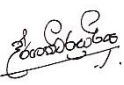
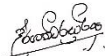


Name: Group 6

Student Reference Number:

Module Code: PUSL 2024	Module Name: Software Engineering 02
Coursework Title:	
Deadline Date:	Member of staff responsible for coursework: Mr. Pramudya Thilakaratne
Programme:	
Please note that University Academic Regulations are available under Rules and Regulations on the University website www.plymouth.ac.uk/studenthandbook .	
<p>Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.</p> <p>Weerasuriya Weerasooriya (Leader) - 10819528</p> <p>Kuruppu Kuruppu - 10820784</p> <p>Rajapaksha Wimalachandra - 10819473</p> <p>Rohit Mathavan - 10818457</p> <p>G Yashmitha - 10817952</p> <p>Halwala Thathsarani - 10818793</p> <p><i>We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.</i></p> <p>Signed on behalf of the group: </p>	

Individual assignment: ***I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.***

Signed : 

Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.

I *have used/not used translation software.

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Overall mark _____ **%** **Assessors Initials** _____ **Date** _____

*Please delete as appropriateSci/ps/d:/students/cwkfrontcover/2013/14

Contents

Abstract.....	4
Introduction and the Process.....	5
Use Case Diagram	6
Class Diagram.....	7
Sequence Diagram	8
ER Diagram.....	9
Front-End(User)	10
Front-End(Admin)	14
Conclusion.....	15

Abstract

This report examines the current state of the ABC cinema website and the potential benefits of upgrading the website using JSP and Servlet technologies. The film industry is rapidly evolving, and it is essential for a leading cinema like ABC to keep up with the most recent technological developments. The report will analyze the current state of the website, the potential benefits of upgrading the website using JSP and Servlet technologies, and the steps required to implement these modifications. The proposed upgrade includes features such as online ticket reservation, online payment processing, customer feedback visualization and SMS or email notifications. The goal of the upgrade is to enhance the customer experience and aid the management team in making more informed decisions.

Introduction and the Process

Cinema is another important sector in the modern world since it has become a human life event. We can find movie halls in every country and everywhere, and it is now a profitable industry across the world. Because it is a lucrative business, the owners have begun to experiment with newly emerging technologies in these movie halls. The invasion of technology began with the screen, then the quality of the film, and now in the twenty-first century, the new concept is to use this technology to another hidden aspect of movie halls.

Constantly, business owners attempt to attract consumers, and customers always seek the simplest and most effective solution to their problems.

Taking this into account, a group of Plymouth students conducted some preliminary research on Sri Lankan film halls and used some of the findings to develop our scenario.

Our first focus is on the ticketing system. As usual, Sri Lankans go to the cinema hall and buy a ticket by paying cash to the ticket counter. Sometimes it takes too long when there are so many people waiting to buy tickets in a queue, which is the most noticeable problem when entering the cinema hall and makes fans feel more uncomfortable. They may occasionally overlook the beginning of their tale. This became our first subject of discussion.

Then, occasionally, individuals are faced with another circumstance in which they do not have a seat; there are frequently incomplete websites for booking, but clients have a major problem with the unavailability of their booked seat or the expiry date.

The most essential element in a business or a project is client feedback; by using that input, we can expand the business and take safeguards to finish and attract more and more consumers.

Another important aspect is keeping customers informed; sometimes they encounter several problems after arriving at the cinema hall, such as when it is closed, when the required film is not available, or when there is insufficient room. So, by maintaining touch or providing updates to clients, we can eliminate this problem 99% of the time. Introducing a mailing/ SMS mechanism for reservations and cancellations.

