SSD) shows process interactions arranged in time sequence in the field of software engineering. Here it depicts the processes involved and the sequence of messages exchanged between the processes for passport application needed to carry out the functionality.
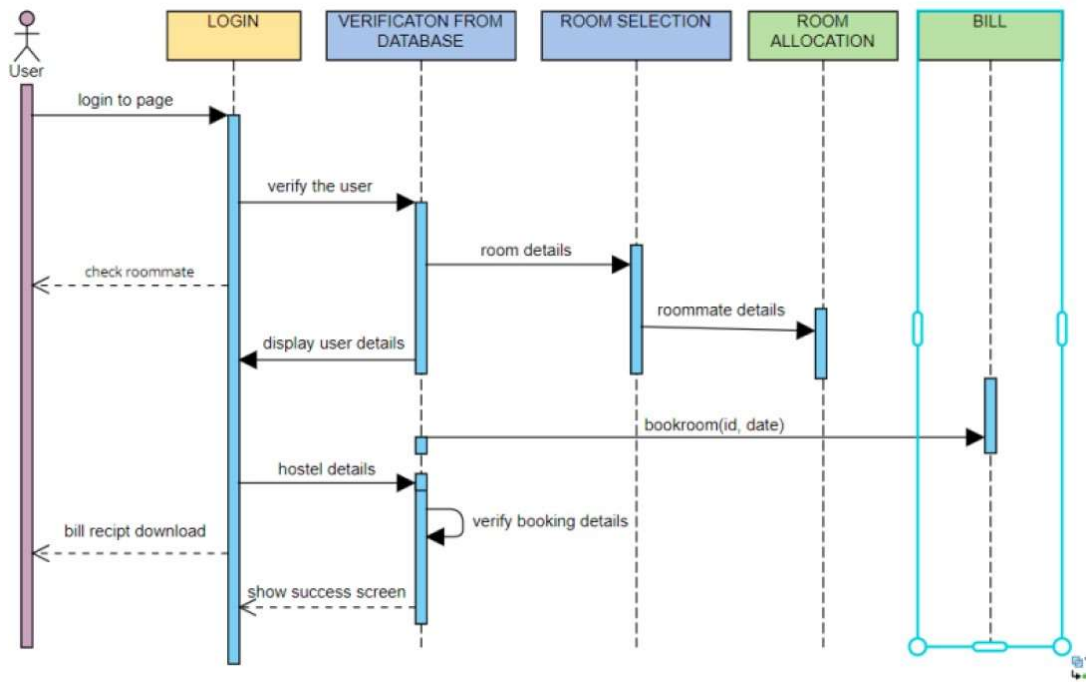

Fig 9.1 Sequence Diagram

9.1 Collaboration Diagram:

A collaboration diagram, also known as a communication diagram, is an illustration of the relationships and interactions among software objects in the Unified Modelling Language (UML). These diagrams can be used to portray the dynamic behavior of a particular use-case and define the role of each object.
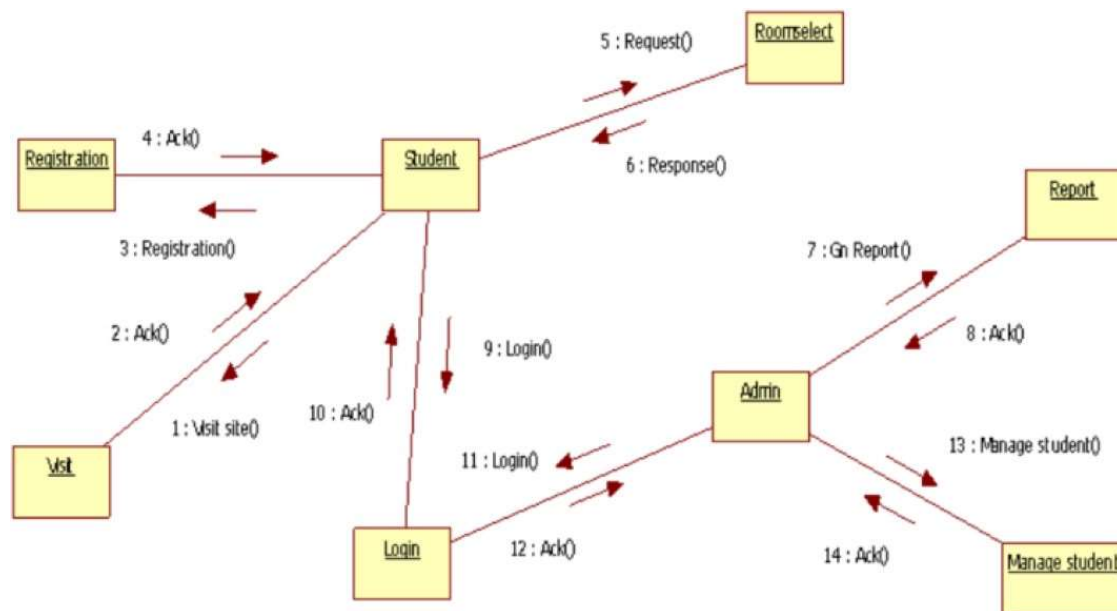
Fig 9.2 Collaboration Diagram

