Web Engineering Project Report
On
Movie Ticket Booking System

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CERTIFICATE

Certified that this is a bonafide record of the project work titled

MOVIE TICKET BOOKING SYSTEM
Done By:
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of VI semester B.tech in the year 2022 in

partial fulfillment of the requirements for the award of Degree of

Bachelor of Technology

Upendra Sir
Project Guide

ACKNOWLEDGEMENT

We take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. We extend our sincere and heartfelt thanks to our esteemed guide, **Upendra Sir**, for providing us with the right guidance and advice at the crucial junctures and for showing me the right way . We would like to thank our friends and family for the support and encouragement they have given us during the course of our work.

TABLE OF CONTENTS

Abstract

Movie ticket Booking System is a system which maintains the info about the movies and allow user to book tickets from available movies and respective show time .This eases the process to book tickets manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of movies tickets booking becomes much simple. The Online ticket booking has been designed to computerize and automate the operations performed over the information about the movies ,show time and returns and all other operations. This helps in many instances of theatre maintenances. It reduces the workload of management as most of the manual work done is reduced like adding movies and shows.

INTRODUCTION

This chapter gives an overview about the aim , objectives ,background and operation environment of the system.

. PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- An Admin login page where admin can add movies and shows.
- An user page where user can book tickets ,select movie site, explore movies and check show time for movies.

.2 BACKGROUND OF PROJECT

The project objective is to book cinema tickets in online. 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 reserve the tickets. This online ticket reservation system provides a website for a cinema hall where any user of internet can access it and book Tickets which can be collected at the counter and Watching movies with family and friends in theatres is one of the best medium of entertainment after having a hectic schedule. But all this excitement vanishes after standing in hours in long queues to get tickets booked. The website provides complete information regarding currently running movies on all the screens with details of show timings, available seats. Our online tickets reservation system is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues. People can book tickets online at any time of day or night. Our reservation system also provides option to cancel the tickets which are reserved previously.

PROCESSOR	INTEL CORE PROCESSOR FOR BETTER PERFORMANCE
OPERATING SYSTEM	WINDOWS ,WINDOW 0, UBUNTU
MEMORY	GB RAM OR MORE
USAGE HARD DISK	MINIMUM 20 GB FOR DATABASE SPACE FUTURE
DATABASE	MY SQL

SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Online Movie ticket Booking System including software requirement specification (SRS) and comparison between existing and proposed system . The functional and non functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

2. SOFTWARE REQUIREMENT SPECIFICATION

2.1 GENERAL DESCRIPTION

Online Movie ticket Booking System is a computerized system which helps user to manage themovies and shows in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming.It can help user to manage the transaction or record more effectively and time-saving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

- File lost When computerized system is not implemented file is always lost because of human environment.Some times due to some human error there may be a loss of movie records,show time info.
- File damaged When a computerized system is not there file is always lost due to some accdent like spilling of water by some member on file accidentally.
- Difficult to search record
  When there is no computerized system there is always a difficulty in searching of records of seat Availability the records are large in number .

- Space consuming

  After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

- Cost consuming

  As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of theatre.

2.2 SYSTEM OBJECTIVES

- Improvement in control and performance

The system is developed to cope up with the current issues and problems of ticket booking.

.The system can add movie, add shows and is also bug free.

- Save cost

After computerized system is implemented less human force will be required to maintain the ticket booking thus reducing the overall cost.

- Save time

Theatre admin is able to search movie by using few clicks of mouse and few search keywords thus saving his valuable time.

2.3 FUNCTIONAL REQUIREMENTS

1. ADMIN LOGIN

Description of feature

This feature used by the admin to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

-user id and password provided by theatre authorities.

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can acess to.

1.ADD NEW MOVIES

Description of feature

Only admin can add new movies.

Functional requirements

-System must be able to view add movies.

-System must be able to access information for further pricing and booking of ticket.

2.ADD NEW SHOWS

This feature allows to add new shows for particular movie id.

2. USER

.3 EXPLORE MOVIES

Description of feature

This feature allows to view movies available.

Functional requirements

-System must be able to show information about movies .
- System must be able to not allow booking of tickets.

.4 VIEW SHOWS

This feature allows to view details of all the books .

.5 BOOK TICKETS

This feature allows to book tickets to user .

.6 VIEW PRICING FOR MOVIES

This feature allows to view price for selected movies;

.7 SELECT SEATS

This feature allows to chose seats and shows available and booked seats;

2..4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

SOFTWARE REQUIREMENTS

- Operating system- Windows is used as the operating system as it is stable and supports more features and is more user friendly

- Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

- Development tools and Programming language- HTML is used to write the whole code and develop webpages with css, java script ,bootstrap for styling work and JSP for sever side scripting.

HARDWARE REQUIREMENTS

Intel core i3 7^{th} Gen generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor we can keep on developing our project without any issues.
Ram 4GB is used as it will provide fast reading and writing capabilities and will in turn support for further processing

Existing System:

- Ticket Booking usually is managed manually. It required lot of time to record or to retrieve the details. The employees who have to record the details must perform their job very carefully. Even a small mistake would create a lot of problems. Security of information is very less. Report generations of all the information is very tough task.
- Maintenance of movie catalogue and arrangement of the shows to the catalogue is very complex task. In addition to its maintenance of movie details, show time and price etc. manually is a complex task.
- All the operations must be performed in perfect manner for the maintenance of the ticket booking with out any degradation which may finally result in the failure of the entire system.

Proposed System:

To solve the inconveniences as mentioned in the existing system, an **Online Movie Ticket Booking** is proposed. The proposed system contains the following features:

- The admin can add movies
- Movie details genre, rating of movies totally maintained by admin, shows their start time, end time, movie id ,price etc. all this information can be made handy.
- Regarding the shows, movies available for booking.
- Admin can add the shows.
- Time consuming is low, gives accurate results, reliability can be improved with the help of security.

2.3 SOFTWARE TOOLS USED

The Project is divided in two parts the front end and the back end.

Front end

The front end is designed using of **HTML, CSS, JavaScript**.

HTML- **HTML**or**Hyper Text Markup Language**is the main markuplanguage for creating web pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h> and </h>, although some tags represent *empty elements* and so are unpaired, for example <img>. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

CSS- Cascading Style Sheets(CSS) is a style sheet language used fordescribing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML , the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification. of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design).CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called *cascade*, priorities or *weights* are calculated and assigned to rules, so that the results are predictable.

JAVA SCRIPT- JavaScript(JS) is a dynamic computer programminglanguage. It is most commonly used as part of web browsers, whose implementations allow clientside scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from the Self and Scheme programming languages. It is a multiparadigm language, supporting object-oriented, imperative, and functional programming styles. The application of JavaScript to use outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant. Newer and faster JavaScript VMs and platforms built upon them (notably Node.js) have also increased the popularity of JavaScript for server-side web applications. On the client side, JavaScript was

traditionally implemented as an interpreted language but just-in-time compilation is now performed by recent (post-202) browsers.

