



## **Online Study and Examination Process For Job Seeker**

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A project submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering.

**Department of Software Engineering**

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## **APPROVAL**

This project entitled on “Online study and Examination Process for Job Seeker” submitted by **Sear Ali** bearing ID:151-35-1078 to the Department of Software Engineering of Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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## **ACKNOWLEDGEMENT**

At first we would like to thank the Almighty Allah for giving us the strength to accomplish the research work within appropriate time without any significant problem. It is our greatest pleasure to acknowledge our deepest gratitude to our supervisor Tapushe Rabaya Toma, Project & Thesis, Department of software engineering, Daffodil International University, for his constant guidance, suggestions and care to attain the research objectives and editing the project. I wish to express our sincere thanks to him for his timely and valuable suggestions and providing us the scope and necessary support.

This work was possible for us due to the unconditional help and co-operation in different ways from many people. I express our gratefulness and thanks to them for their best cooperation for this project. Finally, I would like to give our gratitude to all of our teachers of the university for their co-operation and dedicated teaching for the achievement of the degree of B.Sc. in software engineering. Co-operation and assistance of all the officers and staffs of the Daffodil International University are heart fully acknowledged.

## Declaration

We hereby declare that we have taken this project under the supervision of **Tapushe Rabaya Toma**, Senior Lecturer, Department of Software Engineering, Daffodil International University. We also declare that neither this report nor any part of this has been submitted elsewhere for award of any degree.



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## **Executive Summery**

Online Study and Examination Process for Job Seeker is a web-based project. The purpose of this project is to give clear concept about different job examination and take a proper preparation for different types of examination. It is also needed less manpower to execute the examination. Almost all organizations now-a-days, are conducting their objective exams by online examination system, it saves students time in examinations. Jobseekers of our country are going different coaching center and study for different job. But in a online study system they are able to study and examination for job examination in home. It is a very easy and time effective system for student. It also safe their money. The quizzing facilities available provides the students to test their knowledge and further does their self assessment. It also possible to clear the doubts as the discussion facility open for all. Anyone can discuss in public and achieve the complete knowledge. For all the facilities available, appropriate method have been used in PHP technology. So the project is flexible, simple, efficient, secure and it is quite familiar to all.

# Table of Contents

ACKNOWLEDGEMENT .....	ii
Executive Summary .....	v
<b>Chapter 1</b> .....	<b>1</b>
<b>Introduction</b> .....	<b>1</b>
<b>1.1. Project Overview</b> .....	<b>Error! Bookmark not defined.</b>
<b>1.2. Project Purpose</b> .....	<b>Error! Bookmark not defined.</b>
<b>1.2.1 Project Background.</b> .....	Error! Bookmark not defined.
<b>1.2.2 Beneficiaries and Benefits .</b> .....	Error! Bookmark not defined.
<b>1.2.3 Project Goals .</b> .....	<b>1</b>
<b>1.3. Stakeholders</b> .....	<b>Error! Bookmark not defined.</b>
<b>1.4. Project Schedule</b> .....	<b>2</b>
<b>1.4.1. Gantt Chart</b> .....	<b>2</b>
<b>1.4.2. WBS Planning for Development Phase</b> .....	<b>3</b>
<b>Chapter 2</b> .....	<b>4</b>
<b>Software Requirements Specification</b> .....	<b>4</b>
<b>2.1 Requirement Specification</b> .....	<b>4</b>
<b>2.2 Data Requirements</b> .....	<b>5</b>
<b>2.3 Performance Requirements</b> .....	<b>5</b>
<b>2.3.1 Speed and Latency Requirements</b> .....	<b>5</b>
<b>2.3.2 Precision and Accuracy Requirements</b> .....	<b>5</b>
<b>2.3.3 Capacity Requirements</b> .....	<b>6</b>
<b>2.4 Dependability Requirements</b> .....	<b>6</b>
<b>2.4.1 Reliability Requirements</b> .....	<b>6</b>
<b>2.4.2 Availability Requirements</b> .....	<b>6</b>
<b>2.4.3 Robustness or Fault-Tolerance Requirement</b> .....	<b>7</b>
<b>2.5 Maintainability and Supportability Requirements</b> .....	<b>7</b>
<b>2.5.1 Maintenance Requirements</b> .....	<b>7</b>
<b>2.5.2 Supportability Requirements</b> .....	<b>7</b>
<b>2.5.3 Adaptability Requirements</b> .....	<b>7</b>
<b>2.6 Security Requirements</b> .....	<b>8</b>
<b>2.6.1 Access Requirements</b> .....	<b>8</b>
<b>2.6.1. Integrity Requirements</b> .....	<b>8</b>
<b>2.6.2 Privacy Requirements</b> .....	<b>8</b>
<b>2.7 Usability and Human-Interaction Requirements</b> .....	<b>9</b>

2.8.1 Appearance Requirements .....	9
2.8.2. Style Requirements .....	9
Chapter 3 .....	10
System Analysis .....	10
3.1. Use Case .....	10
3.2. Use Case Description .....	11
3.2.1. Authenticate User .....	11
3.2.2. Provide Course .....	12
3.2.3. Study Course .....	13
3.2.4. Provide Model Test .....	14
3.2.5. Give Model Test .....	15
3.3. Activity Diagram .....	16
3.3.1. Activity Diagram for User .....	17
3.3.2. Activity Diagram for Admin .....	Error! Bookmark not defined.
Chapter 4 .....	18
System Design Specification .....	18
4.1. Sequence Diagram .....	18
4.1.1. System Sequence Diagram: Authenticate User: User .....	18
4.1.2. System Sequence Diagram: Authenticate User: Admin .....	19
4.2 Entity Relationship Diagram .....	23
4.3 Class Diagram .....	24
Chapter 5 .....	25
User Interface .....	25
5.1. User Interface .....	25
5.1.1. online study and examination process for job seekers home page. ....	25
5.1.2. Registration page.....	26
5.1.3. Login Page .....	27
Chapter 6 .....	28
Development Tools and Technologies .....	28
6.1. User Interface Technologies .....	28
6.2. Implementation Technologies .....	28
6.2.1. PHP .....	28
6.2.2. JAVA Script .....	28
6.2.3. HTML, CSS .....	28
6.2.4. Google Cloud Vision API .....	28
6.3. Platform and Environment .....	28
6.3.1. Hardware .....	28

<b>6.3.2. Tools</b> .....	<b>28</b>
<b>6.3.3. Version Control</b> .....	<b>28</b>
<b>Chapter 7</b> .....	<b>29</b>
<b>System Testing</b> .....	<b>29</b>
<b>7.1. System Testing</b> .....	<b>29</b>
<b>7.2. System Testing</b> .....	<b>29</b>
<b>7.4. Test Case</b> .....	<b>29</b>
<b>7.4.1. Test Case of Registration</b> .....	<b>30</b>
<b>7.4.2. Test Case of Provide Course</b> .....	<b>31</b>
<b>7.4.3. Test Case of Model Test</b> .....	<b>32</b>
<b>Chapter 8</b> .....	<b>33</b>
<b>Conclusion &amp; Future Work</b> .....	<b>33</b>
<b>8.1. GitHub Link</b> .....	<b>33</b>
<b>8.2. Conclusion</b> .....	<b>33</b>
<b>8.3. Limitations</b> .....	<b>33</b>
<b>8.4. Obstacle &amp; Achievements</b> .....	<b>33</b>
<b>8.5. Future Work</b> .....	<b>33</b>
<b>References</b> .....	<b>34</b>



# Chapter 1

## Introduction

### INTRODUCTION

This project is aimed at developing an online ticket reservation system for Cinema Halls. The Ticket Reservation System is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will automate the reservation of tickets and Enquiries about availability of the tickets. This application includes email confirmation for the tickets. Keywords: Databases, Network and middleware, Programming

This project is aimed at developing an online ticket reservation system for Cinema Halls. The Ticket Reservation System is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will automate the reservation of tickets and enquires about availability of the tickets. This application includes message confirmation for the tickets.

### RELATED WORK

#### ✦ Purpose of the document

This paper is the Software Requirement Specification (SRS) for the Online Movie Ticket Reservation system for Cinema halls. The purpose of this paper is to describe the functionality, requirements and general interface of our project.

#### ✦ Scope for development of this paper.

- ✦ To allow customer and admin to login successfully through the application's first page.
- ✦ The customer will be able to gather information about newly released movie and make his/her decision.
- ✦ To allow customer to book ticket online.
- ✦ To allow customer to rate the movie

#### ✦ Main Modules of the system.

- ✦ Customer- This module contains personal details of a customer, transaction details and customer can do operations like booking, viewing, rating.
- ✦ Admin- In this module admin has the permission to update the details of the movie and theaters.

#### ✦ Existing System

The existing system of an online application has features like booking tickets online, to know the information of the movie(cast and crew information). Customer can view the trailer of the movies. Customers get the confirmation of their booking through an email.

##### ✦ Limitations of the existing system

- ✦ Current online booking system does not support refund facility on cancelling ticket.
- ✦ The customers are not able to book the ticket before one day.