CHAPTER-10

DEVELOPMENT OF TESTING FRAMEWORK/USER INTERFACE

To develop the testing framework and/or user interface framework system.

10.1 Test Plan

10.1.1 Functional Testing Scope

The following user stories are covered in the functional testing for release 1. Any change to this has to be managed by the Product Owner in collaboration with the Development Team.

Table 10.1 functional testing

Category	Methodology	Tools Required
Functional Requirements	Manual	GUI testing, regression testing, backend testing.
Non-Functional Requirements	Manual	Testing
UI Test	Manual	Figma or creately
Performanc etesting	Automatic	Google Chrome Development kit
Load Testing	Manual	Load Focus or any renowned load tester

10.1.2 Non-Functional Testing Scope

The following NFRs are covered by the testing scope for release 1. Any change to this has to be managed by the Product Owner in collaboration with the Development Team.

Table 10.2 Non-Functional testing

Category	Methodology	Tools Required
Load testing	Automatic	Google Chrome Developer toolkit
performance testing	Automatic	Google Chrome Developer toolkit
Search Engine Optimisation testing	Automatic	Google Chrome Developer toolkit

CHAPTER-11

TEST CASES

To develop the test cases manual for the Project Management system.

Test Case

11.1.1 Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
1.	Authentication of the user.	Accept users with email addresses entering valid password	1. Enter the site. 2. Enter the email and password in the login page. 3. Click on login button.	User should be given access to his projects catalog page.	User is given access in his projects catalog page.	Pass / Failure	Success
2.	Creating projects	While creating a project it will become visible in the dashboard	1. Login to your account. 2. Create project 3. On the pop-up enter the name of the project. 4. Click on create.	The project cart should be displayed on the project catalog page.	The project is been added to the project catalog page.	Pass/Failure	Success
3.	Access specifier	Access allocated to members, task leads, and project owner.	1. Login to your account. 2. Create a project, and add a member. 3. Login to the application via that member credentials. 4. Open the dashboard.	The create tasks card is visible only to the owner/manager of the project.	The create tasks card is visible only to the owner/manager of the project.	Pass/Failure	Success

Table 11.1 Functional Test Cases

11.1.2 Non-Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
	Performance	To check how much time the page takes to load.	1. Open the browser's developer tools. 2. Go to the lighthouse section. 3. Select devices and click on get analysis page.	This will provide a report which states the information regarding the performance of the page.All the ratings should be above 70%.	All the ratings are above 70%.	Pass/Failure	Success

Table 11.2 Non-Functional Test Cases

CHAPTER 12

Test Case Reporting

12.1 Test Report

Testing can be done either manually or automation testing. Automation testing finally leads to regression testing. Manual testing leads to unit testing. To check for business requirements, we have used unit testing that will be performed on the entire function system, i.e., for each and every function of the calculator. This testing tests each and every function with regards to its output as expected by the user.