JSP :

- JSP is a technology which is used to create a web application.
- JSP stands for *Java Server Pages*, one of the main feature of JSP is to allow Java code to be added in between your HTML code.
- JSP is to easily allow us to connect our website with the database, so that we can send the data entered by each user to a database and read it back from database, when required.
- JSP is a web component that is deployed on the server to create a dynamic web page

MYSQL:

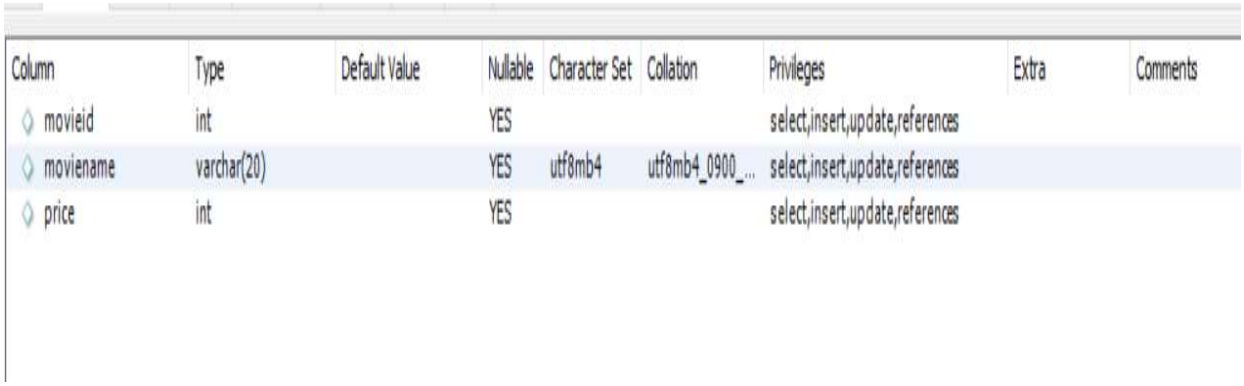
- MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.
- A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

SYSTEM DESIGN

TABLE DESIGN

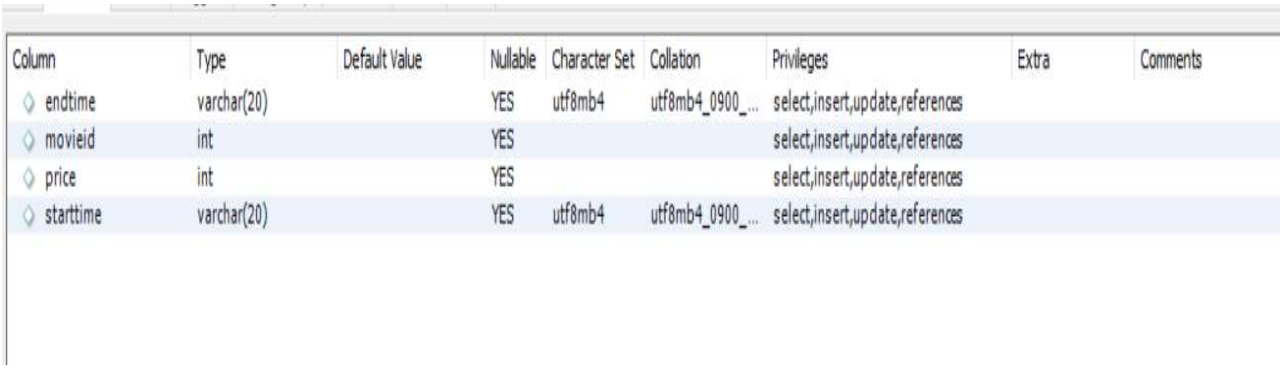
VARIOUS TABELS TO MAINTAIN INFORMATION

Movie Table from Database



Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra	Comments
movieid	int		YES			select,insert,update,references		
moviename	varchar(20)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
price	int		YES			select,insert,update,references		

Show table form Database



Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra	Comments
endtime	varchar(20)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
movieid	int		YES			select,insert,update,references		
price	int		YES			select,insert,update,references		
starttime	varchar(20)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		

Admin credentials Table from Database to validate login

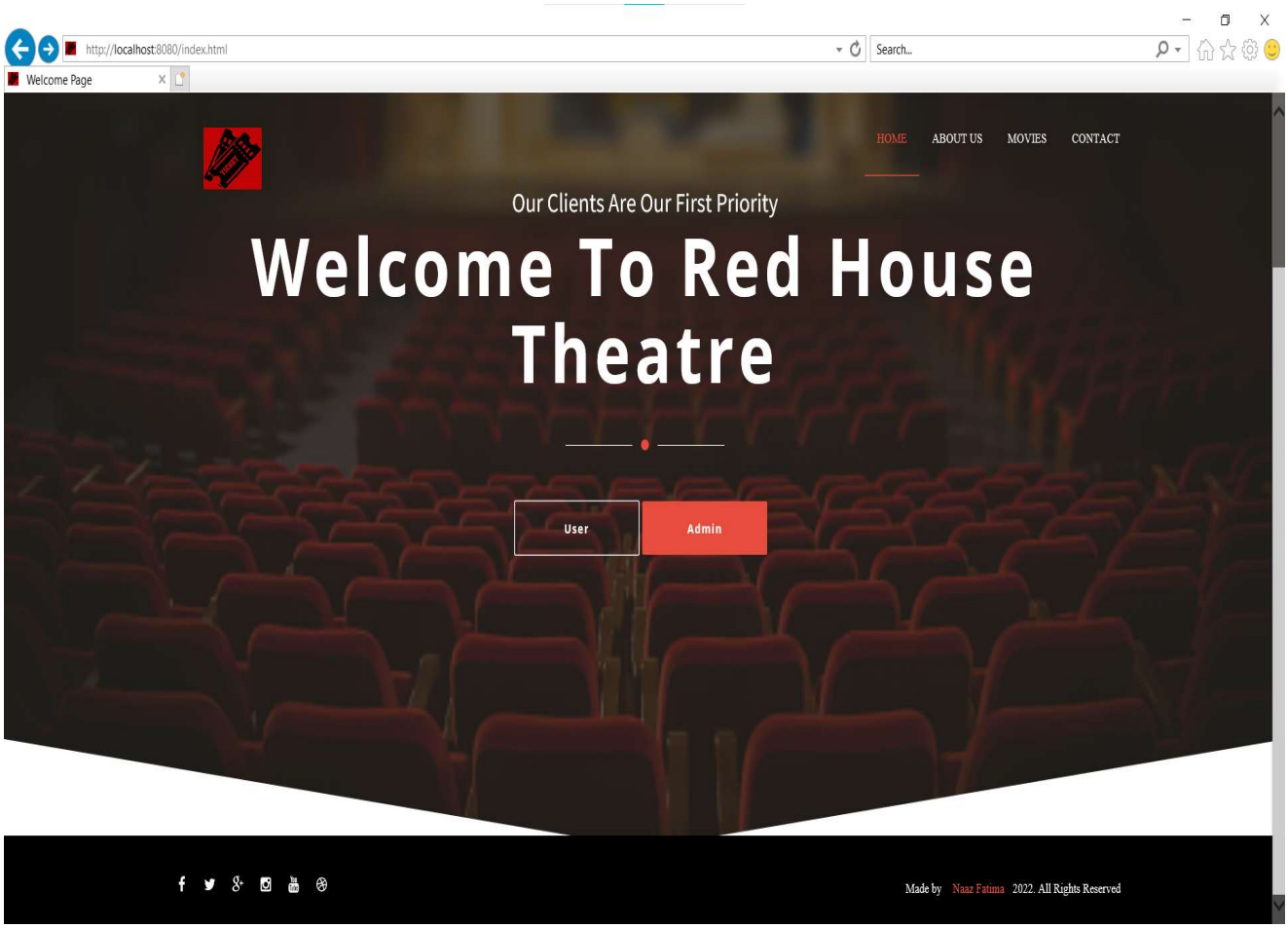
Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra	Comments
arole	varchar(20)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
password	varchar(20)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
userid	int		YES			select,insert,update,references		

