

MOVIE TICKET MANAGEMENT SYSTEM

Submitted by

BHUVAN BEERA [RA2111003011907]

Under the Guidance of

Dr. G. RAMYA

Assistant Professor, Department of Computing Technologies

In partial satisfaction of the requirements for the degree of

BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE AND ENGINEERING
of
FACULTY OF ENGINEERING AND TECHNOLOGY



SCHOOL OF COMPUTING
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR - 603203

JUNE 2023



**SRM INSTITUTION OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR-603203**

BONAFIDE CERTIFICATE

Certified that this Course Project Report titled "**MOVIE TICKET MANAGEMENT SYSTEM**" is the Bonafide work done by BHUVAN BEERA [RA2111003011907] who carried out under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other work.

SIGNATURE

Faculty In-Charge
Dr. G. Ramya
Assistant Professor
Department of Computing Technologies
SRM Institute of Science and Technology

(Signature)
21/4

SIGNATURE

HEAD OF THE DEPARTMENT
Dr. M. Pushpalatha
Professor and Head,
Department of Computing Technologies
SRM Institute of Science and Technology

M. Pushpalatha

LIST OF EXPERIMENTS

S.No	Experiment	Signature
1	To identify the Software Project, Create Business Case, Arrive at a Problem Statement	
2	Identification of Process Methodology and Stakeholder Description	
3	System, Functional and Non-Functional Requirements of the Project	
4	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities	
5	Prepare Work breakdown structure, Timeline chart, Risk identification table	
6	Design a System Architecture, Use Case and Class Diagram	
7	Design a Entity relationship diagram	
8	Develop a Data Flow Diagram (Process-Up to Level 1)	
9	Design a Sequence and Collaboration Diagram	
10	Develop a Testing Framework/User Interface	
11	Test Cases	
12	Manual Test Case Reporting	
13	Provide the details of Architecture Design/ Framework/ Implementation	



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	1
Title of Experiment	TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	KOLA SAI SINDHU
Register Number	RA2111003011907
Date of Experiment	20/01/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
Total		10	9

Staff Signature with date

Aim

To Frame a project team, analyze and identify a Software project. To create a business case and Arrive at a Problem Statement for the <title of the project>

Team Members:

S. No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Lead/Rep
2	RA2111003011900	KOLA SAI SINDHU	Member

Project Title: **TICKET MANAGEMENT SYSTEM**

Project Description:-

This is about Ticket Management System, in which you can book a movie ticket according to your convenient time. There will be many theatres , you can book your desired theater or multiplex and book as many tickets as you can. It helps you to save time to book ticket.

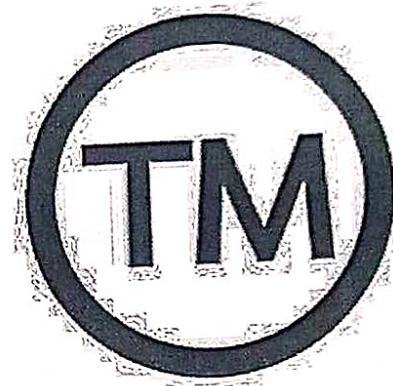
Business Case

<Incorporate the Business Case template>

Result

Thus, the project team formed, the project is described, the business case was prepared and the problem statement was arrived.

DATE	20/01/2023
SUBMITTED BY	BHUVAN BEERA
TITLE / ROLE	TEAM LEADER



THE PROJECT

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

- To fix payment issues
- To fix login issues
- Seat booing map
- Make their webpage attractive
- To fix bugs

THE HISTORY

In bullet points, describe the current situation.

- The payment gateway is continuously facing failure problem
- The users were facing login issues
- Seat booking map need to be improved

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 special training
- Need for expensive equipment

APPROACH

In bullet points, list what is needed to complete the project.

- Back end developer - to fix login issue
- Web designer – to design their web page
- A duration of time to complete the project successfully.

BENEFITS

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

- Good will to the company
- Remuneration
- Employee skills development



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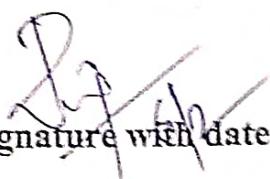
Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	Identification of Process Methodology and Stakeholder Description
Name of the candidate	BHUVAN BEERA
Team Members	KOLA SAI SINDHU
Register Number	RA2111003011907
Date of Experiment	30/01/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	4
Total		10	


Staff Signature with date

Aim

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

Team Members:

SI No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep/Member
2	RA2111003011900	KOLA SAI SINDHU	Member

Project Title: TICKET MANAGEMENT SYSTEM

Selection of Methodology:- We have used “Waterfall methodology” and is described as follows:-

In a Ticket Management System, each phase of the Waterfall methodology would be applied to manage and track issues or tasks related to the development of the system.

1. **Requirements Gathering:** The first phase would involve gathering the requirements for the Ticket Management System and documenting them in detail. This would involve understanding the objectives of the system, the stakeholders involved, and the functional and non-functional requirements.
2. **Design:** In this phase, the requirements would be used to design the system architecture, interfaces, and database. This would also involve creating flowcharts, mockups and prototypes to visualize the system.
3. **Implementation:** In this phase, the design would be translated into code and the system would be developed. The system would be built and integrated with any required third-party tools.
4. **Testing:** Once the implementation is complete, the system would be tested to ensure that it meets the requirements and is free of bugs and glitches. This would involve various testing methods such as unit testing, integration testing, system testing, and user acceptance testing.
5. **Deployment:** If the system passes all testing, it would then be deployed in a production environment and made available to users.
6. **Maintenance:** Once the system is deployed, ongoing maintenance activities would be carried out to keep the system up-to-date and running smoothly. This would include bug fixing, updating features, and adding new functionality.

In a Ticket Management System using the Waterfall methodology, tickets would be created for each task or issue related to the development of the system. Each ticket would be assigned to a team member and tracked through each phase of the methodology until it is resolved. This would provide a clear, structured process for managing and resolving issues and tasks, ensuring that the development of the system is streamlined and efficient.

Incorporate information to below table regarding stakeholders of the project.

Stakeholder Name	Activity Area /Role	Interest	Influence	Priority (High/Medium/Low)
Owner	Achieve goals and try to maintain increase in profit margin	High	High	1
Project Manager	Leads the team in every aspect. He is the person behind every operation of project team effort, success, failure.	High	High	2
Team Members	Demand standards, involve in their skills.	High	High	2
Resource Manager	Provides payable resources according to the project needs and budget.	Medium	Low	4
Finance Accountant	Enables multiple payment methods	High	Low	3
Investors	Invests appropriate finance required for the project	Medium	Low	5
Users	Provides Feedback	Low	Low	6

Result:-

Thus, the Project Methodology was identified and the stakeholders were described.