Test Case Report:

Table 12.1 Test Report

Category	Progress Against Plan	Status
Functional Testing	Successfull	In-Progress
Non-Functional Testing	Successfull	In -Progress

Table 12.2 Current status of testing

Functional	Test Case Coverage (%)	Status
Login	100%	Completed
Room Selection	100%	Completed
Room Type	100%	Completed
Payment Selection	60%	In-Progress
Card Details	50%	In-Progress

CONCLUSION

 It is concluded that the application works well and satisfy the users. The application is tested very well and errors are properly debugged. The site is simultaneously accessed from more than one system. Simultaneous login from more than one place is tested. The site works according to the restrictions provided in their respective browsers. Further enhancements can be made to the application so that the website functions very attractive and useful manner than the present one. User-friendliness is provided in the application with various controls provided by system rich user interface. This system makes the overall project management much easier and more flexible. Various classes have been used to maintain the details of all the users and catalog. Authentication is provided for this application that only registered users can access. Transaction security is guaranteed. Hence the website is fully functional.

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- php/]

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APPENDIX- I (SAMPLE CODE)

Project Login Page (MODULE)

```html
<!DOCTYPE html>
<html lang="en">
<head>
<title> Intrend Interior Category Flat Bootstrap Responsive Website Template | Index :
W3layouts</title>

        <!-- Meta tag Keywords -->
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta charset="utf-8">
        <meta name="keywords" content="Intrend Responsive web template, Bootstrap Web
Templates, Flat Web Templates, Android Compatible web template,
        Smartphone Compatible web template, free webdesigns for Nokia, Samsung, LG,
SonyEricsson, Motorola web design" />
        <script type="application/x-javascript">
                addEventListener("load", function () {
                        setTimeout(hideURLbar, 0);
                }, false);

                function hideURLbar() {
                        window.scrollTo(0, 1);
                }
        </script>
        <!--// Meta tag Keywords -->

        <link href="../web_home/css_home/slider.css" type="text/css" rel="stylesheet"
media="all">

        <!-- css files -->
        <link rel="stylesheet" href="../web_home/css_home/bootstrap.css"> <!--
Bootstrap-Core-CSS -->
        <link rel="stylesheet" href="../web_home/css_home/style.css" type="text/css"
media="all" /> <!-- Style-CSS -->
        <link rel="stylesheet" href="../web_home/css_home/fontawesome-all.css"> <!--
Font-Awesome-Icons-CSS -->
        <!-- //css files -->

        <!-- testimonials css -->
```

```
<link rel="stylesheet" href="../web_home/css_home/flexslider.css" type="text/css"
media="screen" property="" /><!-- flexslider css -->
        <!-- //testimonials css -->

        <!-- web-fonts -->
        <link href="//fonts.googleapis.com/css?family=Poiret+One&amp;subset=cyrillic,latin-ext"
rel="stylesheet">
        <!-- //web-fonts -->

</head>

<body>

<!-- banner -->
        <div class="banner" id="home">
                <div class="cd-radial-slider-wrapper">

<!--Header-->
<header>
        <div class="container agile-banner_nav">
                <nav class="navbar navbar-expand-lg navbar-light bg-light">

                        <h1><a class="navbar-brand" href="admin_home.php">NITC <span
class="display"></span></a></h1>
                        <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
                        <span class="navbar-toggler-icon"></span>
                        </button>

                        <div class="collapse navbar-collapse justify-content-center"
id="navbarSupportedContent">
                                <ul class="navbar-nav ml-auto">
                                        <li class="nav-item active">
                                                <a class="nav-link" href="admin_home.php">Home
<span class="sr-only">(current)</span></a>
                                        </li>
        <li class="nav-item">
                                                <a class="nav-link"
href="create_hm.php">Appoint/Remove Hostel Manager</a>
                                        </li>

                                        <li class="nav-item">
```

```html
                                                <a class="nav-link"
href="students.php">Students</a>
                                        </li>
                                        <li class="nav-item">
                                                <a class="nav-link"
href="admin_contact.php">Contact</a>