## ✦ Proposed System

The proposed system enhances the existing system with features like refund facilities to the customer and the customer can rate the movies for which he/her has viewed.

## REQUIREMENTS AND SPECIFICATIONS

### Functional Requirements

A customer should be able to

- ✦ login to the system through the first page of the application change the password after logging into the system.
- ✦ No reservation before one day can be done.
- ✦ See his/her current reservations on different movies along with the details.
- ✦ Able to choose the seats which are available for a certain class.
- ✦ Can select seats from different classes as well for same show and screen also.
- ✦ Give details about the details about the credit card.

A message should be sent to the concerned person about the confirmation of the ticket to the specified mobile number. The login Id and password should be sent to the mentioned email address if a new account is created. The system should automatically show the fare for the corresponding shows and amount of money needs to be paid for selected seats.

### Non-Functional Requirements

#### Reliability:

- ✦ The capability to maintain the specified level of performance is called reliability.
- ✦ This application is a web-based application that runs on any device that has a browser.

#### Availability:

- ✦ The application will be available for 99% of the time and

#### Security:

- ✦ The business logic is hidden from the users and is much safer and thus avoids unauthorized or illegal access or database corruption. Security of the user's information is also safe as there is a login facility.

#### Maintainability:

- ✦ Maintenance is typically done after the software development has been completed. As the time evolves, so do the requirements and needs. It revolves around the understanding of the existing software and the effects of the change.

#### Portability:

- ✦ Portability is the ability of the system or application that can run in various environments. As the web application is based on the java language, the application is portable.

### Minimum Hardware Requirements

- ✦ A PC with Processor-Pentium-3, Speed-1.1 GHz, RAM :2GB, Hard Disk :4GB free space.

### Software Requirements

- ✦ Operating System : Windows XP/7/8/10
- ✦ Database : SQL Server 2014
- ✦ Java Version : JDK 1.6

#### 1.1.1. Gantt Chart

A Gantt chart is a series of horizontal lines shows the amount of work done or production completed in certain periods in relation to the amount planned for those periods [4].

Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Works																		
Analysis Phase	Blue	Blue																
Feasibility Study		Green																
Project Proposal			Yellow															
Project UI			Red	Red	Red	Red	Red	Red	Red									
Mid-Term Defense										Purple								
Implementation of the Project				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		
Testing										Blue						Blue	Blue	
Documentation of the Project																Brown	Brown	
Final Defense																		Blue

Figure 1: Gantt chart

#### 1.1.2. WBS Planning for Development Phase

1. Project plan [01 Oct 2018 to 14 Oct 2018]
2. Analysis [01Oct 2018 to 14 Oct 2018]
3. Requirement gathering [06 Oct 2018 to 15 Oct 2018]
  - Brainstorming
  - Interview
  - Observation
  - Implementation Analysis

4. Design [15 Oct 2018 to 10 Nov 2018]
  - System design
  - Database design and Implementation
  - System User Interface (UI)
  
5. Development [20 Oct 2018 to 30 Jan 2019]
  - User Module
  - Others
  
6. Testing [07 Dec 2018 to 10 Jan 2019 (including two phase)]
  - Test plan
  - Test Case
  - Test Execution
  
7. Release Plan

<b>Release</b>	<b>Version</b>	<b>Date</b>
1 <sup>st</sup> Release	Beta version 1.0.0	14/12/2019
2 <sup>nd</sup> Release	Beta version 2.0.0	30/12/2019
3 <sup>rd</sup> Release	Version 3.0.0	20/01/2020
4 <sup>th</sup> Release	Version 4.0.0	10/02/2020

## Chapter 2

### Software Requirements Specification

#### **Software Requirement Specification:**

##### **2.1 Functional requirements**

Functional requirement referred to a mandatory function which mandatory to the system. It must be able to perform for a web and also all kind of software system. All kind of application system has some functional requirements. Now, I am showing to mention functional requirements associating with my project.

##### **2.1.1 User can Login in Software:**

Requirements	User can Login in Software
Description	After enter URL in any internet browser like Opera, Chrome, in software index page user must have log in first before enter the main software. All user mandatory for login. Only authorized user can login the software.
Operator	Admin

##### **2.1.2 Admin can view clients list:**

Requirements	<b>Admin can view Clients list</b>
Description	Admin can view clients list after properly login. First enter the client's button than enter the clients list sub-button. Admin can view all client's list in admin panel. In every client have edit, details and delete button for manage client.
Operator	Admin

### 2.1.3 Admin can view clients with sorting by amount:

Requirements	<b>Admin can view clients with sorting by amount</b>
Description	Admin can view clients list after properly login. First enter the client's button than enter the Sort by amount sub-button. Admin can view all clients based on amount with list. In every client have edit, details and delete button for manage client.
Operator	Admin

### 2.1.4 Admin can view clients with sorting by priority:

Requirements	<b>Admin can view clients with sorting by priority</b>
Description	Admin can view clients list after properly login. First enter the client's button than enter the Sort by priority sub-button. Admin can view all clients based on priority with list.
Operator	Admin

### 2.1.5 Admin can view total sales

Requirements 1	<b>Admin can view total sales</b>
Description	Admin can view this month sale, this month due, total sale, backlog. Admin only can view this feature can't edit or delete any of this information.
Operator	Admin

### 2.1.6 Admin can view Revenue

Amine can view the whole revenue of the system

Requirements	<b>Admin can view Revenue</b>
Description	Admin can view total revenue for this business. Admin only can view this feature can't edit or delete any of this.
Operator	Admin

### 2.1.7 Admin can view Revenue by Month

Requirements	<b>Admin can view Revenue by month</b>
Description	Admin can view revenue by month for this business. Admin only can view this revenue by month but can't edit or delete any of this.
Operator	Admin

### 2.1.8 Admin can view monthly sale:

Admin can see monthly sale of the system

Requirements	<b>Admin can view Sale by month.</b>
Description	Admin can view sale by month for this business. sale by month but can't edit or delete any of this.
Operator	Admin

### 2.1.9 Admin can view Backlog:

Admin can view the backlog of the system

Requirements	<b>Accounts Officer can view backlog</b>
Description	Admin can go to accounts button and press backlog sub-button after properly login. Then can view the backlog that didn't paid the monthly bill in previous month.
Operator	Admin

## 2.1 Data Requirement

Defining data requirements for need to build a model. Our system maximum data would be loaded form internal user. For this because we need to focus some kind of major points.

Such as:

- Types of entity of the system
- Route data locations
- Capacity and resources of the data requirements
- Data source sequence
- Data availability schedules
- Quantity of data
- Availability of data

## 2.3 Performance Requirements

Maintaining performance of a software system is very important. To ensure performance, as a developer i need to manage and maintain some steps. Now, I try to discuss about perspective by going to enhance the performance of this project.



### 2.3.1 Speed and Latency Requirements

For software development process it is very important for speed and latency must be ensured while retrieving data from the server or cloud server.

SLR-1	Data generate result must be faster.
Description	When Admin access the software, it's generating report based on server or cloud database very quickly.
Operator	All users.

### 2.3.2 Data Processing and Accuracy Requirements

Result of a software system to be to the end user is must be needed to be accurate. Wrong information might be ruined the whole business process and if it ruined the whole business become a loss project

DPAR-1	Process data result must be accurate.
Description	Though it's an accounting system, so accuracy and precision must be given in accounts and admin report. Also, client's information might be accurate.
Operators	Accounts officer and admin officer.

### 2.3.3 Capacity Requirement

The system might develop be capable to handle user, provide accurate information, Handling database, manage HTTP request etc.

CR-1	The system will handle thousands of data.
Description	The system needs to handle data thousands of data every month.
Operator	Admin

## 2.4 Dependability Requirements

The term dependability is measured based on four dimensions. Such as:

Availability  
Reliability  
Safety  
Security

When I want to say my system is dependable and safe then I must say that I can fulfill the four-above dimension. I also want to say that there is no way to make any kind of mistakes of our system. Besides that, it is also very important to limit the damage which might be caused by system failure.

### 2.4.1 Reliability and Availability Requirements

Software must be resalable to all user in any place.

RAR-1	The system must be available on 24 X 7
Description	<ul style="list-style-type: none"><li>• Our system must be available all day long, every day in a week.</li><li>• The system must be web base and can access anywhere any place.</li><li>• System must be malware free.</li></ul>
Operator	Officer Admin & Accounts section officer.

### 2.4.2 Fault tolerance Requirements

Ensure the robustness and fault-tolerance facilities to the users, it is urgent to ensure 0% crush. Moreover, it must show accurate results.

RFT-1	The system handles all user access without system errors.
Description	Two kings of user might hit our application system at a time. All of them. requests must be handled without any fault.
Stakeholders	System authorized user.

### 2.4.3 Safety and Critical Requirements

There are client's information and accounts information are safety critical requirements in my software.

SCR-1	All information must be safety with full secure authorization access.
Description	An organization/company internal data is more secure information. Though the system is web base system so, data cloud safety is more essential for my system.
Stakeholder	System user.

### 2.5 Maintenance and Support Requirements

It is very important to provide after service or support to the users

MS-1	System helps to update user profile.
Description	It is very important to update security system by sudden time period.
Stakeholders	System user.

