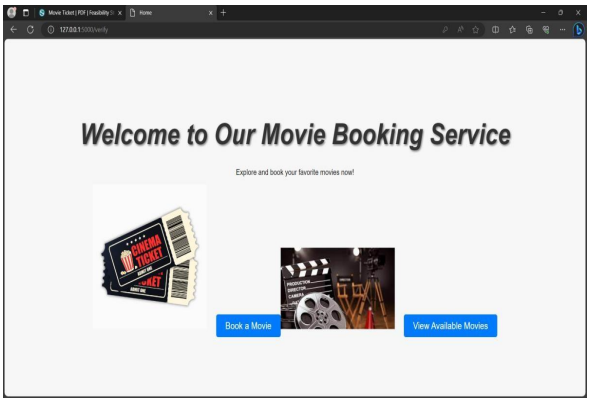
Sinhgad Institutes

Project Report On



“ Online Movie Ticket Booking System ”

Prepared By

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1.Preface

Summary of the Whole 4 Weeks' Work:

Over the course of the four-week internship, I engaged in a comprehensive exploration of the movie ticket booking system. This involved understanding the existing challenges, analyzing potential improvements, and implementing solutions. The project aimed to enhance the efficiency and user experience of the current system.

The Need for Relevant Internship in Career Development:

This internship has proven to be a crucial step in my career development, providing a real-world application of my academic knowledge. Through hands-on experience, I gained practical insights into industry practices, problem-solving skills, and effective collaboration within a professional setting. The internship not only expanded my technical proficiency but also allowed me to develop essential soft skills like communication, teamwork, and adaptability.

Brief About Your Project/Problem Statement about Movie Ticket Booking System:

The project focused on optimizing the movie ticket booking system. The existing system faced issues related to user interface efficiency, transaction processing speed, and overall user satisfaction. The goal was to streamline the booking process, reduce errors, and enhance the overall user experience. This involved improvements in system architecture, database management, and user interface design.

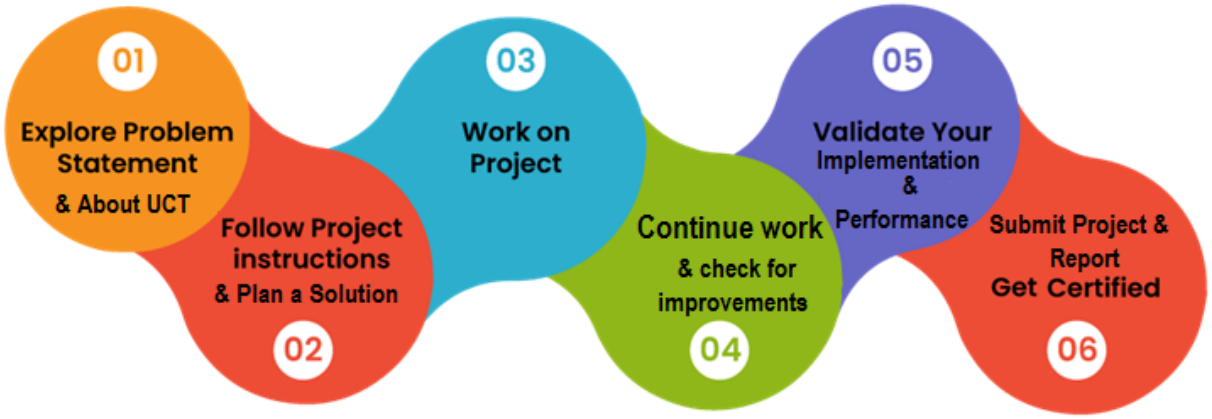
Opportunity Given by Upskill Campus/Unicoverage Technologies Pvt Ltd.:

Upskill Campus/Unicoverage Technologies Pvt Ltd. provided a unique opportunity to work on a real-world project, allowing me to apply theoretical concepts in a practical setting. The organization's commitment to innovation and professional growth created an environment conducive to learning and skill development. The mentorship and guidance received during the internship significantly contributed to the successful completion of the project.

How Program Was Planned:

The internship program was meticulously planned to ensure a structured and effective learning experience. It began with a comprehensive orientation, introducing interns to the organization's culture, values, and expectations. The project scope, goals, and deliverables were clearly defined. Weekly progress meetings and feedback sessions provided continuous support and guidance. The program also included training sessions, workshops, and opportunities for networking with professionals in the field.

This summary encapsulates the key aspects of the internship, highlighting its significance in career development, the focus on the movie ticket booking system, and the structured planning provided by Upskill Campus/Unicoverage Technologies Pvt Ltd.



Thank to all Upskill Campus/Unicoverage Technologies Pvt Ltd.who have helped you directly or indirectly.

2.Introduction

About UniConverge Technologies Pvt Ltd

A company established in 2013 and working in Digital Transformation domain and providing Industrial solutions with prime focus on sustainability and RoI.

For developing its products and solutions it is leveraging various **Cutting Edge Technologies e.g. Internet of Things (IoT), Cyber Security, Cloud computing (AWS, Azure), Machine Learning, Communication Technologies (4G/5G/LoRaWAN), Java Full Stack, Python, Front end** etc.

i. UCT IoT Platform (UCT Insight)