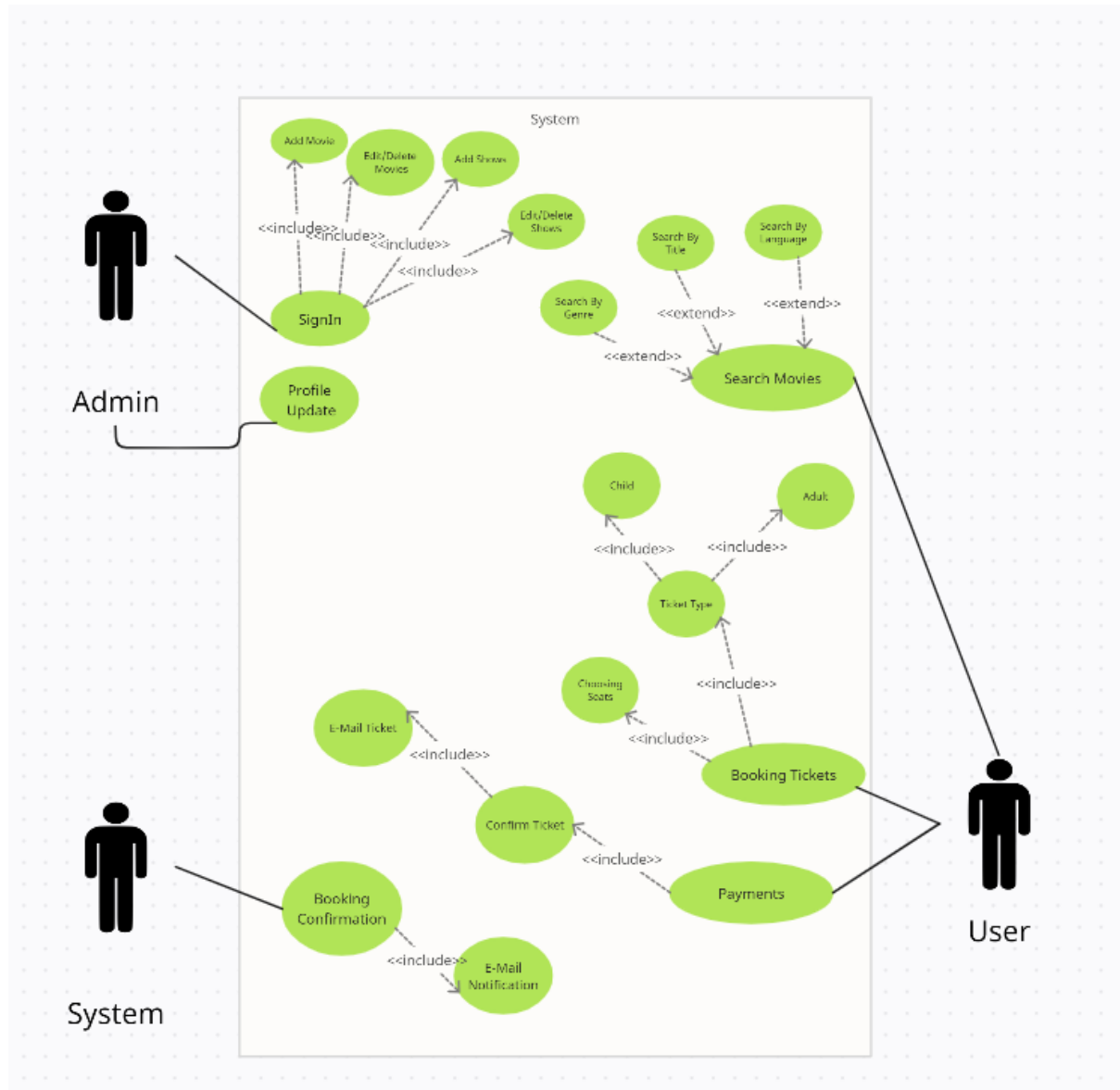
By taking all those to the proper researchable consideration here we present the website with the given scenario.

This report examines the current state of the ABC cinema website and the potential benefits of upgrading the website using JSP and Servlet technologies. The film industry is rapidly evolving, and it is essential for a leading cinema like ABC to keep up with the most recent technological developments.