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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	3
Title of Experiment	Ticket Management System
Name of the candidate	Bhuvan Beera
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	06/02/2003

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	3
2	Viva	5	4
	Total	10	8

Staff Signature with date

Aim

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

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	Bhuvan Beera	Rep/Member
2	RA2111003011900	Kela Sai Sindhu	Member

Project Title: Ticket Management System

System Requirements: -

System requirement of ticket management system

A ticket management system typically requires the following hardware and software specifications.

Hardware: -

A computer or server with adequate processing power, RAM and storage capacity
A database management system to store and manage ticket information
Network infrastructure for connectivity and access to the system.

Software: -

An operating system, such as Windows, Linux.

A web server, such as Apache or Node.js.

A database management system, such as MySQL

A programming language, such as Python or HTML

A user interface, such as a web-based interface or a graphical user interface (GUI)

Functional Requirements: -

A ticket management system typically needs to have the following functional requirements:

User management: Ability to create and manage users, assign roles and permissions.

Ticket creation: Users should be able to create and submit tickets with a clear description of the issue.

Ticket assignment: The system should be able to automatically assign tickets to the relevant support team or agent.

Ticket tracking: Ability to track the status of the ticket, including changes made and the current status.

Ticket prioritization: The system should allow tickets to be prioritized based on their severity and impact.

Escalation: Ability to escalate a ticket to a higher level of support if needed.

Knowledge base: An integrated knowledge base to store information on common issues and solutions.

Reporting and analytics: The system should provide reports and analytics on ticket volume, resolution times, and agent performance.

Notifications: The system should send notifications to relevant parties (e.g. customers, support agents) on ticket updates and status changes.

Integration with other systems: The ticket management system should be able to integrate with other relevant systems, such as customer relationship management (CRM) and helpdesk systems.

Non-Functional Requirements: -

Non-functional requirements are the constraints or qualities that a software system must meet, but are not directly related to the functions it performs. Some common non-functional requirements for a Ticket Management System are: -

Performance: The system should be able to handle many concurrent users and respond quickly to user requests.

Scalability: The system should be able to accommodate growth in the number of users, tickets, and data.

Availability: The system should be available for use 24/7, with minimal downtime for maintenance.

Security: The system should protect sensitive information, such as user accounts and ticket details, from unauthorized access.

Usability: The system should be user-friendly and easy to navigate, with clear instructions and error messages.

Reliability: The system should produce consistent and accurate results, and be able to recover from failures without data loss.

Maintainability: The system should be easy to maintain and update, with clear documentation and a modular design.

Compliance: The system should comply with relevant industry standards and regulations, such as GDPR.

Result

Thus, the requirements were identified and accordingly described.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	13/02/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	3
	Total	10	7

Staff Signature with date

Aim

To Prepare Project Plan based on scope, Calculate Project effort based on resources, Find Job roles and responsibilities

Team Members:

Sl No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Lead
2	RA2111003011900	Kola Sai Sindhu	Member

1. Project Management Plan

Describe the key issues driving the project.

Focus Area	Details
Integration Management	Payment gateway integration Location services integration Project Team Structure Customer relation management integration
Schedule Management	The project needs 3-5 months to finish.
Cost Management	Estimate Effort Assign Team Budget Control
Quality Management	Quality Assurance: Quality assurance will be managed including governance, roles and responsibilities, tools and techniques and reporting Quality Control: Specify the mechanisms to be used to measure and control the quality of the work products
Resource Management	Estimate and manage the need People: People & Skills Required Finance: Budget Required Physical: Facilities, IT Infrastructure
Stakeholder	Identifying, Analyzing, Engaging Stakeholders
Communication Management	Determine communication requirements, roles and responsibilities, tools, and techniques.
Risk Management	Identifying, analyzing, and prioritizing project risks

2. Estimation

2.1. 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	3	4500
	E1R1A1T2			
	E1R1A1T3			
Identify Data Source for displaying units of Energy Consumption		Go through Interface contract (Application Data Exchange) documents	5	7500
		Document	4	4000

Effort (hour)	Cost (INR)
1	1500

2.2. Infrastructure/Resource Cost [Capex]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Database	2	250000	500000
Payment Gateway	1	500000	500000

2.3 Maintenance and Support Cost [Op Ex]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin Developer, Support Consultant	4	2,000,000	80,00,000
License	Operating System Database Middleware IDE	10	20000	2,00,000
Infrastructures	Server, Storage and Network	20	20000	4,00,000

3. Project Team Formation

3.1. Identification Team members

Name	Role	Responsibilities
BHUVAN BEERA	Project Manager	Manage the project
Kola Sai Sindhu	Business Analyst	Discuss and Document Requirements
BHUVAN BEERA	Technical Lead	Design the end-to-end architecture
BHUVAN BEERA	UX Designer	Design the user experience
Kola Sai Sindhu	Frontend Developer	Develop user interface
BHUVAN BEERA	Backend Developer	Design, Develop and Unit Test Services/API/DB
Kola Sai Sindhu	Cloud Architect	Design the cost effective, highly available and scalable architecture
Kola Sai Sindhu	Tester	Define Test Cases and Perform Testing

3.2. Responsibility Assignment Matrix

RACI Matrix	Team Members			
	Name	Name (Developer)	Name (Project Manager)	Key Business User
User Requirement Documentation	BHUVAN BEERA	Kola Sai Sindhu	BHUVAN BEERA	Kola Sai Sindhu

Result:

Thus, the Project Plan was documented successfully.



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Course Code: 18CSC2163

Course Name: Software Engineering and Project Management

Experiment No	5
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEEZL
Team Members	Koiz Sai Sindhu
Register Number	RA2011115311957
Date of Experiment	20/02/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	4
Total		10	8

Staff Signature with date

Aim

To Prepare Work breakdown structure, Timeline chart and Risk identification table