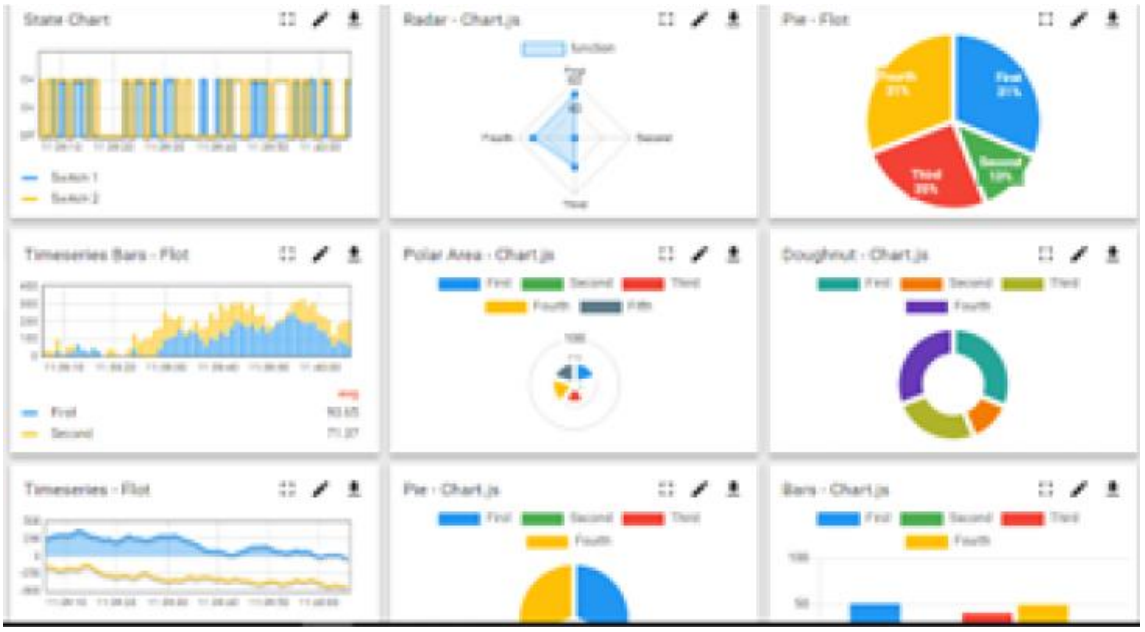
UCT Insight is an IOT platform designed for quick deployment of IOT applications on the same time providing valuable "insight" for your process/business. It has been built in Java for backend and ReactJS for Front end. It has support for MySQL and various NoSql Databases.

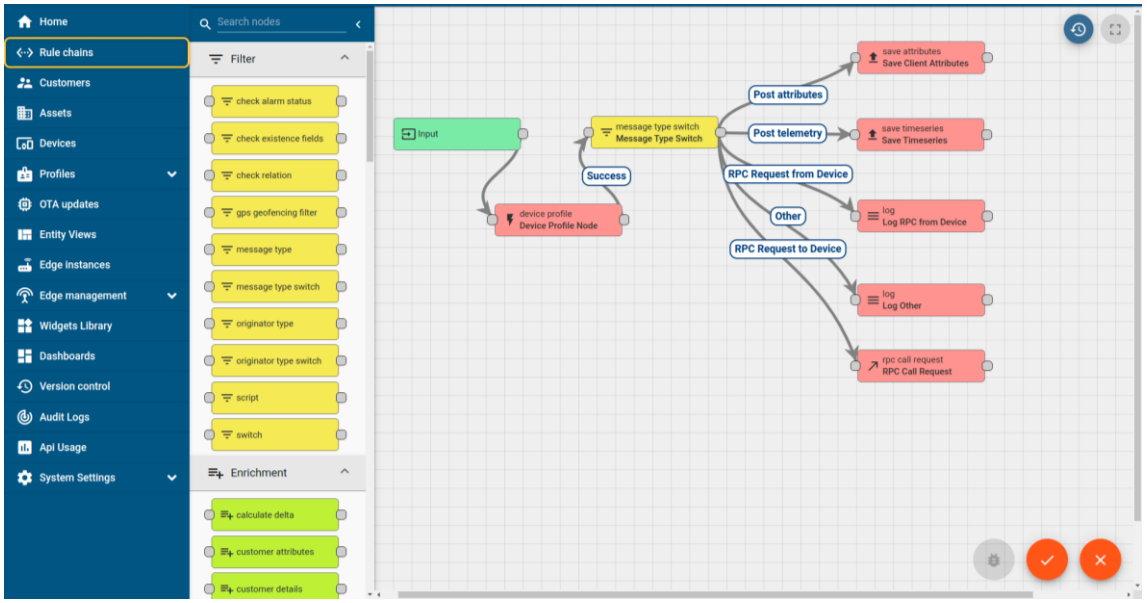
- It enables device connectivity via industry standard IoT protocols - MQTT, CoAP, HTTP, Modbus TCP, OPC UA
- It supports both cloud and on-premises deployments.

It has features to

- Build your own dashboard
- Analytics and Reporting

- Alert and Notification
- Integration with third party application (PowerBI, SAP, ERP)
- Rule Engine





ii. **Smart Factory Platform (** FACTORY WATCH **)**

Factory watch is a platform for smart factory needs.

It provides Users/ Factory

- with a scalable solution for their Production and asset monitoring
- OEE and predictive maintenance solution scaling up to digital twin for your assets.
- to unleased the true potential of the data that their machines are generating and helps to identify the KPIs and also improve them.
- A modular architecture that allows users to choose the service that they what to start and then can scale to more complex solutions as per their demands.

  Its unique SaaS model helps users to save time, cost and money.

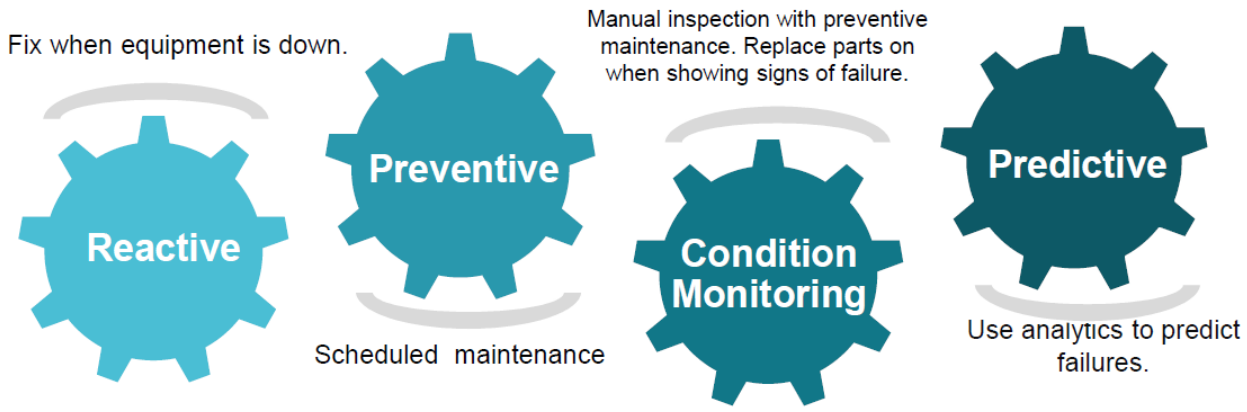
Machine	Operator	Work Order ID	Job ID	Job Performance	Job Progress		Output		Rejection	Time (mins)				Job Status	End Customer
					Start Time	End Time	Planned	Actual		Setup	Pred	Downtime	Idle		
CNC_S7_81	Operator 1	WO0405200001	4168	58%	10:30 AM		55	41	0	80	215	0	45	In Progress	i
CNC_S7_81	Operator 1	WO0405200001	4168	58%	10:30 AM		55	41	0	80	215	0	45	In Progress	i