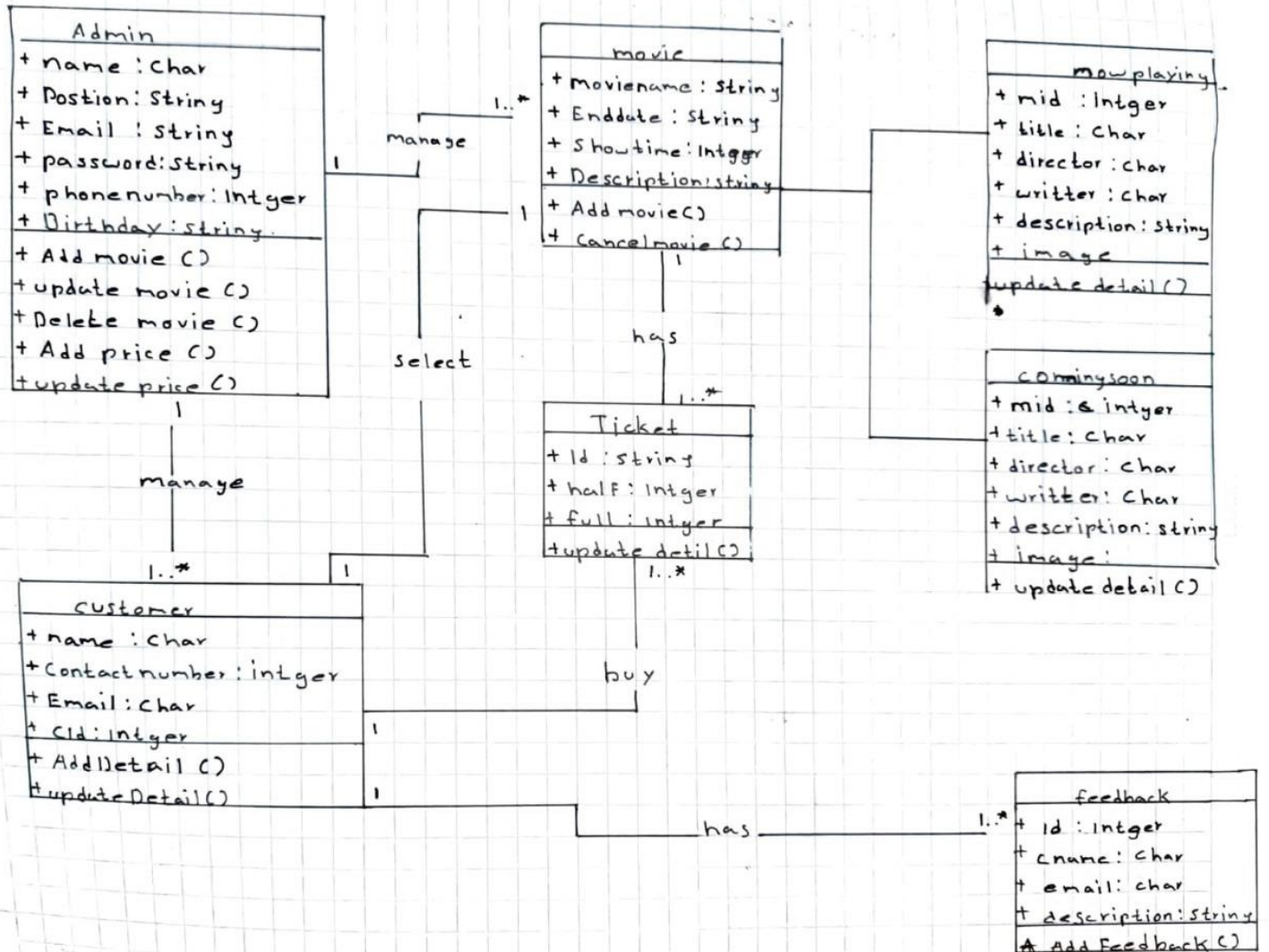
The ABC cinema's current website is obsolete and lacks key features such as online ticket reservation and online payment processing. These features are necessary in the current digital age and can enhance the customer experience. In addition, the incorporation of customer feedback visualization and SMS or email notifications can aid the management team in making more informed decisions. Utilizing JSP and Servlet technologies can enhance the website's functionality and usability, making it easier for customers to

navigate and purchase tickets. This report will analyze the current state of the website, the potential benefits of upgrading the website using JSP and Servlet technologies, and the steps required to implement these modifications.