                                        </li>
                                        <li class="dropdown nav-item">
                                                <a href="#" class="dropdown-toggle nav-link"
data-toggle="dropdown"><?php echo $_SESSION['username']; ?>
                                                        <b class="caret"></b>
                                                </a>
                                                <ul class="dropdown-menu
agile_short_dropdown">
                                                        <li>
                                                                <a href="admin_profile.php">My
Profile</a>
                                                        </li>
                                                        <li>
                                                                <a
href="../includes/logout.inc.php">Logout</a>
                                                        </li>
                                                </ul>
                                        </li>
                                </ul>
                        </div>

                </nav>
        </div>
</header>
<!--Header-->

                        <ul class="cd-radial-slider" data-radius1="60" data-radius2="1364"
data-centerx1="110" data-centerx2="1290">
                                <li class="visible">
                                        <div class="svg-wrapper">
                                                <svg viewBox="0 0 1400 800">
                                                        <title>Animated SVG</title>
                                                        <defs>
                                                                <clipPath id="cd-image-1">
                                                                        <circle id="cd-circle-1"
cx="110" cy="400" r="1364"/>
                                                                </clipPath>
                                                        </defs>
```

```
                                                    <image height='800px' width="1400px"
clip-path="url(#cd-image-1)" xlink:href="../web_home/images/1.png"></image>
                                    </svg>
                            </div> <!-- .svg-wrapper -->
                            <div class="cd-radial-slider-content">
                                    <div class="wrapper">
                                            <div class="text-center">
                                                    <h2>Hostel Management </h2>
                                                    <h3> System </h3>


                                            </div>
                                    </div>
                            </div> <!-- .cd-radial-slider-content -->
                    </li>
                    <li class="next-slide">
                            <div class="svg-wrapper">
                                    <svg viewBox="0 0 1400 800">
                                            <title>Animated SVG</title>
                                            <defs>
                                                    <clipPath id="cd-image-2">
                                                            <circle id="cd-circle-2"
cx="1290" cy="400" r="60"/>
                                                    </clipPath>
                                            </defs>
                                            <image height='800px' width="1400px"
clip-path="url(#cd-image-2)" xlink:href="../web_home/images/2.png"></image>
                                    </svg>
                            </div> <!-- .svg-wrapper -->
                            <div class="cd-radial-slider-content text-center">
                                    <div class="wrapper">
                                            <div class="text-center">
                                                    <h3>Rooms</h3>


                                            </div>
                                    </div>
                            </div> <!-- .cd-radial-slider-content -->
                    </li>
                    <li>
                            <div class="svg-wrapper">
                                    <svg viewBox="0 0 1400 800">
                                            <title>Animated SVG</title>
                                            <defs>
                                                    <clipPath id="cd-image-3">
```

```html
                                                            <circle id="cd-circle-3"
cx="110" cy="400" r="60"/>
                                            </clipPath>
                                    </defs>
                                    <image height='800px' width="1400px"