#### 2.5.1 Support Requirements

Very important thing is to support an user in any time.

Supportability requirements may have related to some extends. Like:

Testability  
Extensibility  
Adaptability  
Maintainability      Compatibility  
Configurability  
Serviceability  
Install ability

In my application meets all of the above requirements related to supportability.

## 2.5.2 Adaptability Requirements

There are no adaptability requirements in my system software.

## 2.6 Security Requirements

Software security is very much important for making a software. Requirements of software security is very important. As an account and client's information maintenance system all kind of data is authentic and sensitive. I try to follow some security related requirements in my software is given bellow.

1. Signing multiple users in one platform.
2. Get accesses according to logged in user.
3. Set points to the drivers without having any issue.
4. Signing out as a admin & accounts officer.
5. Handling encrypted passwords.

### 2.6.1 Access Requirements

In my software application system accessing, there remains some authentication and authorization techniques. Every module of this application system will provide the techniques. Now, I will provide an explanation below.

AR-1	Application provides security mechanism.
Description	Every module is designed in such a way that it only gives access to the authorized and authenticated users.
Operator	Admin & Accounts Officer.

### 2.6.2 Easy of User Requirements

Our application is easy to use and also easily understandable.

EUR-1	Application must be usable for the end users.
Description	This system is enough usable to the admin and accounts officer by which they can operate this system easily.
Operator	Admin & Accounts officer.

### 2.6.3 Personalization and Internationalization Requirements

Assigning personalization and internationalization requirements in my application system. Only authorized person like admin officer and accounts officer can access this system using proper maintain access level.

### 2.6.4 User Documentation

I try to maintain 2 types of documentation one is internal and second is external, second type is maintaining by user.

UD-1	The system engineer documentation.
Description	To develop our application named Salauddins movie ticket book system, tickets, movies and halls manager firstly we have make a system analysis team as well as documentation team.
Operators	System analysts or software developers.

### 2.6.5 Training Requirements

After service application is involved by training requirements. The training requirements are very necessary to properly train up end users to the system so that they would be used to operate easily. After launching the full package to the market, firstly me and my team provide training to the different end users like office Admin & manager.

### 2.6.7 Appearance Requirements

Admin & Accounts user must know which input fields are required and which are not. For that reason, we will use labels for all input fields. Input fields are text type, video, wall poster etc.

AR-1	Labels of mandatory fields must be bold.
Description	The mandatory field's label must be bold and all input fields must have placeholder to make it easier for the users.
Operators	Admin & Accounts officer.

### **2.6.8 Operational and Environmental Requirements**

Performance, capabilities, user demands, process are referred by Operational and environmental requirement.

### **2.6.9 Expected Physical Requirements**

There are no expected physical requirements in our system.

### **2.6.10 Requirements for Interfacing with Adjacent System**

There are no requirements for interfacing with adjacent system for our project.

### **2.6.11 Release Requirements**

It's a web base application, so must be an internet connection and web browser for accessing the system is needed.

### **2.6.12 Legal Requirements**

The terms and condition of my application is that, no third-party software without cloud is allowed to engage to use our data for their business purpose.

### **2.6.13 Compliance Requirements**

No specific compliance requirements for our system

### **2.6.14 Standards Requirements**

No specific standards requirements for our system.

## Chapter 3

### System Analysis

#### 3.1. Use Case

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. In this context, the term "system" refers to something being developed or operated, such as a mail-order product sales and service website. Use case diagrams are employed in UML (Unified Modeling Language), a standard notation for the modeling of real-world objects and systems.

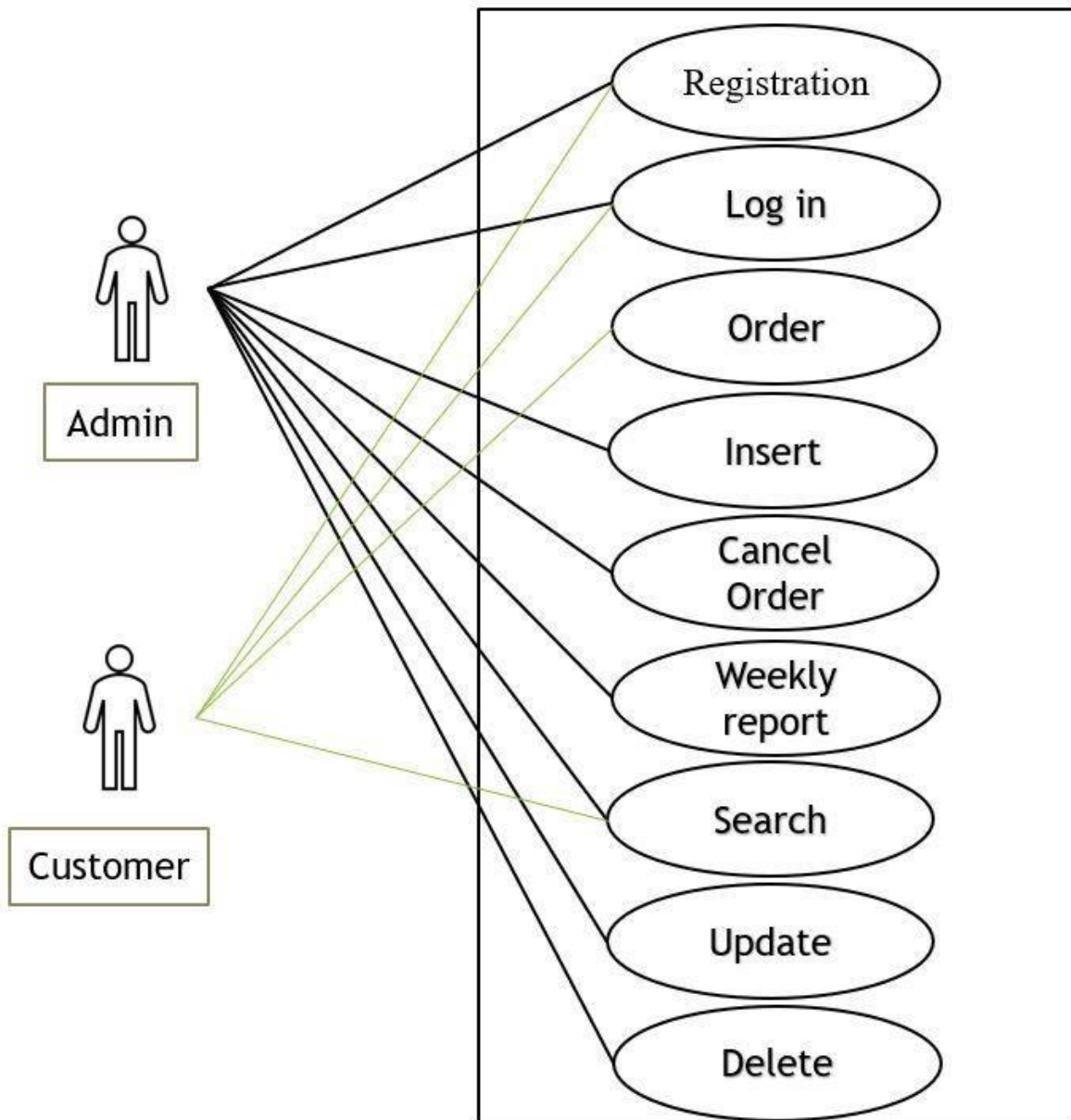


Figure 01: Use Case Diagram

### 3.1.2 Admin

#### Admin criteria

User Title	Admin
Goal	Admin can control full system
Conditions	<ul style="list-style-type: none"><li>• Admin login properly.</li></ul>
Success End Condition	Admin can view all information in a tabular format.
Failure End Condition	System shows an error message.
Primary Actor:	Admin officer
Secondary Actor:	N/A
Trigger	Show all information in a tabular format.
Alternative Flows	Show an error message.
Quality Requirements	User must be Admin officer.



### 3.1.3 Admin can add / view of client list

Admin maintain all client list with the Admin ship

User Title	Admin.
Goal	Admin can view all clients' information.
Conditions	<ul style="list-style-type: none"><li>• Admin login properly.</li><li>• Go to client's button.</li><li>• Check request.</li><li>• Press clients list sub-button.</li><li>• Press add client</li></ul>
Success End Condition	Admin can view all clients' information in a tabular format.
Failure End Condition	System shows an error message.
Primary Actor:	Admin officer
Secondary Actor:	N/A
Trigger	Show all clients information in a tabular format.
Description/Main Success Scenario	Admin officer go to client request than press clients add button. Then admin officer can show the clients information in a tabular format.
Alternative Flows	Show an error message.
Quality Requirements	User must be Admin officer.

### 3.1.4 Admin Can Sort by the Amount of Client list

Admin show the amount off client buy which movie

User Title	Admin.
Goal	View clients list based on amount
Conditions	User must be login first using admin email and password.

Success End Condition	Admin officer can view the clients list based on amount
Failure End Condition	Page reload and though the previous page.
Primary Actor: Secondary Actor:	Admin Officer. N/A
Trigger	Admin can view clients list Sort by amount high to low.
Description/Main Success Scenario	Admin first login properly. Then go to client's button and press Sort by amount. Admin can view all clients based on big amount to low amount.
Alternative Flows	Load page and go through previous site.
Quality Requirements	User must be authentic as an admin user

### 3.1.5 Admin Add Movie

Admin can add new movie information in the system.

