Faculty of Technology
Department of Computer Engineering
Dharmsinh Desai University

A
PROJECT REPORT
ON

Online Movie Booking System

BY

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Subject: System Design Practice

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Faculty of Technology

Department of Computer Engineering

Dharmsinh Desai University

CERTIFICATE

This is to certify that the practical / term work carried out in the subject of **System Design Practice** and recorded in this journal is the bonafide work of

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of B.Tech semester **VI** in the branch of **Computer Engineering** during the academic year **2020-2021**.

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Contents

CERTIFICATE 2

1. Abstract 4

2. Introduction 4

- Brief Introduction 4
- Technology/Platform/Tools used 4

3. Software Requirement Specifications 5

➢ Functional Requirements 5

1. Customer Management 5

2.Ticket Management 6

2.3 Ticket Cancelation 7

3. Feeds and Payments 7

3.3 Payment Gateway 8

4. Book a Snack 8

5. Theater's Management 9

5.1 Login/register/Logout 9

5.2 Profile Management 9

5.3 Timetable 10

6. Admin Management 10

6.1 Admin Support 10

6.2 Check Details ..... **Error! Bookmark not defined.**

6.3 Movies Management 11

➢ Other Non-functional Requirements 11

5.1 Performance Requirements 11

5.2 Safety Requirements 12

5.3 Software Quality Attributes 12

System should be- 12

4. Design 12

5. Implementation Detail 12

6. Testing 13

7. Screen Shots 14

8. Conclusion 25

9. Limitation and Future Extension 25

10. Bibliography 26

1. Abstract

- A MovieMood an Online Movie Tickets booking system is a website where normal users can book their tickets for movies online via this website it will provide very convenience To the user by reserving tickets online rather than going offline to the theater.

2. Introduction

• Brief Introduction

- A MovieMood an Online Movie Tickets Booking System is a website which is used by normal user means customer who wants to book the tickets and by theater also.in that theater can see how many tickets for particular show is sold theater can add the show and it provides the very much convenience to theater also, The system consists of a web portal. The web portal will be used to maintain reports regarding the lists of movies and theaters and shows the movie according to the theaters for booking a ticket. There will be three major components. Admin, Customers and Theater.

• Technology/Platform/Tools used

Technology:

- CSS for stylishing the page.
- Nodejs for backend Support.
- ReactJs for frontend Support.
- MongoDB Database.

Platform:

- Google Crome For Testing.

Tools:

- Visual Studio Code.

3. Software Requirement Specifications

➢ Functional Requirements

1. Customer Management

1.1 Login/register/Logout

1.1.1 Customer Login

- **Description:** customer has to login for using most of the functionality of the site.
- **Input:** username and password.
- **Output:** success or failure.
- **Precondition**: Customers must be registered on the website.
- **Postcondition**: Customers are logged in to the website.

1.1.2 Customer Registration

- **Description**: if the Customer hasn't registered in the website then the customer can register via this functionality. The customer can do that and it is necessary to register on the website for using further functionality.
- **Input**: Customer's own Details 6 Online movie ticket booking system
- **Output**: Customer will be successfully register on website
- **Precondition**: Customer has not register before
- **Postcondition**: Customer will be redirected login page.

1.1.3 Logout/Signout

- **Description**: customer can end the session with this functionality.
- **Input**: request for logout.
- **Output**: customer will be logged out.
- **Precondition**: customer must be logged in.
- **Postcondition**: customer will be redirected to home page.

1.2 Profile Management

1.2.1 Profile Overview

- **Description**: if Customer wants to see their profile he can do this with this functionality.
- **Input**: request for seeing profile
- **Output**: Profile of Customers
- **Precondition**: Customer has to login
- **Postcondition**: Customer will be redirected to profile page.

1.2.2 history of tickets

- **Description**: Customer can see booking history with the help of history of tickets functionality.
- **Input**: request for seeing History
- **Output**: History of Ticket booking
- **Precondition**: Customer has to login
- **Postcondition**: Customer will be redirected to Booking history page.

1.3 Help & support.

1.3.1 Ask Query

- **Description**: customers can ask any query related to the system and if a customer is facing any trouble then they can ask a query about this.
- **Input**: Query
- **Output**: Answer of Query
- **Precondition**: customer must be logged in.
- **Postcondition**: customer will be redirected to home page

2.Ticket Management

2.1 Book Tickets

- **Description**: This is the main functionality of the system. By this functionality customers can book tickets for the movie. But for conforming tickets customer has to pay for that they will be redirected to Make payment page.
- **Input**: request for booking tickets & other necessary details for booking tickets.
- **Output**: confirmation message
- **Precondition**: user must be logged in.
- **Postcondition**: customers will be redirected to make a Payment page.

2.2 Ticket Cancelation

- **Description**: Customers can cancel a ticket by this functionality, but cancelation charges can be applied as per the rule.
- **Input**: request for cancelling the tickets.
- **Output**: conformation of the cancelation of the tickets.
- **Precondition**: Customer must be logged in and Customer has booked a ticket.
- **Postcondition**: Customer gets the message of conformation and redirected to home page.

2.3 Swap Tickets.

- **Description**: If a user wants a seat number that ticket is already booked for another user so a user who wants a desired seat number he/she can ping a request to the owner of that ticket and the owner replies according to his/her condition.
- **Input**: Movie name, User Phone Number, Seat Number etc.
- **Output**: if all Information is correct then request is shown on flip function
- **Precondition**: user must be logged in.
- **Postcondition**: customer redirect to flip functionality.

3. Feeds and Payments

3.1 Movie Feeds.

- **Description**: customers can see the latest movie list and also can see the all the movie list and also can see the description about movies.
- **Input**: select movie for seeing description about movies.
- **Output**: list or all description about movies.
- **Precondition**: it is not compulsory to login into the system.
- **Postcondition**: movie list and if customer wants to see description then description will be shown.

3.2 Search Movie

- **Description**: if the customer wants to find a specific movie then by search option the customer can do that.
- **Input**: movie name or other details
- **Output**: if the movie is in the database then it will be shown.
- **Precondition**: it is not necessary to login into the system.
- **Postcondition**: searched movies will be shown to customers if it is available in the database.

3.3 Payment Gateway

- **Description**: for confirming the ticket Customer has to pay the tickets cost by this functionality they can do payment online.
- **Input**: required information for making payment.
- **Output**: success message of payment and conforming message of tickets.
- **Precondition**: user must login and select ticket for booking.
- **Postcondition**: customer will be redirected to confirmation of ticket message.

4. Book a Snack

4.1 Order Your Snacks.

- **Description**: A customer can order a snack according to his/her convenience.
- **Input**: Desired Snacks and ticket details.
- **Output**: success or failure.

- **Precondition**: customer must be logged in and have a ticket.
- **Postcondition**: customer must have to save that receipt of order.

5. Theater's Management

5.1 Login/register/Logout

5.1.1 Theater's Login

- **Description**: Theater's Manager can login with username and password.
- **Input**: username and password.
- **Output**: success or failure.
- **Precondition**: Theater must be registered on the website.
- **Postcondition**: Theater is logged in to the website.

5.1.2 Theater Registration

- **Description**: if the Theater's Manager hasn't registered in the website then the Theater can register via this functionality.
  .
- **Input**: Theater's own Details
- **Output**: Theater will be successfully register on website
- **Precondition**: Theater has not register before
- **Postcondition**: Theater will be redirected login page

5.1.3 Logout/Signout

- **Description**: Theater's Manager can end the session with this functionality.
- **Input**: request for logout.
- **Output**: Theatre will be logged out.
- **Precondition**: Theatre must be logged in.
- **Postcondition**: Theatre will be redirected to home page

5.2 Profile Management

5.2.1 Theater Profile Updation

- **Description**: if Theater's Manager wants to see their profile he can do this with this functionality.
- **Input**: request for seeing profile
- **Output**: Profile of Theater's Manager.
- **Precondition**: Theater's Manager has to login
- **Postcondition**: Theater's Manager will be redirected to profile page.

5.3 Timetable

5.3.1 Timetable Management for Movies.

- **Description**: A Theater's Manager manages the timetable for movies can add or update a movie time and Ticket Details are reflected to the end-user.
- **Input**: Timetable for movies
- **Output**: success or failure.
- **Precondition**: Theater's Manager must be registered on the website.
- **Postcondition**: Theater's Manager is logged in to the website.

6. Admin Management

6.1 Admin Support

6.1.1 User Queries

- **Description**: By this functionality admin can see the customer's query and reply according to the convenience.
- **Input**: request for seeing query.
- **Output**: Customer's Query.
- **Precondition**: admin must be logged in.
- **Postcondition**: admin will be redirected to the page where the query will be shown.

6.2 Movies Management

6.2.1 Add movie and their details.

- **Description**: By this functionality admin can add the movie on site and add the required information about the movie also like description, language etc.
- **Input**: information of movie.
- **Output**: movie will be added successfully.
- **Precondition**: admin must be logged in.
- **Postcondition**: admin will be redirected to admin's home page.