clip-path="url(#cd-image-3)" xlink:href="../web_home/images/3.png"></image>
                            </svg>
                        </div> <!-- .svg-wrapper -->
                        <div class="cd-radial-slider-content text-center">
                            <div class="wrapper">
                                <div class="text-center">
                                    <h3>Hostels </h3>


                                </div>
                            </div>
                        </div> <!-- .cd-radial-slider-content -->
                    </li>

                </ul> <!-- .cd-radial-slider -->
                <ul class="cd-radial-slider-navigation">
                        <li><a href="#0" class="next"><i class="fas
fa-chevron-right"></i></a></li>
                        <li><a href="#0" class="prev"><i class="fas
fa-chevron-left"></i></a></li>
                </ul> <!-- .cd-radial-slider-navigation -->
            </div> <!-- .cd-radial-slider-wrapper -->
        </div>
<!-- //banner -->

<!-- about -->

<!-- //about -->

<!-- why choose us -->

<!-- team -->

<!-- //team -->

<!-- Clients -->

<!--// Clients -->
```

```html
<!-- latest news -->

<!-- //latest news -->

<!-- footer -->
<footer class="py-5">
        <div class="container py-md-5">
                <div class="footer-logo mb-5 text-center">
                        <a class="navbar-brand" href="http://www.nitc.ac.in/"
target="_blank">NIT<span class="display"> CALICUT</span></a>
                </div>
                <div class="footer-grid">

                        <div class="list-footer">
                                <ul class="footer-nav text-center">
                                        <li>
                                                <a href="admin_home.php">Home</a>
                                        </li>

                                        <li>
                                                <a href="create_hm.php">Appoint</a>
                                        </li>
                                        <li>
                                                <a href="students.php">Student</a>
                                        </li>
                                        <li>
                                                <a href="admin_contact.php">Contact</a>
                                        </li>
                                        <li>
                                                <a href="admin_profile.php">Profile</a>
                                        </li>
                                </ul>
                        </div>

                </div>
        </div>
</footer>
<!-- footer -->

<!-- js-scripts -->

        <!-- js -->
        <script type="text/javascript" src="../web_home/js/jquery-2.2.3.min.js"></script>
```

```html
<script type="text/javascript" src="../web_home/js/bootstrap.js"></script> <!--
Necessary-JavaScript-File-For-Bootstrap -->
<!-- //js -->

<!-- banner js -->
<script src="../web_home/js/snap.svg-min.js"></script>
<script src="../web_home/js/main.js"></script> <!-- Resource jQuery -->
<!-- //banner js -->

<!-- flexSlider --><!-- for testimonials -->
<script defer src="../web_home/js/jquery.flexslider.js"></script>
<script type="text/javascript">
        $(window).load(function(){
          $('.flexslider').flexslider({
                animation: "slide",
                start: function(slider){
                  $('body').removeClass('loading');
                }
          });
        });
</script>
<!-- //flexSlider --><!-- for testimonials -->

<!-- start-smoth-scrolling -->
<script src="../web_home/js/SmoothScroll.min.js"></script>
<script type="text/javascript" src="../web_home/js/move-top.js"></script>
<script type="text/javascript" src="../web_home/js/easing.js"></script>
<script type="text/javascript">
        jQuery(document).ready(function($) {
                $(".scroll").click(function(event){
                        event.preventDefault();
                        $('html,body').animate({scrollTop:$(this.hash).offset().top},1000);
                });
        });
</script>
<!-- here stars scrolling icon -->
<script type="text/javascript">
        $(document).ready(function() {
                /*
                        var defaults = {
                        containerID: 'toTop', // fading element id
                        containerHoverID: 'toTopHover', // fading element hover id
                        scrollSpeed: 1200,
                        easingType: 'linear'
```

```
                                };
                        */

                        $().UItoTop({ easingType: 'easeOutQuart' });

                        });
        </script>
        <!-- //here ends scrolling icon -->
        <!-- start-smoth-scrolling -->

<!-- //js-scripts -->

</body>
</html>
```