Contact Table from Database for storing query

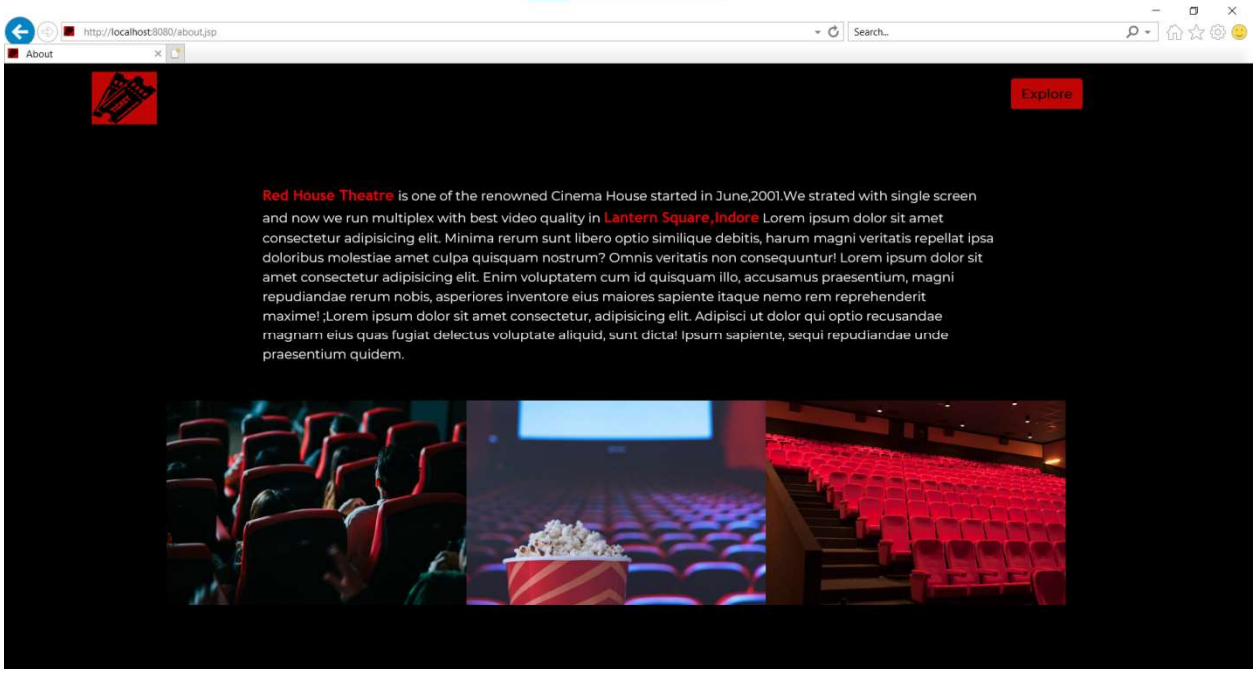
Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra	Comments
mail	varchar(40)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
name	varchar(40)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
query	varchar(80)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		