iii. LoRaWAN based Solution

UCT is one of the early adopters of LoRAWAN teschnology and providing solution in Agritech, Smart cities, Industrial Monitoring, Smart Street Light, Smart Water/ Gas/ Electricity metering solutions etc.

iv. Predictive Maintenance

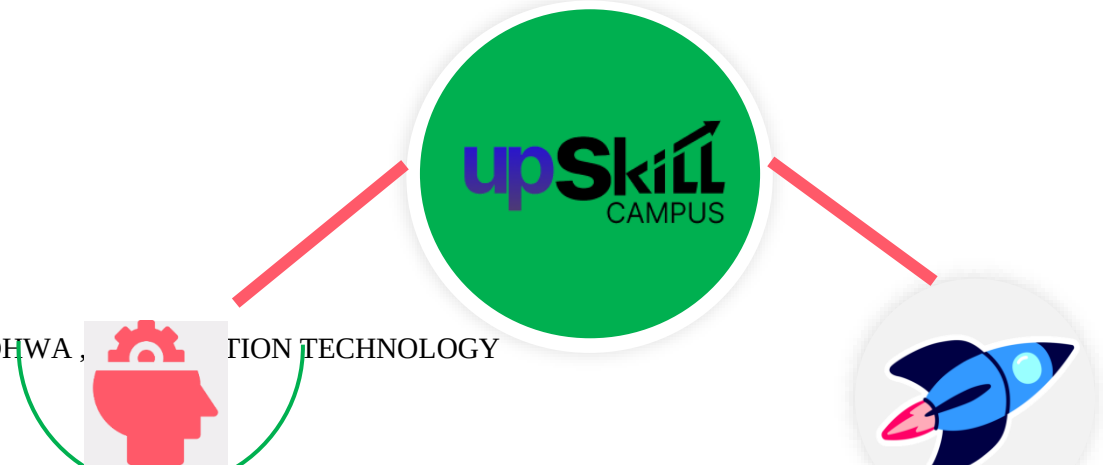
UCT is providing Industrial Machine health monitoring and Predictive maintenance solution leveraging Embedded system, Industrial IoT and Machine Learning Technologies by finding Remaining useful life time of various Machines used in production process.

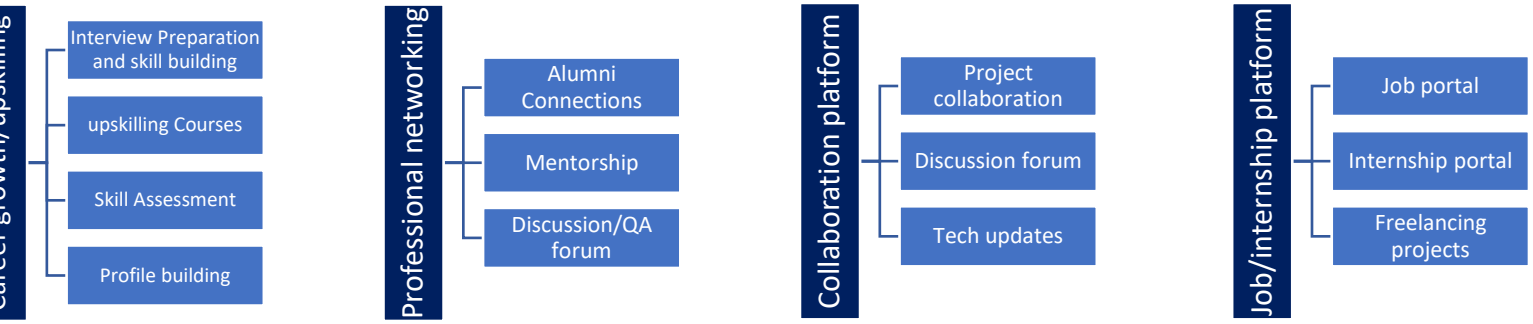


About upskill Campus (USC)

upskill Campus along with The IoT Academy and in association with Uniconverge technologies has facilitated the smooth execution of the complete internship process.

USC is a career development platform that delivers **personalized executive coaching** in a more affordable, scalable and measurable way.





The IoT Academy

The IoT academy is EdTech Division of UCT that is running long executive certification programs in collaboration with EICT Academy, IITK, IITR and IITG in multiple domains.

Objectives of this Internship program

The objective for this internship program was to

- ☛ get practical experience of working in the industry.
- ☛ to solve real world problems.
- ☛ to have improved job prospects.
- ☛ to have Improved understanding of our field and its applications.
- ☛ to have Personal growth like better communication and problem solving.

3.Problem Statement

This is a responsive website application. The project is named as “Online Movie Ticket Booking System. The Online Movie Ticket Booking System represents a pivotal transformation in the entertainment industry's technological landscape. In an era defined by digital innovation, the concept of purchasing movie tickets online has become an integral part of modern cinema experiences. This report delves into the development and implementation of an Online Movie Ticket Booking System, an innovative solution that leverages digital technologies to streamline and enhance the movie ticket reservation process.

Ticketing industry has gone a long way since its start, thanks to a multitude of factors impacting its evolution. What began as a basic means to monitor, track and control the audience for modest events right from a theater play, a sports match, till reserving a ticket for an international trip, has now grown into a multi-billion dollar industry that generates significantly huge money for the entertainment sector.