User Title	Admin.
Goal	Admin officer add new Movie information in database.
Conditions	User must be an admin and have proper authority to add a Movie
Success End Condition	Admin successfully add a Movie in database.
Failure End Condition	Show confirmation message.

Primary Actor:	Admin officer.
Secondary Actor:	N/A
Trigger	Press save button after input all information fills.
Description/Main Success Scenario	Admin go to client request list and When show list then press create new button and show a field for add clients. Then fill up all form and press save button.
Alternative Flows	Show error message in red text color.
Quality Requirements	User have full of information of clients.

### 3.1.6 Admin Add/ Edit Movie Hall Information

Admin can edit the information of movie halls

User Title	Admin
Goal	Admin edit any client information.
Conditions	User must be an authorize admin and login first.
Success End Condition	Admin can edit any client information.
Failure End Condition	Show an error message.
Primary Actor:	Admin officer.
Secondary Actor:	N/A
Trigger	Press update button.

Description/Main Success Scenario	Admin go to client feature and When show clients list then press edit button and show a field for edit client with full information. Update information and press update button. Finally show confirmation message.
Alternative Flows	Show error message.
Quality Requirements	User must be an admin.

### 3.1.7 Admin Maintain Amount of Tickets

Admin can add amount new movie tickets.

User Title	Admin.
Goal	Admin can add amount of tickets.
Conditions	User must be as an authorize admin
Success End Condition	User can view summery of tickets movie and hall.
Failure End Condition	Show error message.
Primary Actor:	Admin officer.
Secondary Actor:	N/A
Trigger	Press delete confirmation button.
Description/Main Success Scenario	Admin add amount of available tickets and which Movie hall is available for the movie
Alternative Flows	Show an error dialog box.
Quality Requirements	If any problem Admin notify user by phone call

### 3.1.8 Admin Delete Client

If necessary, an Admin can delete a client

User Title	Admin.
Goal	Admin can delete any client with details.
Conditions	User admin properly login with properly user email and password.
Success End Condition	Show successful message.
Failure End Condition	Reload page and show error message.
Primary Actor: Secondary Actor:	Admin officer. Accounts officer.
Trigger	Press view total Movie name, amount of tickets and halls.
Description/Main Success Scenario	Admin go to client button and go to clients list. When show clients list then press delete button and show delete confirmation message. And finally show success message.
Alternative Flows	Show error message.
Quality Requirements	User must be an Admin.

### 3.1.9 Admin View total sales/ revenue

Admin can maintain total sale and revenue

User Title	Admin
Goal	Accounts officer can view total sales.
Preconditions	User must be login first.
Success End Condition	Show total accounts status.
Failure End Condition	Data does not load.
Primary Actor: Secondary Actor:	Accounts officer. Admin officer.
Trigger	Press total sales button.
Description/Main Success Scenario	Accounts officer login first with proper email and password. Then go to accounts button and press total sales sub-button. Finally accounts officer can view total sales, current month sales, paid bill, due bill, and backlog.
Alternative Flows	Show error message
Quality Requirements	N/A

### 3.1.10 User/ Customer

User criteria

User Title	Customer
Goal	Booking movie ticket using the system
Conditions	User must be registered.
Success End Condition	Open an account.

Failure End Condition	Notified by system.
Primary Actor:	Customer
Secondary Actor:	N/A
Trigger	Press Registration / log in button
Description/Main Success Scenario	Customer come to this system web page, if new customer press registration or if registered press log in button
Alternative Flows	Show error message.

### 3.1.11 Customer Registration

Customer must be registered

User Title	Customer.
Goal	Registration in the system.
Conditions	User must be registered.
Success End Condition	Open an account.
Failure End Condition	Notified by system.
Primary Actor:	Customer
Secondary Actor:	N/A
Trigger	Press Registration button
Description/Main Success Scenario	Customer come to this system web page, if new customer press registration.
Alternative Flows	Show error message.

### 3.1.12 Customer Login

Registered customer log in

User Title	Customer.
Goal	Log in the system.
Conditions	User must be registered.
Success End Condition	Registered account.
Failure End Condition	Notified by system.
Primary Actor:	Customer
Secondary Actor:	N/A
Trigger	Press login button
Description/Main Success Scenario	Customer come to this system web page, registered press log in button.
Alternative Flows	Show error message.

### 3.1.13 Customer Order

Customer order or booking for tickets.

User Title	Customer.
Goal	Order movie tickets for specific movie and specific hall.
Conditions	User must be registered and logged in.
Success End Condition	Registered account.
Failure End Condition	Notified by system.



Primary Actor:	Customer
Secondary Actor:	N/A
Trigger	Search movie and hall
Description/Main Success Scenario	Customer come to this system web page, search movie, choose hall and order tickets.
Alternative Flows	Show error message.

### 3.1.14 Customer Can Search

Customer can search movie, available movie hall and position of sit

User Title	Customer.
Goal	Search movie tickets for specific movie and specific hall and available tickets.
Conditions	User must be registered and logged in.
Success End Condition	Registered account.
Failure End Condition	Notified by system.
Primary Actor:	Customer
Secondary Actor:	N/A
Trigger	Search movie and hall
Description/Main Success Scenario	Customer come to this system web page, search movie, choose hall and order tickets.
Alternative Flows	Show error message.

### 3.2 Activity Diagram of the System

I have prepared some activity diagram according to my use case. These activity diagrams are properly referring the flow of the individual conditions of my project.

#### 3.2.1 Amin login

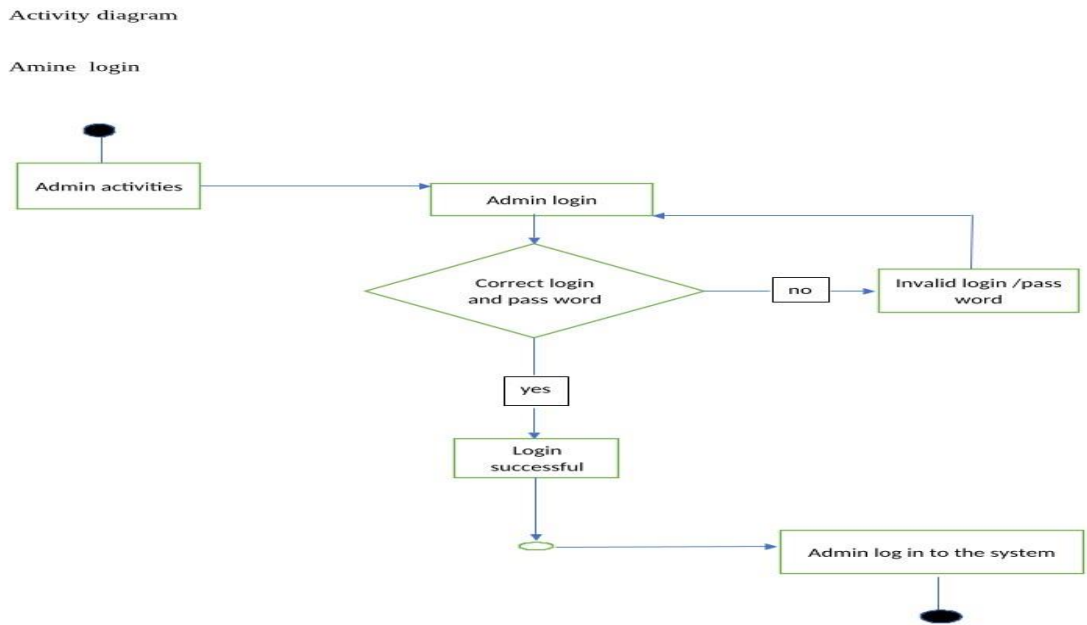


Figure 3.2.1: Admin login

In this figure we can see how an admin log in the system, go to the URL of the system site he/she must be log in with proper correct information after check all necessary requirements the system give permission to log in or enter the system, if not the system give a error message to the user.