Team Members:-

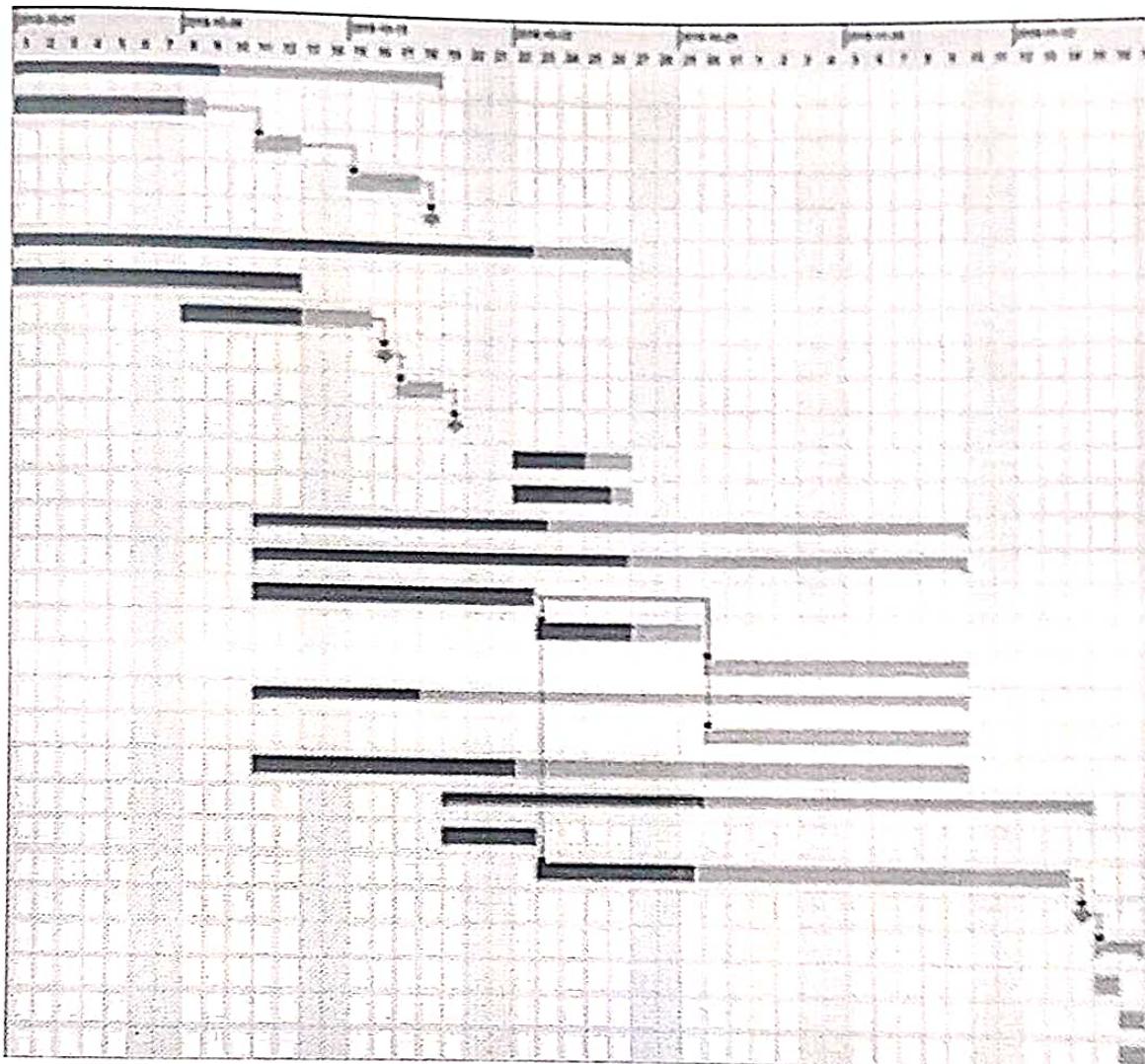
SI No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep
2	RA2111003011900	Kola Sal Sindhu	Member

WBS STRUCTURE:-

Phase	Task	Start Date	End Date	Duration
Planning and Requirements Gathering	Identify project requirements and goals	01/03/2023	05/03/2023	5 days
Planning and Requirements Gathering	Define scope of the project	06/03/2023	08/03/2023	3 days
Planning and Requirements Gathering	Create project plan and timeline	09/03/2023	12/03/2023	4 days
Design and Development	Develop system design	13/03/2023	25/03/2023	13 days
Design and Development	Develop software based on design	26/03/2023	16/04/2023	22 days
Testing	Conduct testing	17/04/2023	06/05/2023	20 days

Phase	Task	Start Date	End Date	Duration
Testing	Fix any issues or bugs found during testing	07/05/2023	13/05/2023	7 days
Deployment	Install software, database, and hardware	14/05/2023	18/05/2023	5 days
Deployment	Perform any necessary configurations or setup	19/05/2023	23/05/2023	5 days
Maintenance	Provide ongoing maintenance	24/05/2023	31/12/2023	221 days
User Support and Training	Train users on how to use the system	01/01/2024	05/01/2024	5 days
User Support and Training	Provide ongoing user support	06/01/2024	31/12/2024	361 days
Continuous Improvement	Regularly evaluate the system	01/01/2025	31/12/2025	365 days
Continuous Improvement	Add new features or functionality	01/01/2026	31/12/2026	365 days

TIMELINE – GANTT CHART



Result:

Thus, the work breakdown structure with timeline chart were formulated successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	6
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	SHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	20/02/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	✓
2	Viva	5	✓
Total		10	✓