6.2.2 Remove Movie

- **Description**: By this functionality admin can remove any movie from the database.
- **Input**: request for removing data.
- **Output**: movie will be removed successfully.
- **Precondition**: admin must be logged in.
- **Postcondition**: admin will be redirected to admin's home page

6.3 Cast Management

6.3.1 Add Cast details.

- **Description**: By this functionality admin can add the Cast Details.
- **Input**: information of Actore or Actress.
- **Output**: Cast Details will be added successfully.
- **Precondition**: admin must be logged in.
- **Postcondition**: admin will be redirected to admin's home page.

➢ Other Non-functional Requirements

5.1 Performance Requirements

- systems should be able to handle more traffic on the website. The system will support multiple users at a time.

5.2 Safety Requirements

- The System will assure that no theater and customer can register more than one time.The System should provide safety of data.

5.3 Software Quality Attributes

System should be-

- Robust
- Flexible
- User friendly
- Safe and Secure
- Upgradable

4. Design

5. Implementation Detail

- **Home Module:-**
  - ⇨ In this module all the basic mostaly non changeable things are implemented. in this module navigation bar is implemented in this module footer is implemented for the site. Crausal is implemented in home page. in this module basic routing is implemented.

- **User Module:-**
  - ⇨ In this module all the user related things are implemented. in this module user login and sign up implemented.in this module ticket cancellation and swap seat ticket module is implemented. in this module user

profile is implemented in this module booking ticket feature for the user is also implemented in this module all the thing which user can do with the site is implemented.

- **Theater Module:-**
  - ⇨ In this module all the functionality related to the theater is implemented like the theater can login, theater can Register and theater can add movie show in their theater and theater can see how many tickets are sold.Theate Manager Can Update the Details of Theater.

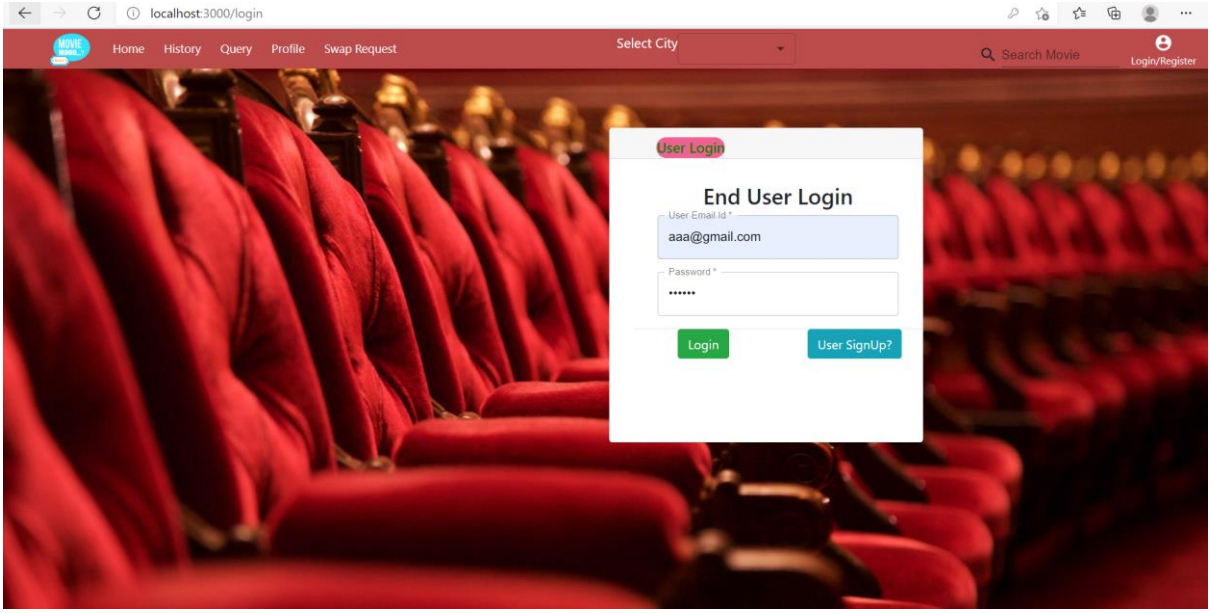
- **Admin Module:-**
  - ⇨ In this module all the admin related things are implemented like admin can add the movie on to site admin can remove the movie.Admin can See the user query and reply them. admin can see sold tickets.

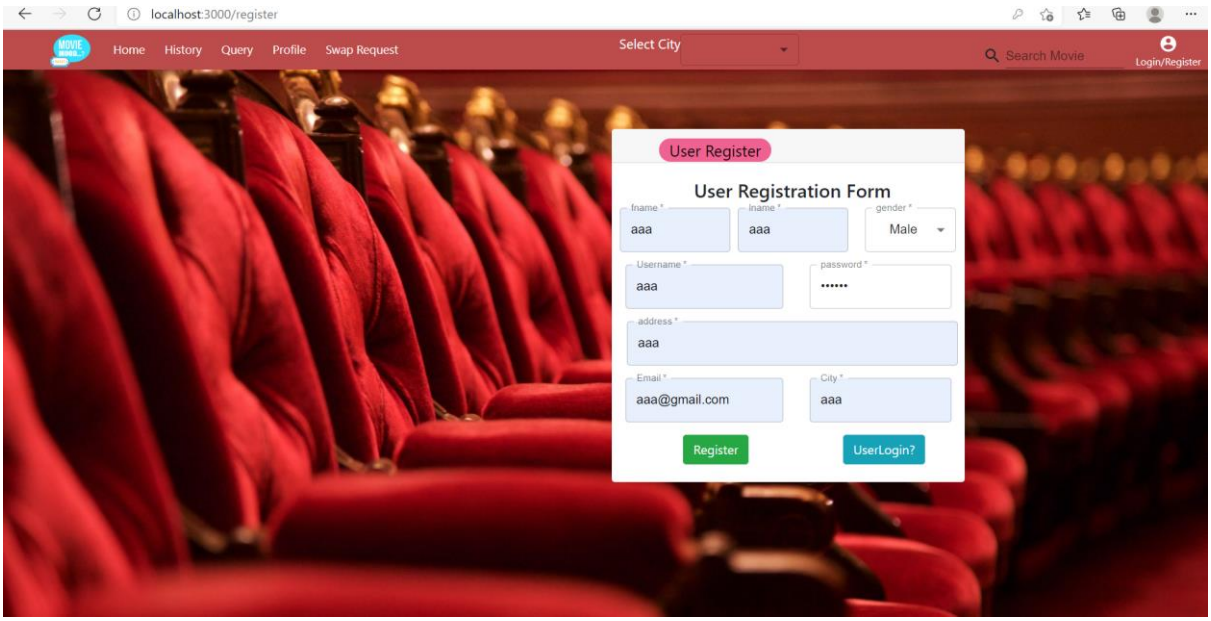
6. Testing

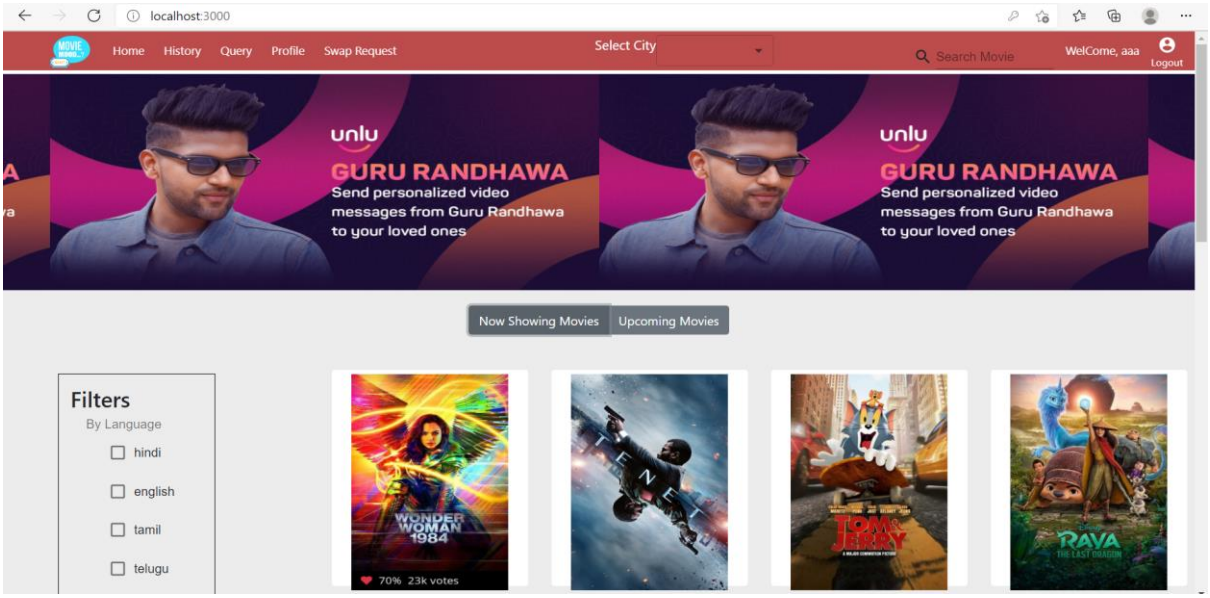
Module Name	Field Input	Expected Output	Actual Output
User module	Username & Password (true input) for the user	Redirected to Home Page	Redirected to Home Page
Theater module	Username & Password (true input) for the theater	Redirected to Theater DashBoard	Redirected to Theater DashBoard
Admin Module	Add Movie	Movie is Shown	Movie is Shown