### 3.2.2 Admin activities in the system

Admin update insert delete system

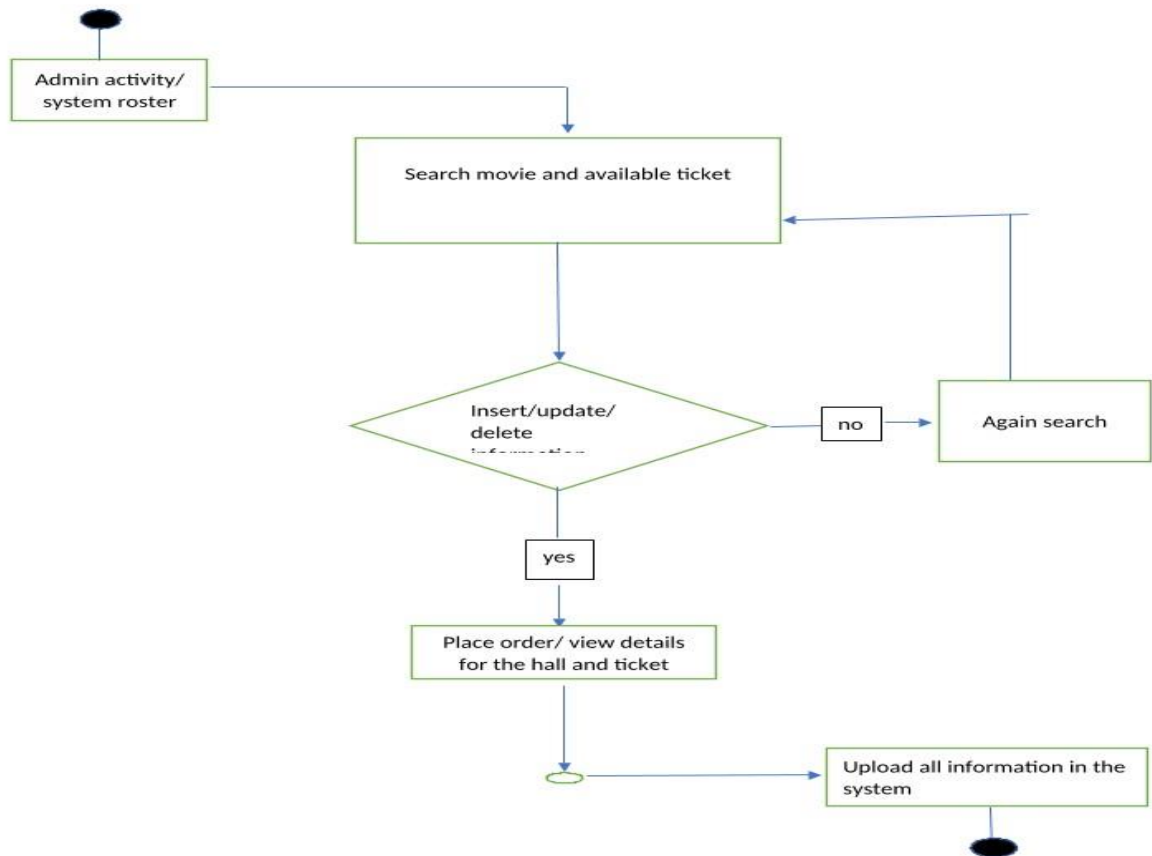


Figure 3.2.2: Admin activities

In this figure Admin can search movie, can upload movie name, hall name available ticket number. search which hall is empty and which one is full, manage customer ticket policy and can cancel order if he/she want. Then finally he uploads update information in the system.

### 3.2.3 Admin can cancel order.

Admin can cancel order

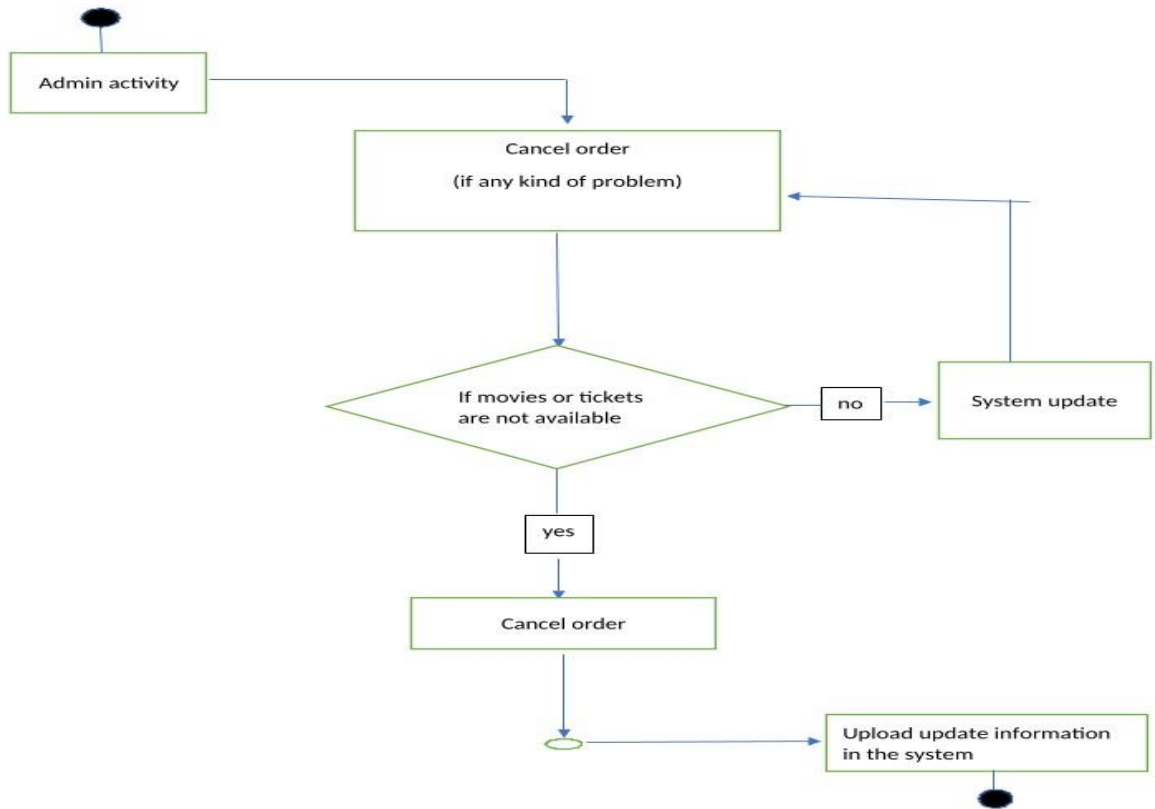


Figure 3.2.3 Admin can cancel order.

Admin can cancel order in case of any kind of problem like no ticket available, or the movie is not available in the hall, the information will be notifying customer by Admin. After that admin upload update information in the system.

### 3.2.4 activity diagram of user

Activity diagram  
user order

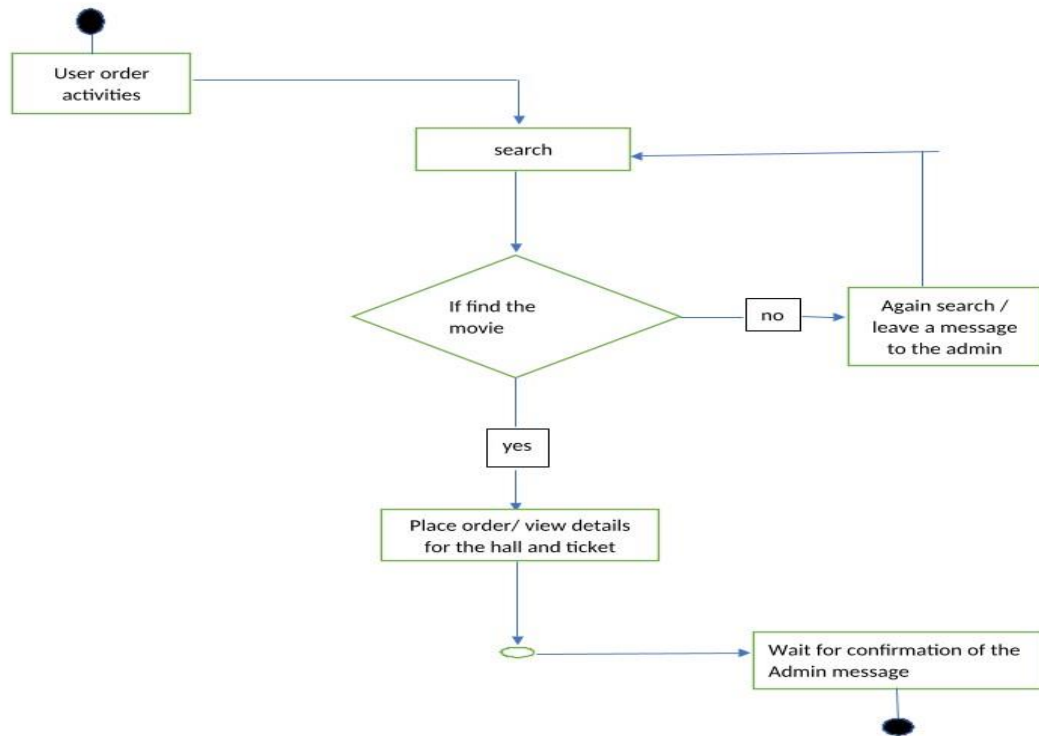


Figure 3.2.4 Admin can cancel order.

User search movie, hall and available ticket. If any new movie release in so he/she search the movie in the system and also search which movie hall provide the new movie, there available ticket and order ticket using the system.