SYSTEM IMPLEMENTATION

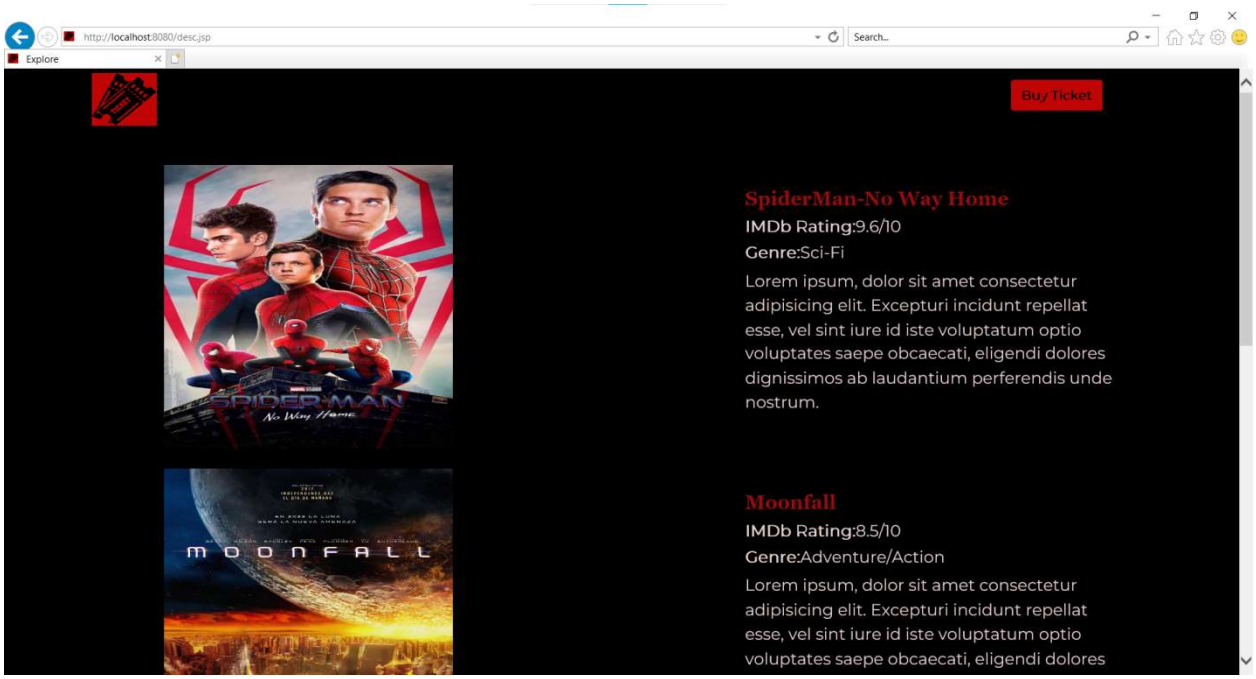
Main Page



About US Page

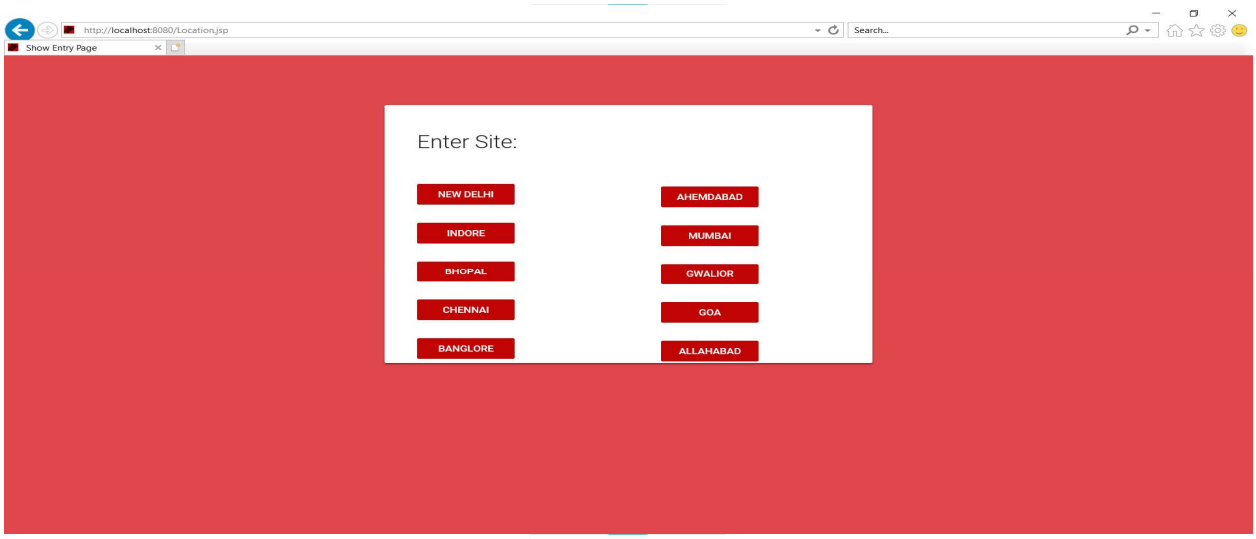


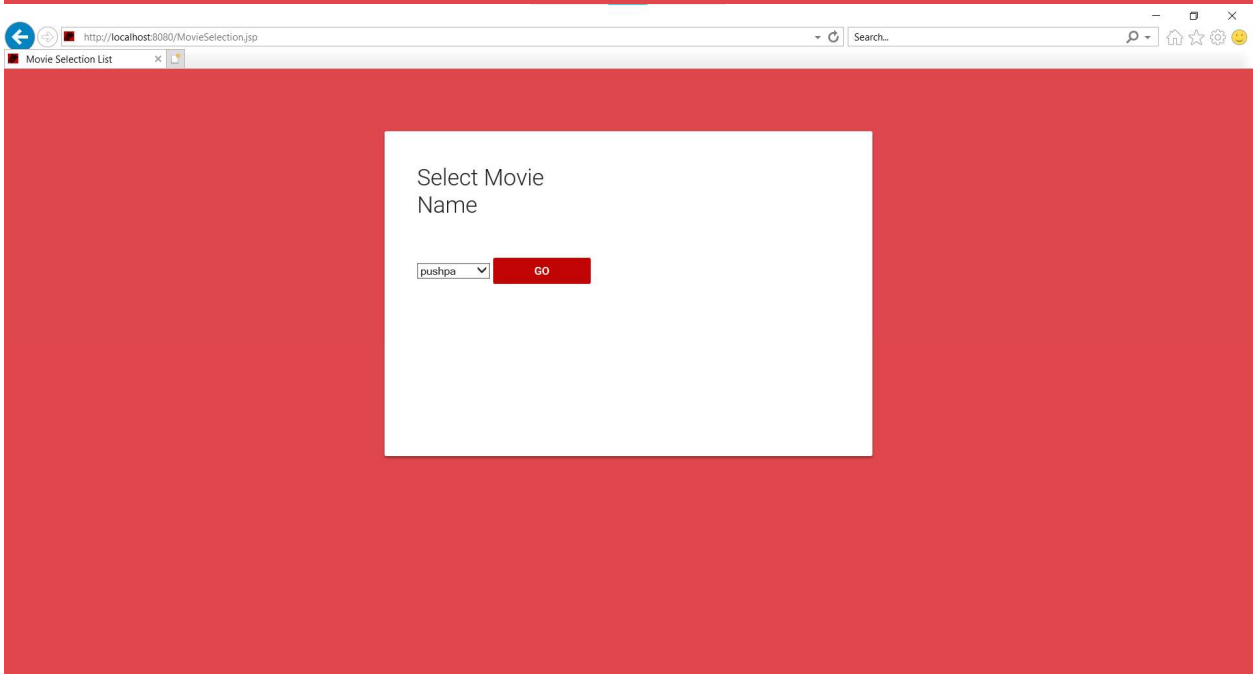
Movie Description Page

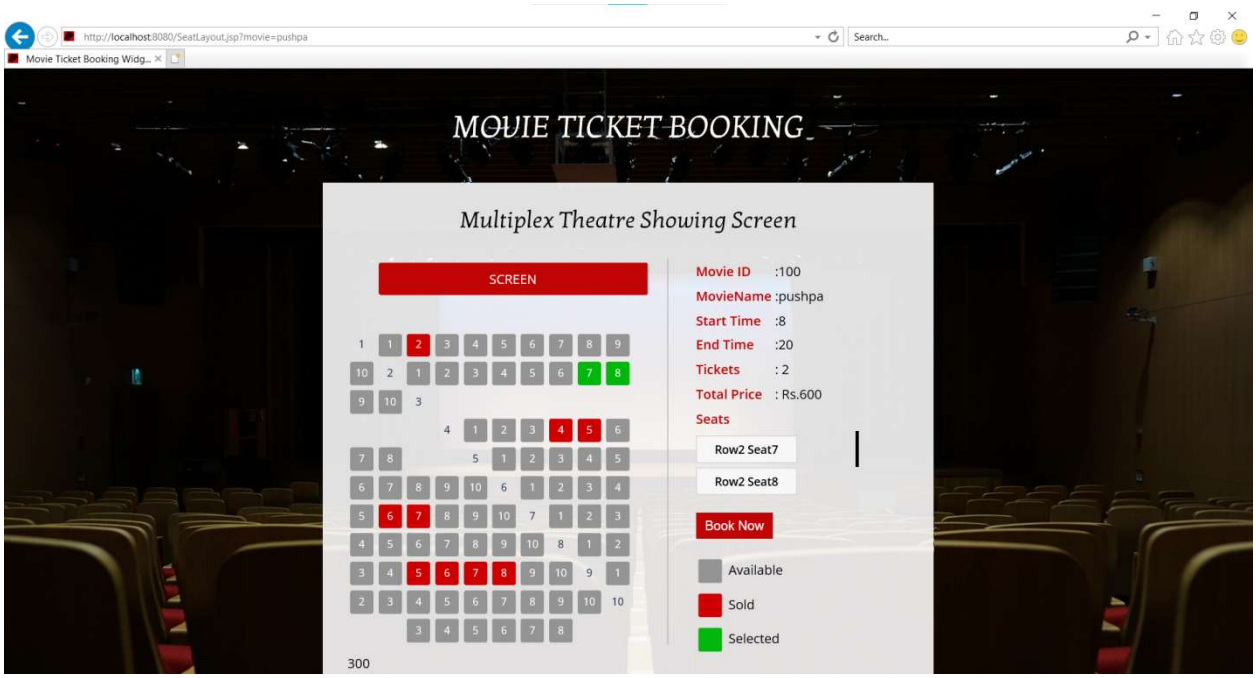


Ticket Booking Process