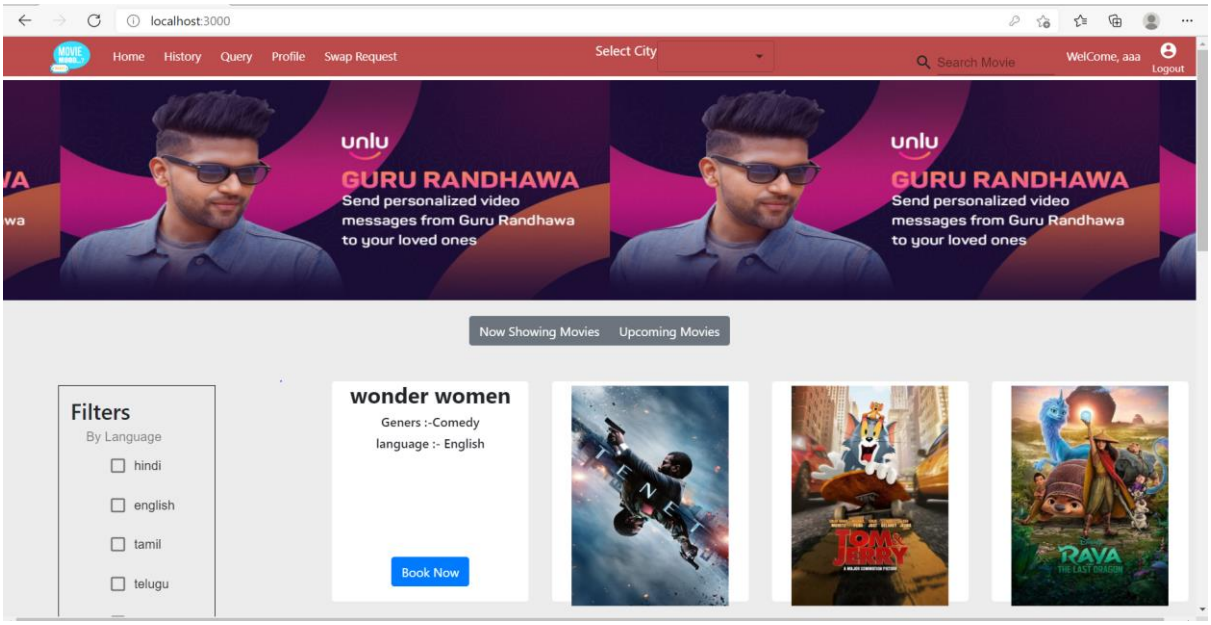
		on to site	into site

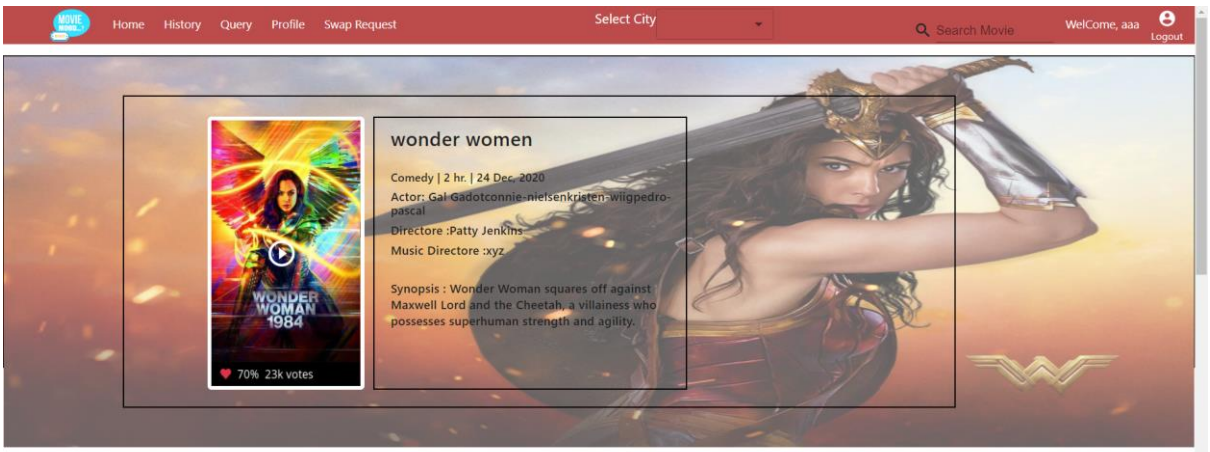
7. Screen Shots

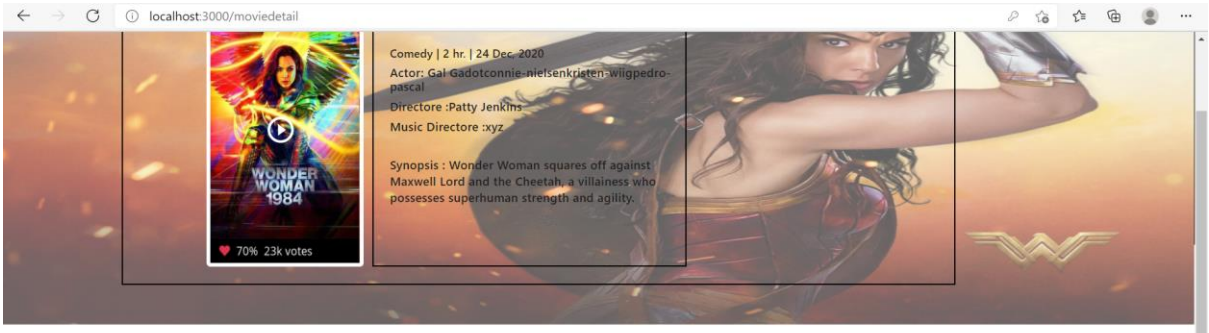





localhost:3000
Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Logout
unlu
GURU RANDHAWA
Send personalized video messages from Guru Randhawa to your loved ones
Now Showing Movies
Upcoming Movies
Filters
By Language
hindi
english
tamil
telugu
70% 23k votes


localhost:3000
Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Logout
unlu
GURU RANDHAWA
Send personalized video messages from Guru Randhawa to your loved ones
Now Showing Movies
Upcoming Movies
Filters
By Language
hindi
english
tamil
telugu
wonder women
Geners :-Comedy
language :- English
Book Now


Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Logout
wonder women
Comedy | 2 hr. | 24 Dec, 2020
Actor: Gal Gadotconnie-nielsenkristen-wiigpedro-pascal
Directore :Patty Jenkins
Music Directore :xyz
Synopsis : Wonder Woman squares off against Maxwell Lord and the Cheetah, a villainess who possesses superhuman strength and agility.
70% 23k votes