Home Page (MODULE 2)

```
<!DOCTYPE html>
<html lang="en">
<head>
<title> Intrend Interior Category Flat Bootstrap Responsive Website Template | Index :
W3layouts</title>

        <!-- Meta tag Keywords -->
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta charset="utf-8">
        <meta name="keywords" content="Intrend Responsive web template, Bootstrap Web
Templates, Flat Web Templates, Android Compatible web template,
        Smartphone Compatible web template, free webdesigns for Nokia, Samsung, LG,
SonyEricsson, Motorola web design" />
        <script type="application/x-javascript">
                addEventListener("load", function () {
                        setTimeout(hideURLbar, 0);
                }, false);

                function hideURLbar() {
                        window.scrollTo(0, 1);
                }
        </script>
        <!--// Meta tag Keywords -->

        <link href="../web_home/css_home/slider.css" type="text/css" rel="stylesheet"
media="all">
```

```html
<!-- css files -->
<link rel="stylesheet" href="../web_home/css_home/bootstrap.css"> <!--
Bootstrap-Core-CSS -->
<link rel="stylesheet" href="../web_home/css_home/style.css" type="text/css"
media="all" /> <!-- Style-CSS -->
<link rel="stylesheet" href="../web_home/css_home/fontawesome-all.css"> <!--
Font-Awesome-Icons-CSS -->
<!-- //css files -->

<!-- testimonials css -->
<link rel="stylesheet" href="../web_home/css_home/flexslider.css" type="text/css"
media="screen" property="" /><!-- flexslider css -->
<!-- //testimonials css -->

<!-- web-fonts -->
<link href="//fonts.googleapis.com/css?family=Poiret+One&amp;subset=cyrillic,latin-ext"
rel="stylesheet">
<!-- //web-fonts -->

</head>

<body>

<!-- banner -->
    <div class="banner" id="home">
            <div class="cd-radial-slider-wrapper">

<!--Header-->
<header>
    <div class="container agile-banner_nav">
            <nav class="navbar navbar-expand-lg navbar-light bg-light">

                    <h1><a class="navbar-brand" href="admin_home.php">NITC <span
class="display"></span></a></h1>
                    <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
                    </button>

                    <div class="collapse navbar-collapse justify-content-center"
id="navbarSupportedContent">
                            <ul class="navbar-nav ml-auto">
```

```html
<li class="nav-item active">
    <a class="nav-link" href="admin_home.php">Home
<span class="sr-only">(current)</span></a>
    </li>
    <li class="nav-item">
        <a class="nav-link"
href="create_hm.php">Appoint/Remove Hostel Manager</a>
        </li>

        <li class="nav-item">
            <a class="nav-link"
href="students.php">Students</a>
        </li>
        <li class="nav-item">
            <a class="nav-link"
href="admin_contact.php">Contact</a>
        </li>
        <li class="dropdown nav-item">
            <a href="#" class="dropdown-toggle nav-link"
data-toggle="dropdown"><?php echo $_SESSION['username']; ?>
                <b class="caret"></b>
            </a>
            <ul class="dropdown-menu
agile_short_dropdown">
                <li>
                    <a href="admin_profile.php">My
Profile</a>
                </li>
                <li>
                    <a
href="../includes/logout.inc.php">Logout</a>
                </li>
            </ul>
        </li>
    </ul>
</div>

</nav>
</div>
</header>
<!--Header-->