### 3.2.5 user can cancel order

User can cancel order

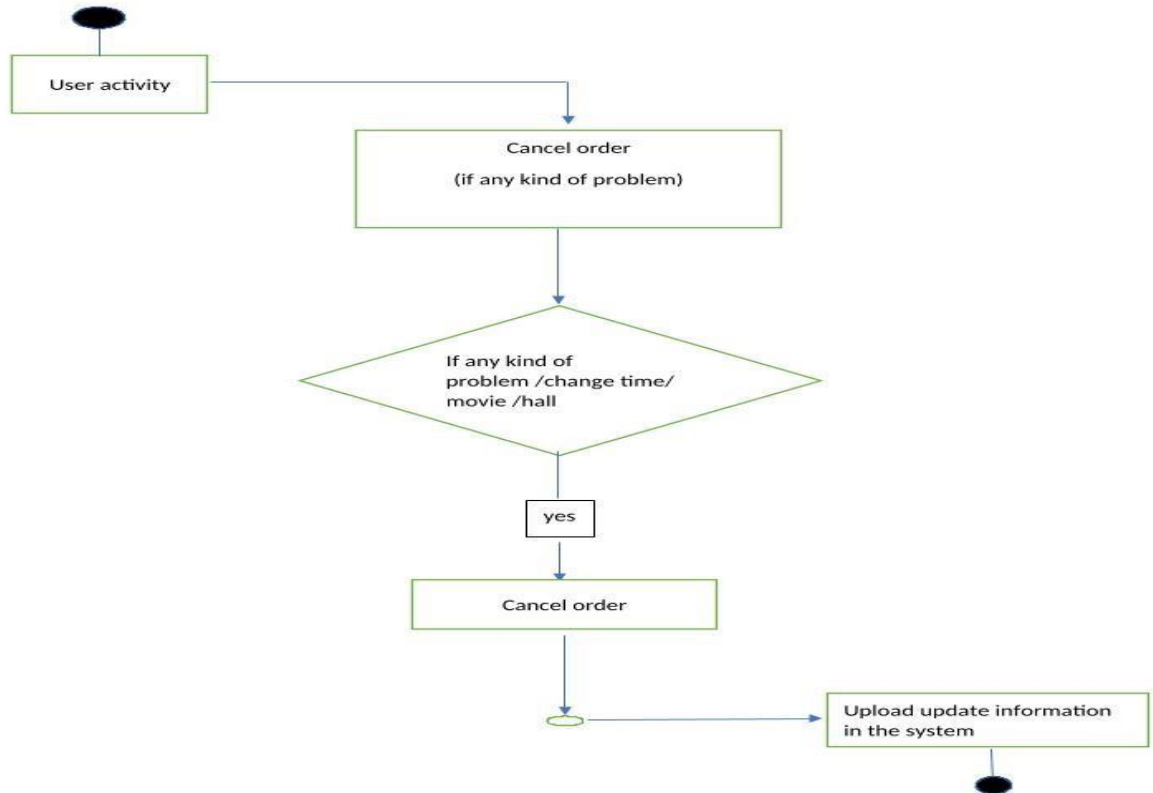


Figure 3.2.5 User can cancel order.

User can also cancel order if any kind of problem he/she face like the schedule of the movie is not sweet able for him/her, or he/she try to attain the movie in another day. Therefor user can cancel the order using the system.

### 3.2.6 Admin weekly report

Activity diagram  
Admin weekly reports

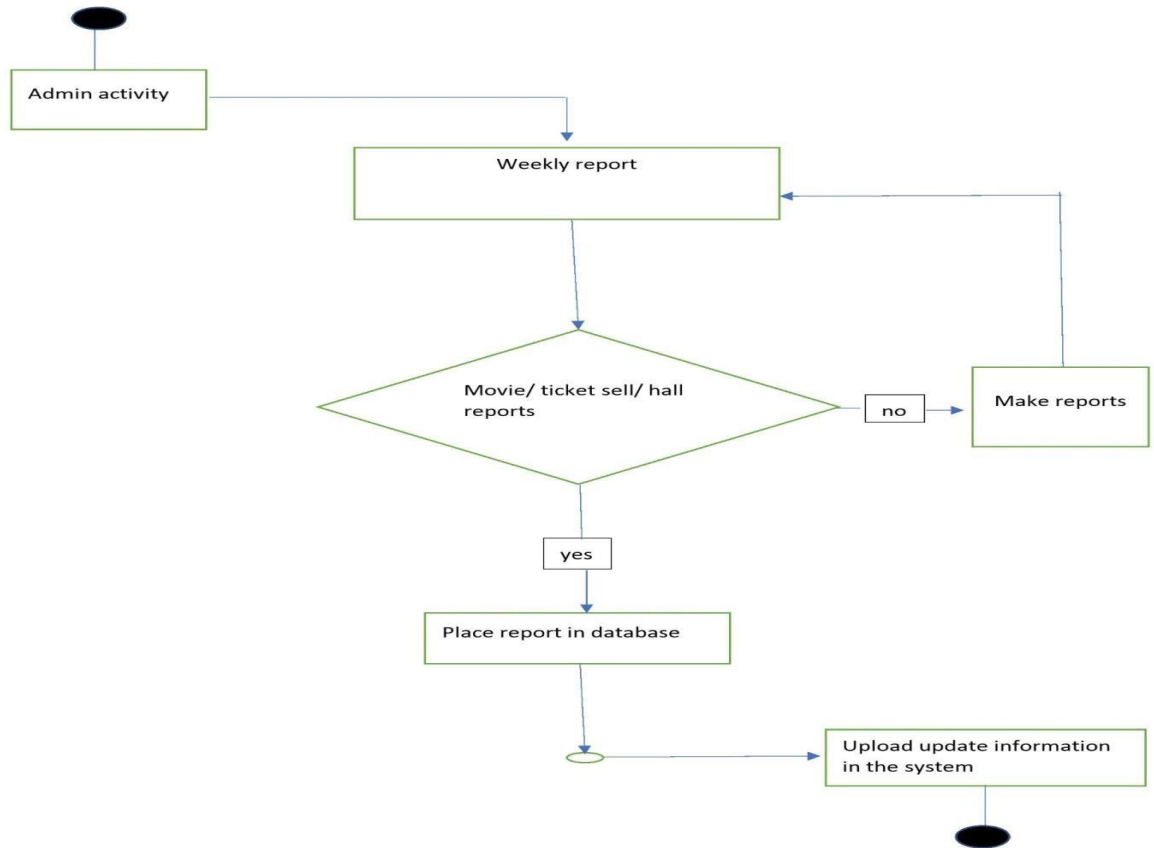


Figure 3.2.6 Admin weekly report

Admin can see the weekly sells and profit, the backlog and day per profit also.

# Chapter 4

## System Design Specification

### 4.1. Sequence Diagram

UML Sequence Diagrams are interaction diagrams that detail how operations are carried out. They capture the interaction between objects in the context of a collaboration. Sequence Diagrams are time focus and they show the order of the interaction visually by using the vertical axis of the diagram to represent time what messages are sent and when.

#### 4.1.1. System Sequence Diagram: Authenticate User: User

User can registration by requesting to the system.