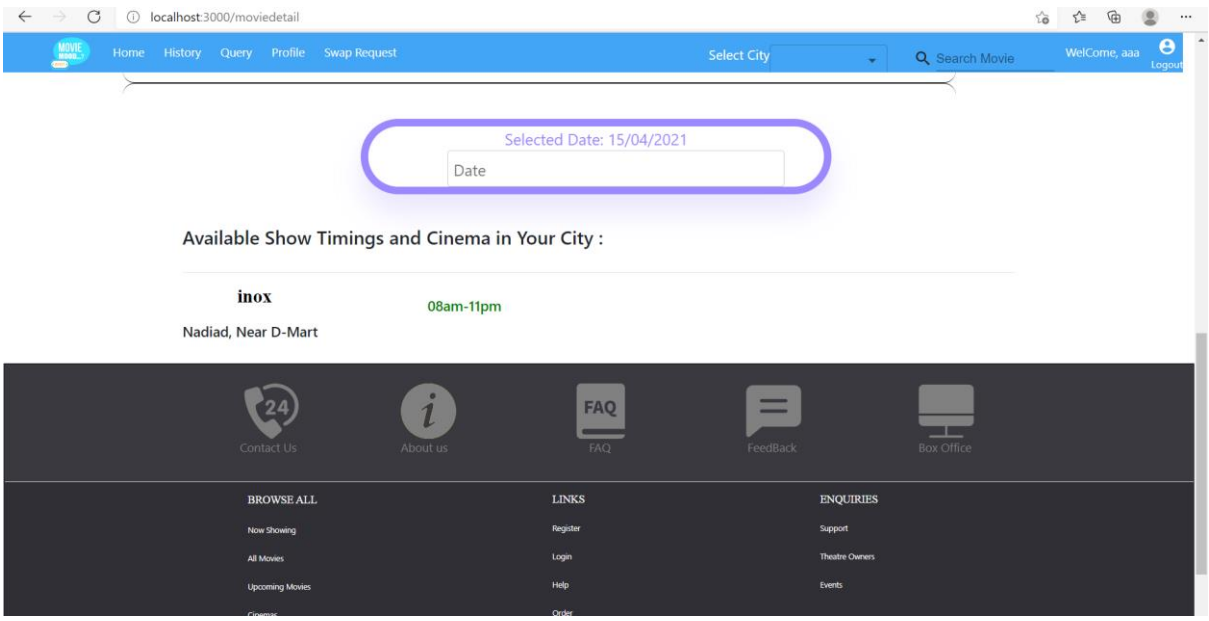
Cast

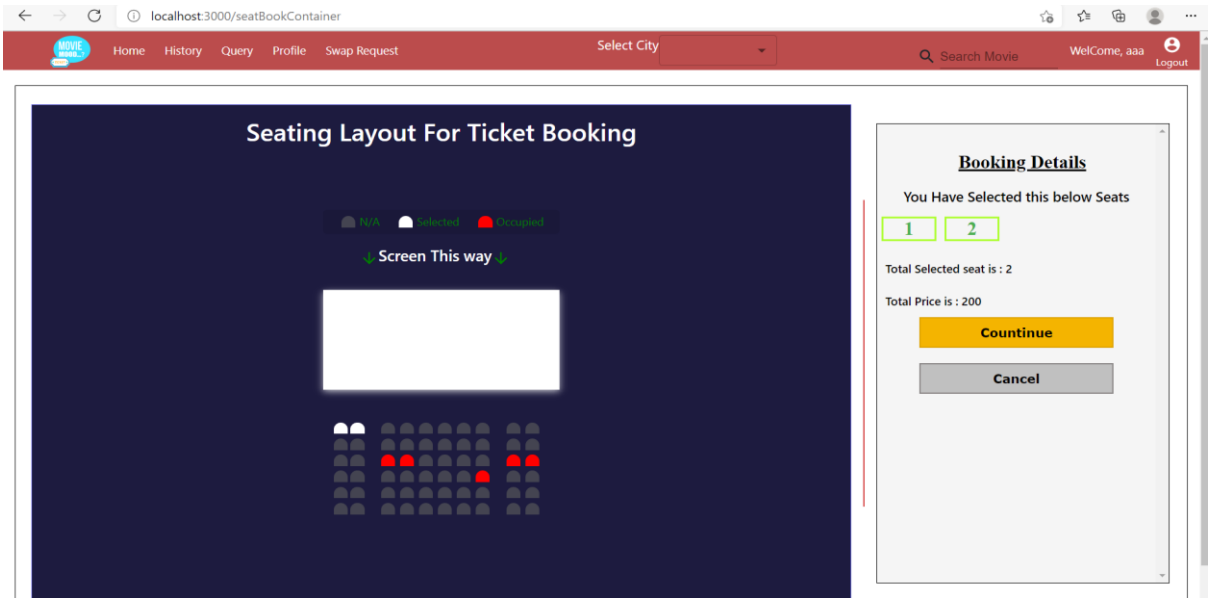
Gal Gadot — Actor

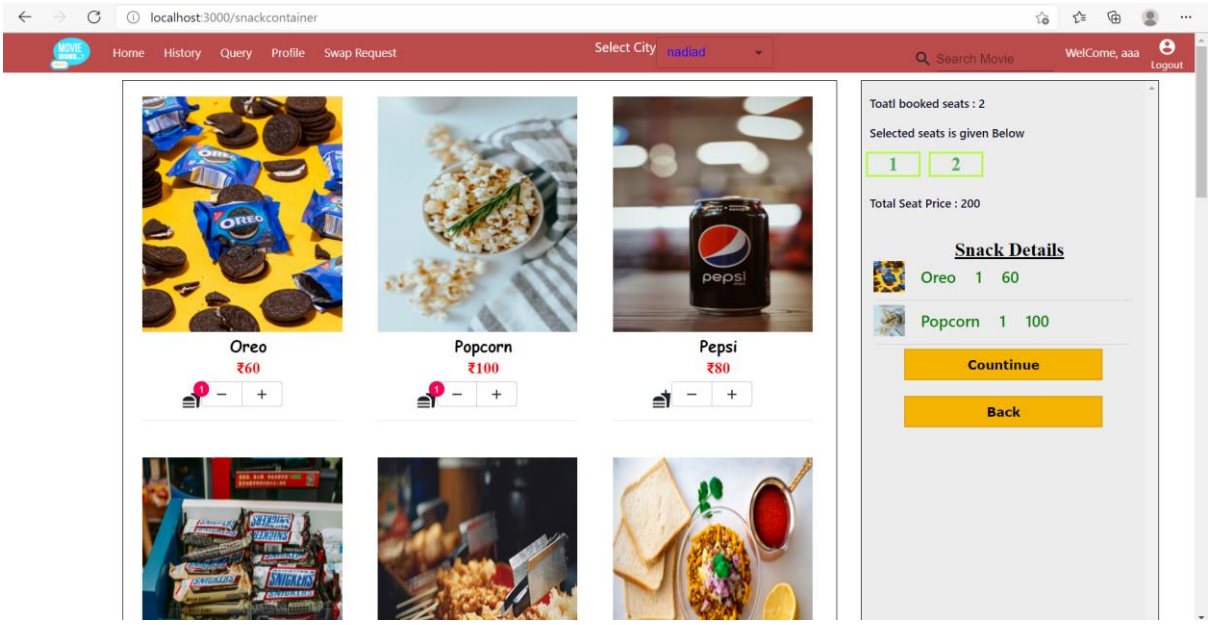
connie-nielsen — Actor

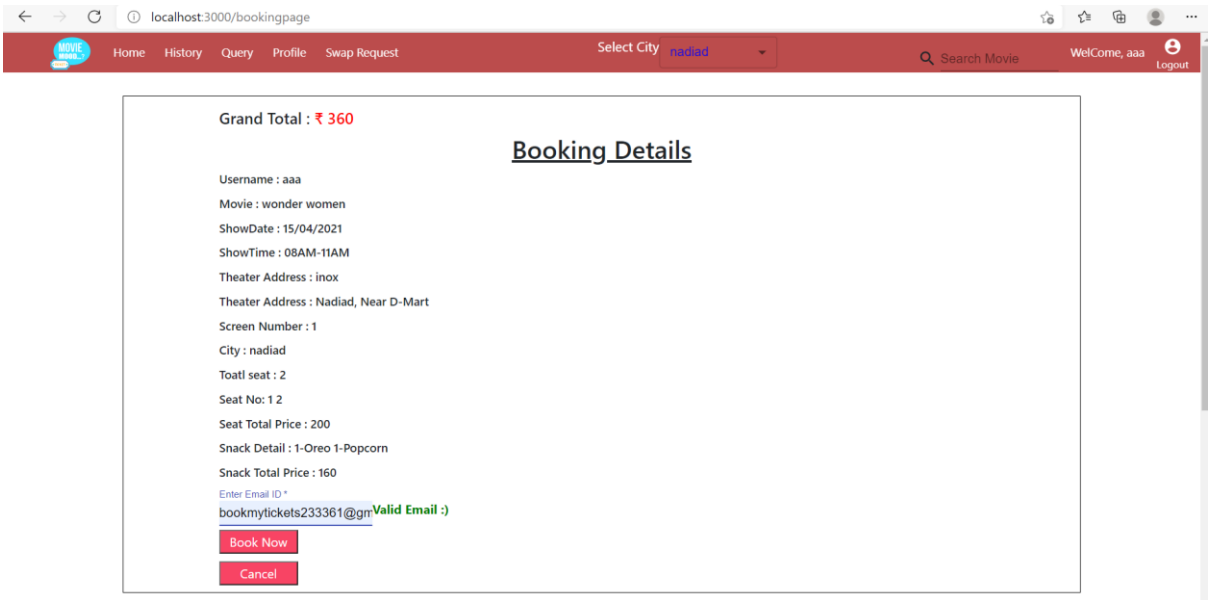
kristen-wiig — Actor

pedro-pascal — Actor






localhost:3000/snackcontainer
Home
History
Query
Profile
Swap Request
Select City
nadiad
Search Movie
WelCome, aaa
Logout
Oreo
₹60
Popcorn
₹100
Pepsi
₹80
Toatl booked seats : 2
Selected seats is given Below
1
2
Total Seat Price : 200
Snack Details
Oreo 1 60
Popcorn 1 100
Countinue
Back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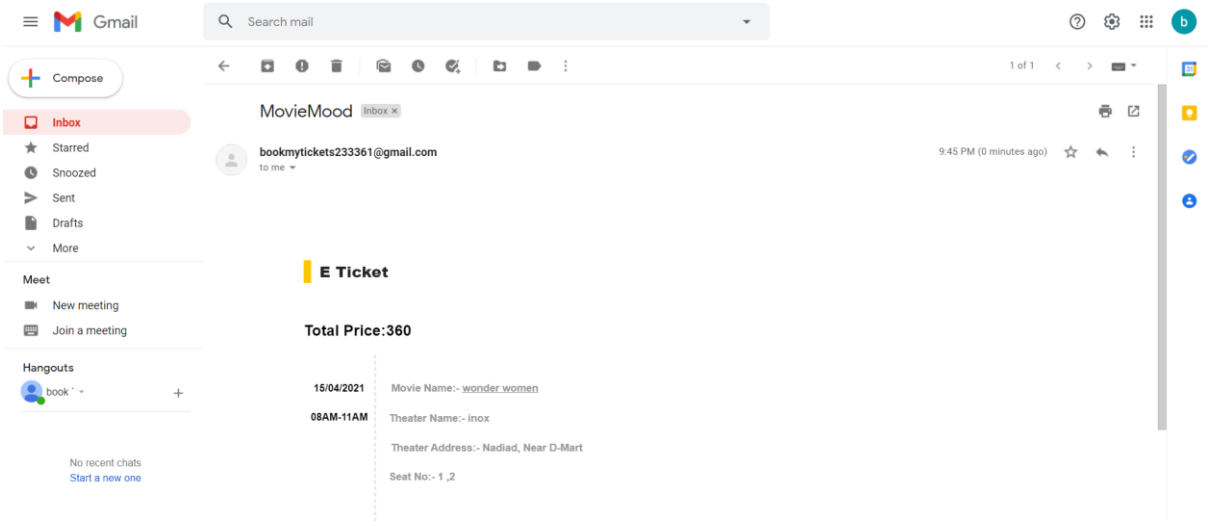
Home
History
Query
Profile
Swap Request
Select City
nadiad
Search Movie
WelCome, aaa
Logout
Grand Total : ₹ 360
Booking Details
Username : aaa
Movie : wonder women
ShowDate : 15/04/2021
ShowTime : 08AM-11AM
Theater Address : inox
Theater Address : Nadiad, Near D-Mart
Screen Number : 1
City : nadiad
Toatl seat : 2
Seat No: 1 2
Seat Total Price : 200
Snack Detail : 1-Oreo 1-Popcorn
Snack Total Price : 160