Staff Signature with date

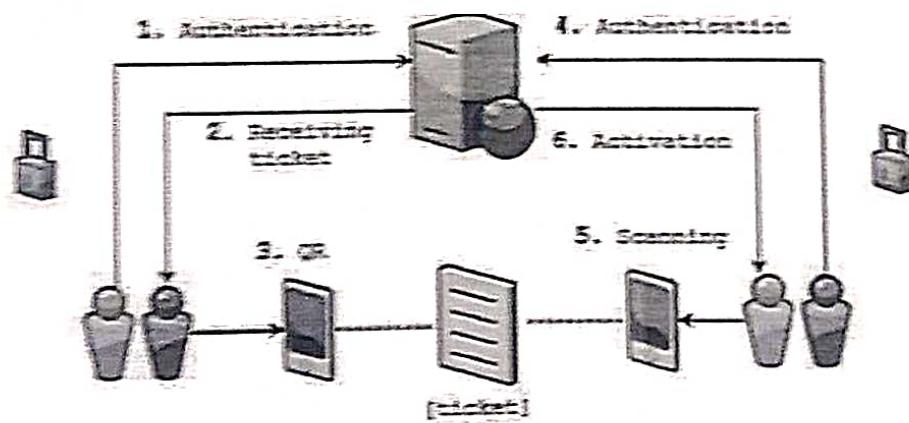
Aim

To Design a System Architecture, Use case and Class Diagram

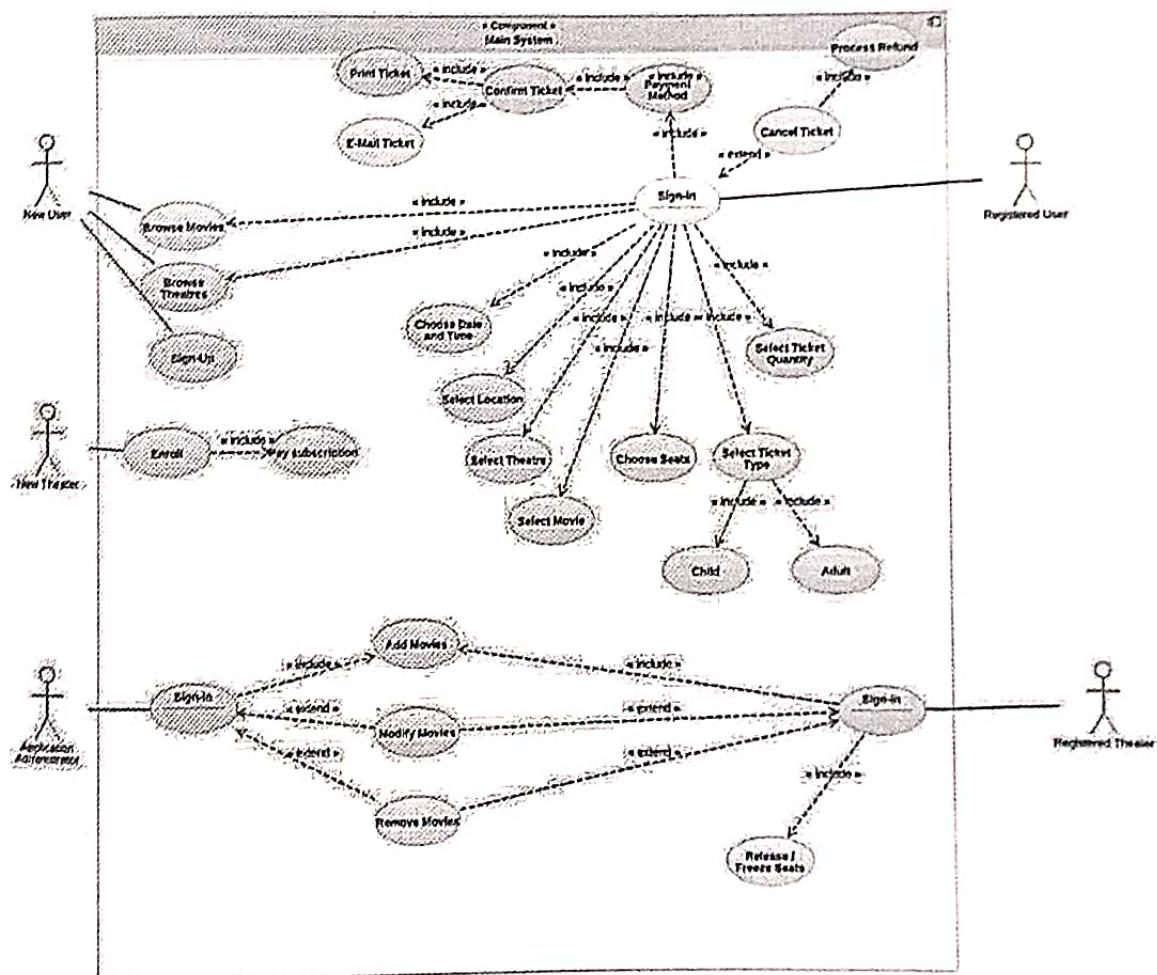
Team Members:-

Sl No	Register No	Name	Role
1	R211101011907	BHUVAN BEERA	Rep
2	R211101011900	Kola Sai Sudha	Member

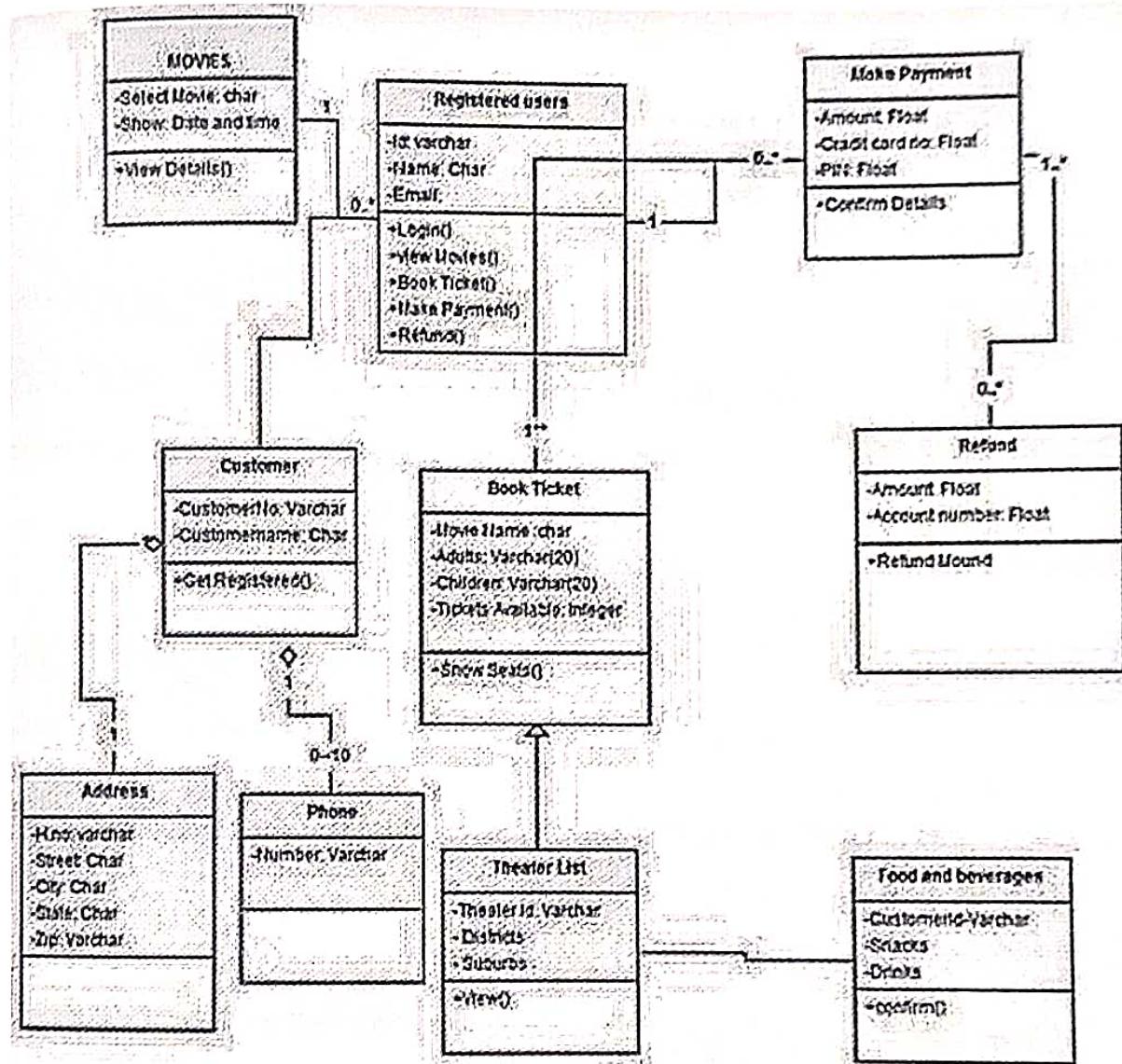
SYSTEM ARCHITECTURE:-



USE CASE DIAGRAM :-



CLASS DIAGRAM :-



Result:

Thus, the system architecture, use case and class diagram created successfully.