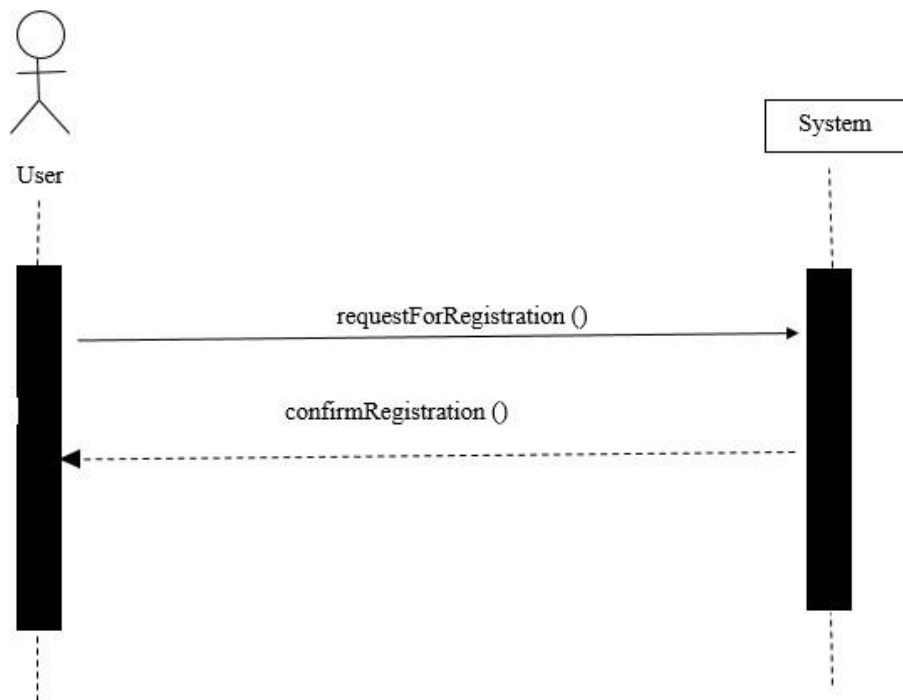


Figure 11: System Sequence Diagram: Authenticate User: User



**4.1.2. System Sequence Diagram: Authenticate User: Admin** Admin can registration by requesting to the system.

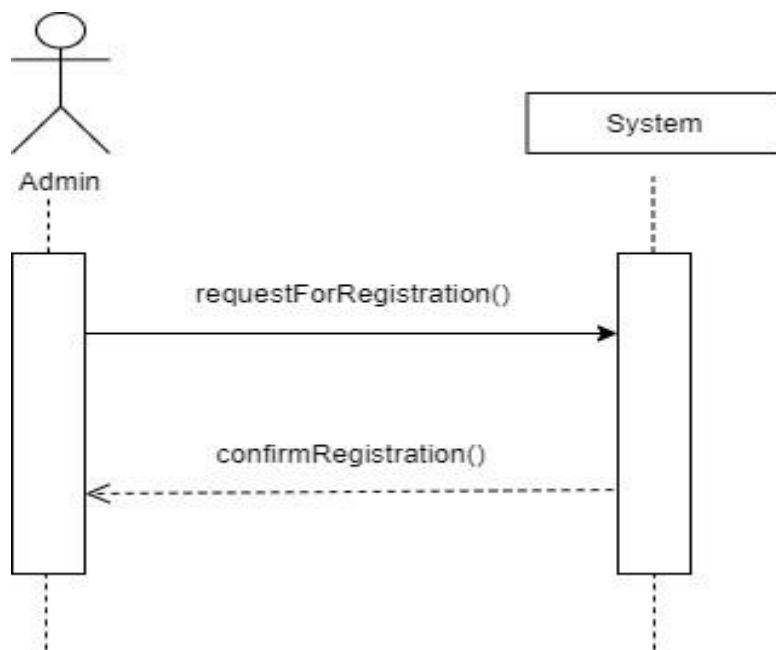


Figure 12: System Sequence Diagram: Authenticate User: Admin

## 4.1 Entity Relationship Diagram

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation of an information system that depicts the relationships among people, objects, places, concepts or events within that system. An ERD is a data modeling technique that can help define business processes and be used as the foundation for a relational database.

- Rectangle: Uses to define entity
- Eclipse: Uses to attribute
- Diamond: Uses to define action

### Entity relation diagram

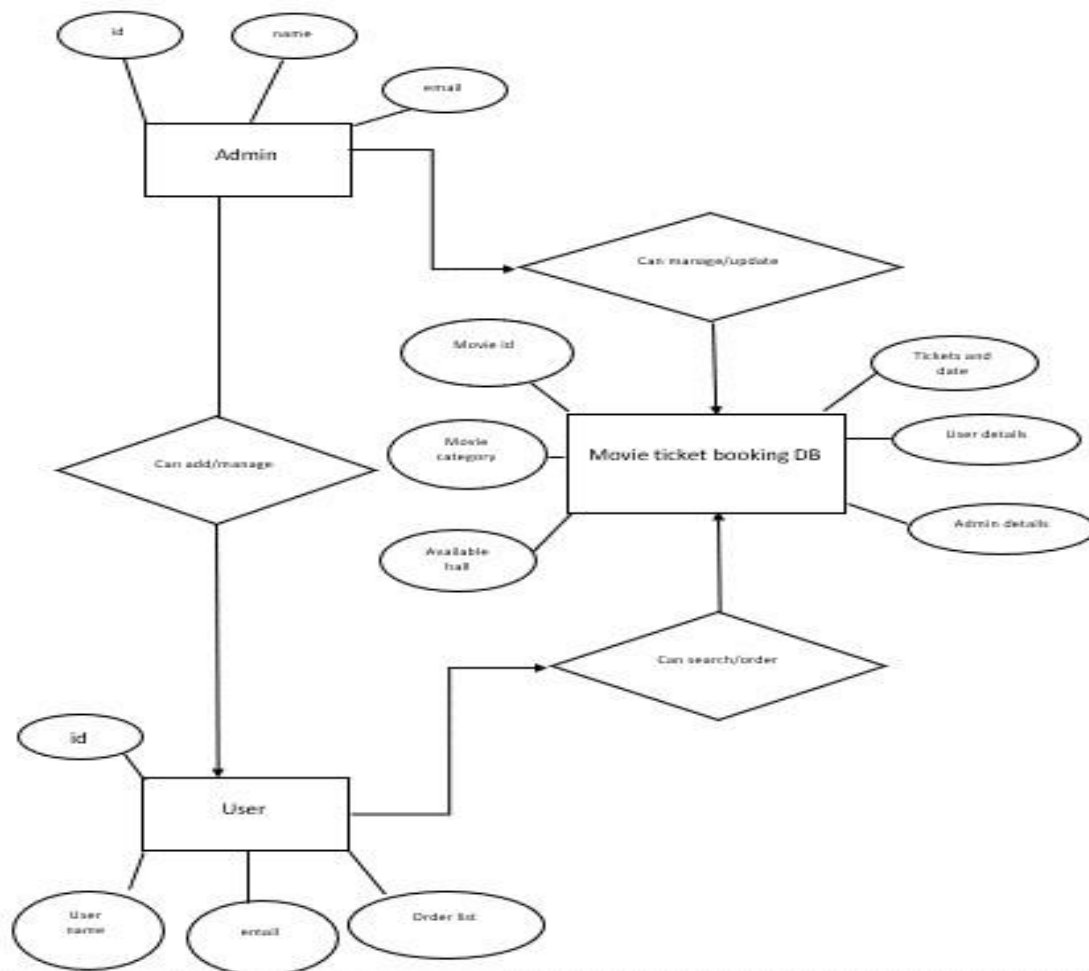


Figure 19: Entity Relationship Diagram

## 4.2 Class Diagram

A class diagram in the Unified Modeling Language (UML) is a **type of static structure diagram** that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

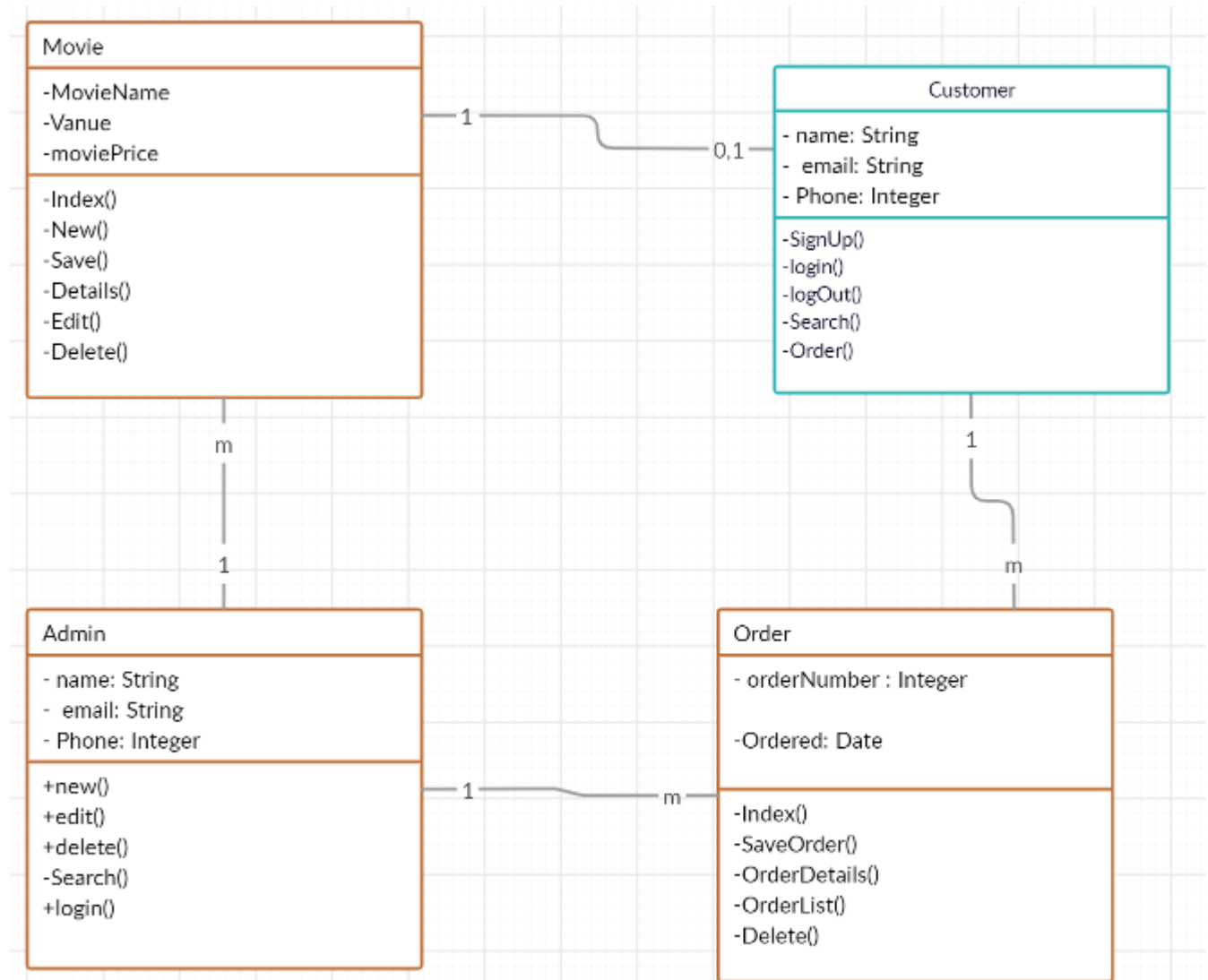


Figure 20: Class Diagram

## Chapter 5

### 5.1 Testing Feature

Features of testing is considered to check the functional requirement to the application system for testing the project functional features, more than one testing process are follow for ensure the process work properly.