Enter Email ID *
bookmytickets233361@gm
Valid Email :)
Book Now
Cancel


Gmail
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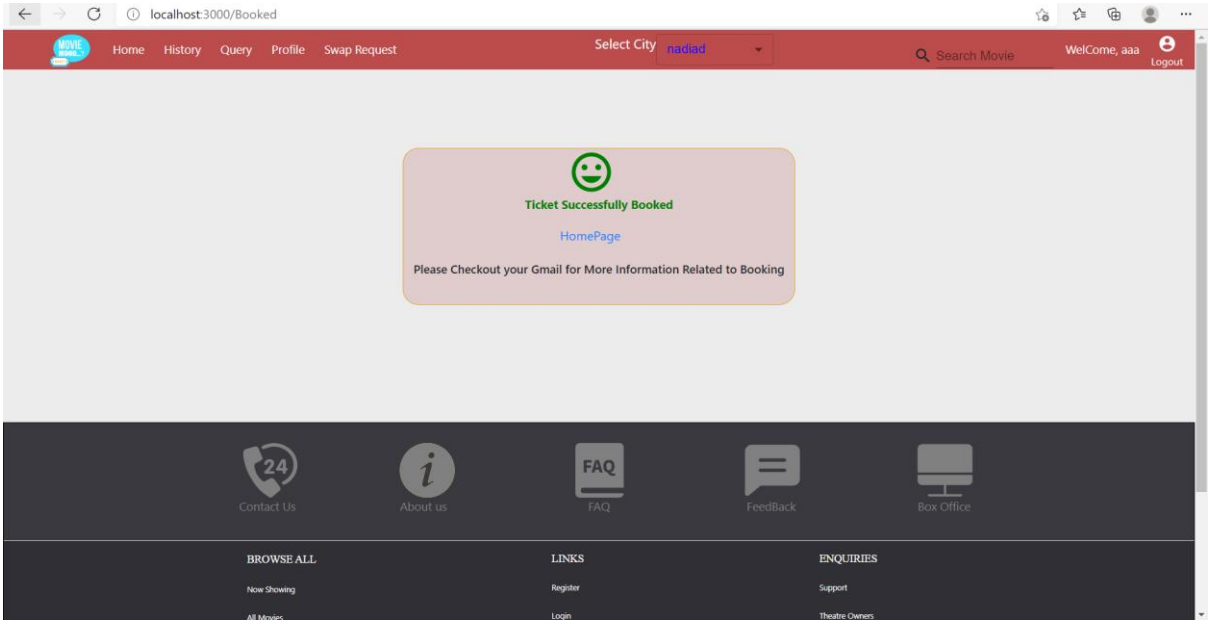
Compose
Inbox
Starred
Snoozed
Sent
Drafts
More
Meet
New meeting
Join a meeting
Hangouts
book
No recent chats
Start a new one
MovieMood
Inbox
bookmytickets233361@gmail.com
to me
9:45 PM (0 minutes ago)
E Ticket
Total Price:360
15/04/2021
08AM-11AM
Movie Name:- wonder women
Theater Name:- inox
Theater Address:- Nadiad, Near D-Mart
Seat No:- 1 ,2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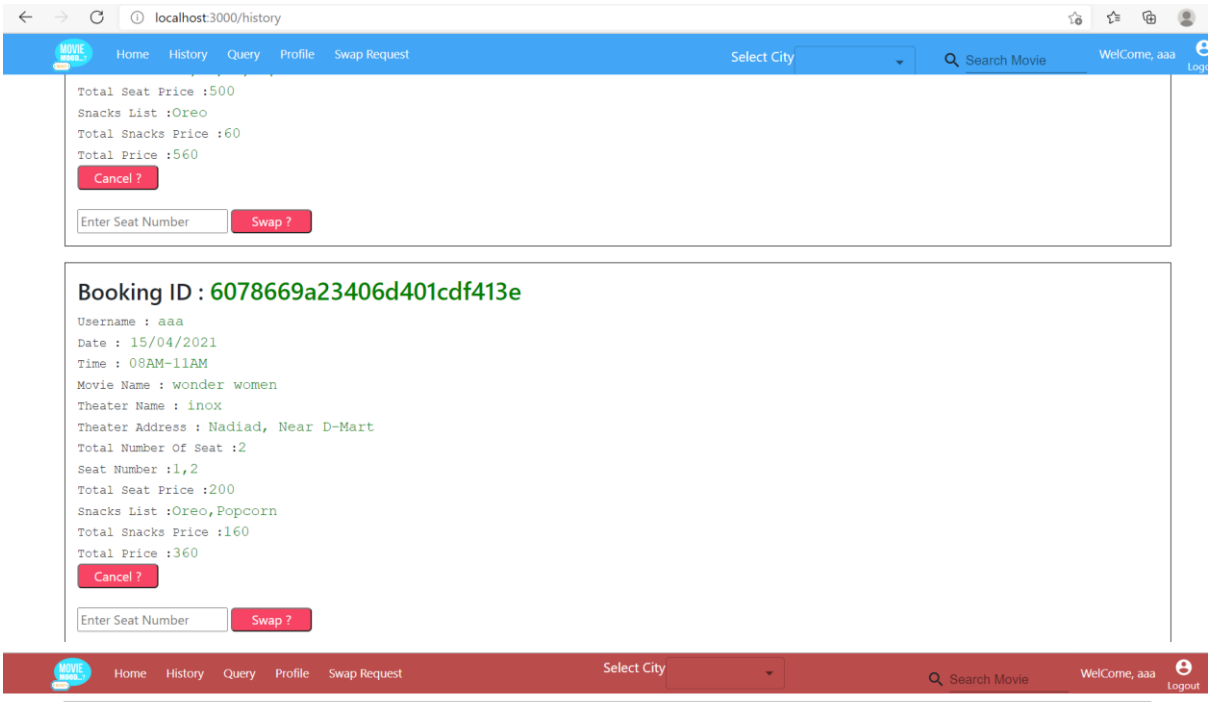
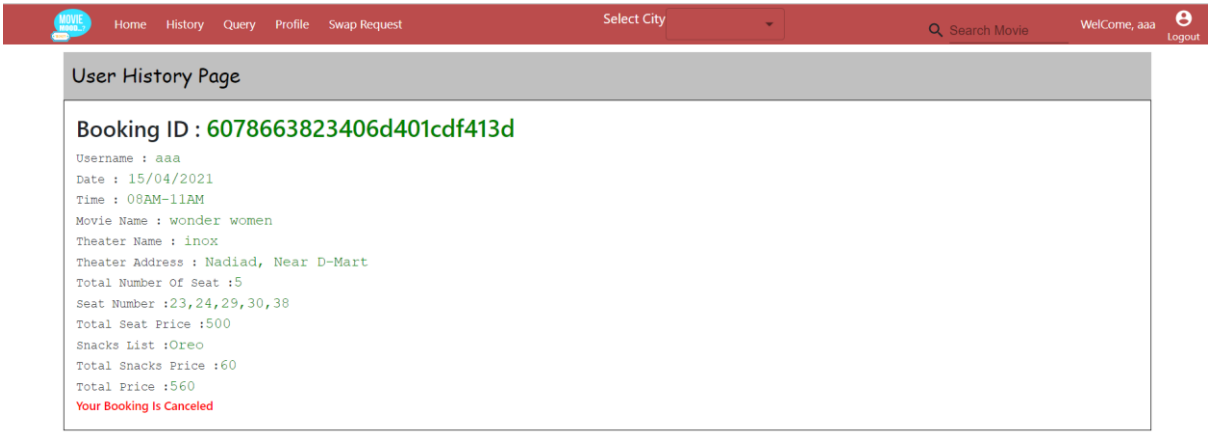
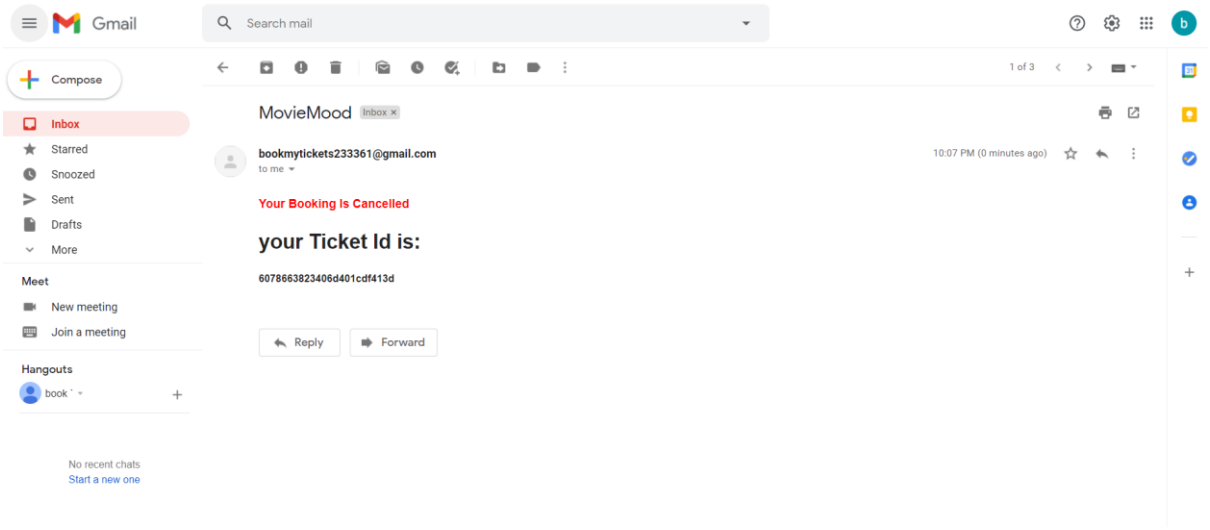
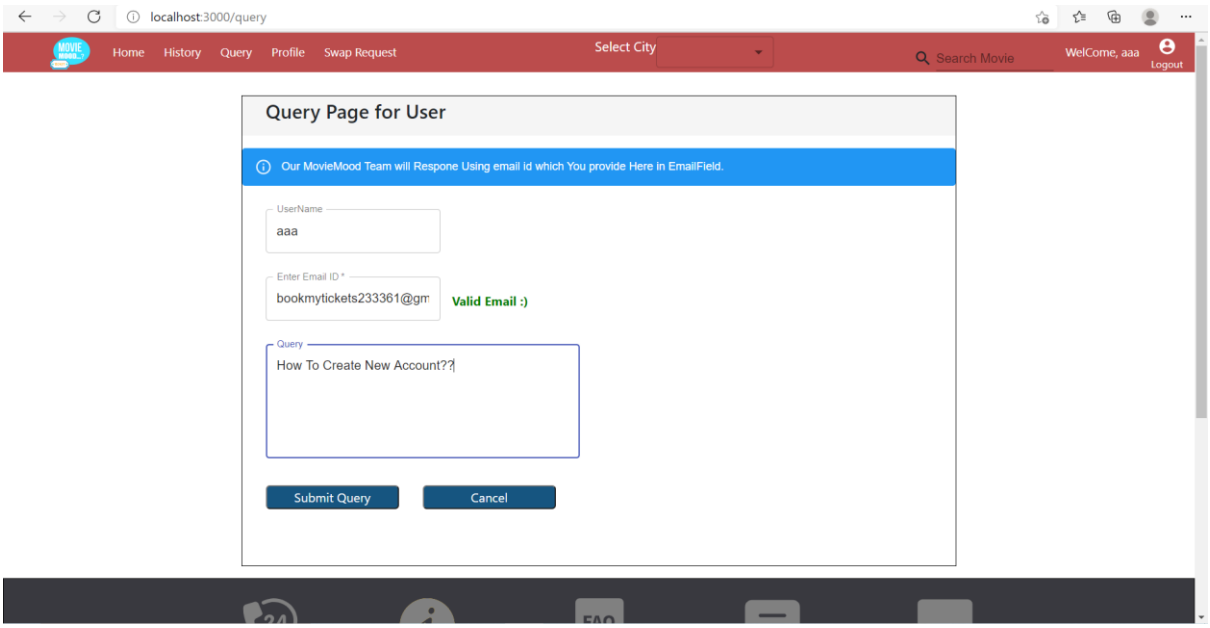
Home
History
Query
Profile
Swap Request
Select City
nadiad
Search Movie
WelCome, aaa
Logout
Ticket Successfully Booked
HomePage
Please Checkout your Gmail for More Information Related to Booking
Contact Us
About us
FAQ
FeedBack
Box Office
BROWSE ALL
Now Showing
LINKS
Register
Login
ENQUIRIES
Support
Theatre Owners