Site selection->Movie Selection->Seat Selection->Obtain Ticket

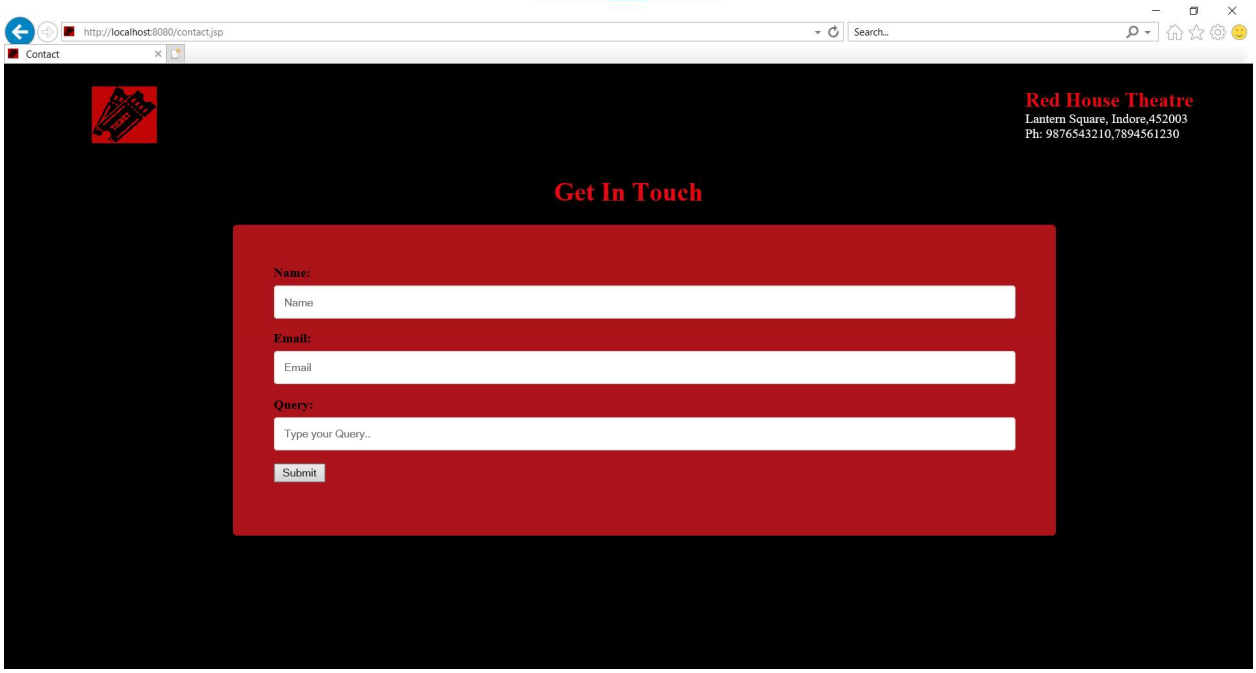






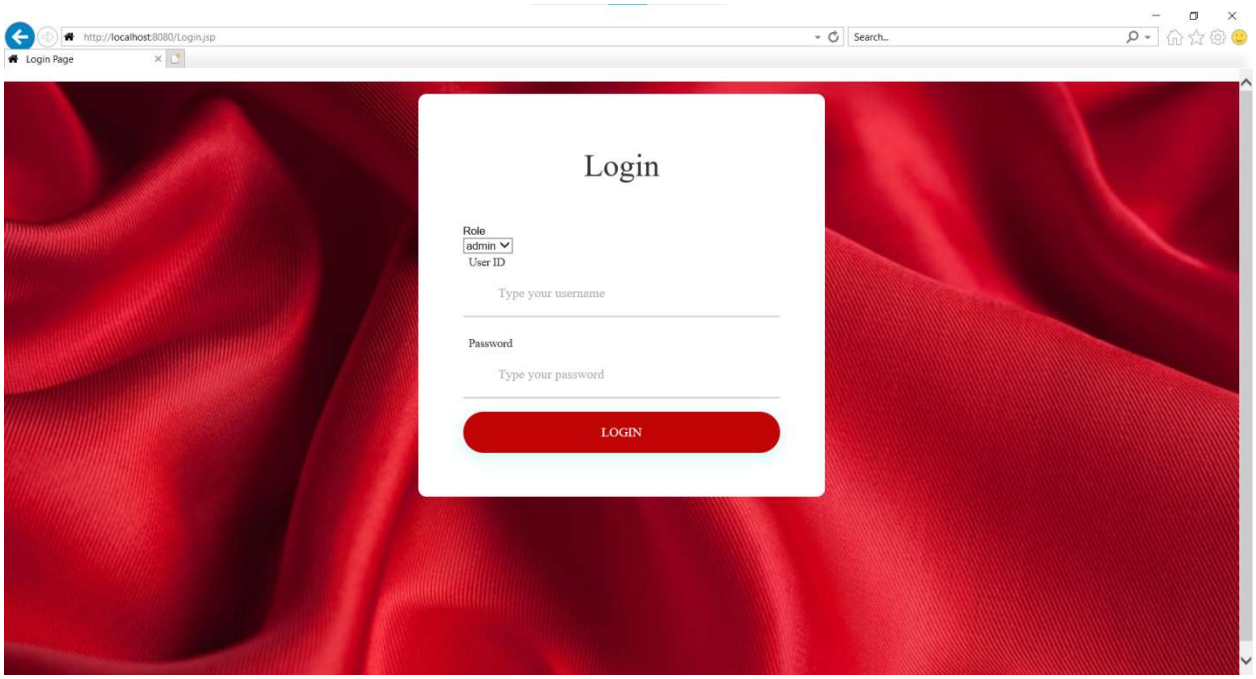
PrintTicket

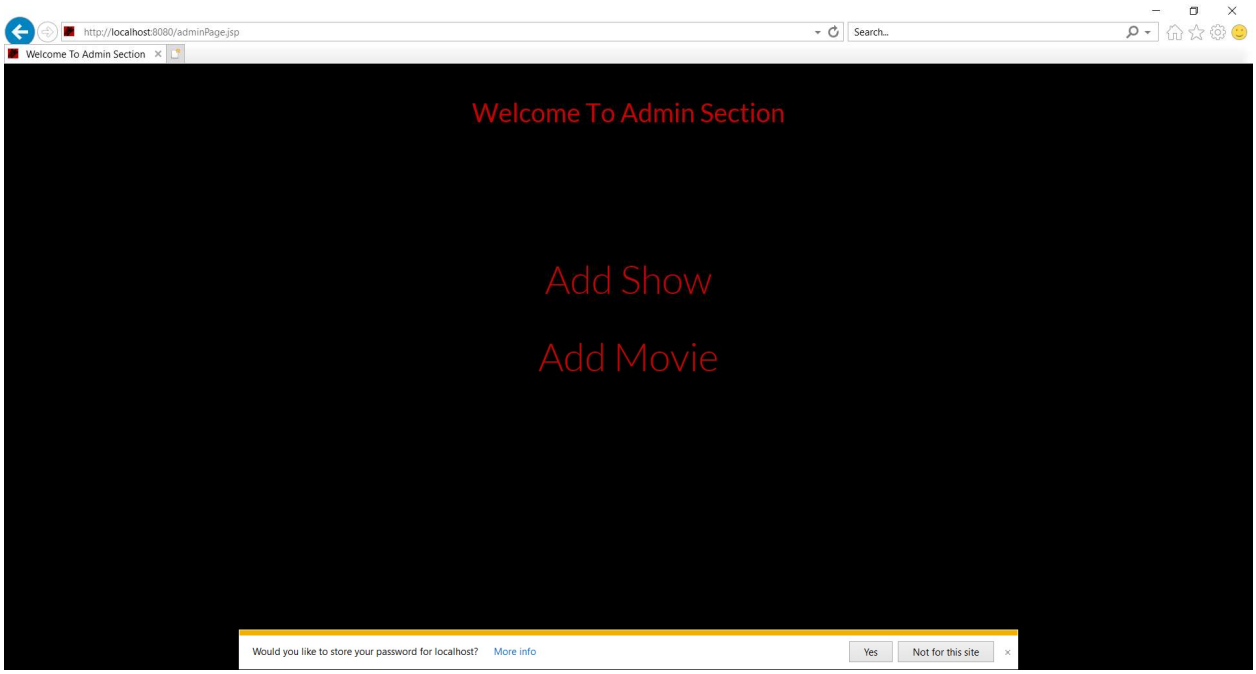
Contact Form Page

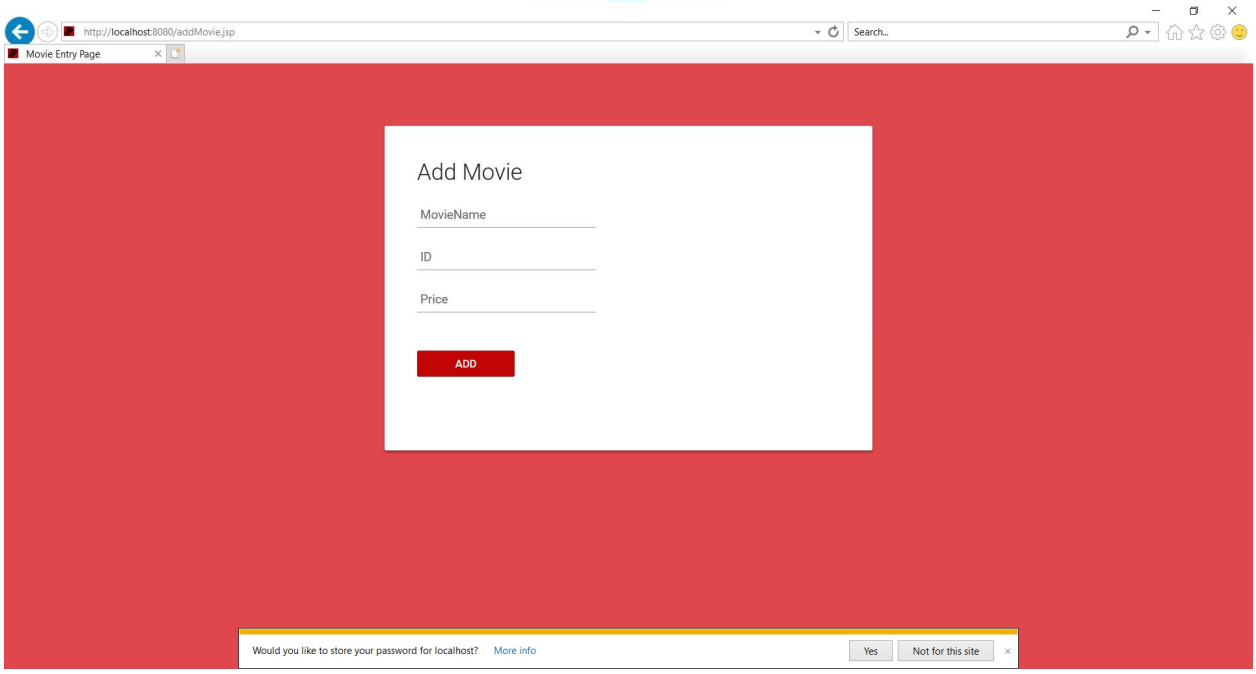