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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	7
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	27/02/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	3
	Total	10	1


Staff Signature with date

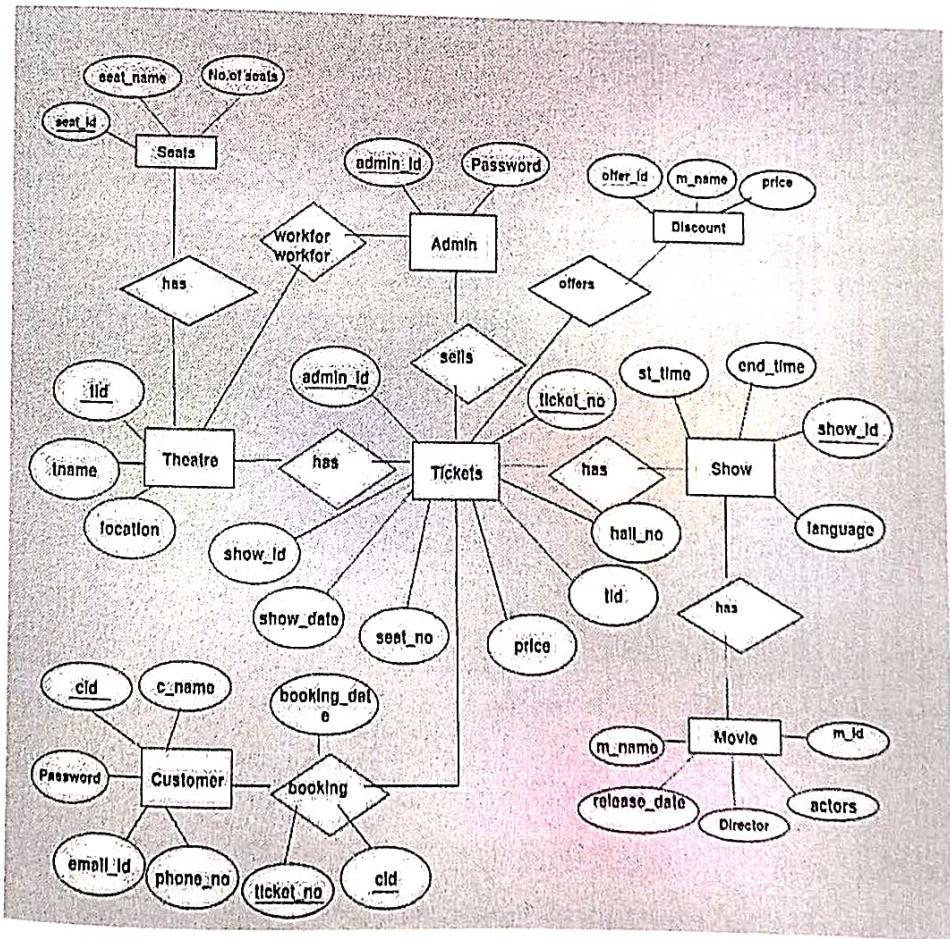
Aim

To create the Entity Relationship Diagram

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep
2	RA2111003011900	Kola Sai Sndhu	Member

ER DIAGRAM:-



Result:

Thus, the entity relationship diagram was created successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	8
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	27/02/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	3
Total		10	7

Staff Signature with date

Aim

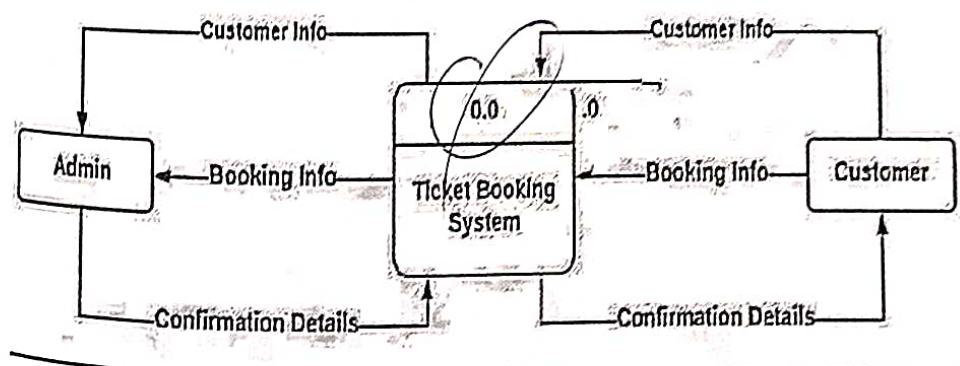
To develop the data flow diagram up to level 1 for the MOVIE TICKET MANAGEMENT SYSTEM

Team Members:

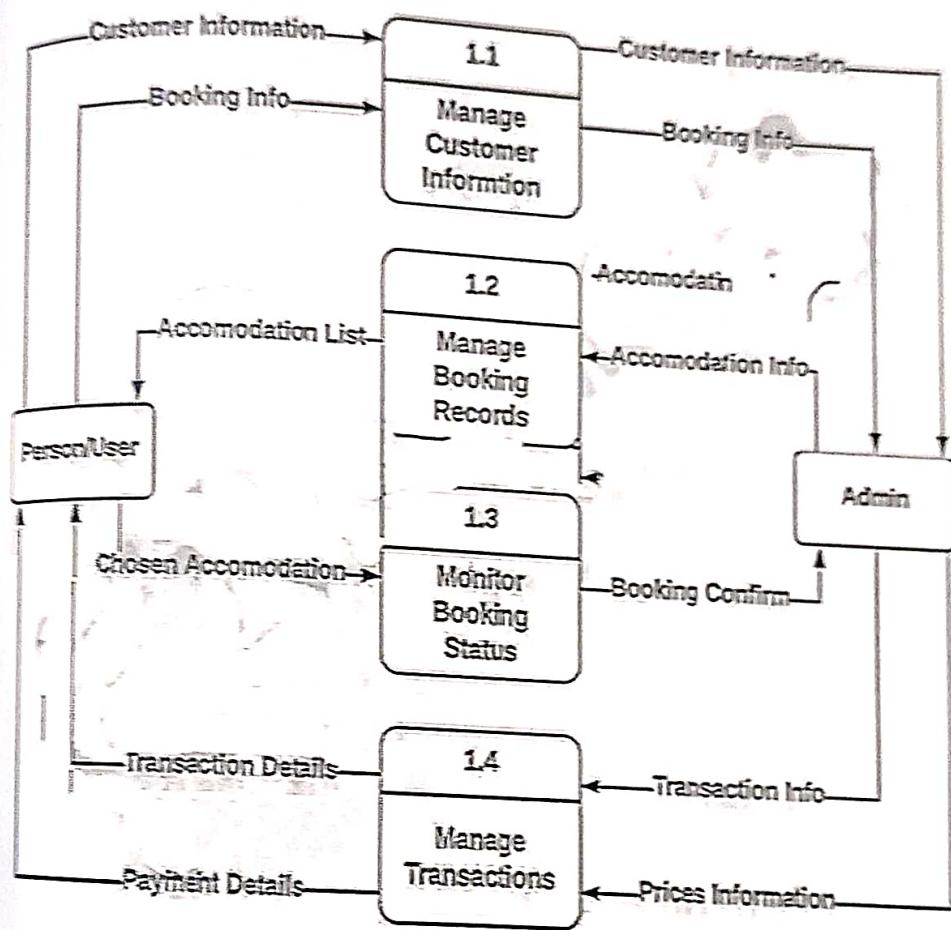
S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep
2	RA2111003011900	Kola Sai Sindhu	Member