3.1 Purpose:

The purpose of this report is to provide a comprehensive understanding of the Online Movie Ticket Booking System, its significance, functioning, and impact on the entertainment industry. This report aims to inform readers, including students, researchers, industry professionals, and the general public, about the concept of online movie ticket booking systems, how they work, and why they are essential in the modern digital age. To emphasize the significance of online movie ticket booking systems in the context of convenience, accessibility, efficiency, revenue generation, customer engagement, and data utilization. The report will underscore their importance in enhancing the movie-going experience for both customers and theatre operators. That provide a historical overview of how online ticket booking systems have evolved over time, from their inception to the present day, encompassing the development of mobile apps, secure payment gateways, real-time seat selection, and multi-language support. It has

facilities of booking tickets. Selecting the movies, slots, and also adding of movies by admin sites.

3.2 Overview:

Products designed for real-world use by customers must undergo significant study, rigorous testing, and adherence to a variety of other standards and regulations to ensure that expectations are satisfied and that they work properly in a large-scale setting. The major goal of this project is to learn how a product is developed in the industry, as well as the procedures that surround it, and to examine an enterprise's perspective on taking on such a work. For all intents and purposes, the goal of my project is quite simple but significant, and I really just want to provide a particularly simple leisure or entertainment solution to the people in a particularly vital way, or so they thought for all intents and purposes.

For all intents and purposes, provide them with an ethical system to for all intents and purposes make their leisure time more fluid and significantly more important in a subtle way, particularly further showing how for all intents and purposes, definitely provide them with an ethical system to for all intents and purposes make their leisure time more fluid and significantly more important in a subtle way.

4. Existing and Proposed Solution

4.1 Scope of Project:

The scope of an Online Movie Ticket Booking System encompasses various aspects, from its purpose and features to its target audience and potential for expansion. Here is a detailed scope of such a system User Registration and Login: Allow users to create accounts and log in to the system. Movie Listings: Display a list of available movies, including details such as title, synopsis, show times, and theatres. Seat Selection: Enable users to choose their preferred seats within the theatre. User Reviews and Ratings: Allow users to provide feedback and ratings for movies they've watched. Admin Panel: Provide administrators with the ability to manage movies, show times, and user accounts.

Accessibility: Ensure the system is user-friendly and accessible to a wide range of users, including those with disabilities. Moviegoers who prefer the convenience of booking tickets online.

Theatre owners and managers who want to digitize their ticket booking process.Film distributors and studios looking to promote and sell tickets for their movies.

The scope of an Online Movie Ticket Booking System can vary based on the specific project's objectives and requirements. It's essential to define the scope clearly at the outset to guide the development process and ensure that the system meets the intended goals.

4.2 Limited to:

1. Not all entries can be done manually.
2. No payments.
3. Admin must have to add movies manually.
4. Not quick learner identification.

4.3 Code Submission (Github Link) ;

https://github.com/yashc678/upskillCampus.git

4.4 Report Submission Link :

https://github.com/yashc678/upskillCampus.git

5. Feasbility Study

We welcomed the customer and make him feel is important for our company, the customer comes to make deal for online ticket booking , we should ask them for their requirements of number of seats and also for their choice of movie and show timing . Then after that we show the customer our online ticket and ask his availability and ask to choose his favorite and tell him advantages, after that make a deal and send all the reports to manager.

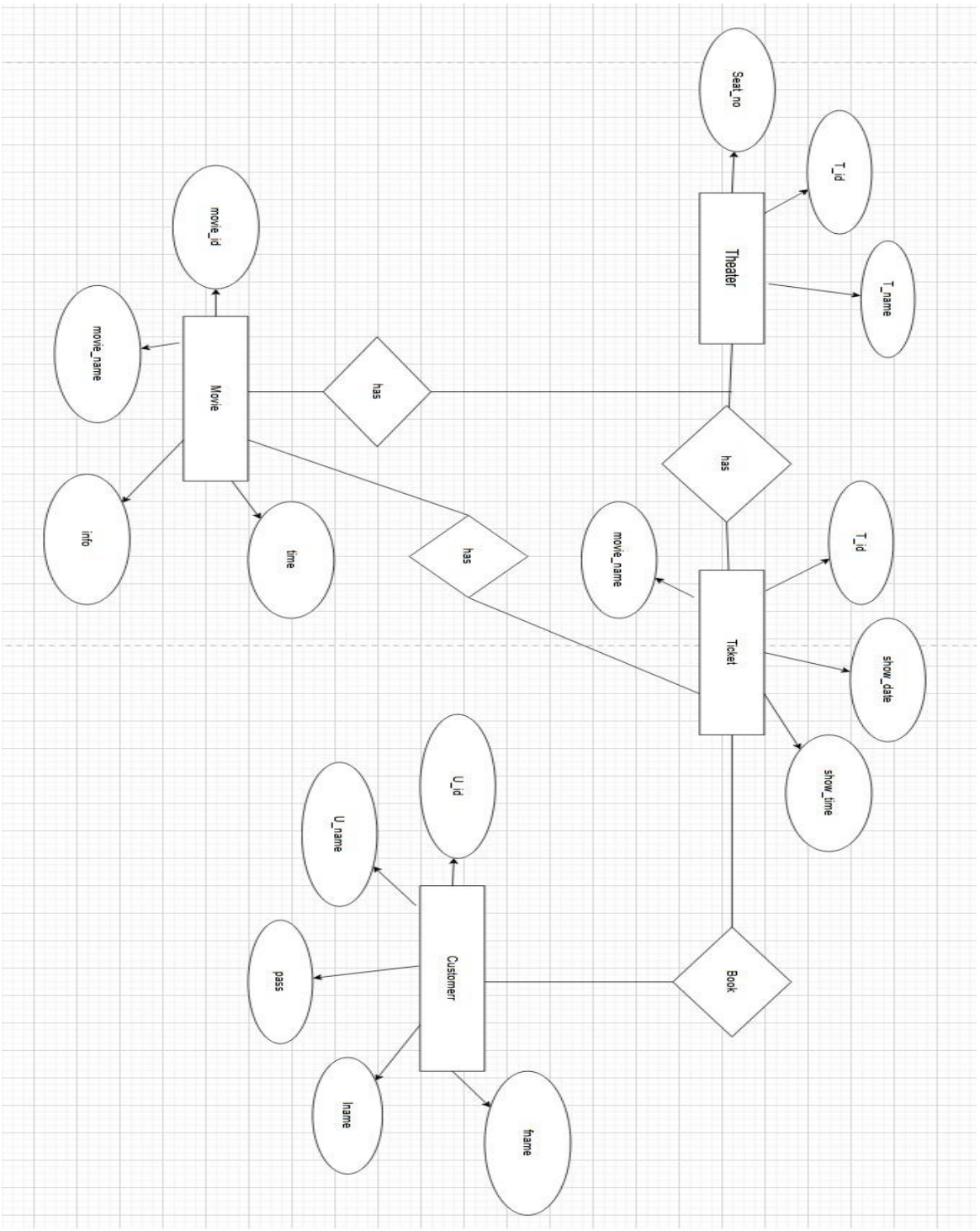
5.1 Research objective of the study:

The following are some of the proposed research objectives of the study:

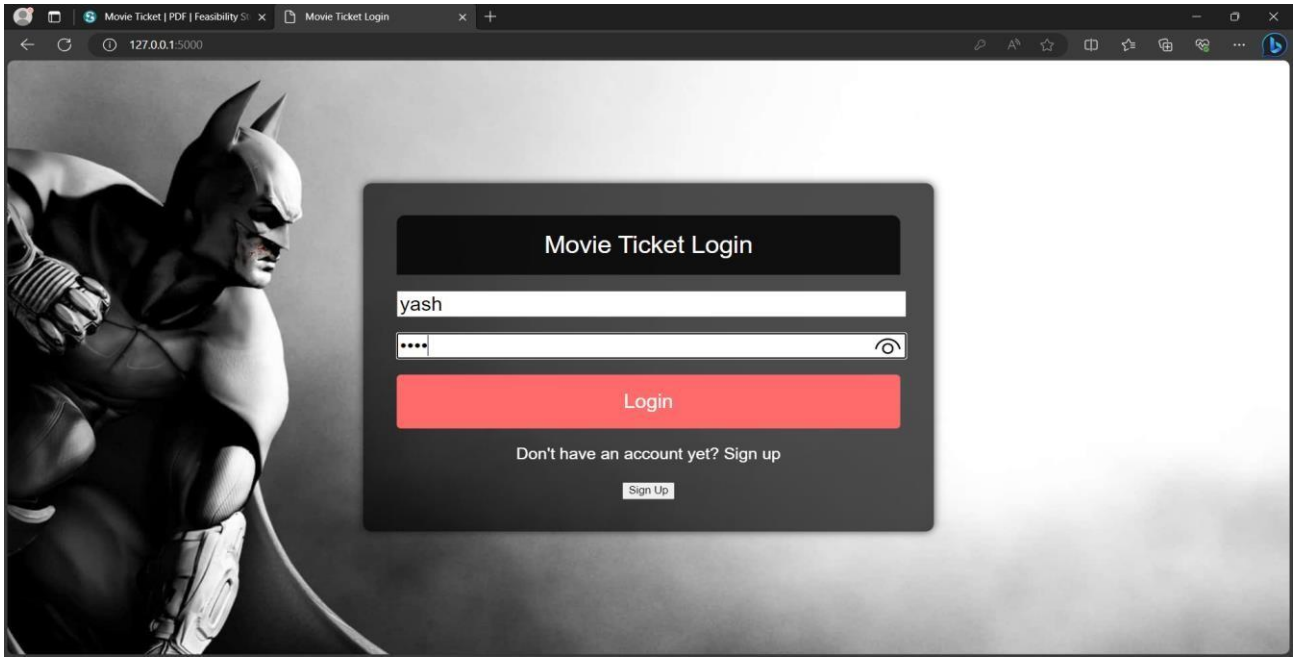
1. Products designed for real-world use by customers must undergo significant study and adherence to a variety of other standards and regulations to ensure that expectations are satisfied and that they work properly in a large-scale setting.
2. The goal of my project is quite simple but significant, and I really just want to provide a particularly simple leisure or entertainment solution to the people in a particularly vital way
3. To identify key factors, which influence the successful implementation of customer. To understand the impact of customer behaviour on booking tickets by using website system.
4. To as certain the manpower demand with respect to the skill requirements in this sector.
5. To establish the future training needs in this sector for the administrative and customer.