<ul class="cd-radial-slider" data-radius1="60" data-radius2="1364"
data-centerx1="110" data-centerx2="1290">
```

```html
<li class="visible">
	<div class="svg-wrapper">
		<svg viewBox="0 0 1400 800">
			<title>Animated SVG</title>
			<defs>
				<clipPath id="cd-image-1">
					<circle id="cd-circle-1" cx="110" cy="400" r="1364"/>
				</clipPath>
			</defs>
			<image height='800px' width="1400px" clip-path="url(#cd-image-1)" xlink:href="../web_home/images/1.png"></image>
		</svg>
	</div> <!-- .svg-wrapper -->
	<div class="cd-radial-slider-content">
		<div class="wrapper">
			<div class="text-center">
				<h2>Hostel Management </h2>
				<h3> System </h3>

			</div>
		</div>
	</div> <!-- .cd-radial-slider-content -->
</li>
<li class="next-slide">
	<div class="svg-wrapper">
		<svg viewBox="0 0 1400 800">
			<title>Animated SVG</title>
			<defs>
				<clipPath id="cd-image-2">
					<circle id="cd-circle-2" cx="1290" cy="400" r="60"/>
				</clipPath>
			</defs>
			<image height='800px' width="1400px" clip-path="url(#cd-image-2)" xlink:href="../web_home/images/2.png"></image>
		</svg>
	</div> <!-- .svg-wrapper -->
	<div class="cd-radial-slider-content text-center">
		<div class="wrapper">
			<div class="text-center">
				<h3>Rooms</h3>
```

```html
                    </div>
                  </div>
                </div> <!-- .cd-radial-slider-content -->
              </li>
              <li>
                <div class="svg-wrapper">
                  <svg viewBox="0 0 1400 800">
                    <title>Animated SVG</title>
                    <defs>
                      <clipPath id="cd-image-3">
                        <circle id="cd-circle-3" cx="110" cy="400" r="60"/>
                      </clipPath>
                    </defs>
                    <image height='800px' width="1400px" clip-path="url(#cd-image-3)" xlink:href="../web_home/images/3.png"></image>
                  </svg>
                </div> <!-- .svg-wrapper -->
                <div class="cd-radial-slider-content text-center">
                  <div class="wrapper">
                    <div class="text-center">
                      <h3>Hostels </h3>


                    </div>
                  </div>
                </div> <!-- .cd-radial-slider-content -->
              </li>

        </ul> <!-- .cd-radial-slider -->
        <ul class="cd-radial-slider-navigation">
          <li><a href="#0" class="next"><i class="fas fa-chevron-right"></i></a></li>
          <li><a href="#0" class="prev"><i class="fas fa-chevron-left"></i></a></li>
        </ul> <!-- .cd-radial-slider-navigation -->
      </div> <!-- .cd-radial-slider-wrapper -->
    </div>
<!-- //banner -->

<!-- about -->

<!-- //about -->
```

```html
<!-- why choose us -->

<!-- team -->

<!-- //team -->

<!-- Clients -->

<!--// Clients -->

<!-- latest news -->

<!-- //latest news -->

<!-- footer -->
<footer class="py-5">
        <div class="container py-md-5">
                <div class="footer-logo mb-5 text-center">
                        <a class="navbar-brand" href="http://www.nitc.ac.in/"
target="_blank">NIT<span class="display"> CALICUT</span></a>
                </div>
                <div class="footer-grid">

                        <div class="list-footer">
                                <ul class="footer-nav text-center">
                                        <li>
                                                <a href="admin_home.php">Home</a>