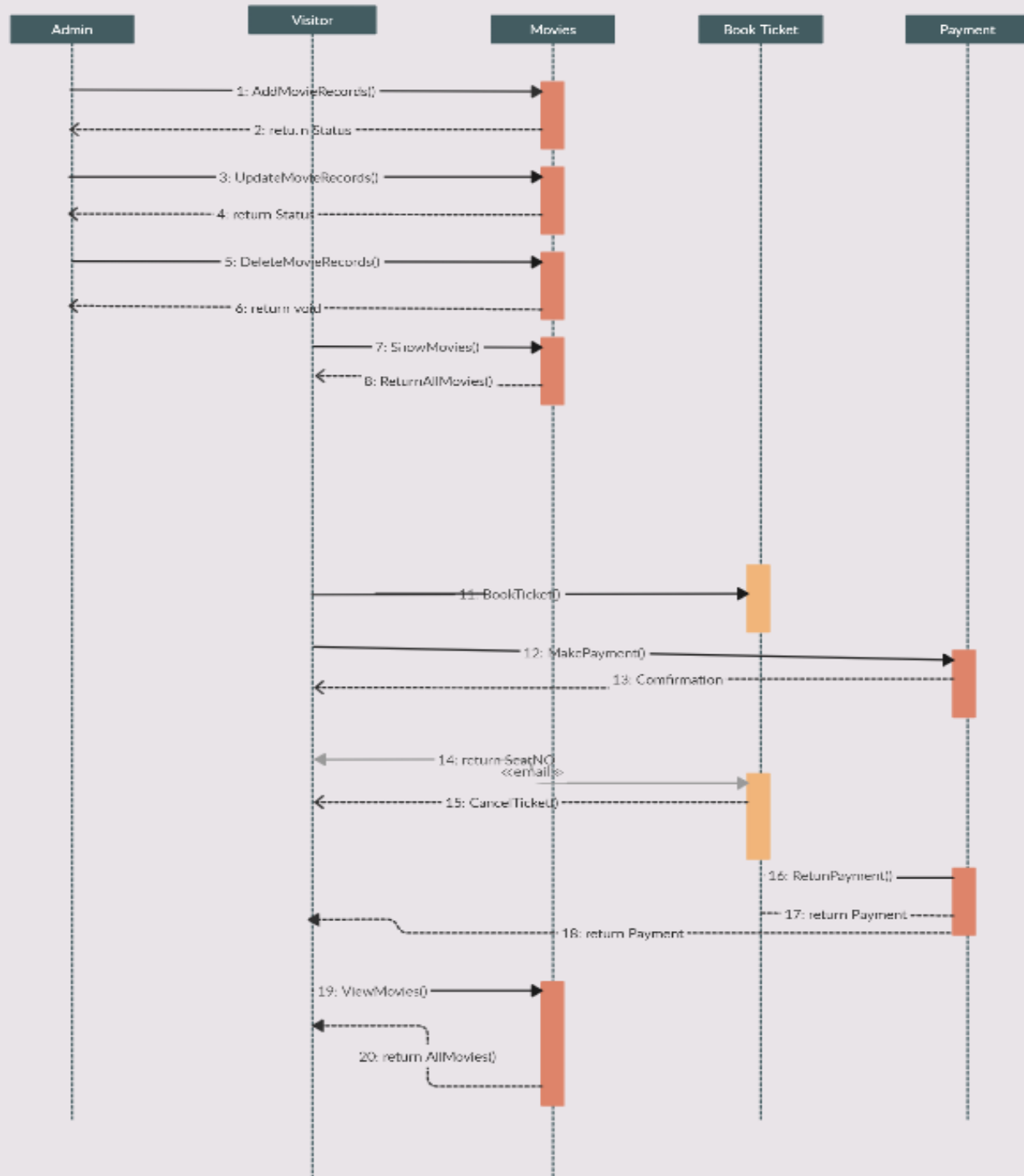
Use Case Diagram



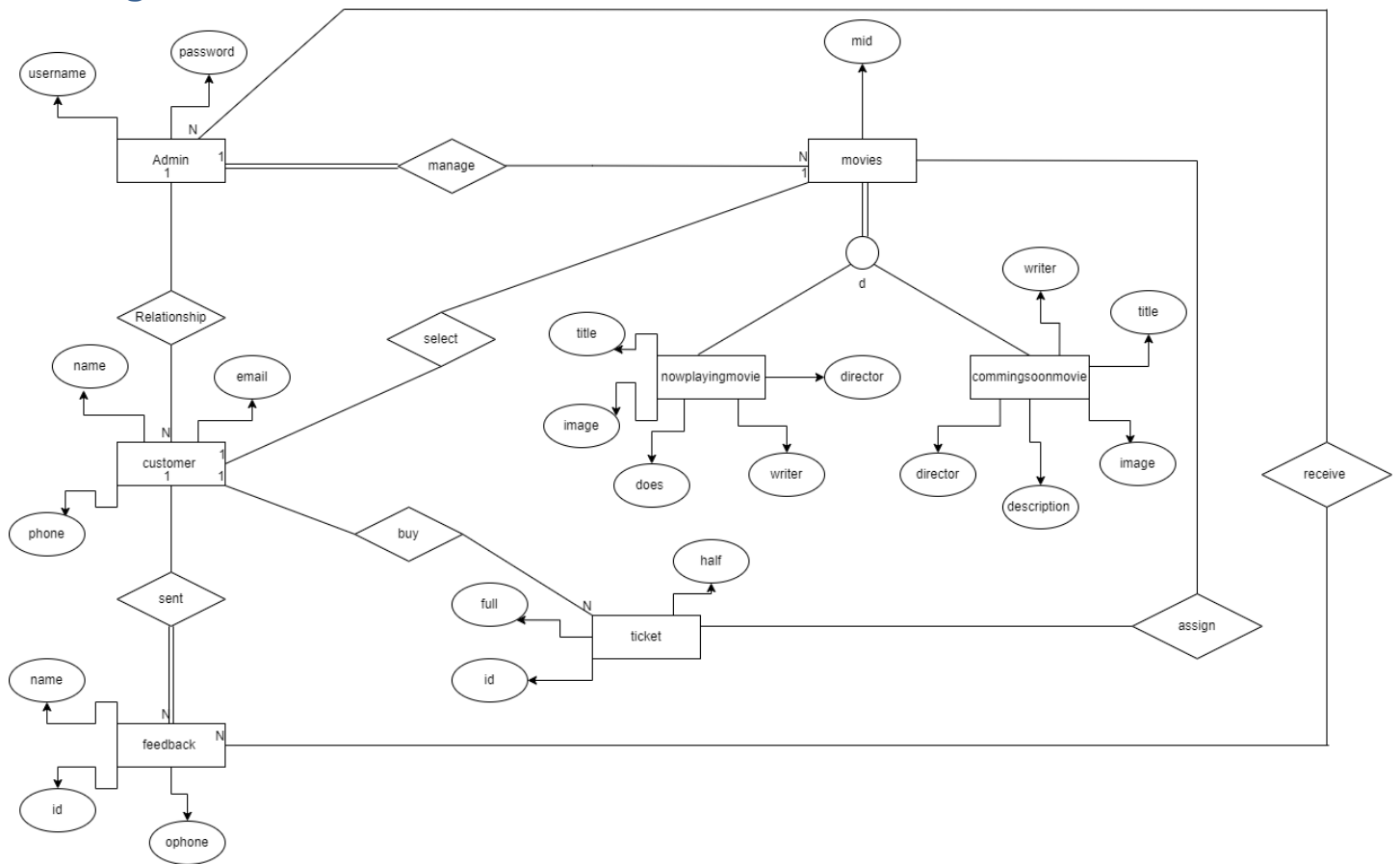
Class Diagram



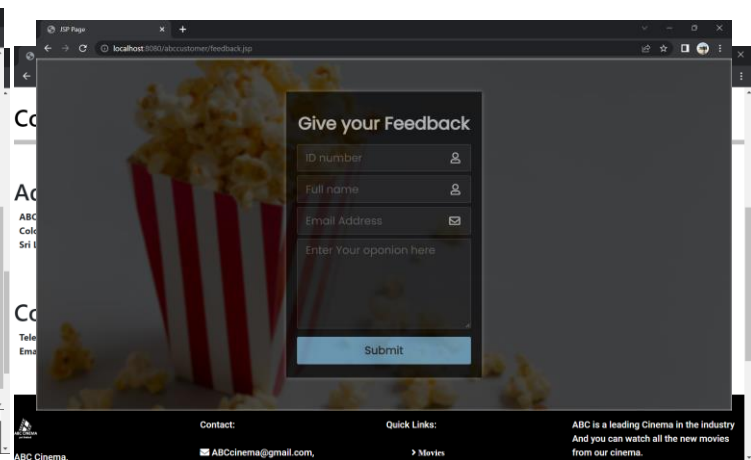