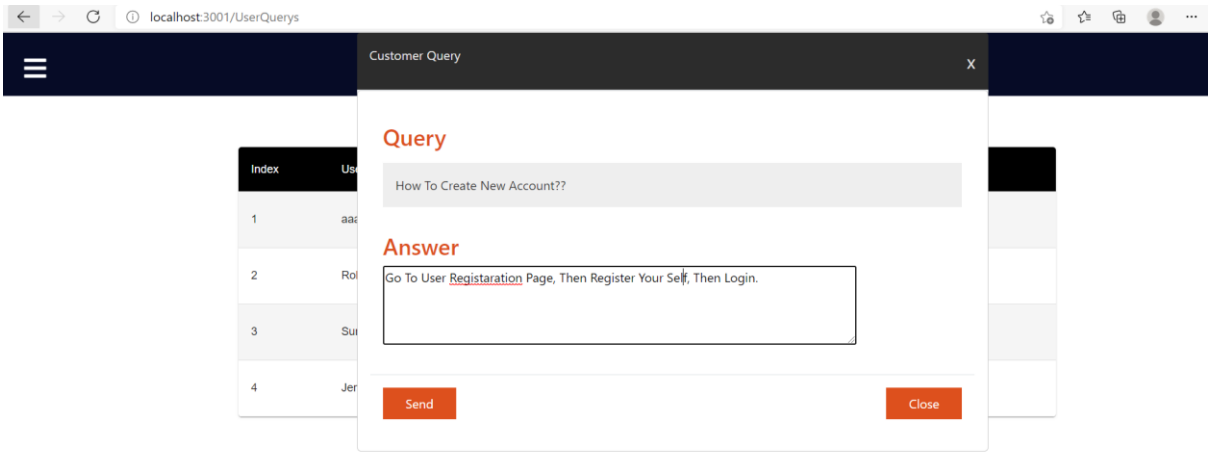

localhost:3000/history
Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Total Seat Price :500
Snacks List :Oreo
Total Snacks Price :60
Total Price :560
Cancel ?
Enter Seat Number
Swap ?
Booking ID : 6078669a23406d401cdf413e
Username : aaa
Date : 15/04/2021
Time : 08AM-11AM
Movie Name : wonder women
Theater Name : inox
Theater Address : Nadiad, Near D-Mart
Total Number Of Seat :2
Seat Number :1,2
Total Seat Price :200
Snacks List :Oreo,Popcorn
Total Snacks Price :160
Total Price :360
Cancel ?
Enter Seat Number
Swap ?

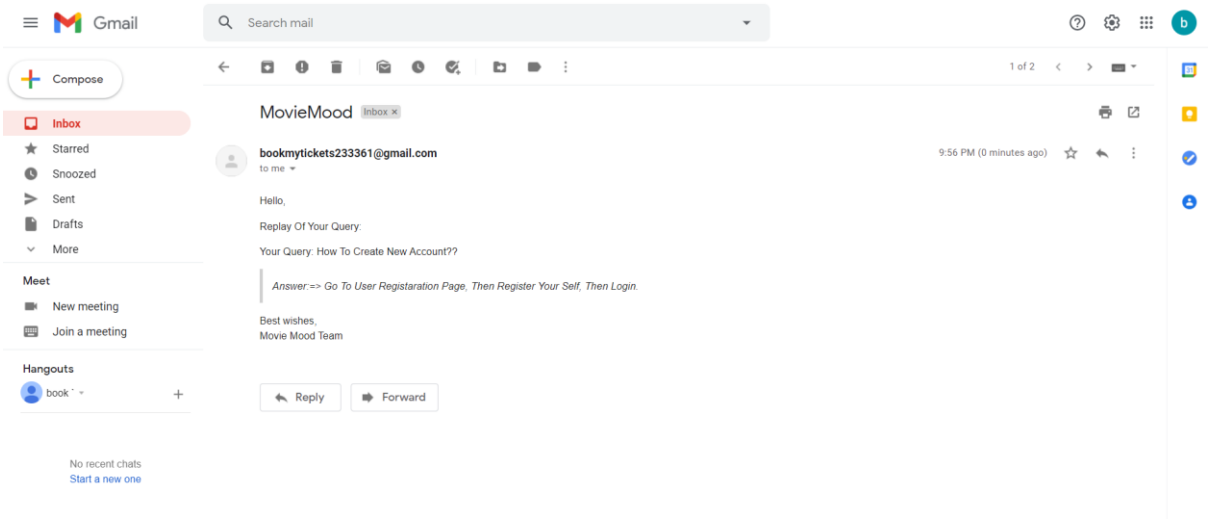

Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Logout
User History Page
Booking ID : 6078663823406d401cdf413d
Username : aaa
Date : 15/04/2021
Time : 08AM-11AM
Movie Name : wonder women
Theater Name : inox
Theater Address : Nadiad, Near D-Mart
Total Number Of Seat :5
Seat Number :23,24,29,30,38
Total Seat Price :500
Snacks List :Oreo
Total Snacks Price :60
Total Price :560
Your Booking Is Canceled