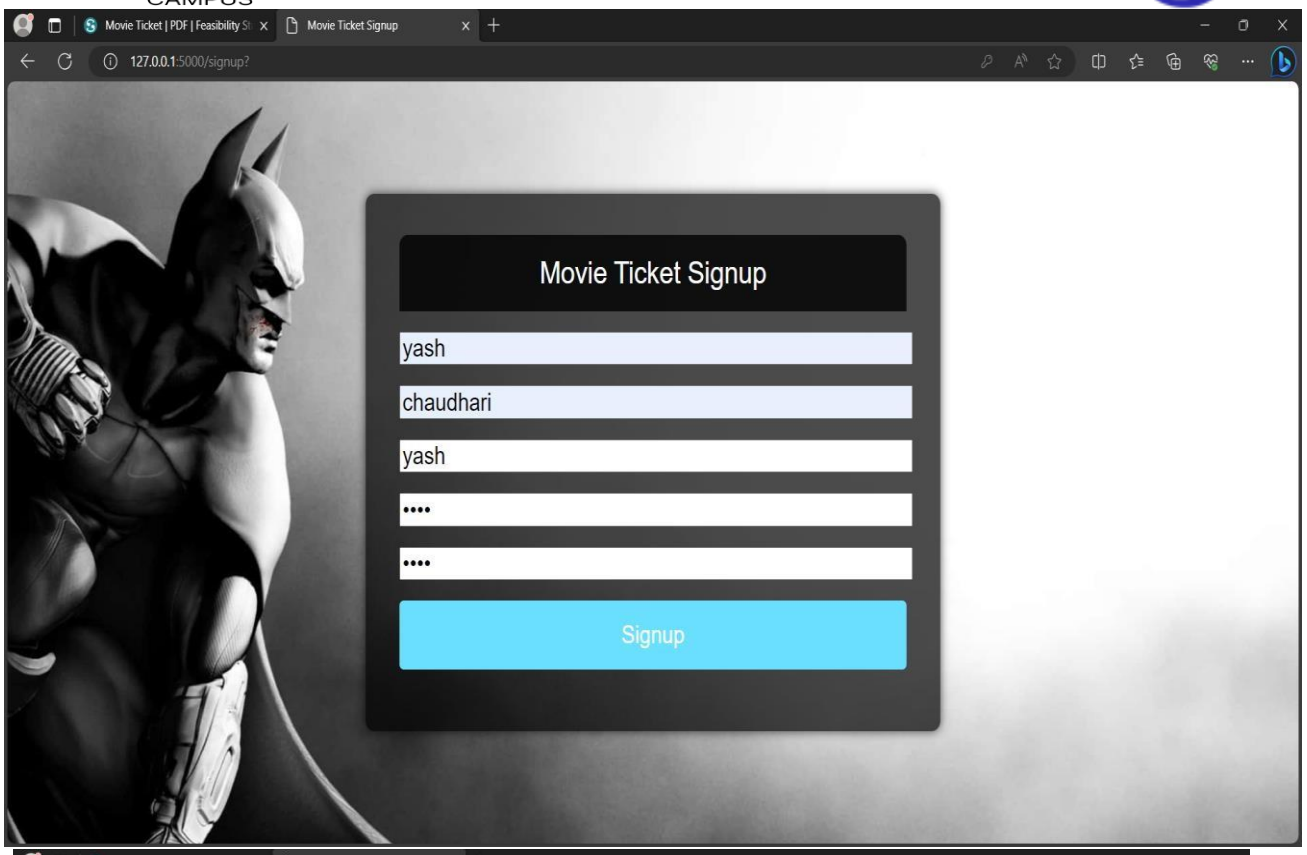
6.Proposed Design

6.1 High Level Diagram



6.2 Interfaces

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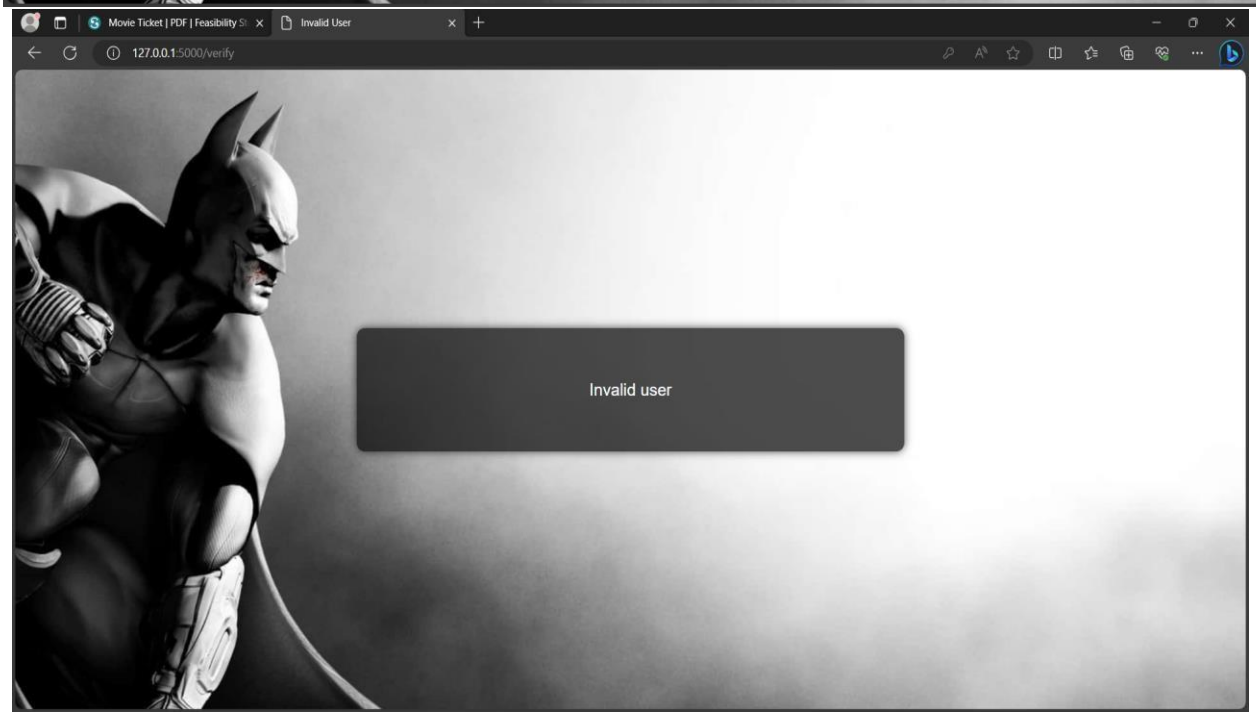
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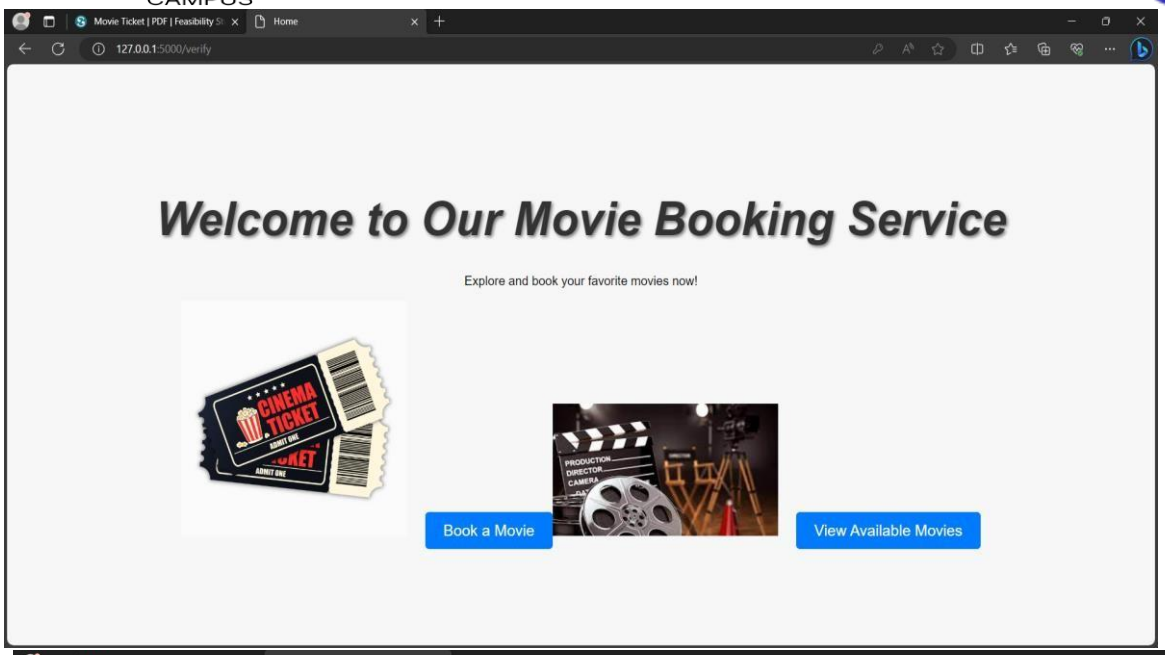