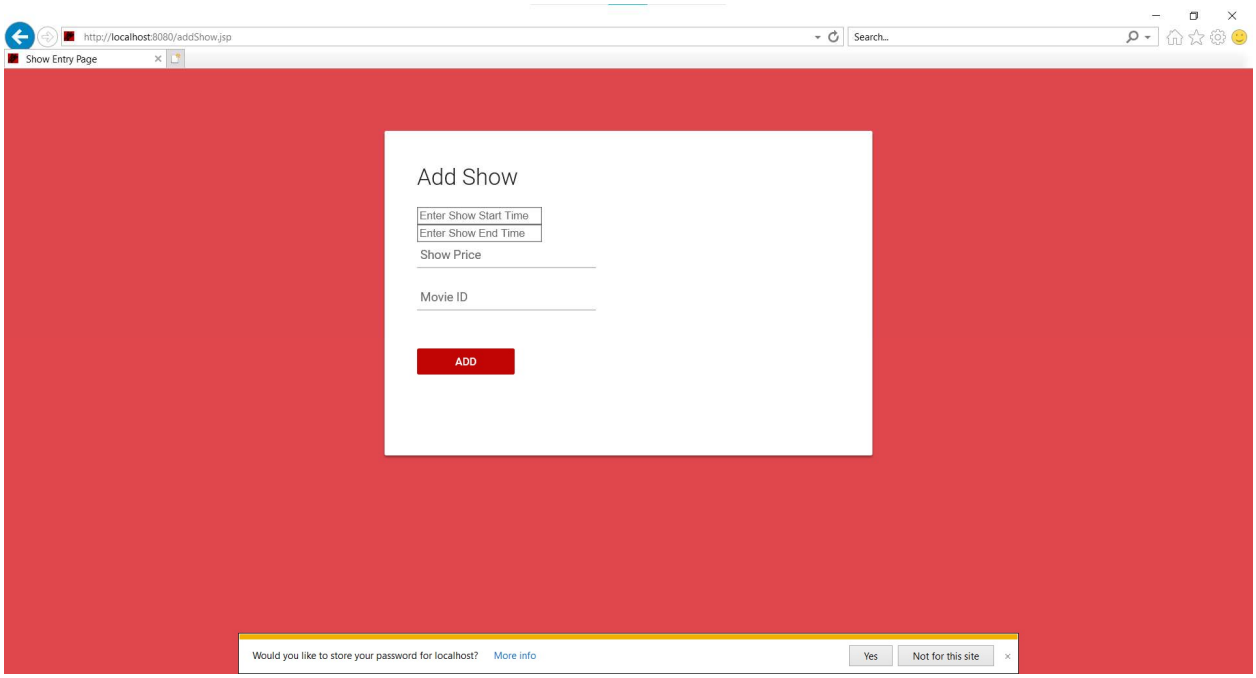
Admin Section

Login->Add Movie OR Add Show




http://localhost:8080/adminPage.jsp
Search...
Welcome To Admin Section
Welcome To Admin Section
Add Show
Add Movie
Would you like to store your password for localhost?
More info
Yes
Not for this site