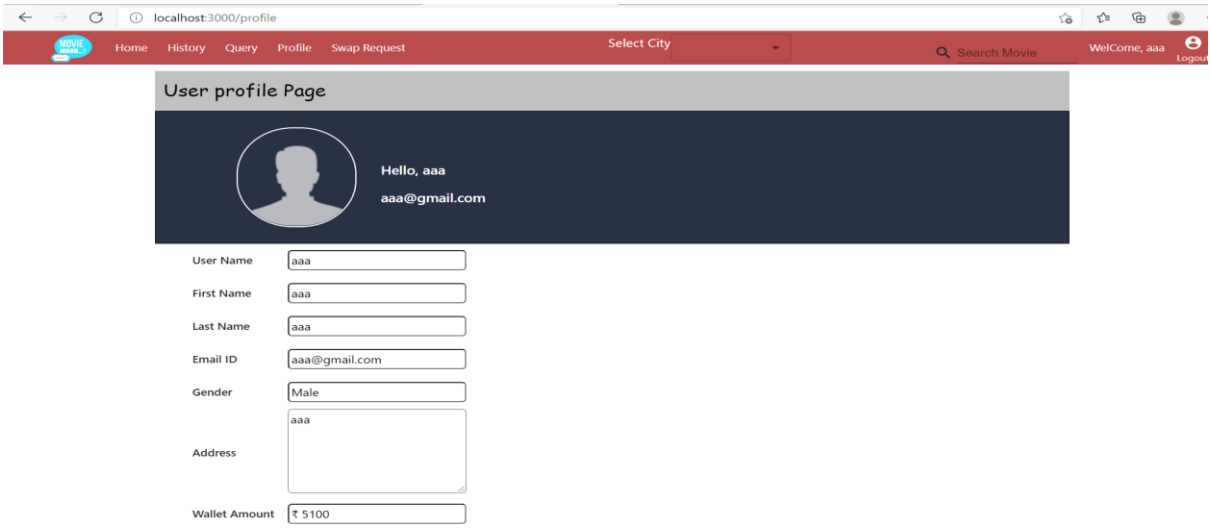


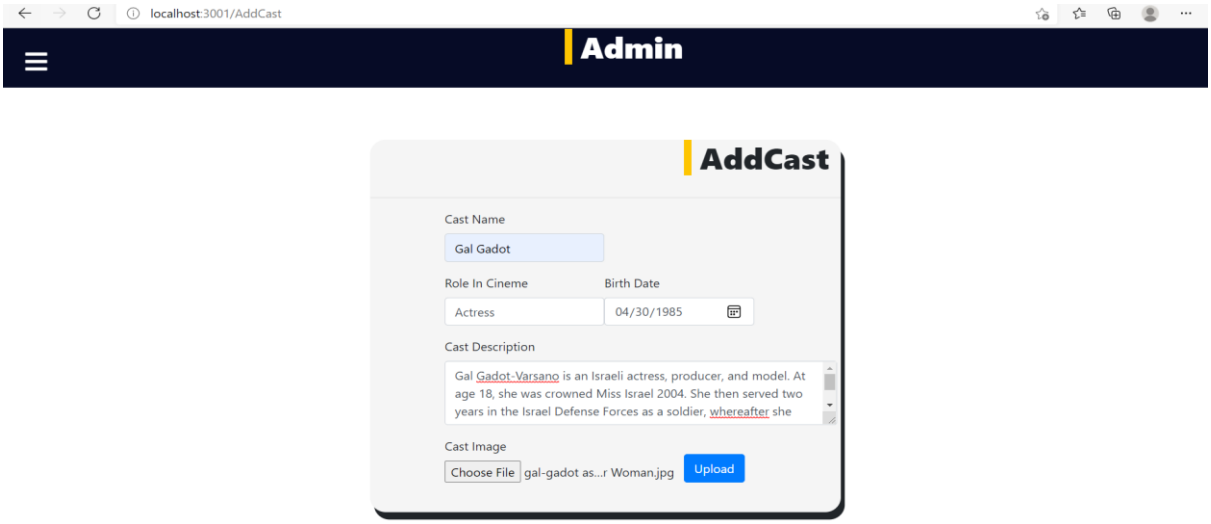


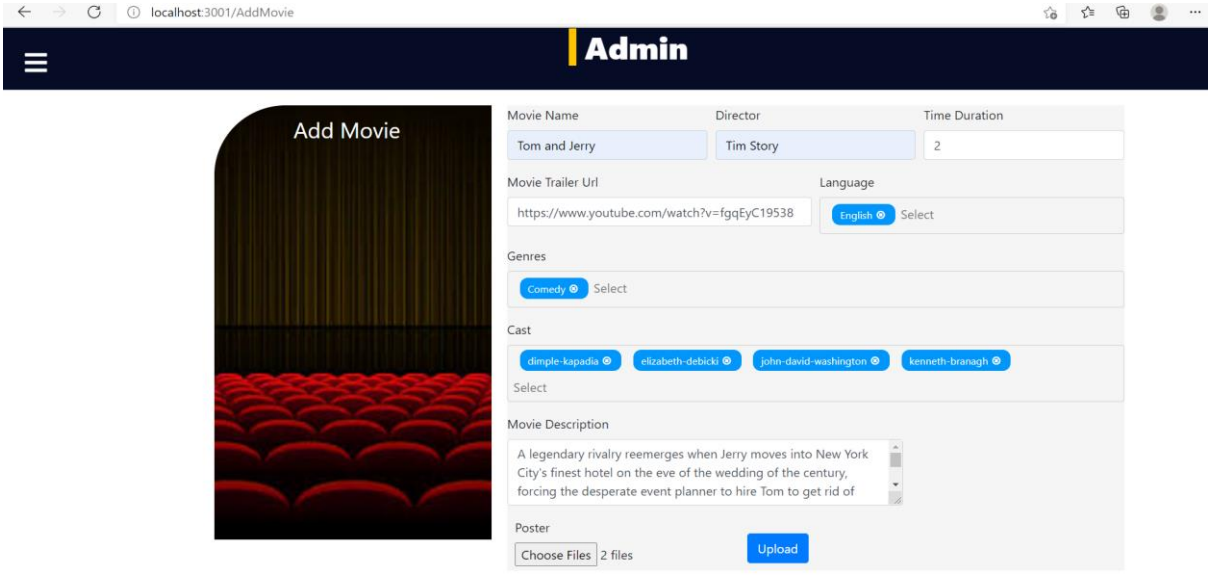
Index	UserName	EmailIs	
1	aaa	bookmytickets233361@gmail.com	Answer Delete
2	Rohit	bookmytickets233361@gmail.com	Answer Delete
3	Sunny	bookmytickets233361@gmail.com	Answer Delete
4	Jenish	bookmytickets233361@gmail.com	Answer Delete

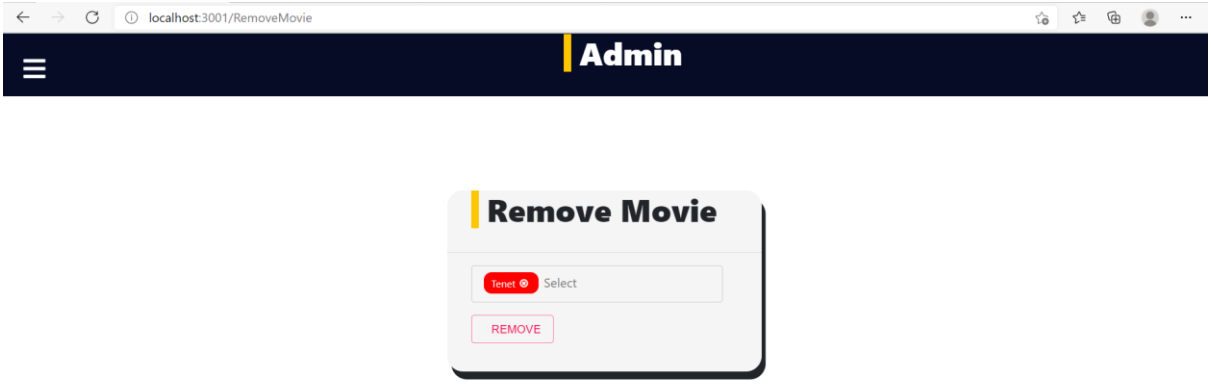

localhost:3001/UserQuerys
Customer Query
X
Index
1
2
3
4
Query
How To Create New Account??
Answer
Go To User Registaration Page, Then Register Your Self, Then Login.
Send
Close