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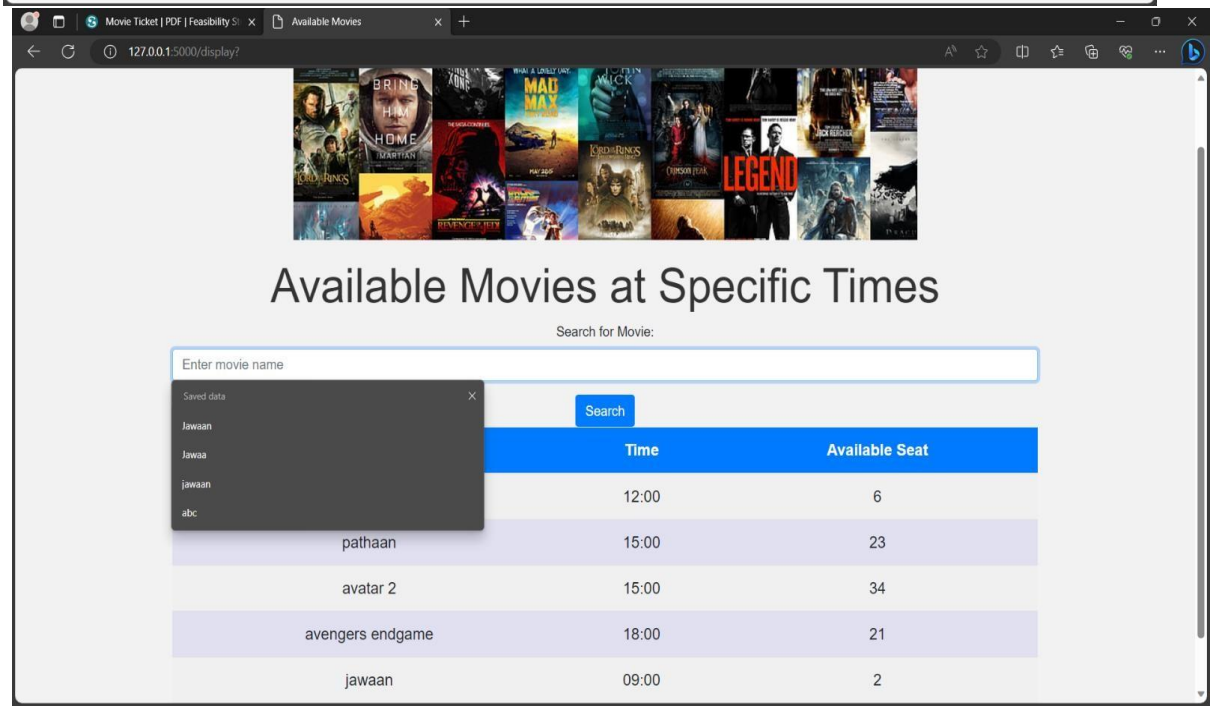
Book a Movie
View Available Movies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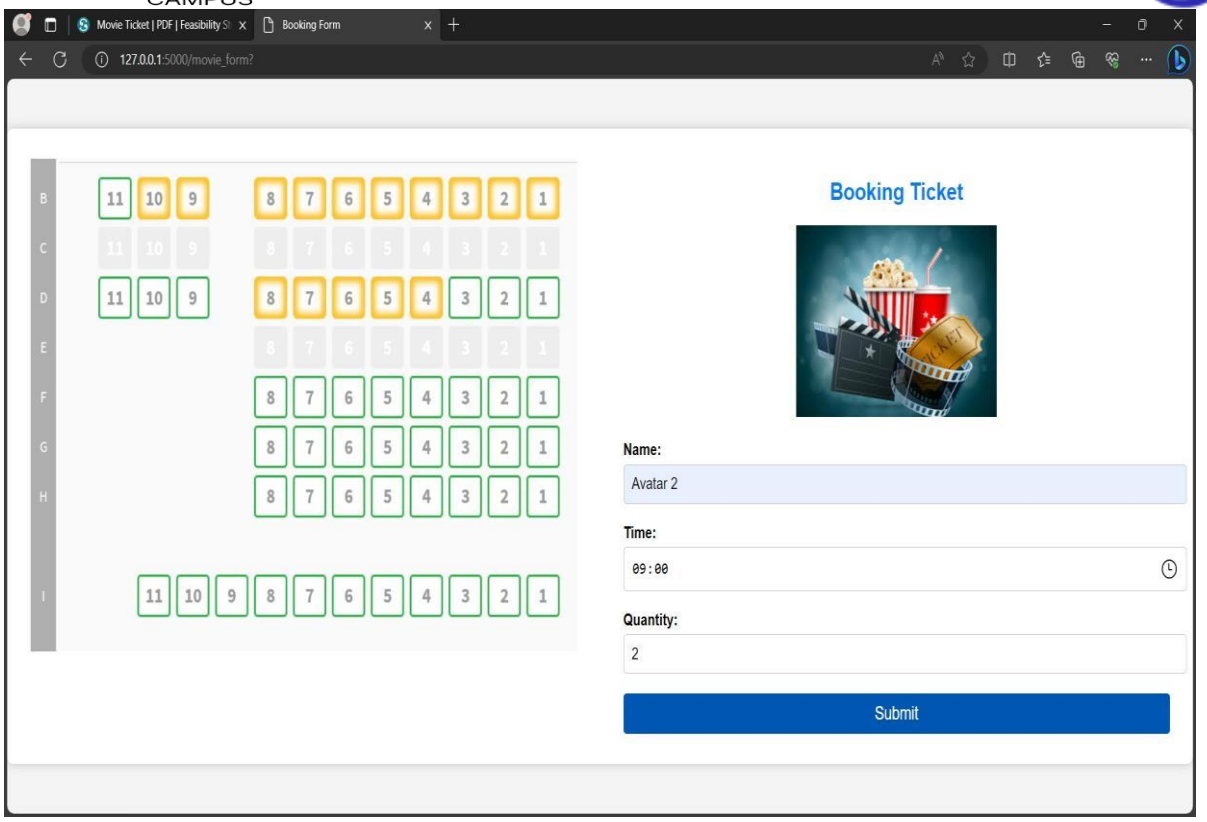