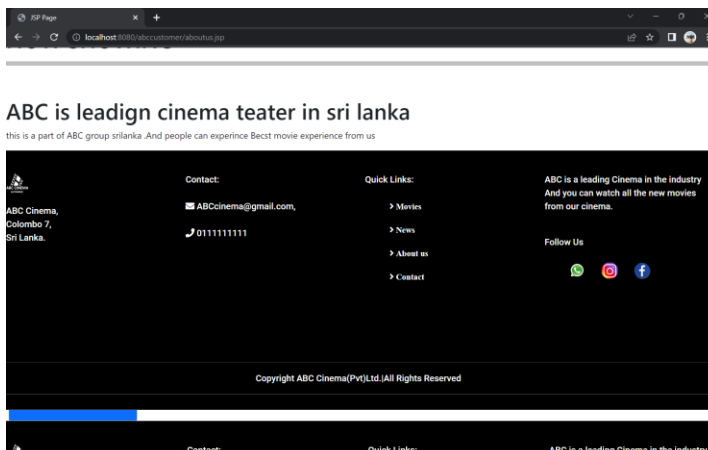
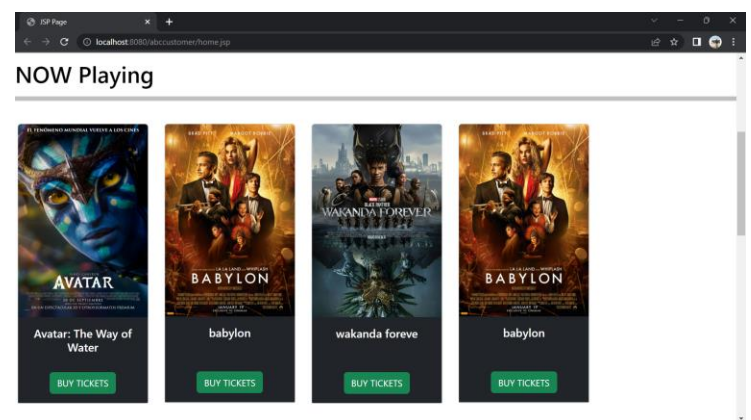
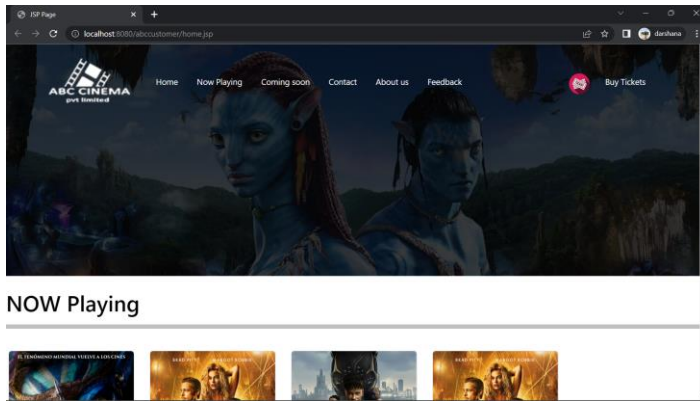
Sequence Diagram