                                        </li>

                                        <li>
                                                <a href="create_hm.php">Appoint</a>
                                        </li>
                                        <li>
                                                <a href="students.php">Student</a>
                                        </li>
                                        <li>
                                                <a href="admin_contact.php">Contact</a>
                                        </li>
                                        <li>
                                                <a href="admin_profile.php">Profile</a>
                                        </li>
                                </ul>
                        </div>
```

```
                </div>
            </div>
</footer>
<!-- footer -->

<!-- js-scripts -->

        <!-- js -->
        <script type="text/javascript" src="../web_home/js/jquery-2.2.3.min.js"></script>
        <script type="text/javascript" src="../web_home/js/bootstrap.js"></script> <!--
Necessary-JavaScript-File-For-Bootstrap -->
        <!-- //js -->

        <!-- banner js -->
        <script src="../web_home/js/snap.svg-min.js"></script>
        <script src="../web_home/js/main.js"></script> <!-- Resource jQuery -->
        <!-- //banner js -->

        <!-- flexSlider --><!-- for testimonials -->
        <script defer src="../web_home/js/jquery.flexslider.js"></script>
        <script type="text/javascript">
                $(window).load(function(){
                  $('.flexslider').flexslider({
                        animation: "slide",
                        start: function(slider){
                          $('body').removeClass('loading');
                        }
                  });
                });
        </script>
        <!-- //flexSlider --><!-- for testimonials -->

        <!-- start-smoth-scrolling -->
        <script src="../web_home/js/SmoothScroll.min.js"></script>
        <script type="text/javascript" src="../web_home/js/move-top.js"></script>
        <script type="text/javascript" src="../web_home/js/easing.js"></script>
        <script type="text/javascript">
                jQuery(document).ready(function($) {
                        $(".scroll").click(function(event){
                                event.preventDefault();
                                $('html,body').animate({scrollTop:$(this.hash).offset().top},1000);
                        });
                });
```
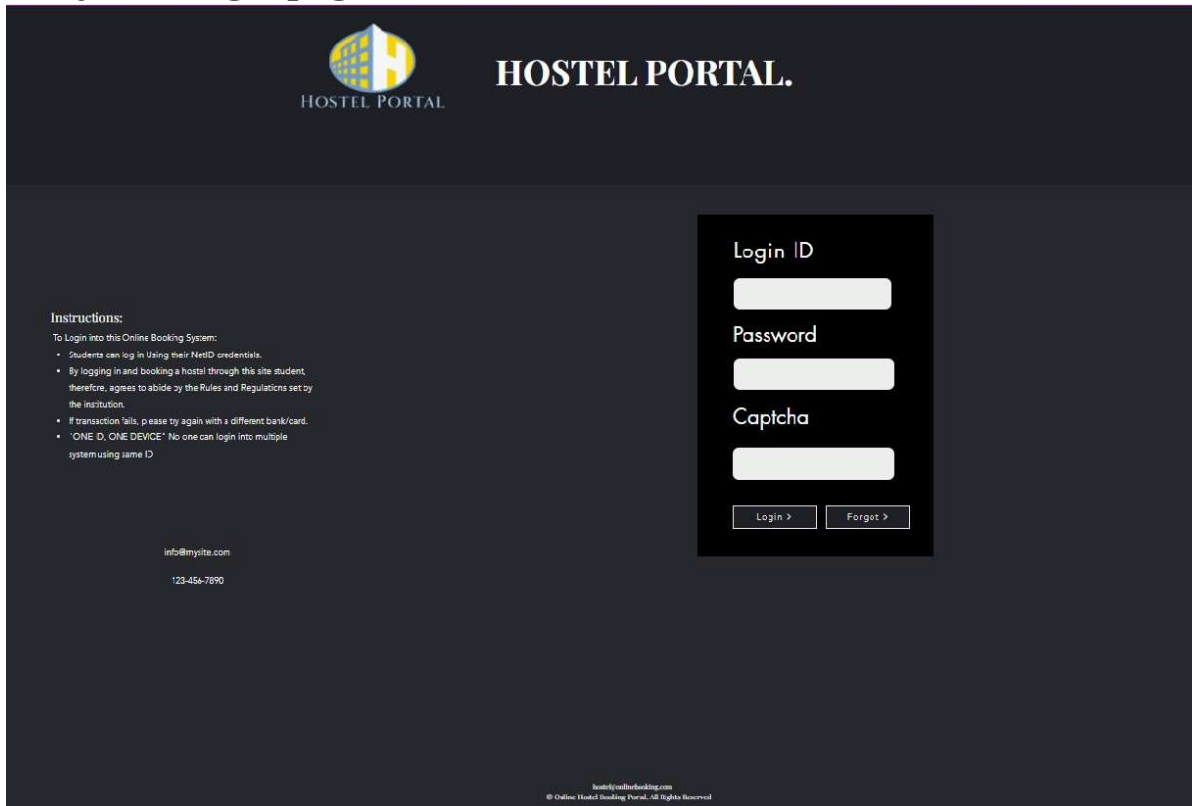
```
        </script>
        <!-- here stars scrolling icon -->
        <script type="text/javascript">
                $(document).ready(function() {
                        /*
                                var defaults = {
                                containerID: 'toTop', // fading element id
                                containerHoverID: 'toTopHover', // fading element hover id
                                scrollSpeed: 1200,
                                easingType: 'linear'
                                };
                        */

                        $().UItoTop({ easingType: 'easeOutQuart' });

                });
        </script>
        <!-- //here ends scrolling icon -->
        <!-- start-smoth-scrolling -->

<!-- //js-scripts -->

</body>
</html>
```

APPENDIX - II (SNAPSHOTS)

Project's Login page

HOME Page