7.Performance Test

In the realm of real industries, the performance testing of a system becomes paramount, ensuring it can withstand real-world demands. This section delves into the identification of constraints, their consideration in the design, and the outcomes of the performance tests conducted on the movie ticket booking system.

7.1 Test Plan/Test Cases:

Identification of Constraints:

Constraints were identified across multiple dimensions to comprehensively assess the system's performance. These included:

- **Memory:** Examining the system's memory usage under various load scenarios.
- **MIPS (Million Instructions Per Second):** Assessing the speed and operations per second capability of the system.
- **Accuracy:** Ensuring the precision and correctness of data processing and transactions.

- **Durability:** Assessing the system's resilience over prolonged periods of operation.
- **Power Consumption:** Evaluating the system's energy efficiency during peak usage.

Test Cases:

For each identified constraint, specific test cases were developed. These cases simulated scenarios that could potentially strain the system, such as peak booking times, simultaneous transactions, and extended periods of operation.

7.2 Test Procedure:

Execution of Test Plan:

The test plan was executed systematically. Various tools were employed to simulate high load conditions and stress the system. The test cases were implemented in controlled environments to analyze the system's behavior under different constraints.

Real-world Simulation:

To ensure real-world relevance, simulations mimicked actual usage patterns, considering peak hours, sudden spikes in demand, and sustained periods of operation.

7.3 Performance Outcome:

Results around Identified Constraints:

- **Memory:** The system demonstrated efficient memory management, with memory usage remaining within acceptable limits even during peak load.
- **MIPS:** The system exhibited satisfactory speed and operations per second, meeting the expected performance standards.
- **Accuracy:** Transactions were processed with a high level of accuracy, with minimal errors or discrepancies.
- **Durability:** The system displayed resilience over extended periods, sustaining optimal performance without degradation.
- **Power Consumption:** The system demonstrated reasonable power efficiency, aligning with environmental and cost considerations.

Impact Analysis and Recommendations:

In cases where identified constraints could potentially impact the design, mitigation strategies were considered. For example, if memory constraints were observed, optimizing code and data structures was recommended. If power consumption was high, suggestions included exploring energy-efficient algorithms or hardware upgrades

8. My Learnings

8.1 Challenges and problem areas

(i) Safety & Security: In spite of many marketing commitments from different operators, still the safety and security of learners is a big challenge to be fulfilled.

(ii) Keeping all Records: it is mandatory to every club to keep knowledge of all learners as well as employees. Not only their personal information but also batch details, payment details these are also needed to be keep well and safe for the sake of both club and the learners.

(iii) Managing the batches: It is becoming extremely challenging because people are become busy they have to manage work so the managing batches according to a standard are the great solution for fulfilment of both sides.

9.Future Scope

As technology continues to advance, and the entertainment industry evolves, the Online Movie Ticket Booking System project offers several avenues for future development and enhancements. In this section of the report, we will discuss the potential areas of growth and improvement for the system. With the proliferation of smartphones and mobile apps, developing a dedicated mobile application can be a significant enhancement. Users could have a more seamless and convenient experience, including features like push notifications, location-based services, and in-app promotions. Utilizing data analytics and machine learning can enhance the system's capabilities. By analysing user preferences and , the system could provide personalized movie recommendations, targeted promotions, and optimized pricing strategies. Users could explore theatre layouts , view trailers in a virtual cinema, or engage with interactive content related to the movies they plan to watch. Integrating with emerging payment technologies, such as digital wallets and cryptocurrencies, can broaden the range of payment options and enhance security.

Incorporate social media integration to allow users to share their movie plans, reviews, and ratings, creating a community around the system. Implement voice assistants and natural language processing to enable users to interact with the system using speech, making it more accessible and user-friendly. To cater to a global audience, expand language support and include the option to display prices in multiple currencies. Continuously update and enhance security protocols to protect user data, including payment information and personal details. Leverage AI and data analysis to detect and prevent ticket scalping and fraud, ensuring fair access to tickets for all users.

10.Conclusion

The future scope and enhancement of the Online Movie Ticket Booking System are vast and exciting. By staying attuned to emerging technologies and user expectations, this system can continue to transform the movie ticket booking experience, providing greater convenience, personalization, and engagement for users while also benefiting movie theaters and studios. Summarize the main points discussed in the project overview and reiterate the importance and relevance of the online movie ticket booking system. The project's success lies in its ability to adapt, evolve, and embrace innovative solutions as they arise in the dynamic entertainment industry.

11.References

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