DATA-FLOW DIAGRAM:-

DFD Level 0:- System Input/Output



DFD Level 1:- Subsystem level Data-Flow Functional



DATA FLOW DIAGRAM LEVEL 1

Result

Thus, the data flow diagrams have been created for the MOVIE TICKET MANAGEMENT SYSTEM



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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	9
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	06/03/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	4
Total		10	8

Staff Signature with date

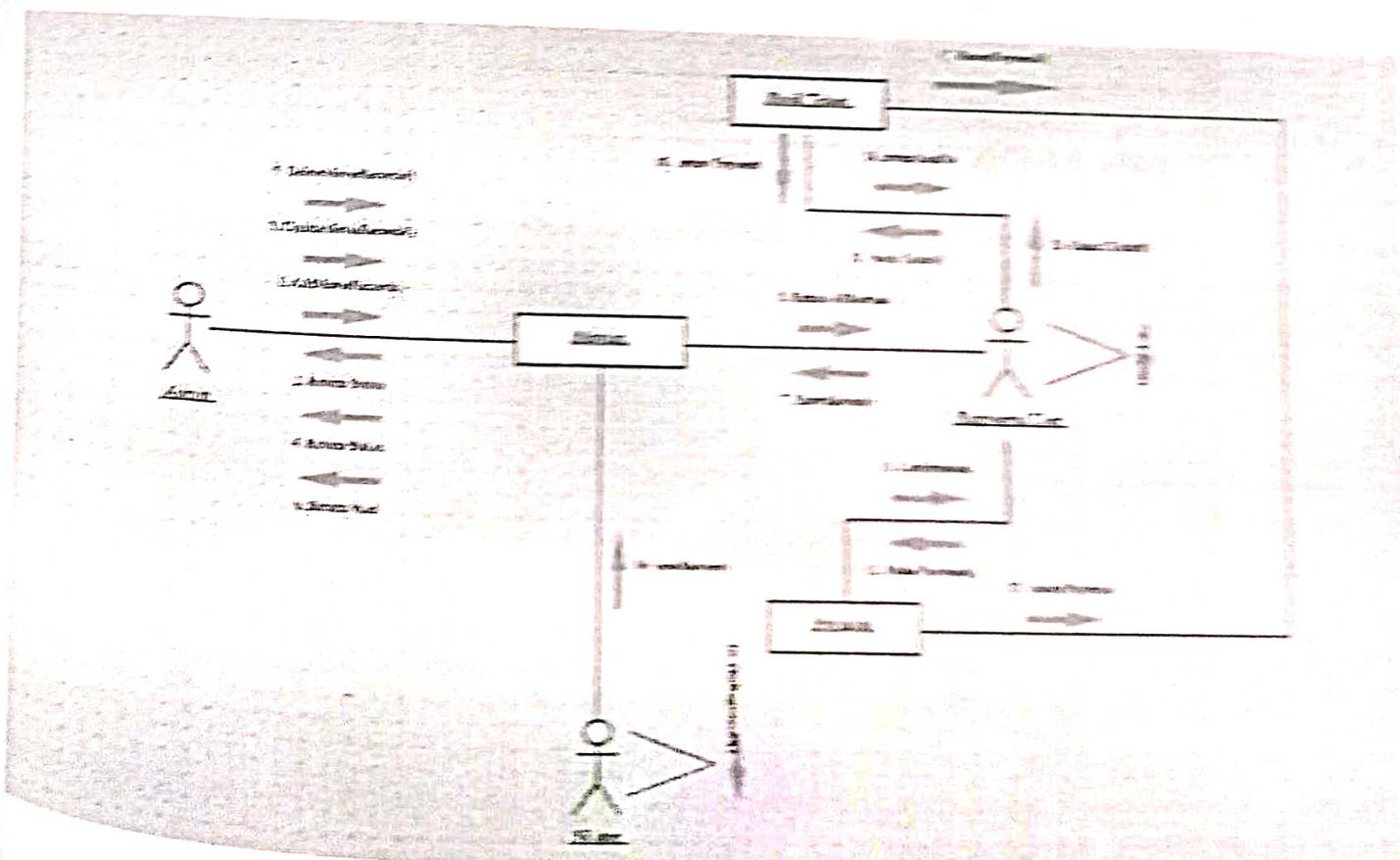
卷之三

To create the sequence and collaboration diagrams for the MOVIE TICKET MANAGEMENT SYSTEM