ER Diagram



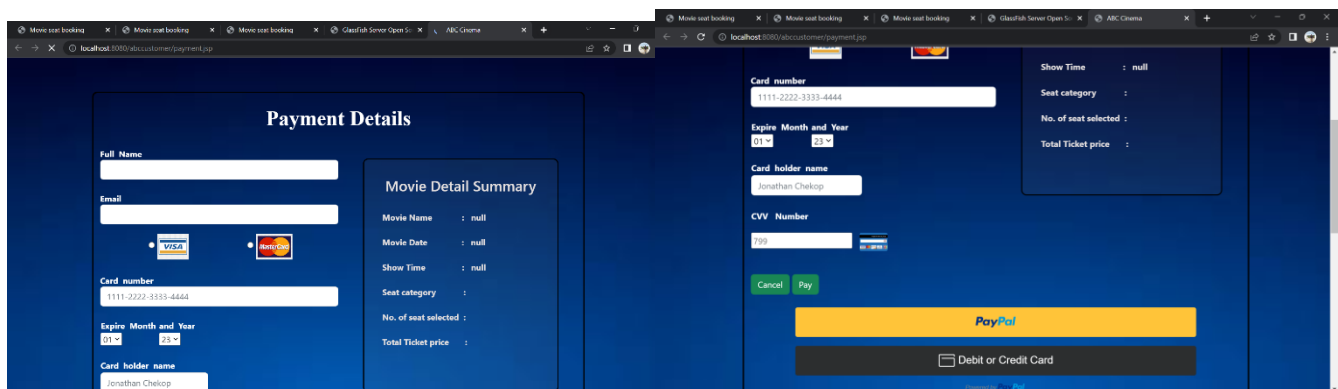
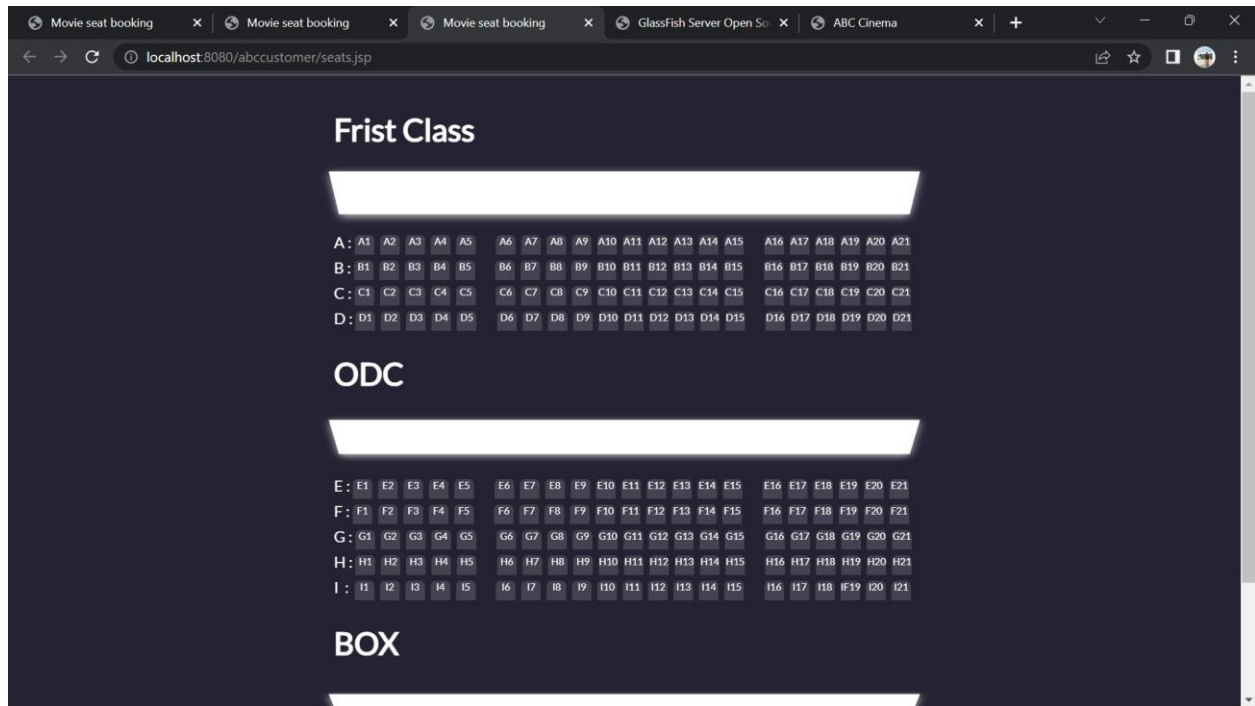
Front-End(User)