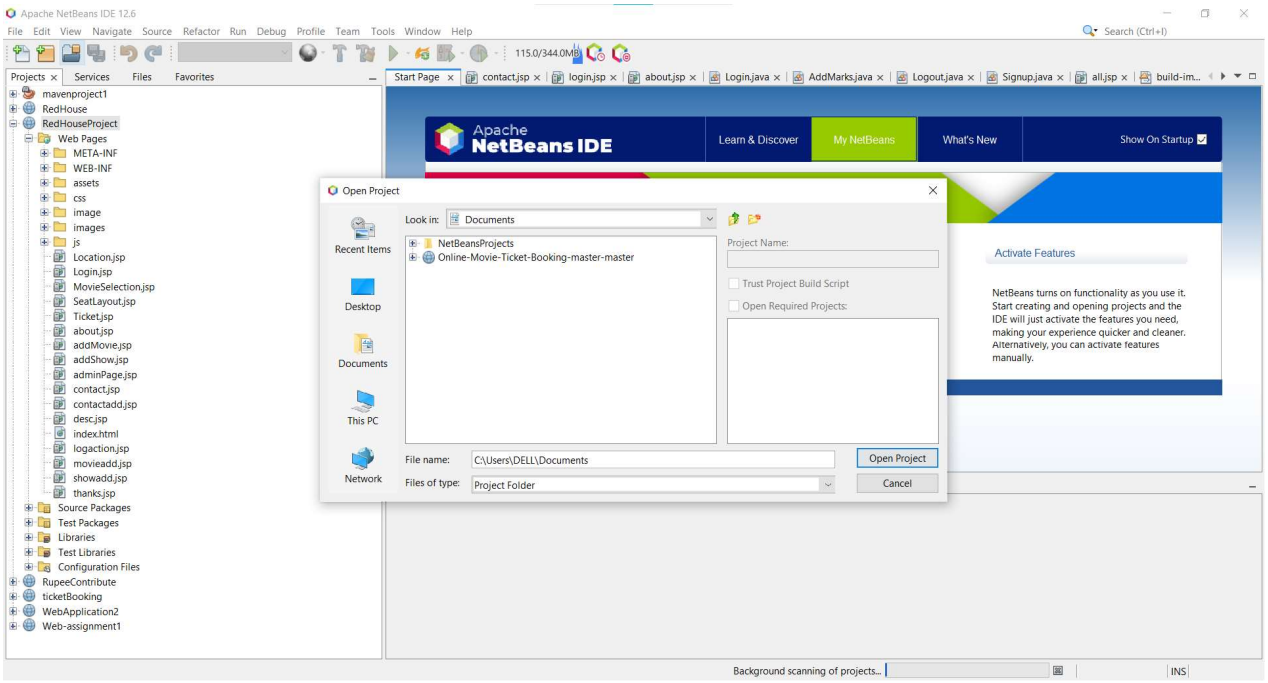

http://localhost:8080/addMovie.jsp
Search...
Movie Entry Page
Add Movie
MovieName
ID
Price
ADD
Would you like to store your password for localhost?
More info
Yes
Not for this site


http://localhost:8080/addShow.jsp
Search..
Show Entry Page
Add Show
Enter Show Start Time
Enter Show End Time
Show Price
Movie ID
ADD
Would you like to store your password for localhost?
More info
Yes
Not for this site

PROJECT SETUP

Download source code from github repository

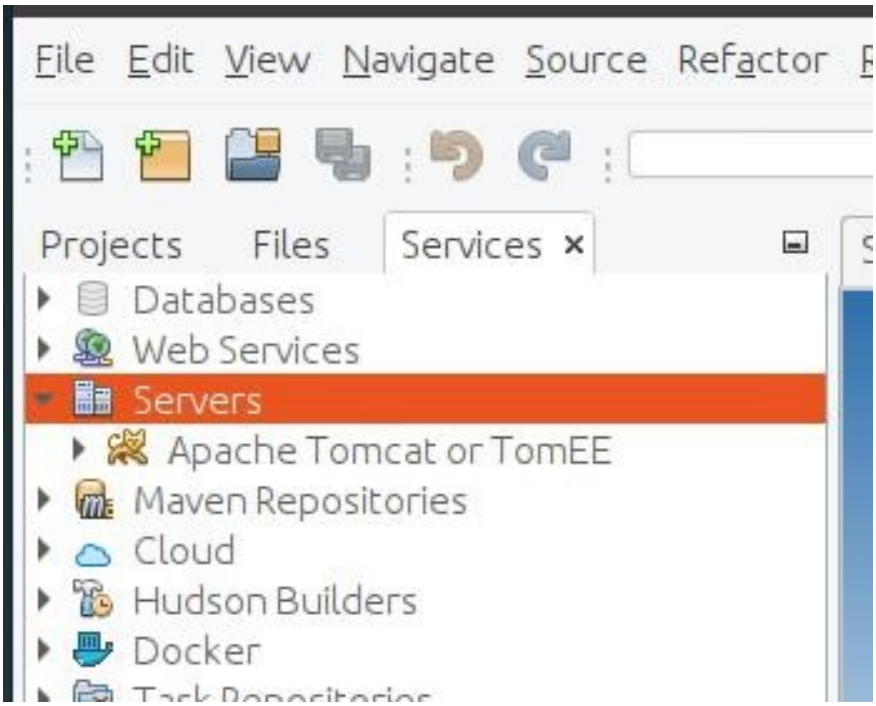
https://github.com/bella296/Online-Movie-Ticket-Booking-master
after downloading the source code extract the zip file .and open project in Apache netbeans



Then connect apache tomacat server Procedure to connect apache tomcat Apache Netbeans IDE