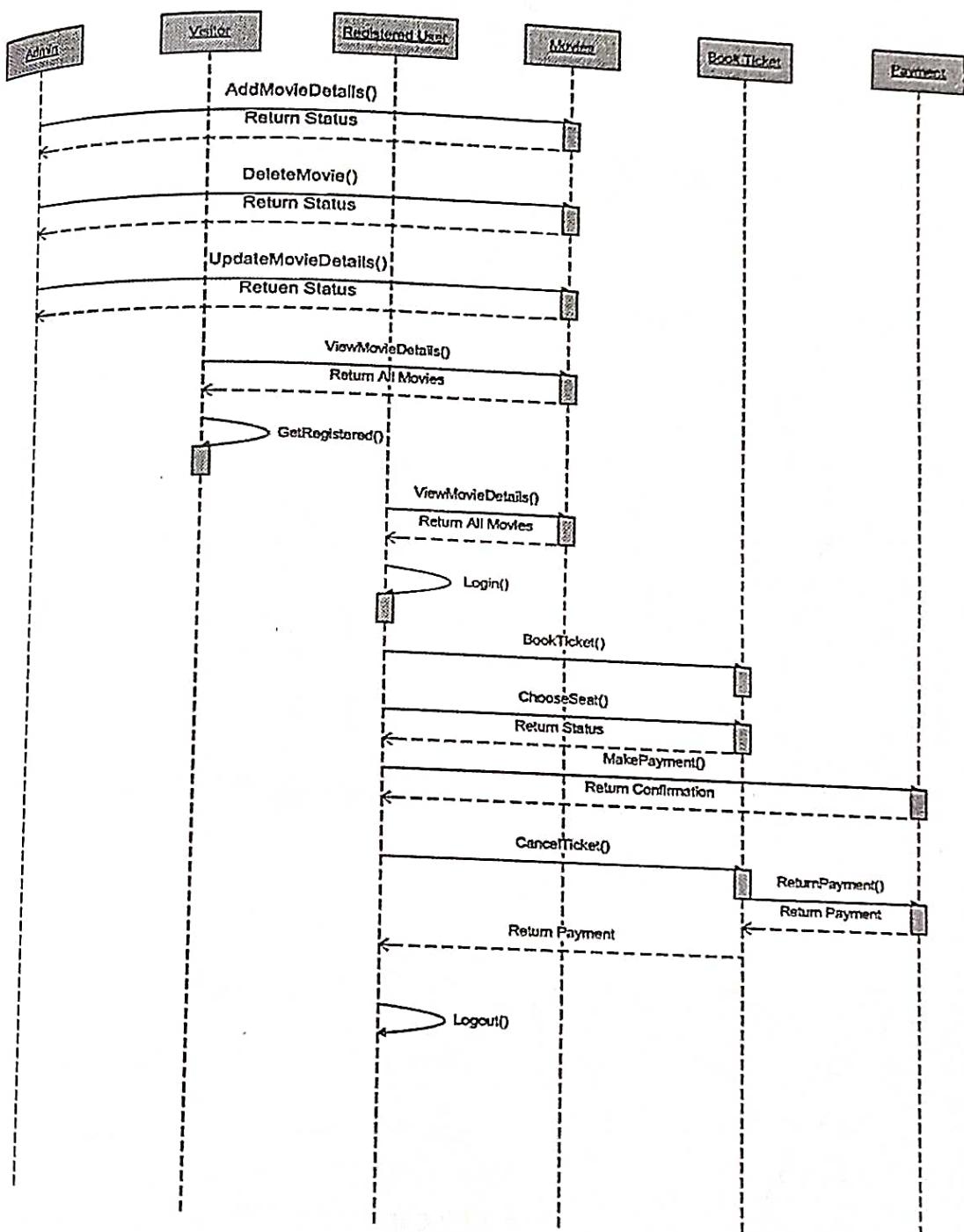
Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep Member
2	RA2111003011900	Kola Sai Sindhu	Member

Collaboration Diagram:-



SEQUENCE DIAGRAM:-



Result:

Thus, the sequence and collaboration diagrams were created for the MOVIE TICKET MANAGEMENT SYSTEM.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	10
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	21/03/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	3
	Total	10	8

✓
Staff Signature with date

Aim

To develop the testing framework and/or user interface framework for the MOVIE TICKET MANAGEMENT SYSTEM

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep/Member
2	RA2111003011900	Kola Sai Sindhu	Member

Executive Summary

The project is tested using mostly manual testing with some automated testing. Manual testing before every deployment ensures that all modules are working as expected. This includes acceptance of proper user input as well as error handling or invalid user input. The Manual test cases are done by manually checking and running all the test cases individually by the creator

Test Plan**Scope of Testing**

In the scope of testing, we have defined what areas of a customer's product are supposed to get tested, what functionalities to focus on, what bug types the customer is interested in, and what areas or features should not be tested by any means. Understanding the scope of a test is crucial for our project

Functional: Functional testing is a quality assurance (QA) process and a type of black-box testing that bases its test cases on the specifications of the software component under test. Functions are tested by feeding them input and examining the output, and internal program structure is rarely considered (unlike white-box testing). Functional testing happens in the source code, where the system is tested against functional requirements and specifications.

Typically, functional testing includes:

1. the identification of functions that software is supposed to do
2. data input and entry
3. the execution of the test case
4. an analysis of the actual results

Non-Functional: NON-FUNCTIONAL TESTING is defined as a type of Software testing to check non-functional aspects (performance, usability, reliability, etc) of a software application. It is designed to test the readiness of a system as per non-functional parameters which are never addressed by functional testing.

Types of Testing, Methodology, Tools

Category	Methodology	Tools Required
Documentation Testing	Manual	Excel Template
Functional Requirements	Manual	Excel Template
Unit Testing	Manual	Fully functional website
Integration Testing	Manual	Fully functional website
Compatibility Testing	Manual	Fully functional website
Performance Testing	Manual	Fully functional website
Load Testing	Manual	Fully functional website

Result:

Thus, the testing framework/user interface framework has been created for the MOVIE TICKET MANAGEMENT SYSTEM



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	11
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Number	RA2111003011907
Date of Experiment	29/03/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	5
	Total	10	10

Staff Signature with date

Aim

To develop the test cases manual for the MOVIE TICKET MANAGEMENT SYSTEM

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep
2	RA2111003011900	Kola Sai Sindhu	Member

Test Case

Functional Test Cases:-

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
01	Valid login credentials Sign out functionality	Valid login credentials Sign out functionality	Launch the application Navigate the login page Enter valid username Enter valid Click on login button	An account should be created with the information provided by the user. The user should be able to sign out.	Users were able to create an account and login into the website	Pass	Test is successful
02	Integration Testing	To check if all the web pages are hyperlinked to each other	Open the Website. Check whether all the links are working or not	All links working properly	All the links were working perfectly And we were able to jump from one page to another	pass	Test is successful
03	Smoke Testing	Booking Ticket functionality	Select appropriate Movie Enter the date & time Select your seat Click on "Book"	Users should be able to book movie	Users should be able to book movie	Pass	Test is successful.

Non-Functional Test Cases:-

Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
Speed Test	Mean Response Time	User enters the URL User waits for the web page to load completely	Web page should load with the mean response time of less than 1 second	Response time was around 1 second	Pass	Test is successful
Load Test	Website Should not crash while loading	Open Website and record the Number of test cases in which the web site fails to load completely on stable metered connection. The sample space is 1000	Failed Test cases should be less than 10 (1%)	Failed Test cases should be less than 6 (0.6%)	Pass	Test is successful
Compatibility testing	Website should be mobile responsive	1. User should be able to open our website in his/her mobile 2. Website is mobile compatible	Website is mobile compatible	Website was found to be mobile compatible	Pass	Test is successful

Result:

Thus, the test case manual has been created for the MOVIE TICKET MANAGEMENT SYSTEM



School of Computing

SRM IST, Kattankulathur - 603 203

Course Code: 18CSC1061

Course Name: Software Engineering and Project Management

Experiment No	12
Title of Experiment	ARMED FIREST MANAGEMENT SYSTEM
Name of the candidate	Rishabh Patel
Venue / Location	Kalai Amma Auditorium
Regulation Number	R.A.21110010811907
Date of Experiment	11 Oct 2021

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	4
	Total	10	8

Staff Signature with date

Aim

To prepare the manual test case report for the MOVIE TICKET MANAGEMENT SYSTEM

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep/Member
2	RA2111003011900	Kola Sai Sindhu	Member

Category	Progress Against Plan	Status
Functional Testing	Amber	In-Progress
Non-Functional Testing	Green	Completed