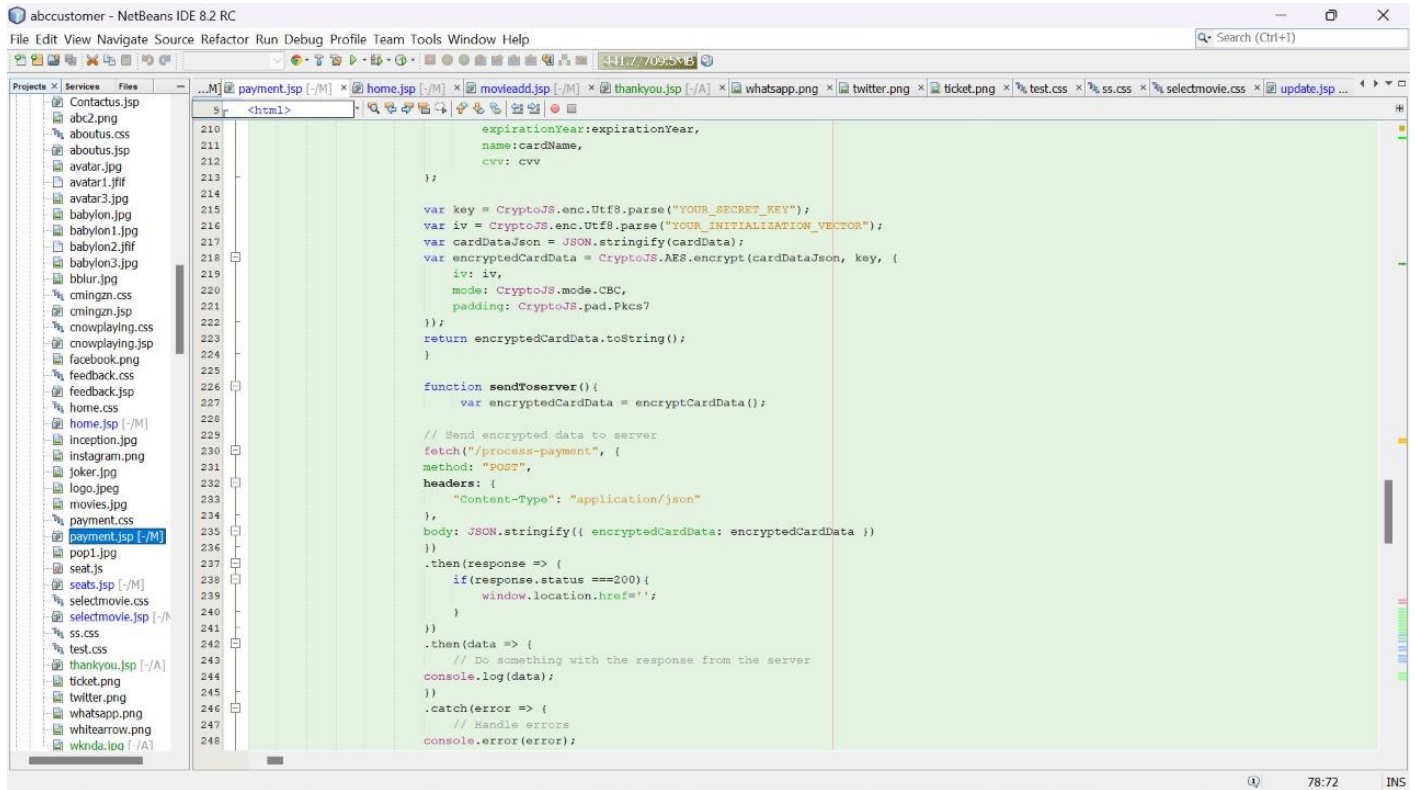
The above is the user side for browsing movies, they can search movies which are New and are Upcoming Soon