Almost every feature and functionality have different activity. Those are designed to make the application more useful, intuitive, reliable, secured, scalable, effective and efficient.

### 5.2 Features to be tested

Features	Priority	Description
Login	1	User must be authenticated by login.
Logout	1	Session must be destroyed after logout.
Create new client	1	Clients information must be saved properly.
Delete clients	3	Selected client's information deletes properly by admin
Load database table	1	Load database and generate query properly in time.
Show clients details	3	Show clients details properly.
Show graphical view	3	Graphs show correct report.
Manage clients order	1	Order ticket must be ensuring by the system for the client
Manage movie hall and tickets	2	Information of the movie and movie hall must be correct
Manage submit voucher	1	Voucher information save properly.

Here

Low priority = 3

Medium priority = 2

High priority = 1

### **5.3 Pass /Fail Criteria**

Pass or fail criteria will be set by the test engineers. They will prepare the pass / fail criteria on the basis of which input data are worked and which are not works well. Those data that are worked well will considered as pass criteria. And rest of input data will be considered as fail criteria.

Now I will give the pass / fail criteria below.

- System crash will not be considered as pass case.
- If any criteria pass 100% times, then it will be considered as pass criteria only.
- If data can't be displayed to the application properly, then it is also to be considered as fail criteria.

### **5.4 Testing Environment**

Live software test will be benefited for the system management. Testing environment means the hardware and software work properly together. Besides hardware and software usage, network configuration might be needed to execute test plans.

For making the environment for testing, some key area needs to setup.

Those are:

- Test data
- Database server
- Client's operating system
- Front end running environment
- Browser
- System and application
- Network
- Hardware with server operating system
- Documentation is also required. Like: user manuals, installation guides, configuration guides, documents etc .

### **5.5 Test Case**

A test case refers to some rules and regulations or conditions by which it can be determined whether a system can be able to meet the works or requirements under test cases properly. In our software we need some movie authorization, movie hall and their tickets. We know, there is a chance to have some fault or break holes in any application. This is very common scenario. And those issues are solved usually by software testing approaches. But if we don't care of those issues, then the full application development might be ruined. So proper testing must be needed. For testing our application, I have prepared some test cases.

Now, I am going to provide them.

### 5.5.1 Log in

Test Case # 1	Test case name: log in
System: Salauddin First Movie Booking Website	Subsystem: Admin
Designed by: Md. Salauddin Tushar	Designed date: 15-April-2019
Executed by: Md. Salauddin Tushar	Executed date: 15-October-2019
<b>Short Description:</b> Admin or Accounts officer enter the URL and after successfully enter then enter login panel then input valid email and password. After successfully enter press login than if it's correct then login authorize panel.	
Pre-conditions: <ul style="list-style-type: none"> <li><input type="checkbox"/> User must be authorized.</li> <li><input type="checkbox"/> User must enter valid user mail and password.</li> <li><input type="checkbox"/> Press Login button.</li> </ul>	

### 5.5.2 Authorization Check

Test Case # 2	Test case name: Authorization check			
System: Salauddin First Movie Booking Website	Subsystem: Admin & Accounts officer			
Designed by: Md. Salauddin Tushar	Designed date: 15-April-2019			
Executed by: Md. Salauddin Tushar	Executed date: 15-October-2019			
<b>Short Description:</b> Proper user can access authorized panel. Accounts officer must login in accounts panel and admin officer login in admin panel.				
Pre-conditions: <ul style="list-style-type: none"> <li>• Enter correct URL.</li> <li>• System runs online correctly.</li> </ul>				
Step	Action	Response	Pass/Fail	Comment
1	Input invalid email and password.	Show error message.		
2	Authorized user try correct email and password	Get access authorized system panel		
Post-condition: authorized user get access and can maintain their site panel.				

### 5.5.3 Create New

Test Case # 3		Test case name: Create New		
System: Salauddin First Movie Booking Website		Subsystem: Admin & Accounts officer		
Designed by: Md. Salauddin Tushar		Designed date: 15-April-2019		
Executed by: Md. Salauddin Tushar		Executed date: 15-October-2019		
<b>Short Description:</b> Admin go to client feature and go to clients list sub-button. When show clients list then press create new button and show a field for add clients. Then fill up all form and press save button. Finally show confirmation button.				
Pre-conditions:				
<input type="checkbox"/> User must be an admin officer h <input type="checkbox"/> Have proper information of clients.				
Step	Action	Response	Pass/Fail	Comment
1	Can't fill up but try to save.	Show error message and can't submit.		
2	Fill up properly and submit	Save properly.		
Post-condition: save properly and show this client in clients database.				

### 5.5.4 Delete Client

Test Case # 4		Test case name: Delete clients		
System: Salauddin First Movie Booking Website		Subsystem: Admin & Accounts officer		
Designed by: Md. Salauddin Tushar		Designed date: 15-April-2019		
Executed by: Md. Salauddin Tushar		Executed date: 15-October-2019		
<b>Short Description:</b> Admin go to client button and go to clients list sub-button. When show clients list then press delete button and show delete confirmation message. And finally show success message.				
Pre-conditions:				
<ul style="list-style-type: none"> <li>User must be as an admin officer.</li> </ul>				
Step	Action	Response	Pass/Fail	Comment
1	Press delete but not to confirmed	Not delete		
2	Delete and confirmed delete	Finally delete		
Post-condition: check this file and finally delete.				

### 5.5.5 Manage Movie Hall and Tickets

Test Case # 5		Test case name: Manage Movie Hall and Tickets			
System: Salauddin First Movie Booking Website		Subsystem: Admin & Accounts officer			
Designed by: Md. Salauddin Tushar		Designed date: 15-April-2019			
Executed by: Md. Salauddin Tushar		Executed date: 15-October-2019			
<b>Short Description:</b> Admin check the schedule of the movie hall and their available movie and tickets and upload in the system					
Pre-conditions:					
<ul style="list-style-type: none"> <li>User login first properly.</li> </ul>					
Step	Action	Response	Pass/Fail	Comment	
1	Insert data and check the graphs	Show graphs			
2	Change data and check the graphs	Show graphs			
Post-condition: system check is the data correct or not.					

### 5.5.6 Inform Clients

Test Case # 6		Test case name: Inform Clients			
System: Salauddin First Movie Booking Website		Subsystem: Admin & Accounts officer			
Designed by: Md. Salauddin Tushar		Designed date: 15-April-2019			
Executed by: Md. Salauddin Tushar		Executed date: 15-October-2019			
<b>Short Description:</b> In case of any problem Admin notify client by message or phone call.					
Pre-conditions:					
<ul style="list-style-type: none"> <li>User must be an accounts officer.</li> </ul>					
Step	Action	Response	Pass/Fail	Comment	
1	Does not fill up all text box but try to save information	Doesn't save show error message.			
2	Fill up all filed and save	Save info			
Post-condition: check the voucher information is save or not.					



### 5.5.7 Add Voucher

Test Case # 7	Test case name: Add voucher				
System: Salauddin First Movie Booking Website	Subsystem: Admin & Accounts officer				
Designed by: Md. Salauddin Tushar	Designed date: 15-April-2019				
Executed by: Md. Salauddin Tushar	Executed date: 15-October-2019				
<b>Short Description:</b> Accounts officer login first with proper email and password. Then go to accounts button and press submit voucher sub-button. Show a fill for fill up for add a voucher. Fill up the table and submit voucher. Then add the information as a voucher.					
Pre-conditions:					
<ul style="list-style-type: none"> <li>User must be an accounts officer.</li> </ul>					
Step	Action	Response	Pass/Fail	Comment	
1	Does not fill up all text box but try to save information	Doesn't save show error message.			
2	Fill up all filed and save	Save voucher			
Post-condition: check the voucher information is save or not.					

## **Chapter 6**

### **Development Tools and Technologies**

#### **6.1. User Interface Technologies**

- UTF-18
- Material Font
- Material icon

#### **6.2. Implementation Technologies**

##### **6.2.1. PHP**

A concurrent, class-based, object-oriented programming language (PHP).

##### **6.2.2. JAVA Script**

A concurrent JAVA script proper use this system

##### **6.2.3. HTML, CSS**

##### **6.2.4. Google Cloud Vision API**

#### **6.3. Platform and Environment**

##### **6.3.1. Hardware**

- Processor: Intel Core i5.
- RAM: 8GB.
- Hard drive: 1TB.

##### **6.3.2. Tools**

- IDE/Editor: notepad++
- Server: MYSQL Database

##### **6.3.3. Version Control**

- Github

## **Chapter 7**

### **CONCLUSION**

This paper proposes the web based online system which is time saving for the customers by booking the tickets online. This system is designed using modern system architecture to cope with changing requirement. This web based can further be implemented as a mobile app which can be accessed by the customers to book tickets online and to have information about the newly released movies. This system is more secure as it is developed on java platform with strut framework.