Functional	Test Case Coverage (%)	Status
Identify the requirements	10%	Completed
Test ticket booking	45%	In-Progress
Test payment gateway	20%	In-Progress
Test system performance	15%	In-Progress
Test compatibility	5%	In-Progress
Test user interface	5%	Not-Started

Result:

Thus, the test case report has been created for the MOVIE TICKET MANAGEMENT SYSTEM



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13
Title of Experiment	MOVIE TICKET MANAGEMENT SYSTEM
Name of the candidate	BHUVAN BEERA
Team Members	Kola Sai Sindhu
Register Numbers	RA2111003011907
Date of Experiment	21/04/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	4
2	Viva	5	4
Total		10	9

Staff Signature with date

Aim

To provide the details of architectural design/framework/implementation

Team Members:

S No	Register No	Name	Role
1	RA2111003011907	BHUVAN BEERA	Rep/Member
2	RA2111003011900	Kola Sai Sindhu	Member

Home Page:-



Hall Form:-

The screenshot shows a user interface for a hall booking application. It features four input fields: 'Name' (Bhuvan Beera), 'Movie' (U), 'Hall' (ADVENTOROUS), and 'Time' (2D). Below these is a 'Book' checkbox (unchecked). A 'Submit' button is located at the bottom right. The background is dark grey.

```
1 import React, { Component } from 'react';
2 import './Pages/HallForm.css';
3 import SeatBooking from './Pages/SeatBooking';
4
5 export class HallForm extends Component {
6
7   constructor(props) {
8     super(props);
9     this.state = {
10       hallSeat: '',
11       movie: '',
12       hall: '',
13       genre: '',
14       duration: '20',
15       hall: '',
16       book: false
17     };
18     this.handleChange = this.handleChange.bind(this);
19     this.handleSubmit = this.handleSubmit.bind(this);
20   }
21
22   handleChange(event) {
23     const target = event.target;
24     const value = target.type === 'checkbox' ? target.checked : target.value;
25     const name = target.name;
26
27     this.setState({
28       [name]: value,
29       book: false
30     });
31   }
32
33   handleSubmit = (event) => {
34     event.preventDefault();
35     this.setState({ book: true });
36   }
37
38   render() {
39     return (
40       <div className="container d-flex flex-row justify-content-center">
41
42         <div className="container form">
43           <form onSubmit={this.handleSubmit}>
44
45             <div className="form-group col-4">
46               <label>Name:</label>
47               <input className="form-control" name="movie" type="text" value={this.state.movie} required onChange={this.handleChange} />
48             </div>
49
50             <div className="form-group col-4">
51               <label>A/U:</label>
52               <select className="form-control custom-select w-100 h-50 p-2" value={this.state.hall} onChange={this.handleChange}>
53                 <option value="U">U</option>
54                 <option value="A">A</option>
55                 <option value="M">M</option>
56                 <option value="S">S</option>
57               </select>
58             </div>
59           </form>
60         </div>
61       </div>
62     );
63   }
64 }
```

Sear Booking System:-

Seat Reservation System

A1 AVAILABLE	A2 AVAILABLE	A3 AVAILABLE	A4 AVAILABLE	A5 AVAILABLE	A6 AVAILABLE
B1 AVAILABLE	B2 AVAILABLE	B3 AVAILABLE	B4 AVAILABLE	B5 AVAILABLE	B6 AVAILABLE
C1 AVAILABLE	C2 AVAILABLE	C3 AVAILABLE	C4 AVAILABLE	C5 AVAILABLE	C6 AVAILABLE

Confirm Booking

Seat Reservation System

A1 AVAILABLE	A2 AVAILABLE	A3 AVAILABLE	A4 AVAILABLE	A5 AVAILABLE	A6 AVAILABLE
B1 AVAILABLE	B2 AVAILABLE	B3 SELECTED	B4 SELECTED	B5 AVAILABLE	B6 AVAILABLE
C1 AVAILABLE	C2 AVAILABLE	C3 AVAILABLE	C4 AVAILABLE	C5 AVAILABLE	C6 AVAILABLE

Confirm Booking

Seat Reservation System

A1 AVAILABLE	A2 AVAILABLE	A3 AVAILABLE	A4 AVAILABLE	A5 AVAILABLE	A6 AVAILABLE
B1 AVAILABLE	B2 AVAILABLE	B3 RESERVED	B4 RESERVED	B5 AVAILABLE	B6 AVAILABLE
C1 AVAILABLE	C2 AVAILABLE	C3 AVAILABLE	C4 AVAILABLE	C5 AVAILABLE	C6 AVAILABLE

Confirm Booking

```

4  import React, {Component} from 'react';
5  import './Pages/Seat.js.css';
6
7  class SeatBooking extends React.Component {
8
9    constructor() {
10      super();
11      this.state = {
12        seats: [
13          'A1', 'A2', 'A3', 'A4', 'A5', 'A6',
14          'B1', 'B2', 'B3', 'B4', 'B5', 'B6',
15          'C1', 'C2', 'C3', 'C4', 'C5', 'C6'
16        ],
17        seatAvailable: [
18          'A1', 'A2', 'A3', 'A4', 'A5', 'A6',
19          'B1', 'B2', 'B3', 'B4', 'B5', 'B6',
20          'C1', 'C2', 'C3', 'C4', 'C5', 'C6'
21        ],
22        seatReserved: [],
23        seatSelected: []
24      }
25
26      onClickData(seat) {
27        if(this.state.seatReserved.indexOf(seat) > -1) {
28          this.setState({
29            seatAvailable: this.state.seatAvailable.filter(seat),
30            seatReserved: this.state.seatReserved.filter(res => res != seat),
31            //seatSelected: this.state.seatSelected.filter(res => res != seat)
32          })
33        } else {
34          this.setState({
35            seatReserved: this.state.seatReserved.concat(seat),
36            //seatSelected: this.state.seatSelected.concat(seat),
37            seatAvailable: this.state.seatAvailable.filter(res => res != seat)
38          })
39        }
40
41        checktrue(row) {
42          if(this.state.seatSelected.indexOf(row) > -1){
43            return false
44          }else{
45            return true
46          }
47        }
48
49        handleSubmitted() {
50          this.setState({seatSelected: this.state.seatSelected.concat(this.state.seatReserved)})
51          this.setState({
52            seatReserved: []
53          })
54        }
55
56        render() {
57          return (
58            <div>
59              <h1>Seat Reservation System</h1>
60              <DrawGrid
61                seats={this.state.seats}
62                available={this.state.seatAvailable}
63                reserved={this.state.seatReserved}
64                selected={this.state.seatSelected}
65                onClickData={this.onClickData.bind(this)}
66                checktrue={this.checktrue.bind(this)}
67                handleSubmitted={this.handleSubmitted.bind(this)}
68            </div>
69          )
70        }
71      }
72    }
73  }

```

Result:

Thus, the details of architectural design/framework/implementation along with the screenshots were provided.