There is a Contact Us page for the customers to contact us in case of an emergency and an About Us.

As soon as there is a payment made, feedback will be collected to further improve the website



The above images show how the payments are recorded. The desired seats can be selected, and payment details are collected. Payment is sanctioned through PayPal and email notification will be sent once the payment is confirmed. The below codes are the Back-End Servlet coding for this process.



Front-End(Admin)

Dashboard Movies Movie Add Update Movie

NOW SHOWING MOVIES

Movie ID:

Movie Name:

Director Name:

Movie Hours:

Writer Name:

Movie ID:

Movie Description:

Movie Name:

UPCOMING MOVIES

Movie ID:

Movie Name:

Director Name:

Movie Hours:

Writer Name:

Movie ID:

Movie Description:

Movie Name:

Dashboard Movies Movie Add Update Movie

Movie ID: 1

Movie Title: Avatar: The Way of Water

Director :

Writer :

Description:

Dashboard Movies Movie Add Update Movie

NOW SHOWING MOVIES

Movie ID:

UPCOMING MOVIES

Movie ID:

Dashboard Movies Movie Add Update Movie

Movie ID: 1

Movie Title: Avatar: The Way of Water

Director :

Writer :

Dashboard Movies Movie Add Update Movie

NOW SHOWING MOVIES

Movie ID:

Movie Name:

Director Name:

Movie Hours:

Writer Name:

Movie Hours:

Description:

Movie hours:

Movie image:

Choose file: No file chosen

UPCOMING MOVIES

Movie ID:

Movie Name:

Director Name:

Movie Hours:

Writer Name:

Movie Hours:

Description:

Movie hours:

Movie image:

Choose file: No file chosen

Dashboard Movies Movie Add Update Movie

Earnings: ₹5,00.00 / Month

Seat booking: Seats: 100 / Month

Users: No of Users: 900 / Month

Progress of Movies:

Movie Title

This is the Admin Side, where the operations are taken care of.

New Movies can be Add/Modified by Admins Only.

Also, a page to monitor the sales of the booking system is added, where the total earnings, seats booked, and the number of user visits are recorded.

Conclusion

In conclusion, the ABC cinema website needs an upgrade to keep up with the current technological advancements in the film industry. The proposed upgrade, which includes features such as online ticket reservation, online payment processing, customer feedback visualization, and SMS or email notifications, will enhance the customer experience and aid the management team in making more informed decisions. The report has analyzed the current state of the website, the potential benefits of upgrading the website using JSP and Servlet technologies, and the steps required to implement these modifications. With the implementation of these new features, the ABC cinema website will be able to provide a more convenient and efficient service to its customers, ultimately leading to increased customer satisfaction and revenue for the business.