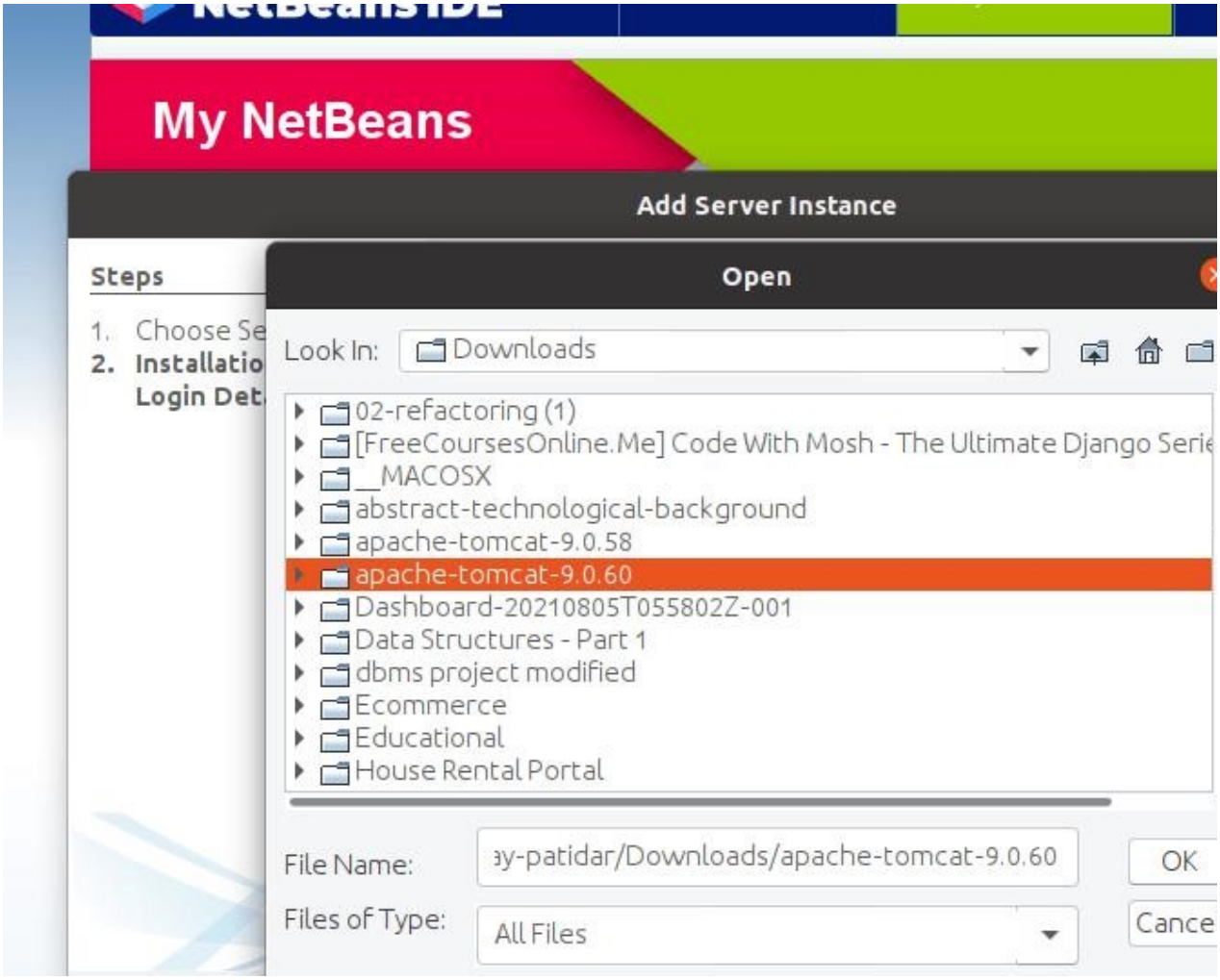
1. Open the Netbeans IDE

2. Click on **Services** tab



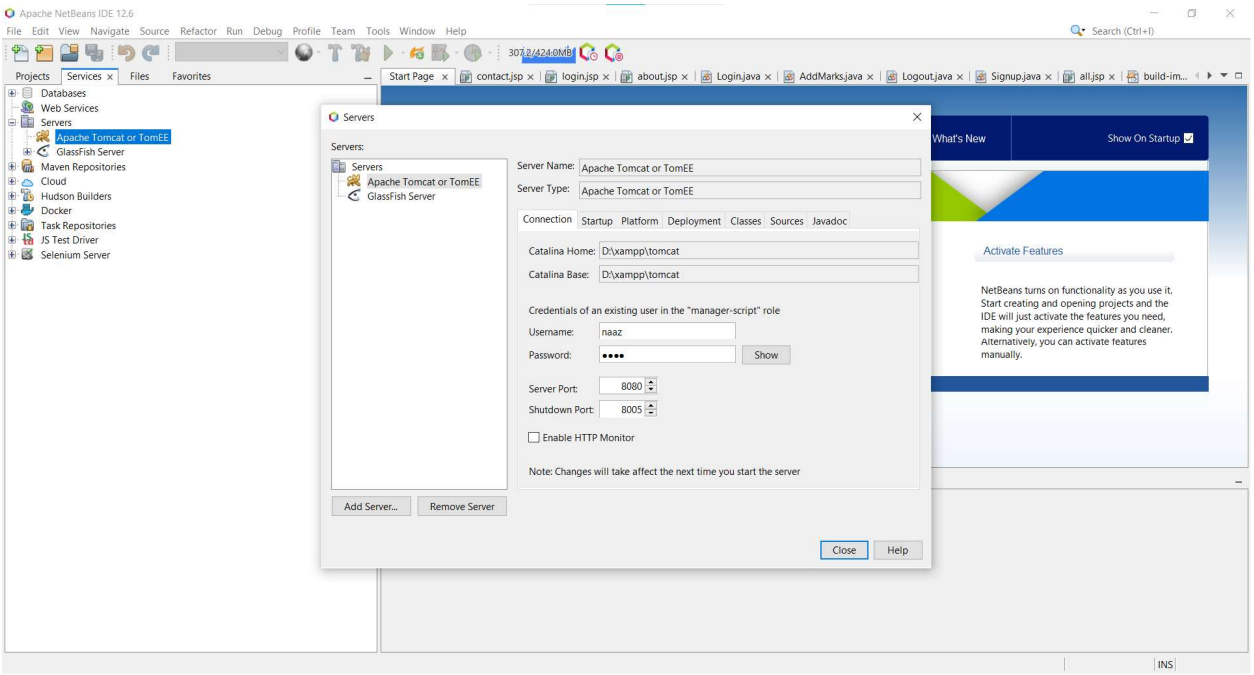
3. Now right click on Servers and add server

4. Click on **Browse** button and Select tomcat folder that you downloaded

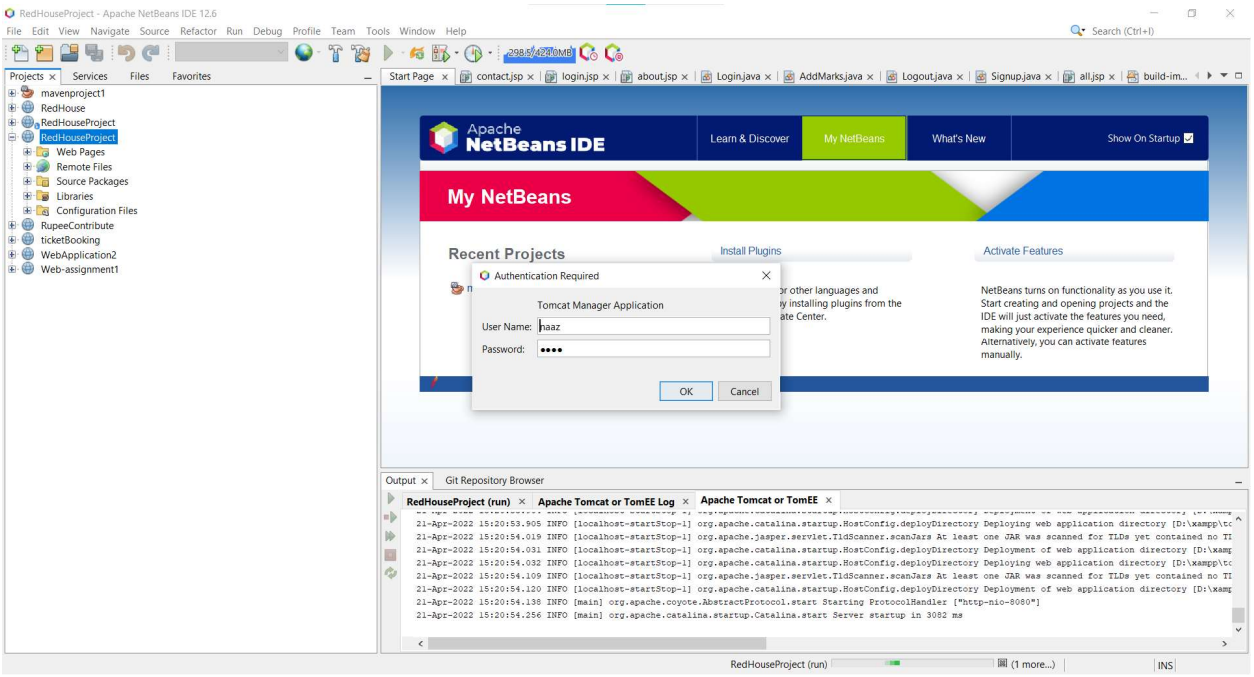


5. Now config username and password and should be remember because when you will run the server it will ask you to enter username and password.

6. Remember the user name and password as they are further asked when project is being run.



Now, click on the project and run the project ,it will start the server and ask for login specifications after credentials are validated localhost will run the project.



CONCLUSION & FUTURE SCOPE

Online movie Ticket Booking System is a system which maintains the information about the movies, show timings , prices etc. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization becomes much simple. This has been designed to computerize and automate the operations performed over the seat layout like availability and other operations. This computerization helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced

There is a future scope of this facility that many more features such standups and talk shows can be added by admin in different section can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.

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https://www.tutorialspoint.com/jsp/jsp_database_access.htm