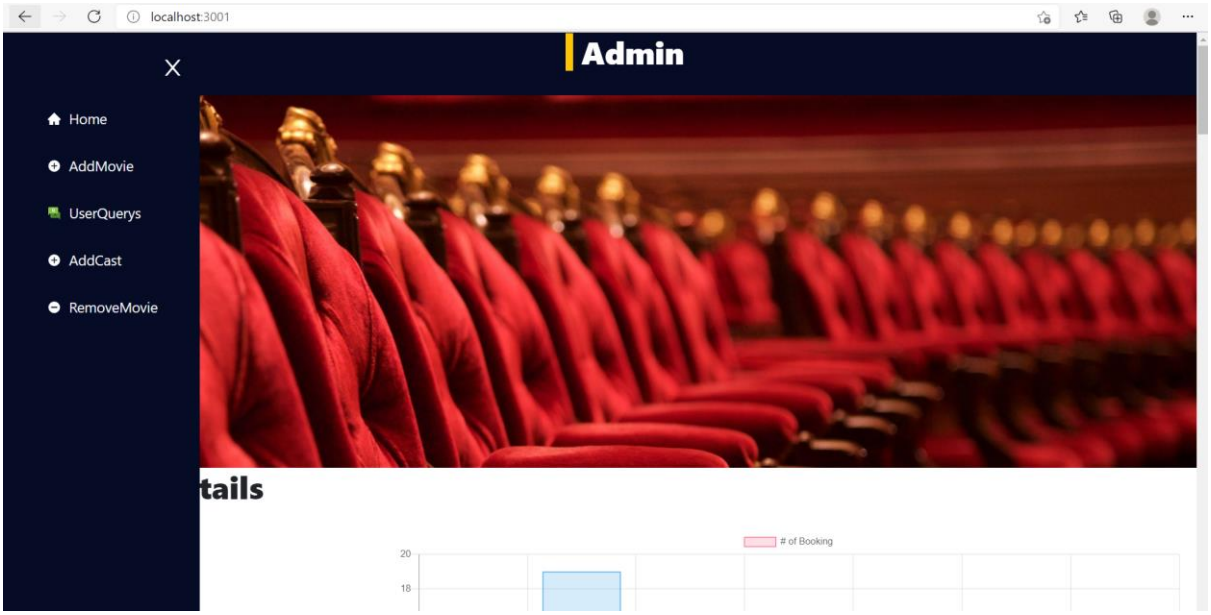

Gmail
Search mail
Compose
Inbox
Starred
Snoozed
Sent
Drafts
More
Meet
New meeting
Join a meeting
Hangouts
book
No recent chats
Start a new one
MovieMood
Inbox ×
bookmytickets233361@gmail.com
to me
9:56 PM (0 minutes ago)
Hello,
Replay Of Your Query:
Your Query: How To Create New Account??
Answer:=> Go To User Registaration Page, Then Register Your Self, Then Login.
Best wishes,
Movie Mood Team
Reply
Forward

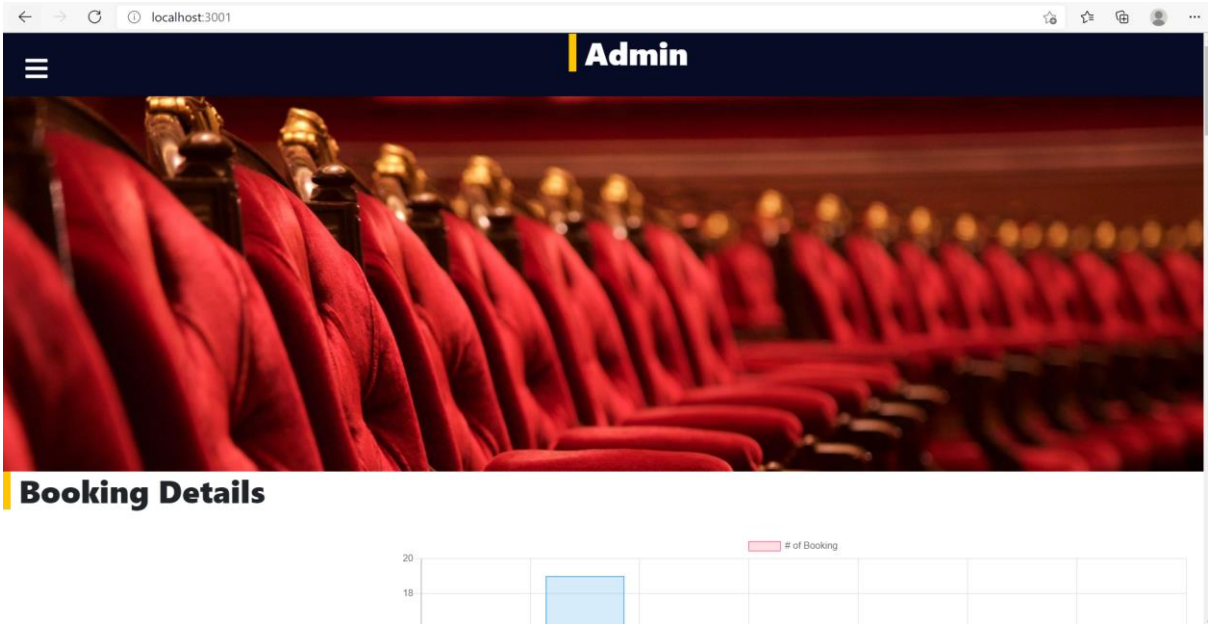

localhost:3000/profile
Home
History
Query
Profile
Swap Request
Select City
Search Movie
WelCome, aaa
Logout
User profile Page
Hello, aaa
aaa@gmail.com
User Name
aaa
First Name
aaa
Last Name
aaa
Email ID
aaa@gmail.com
Gender
Male
Address
aaa
Wallet Amount
₹ 5100

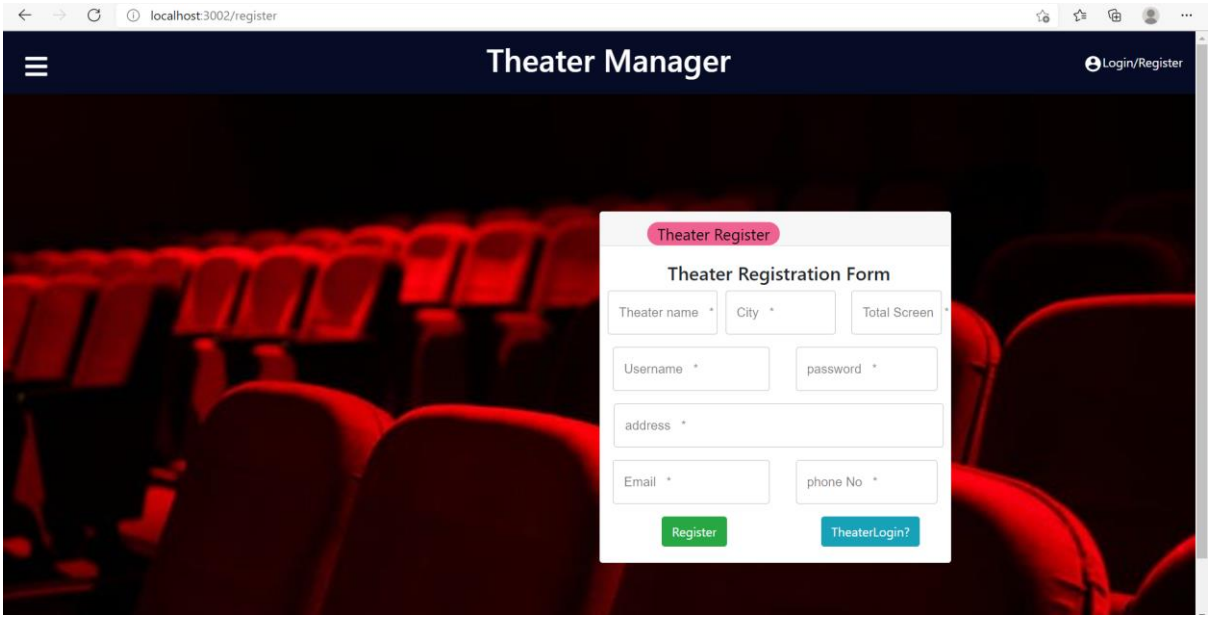

localhost:3001/AddCast
Admin
AddCast
Cast Name
Gal Gadot
Role In Cineme
Birth Date
Actress
04/30/1985
Cast Description
Gal Gadot-Varsano is an Israeli actress, producer, and model. At age 18, she was crowned Miss Israel 2004. She then served two years in the Israel Defense Forces as a soldier, whereafter she
Cast Image
Choose File
gal-gadot as...r Woman.jpg
Upload

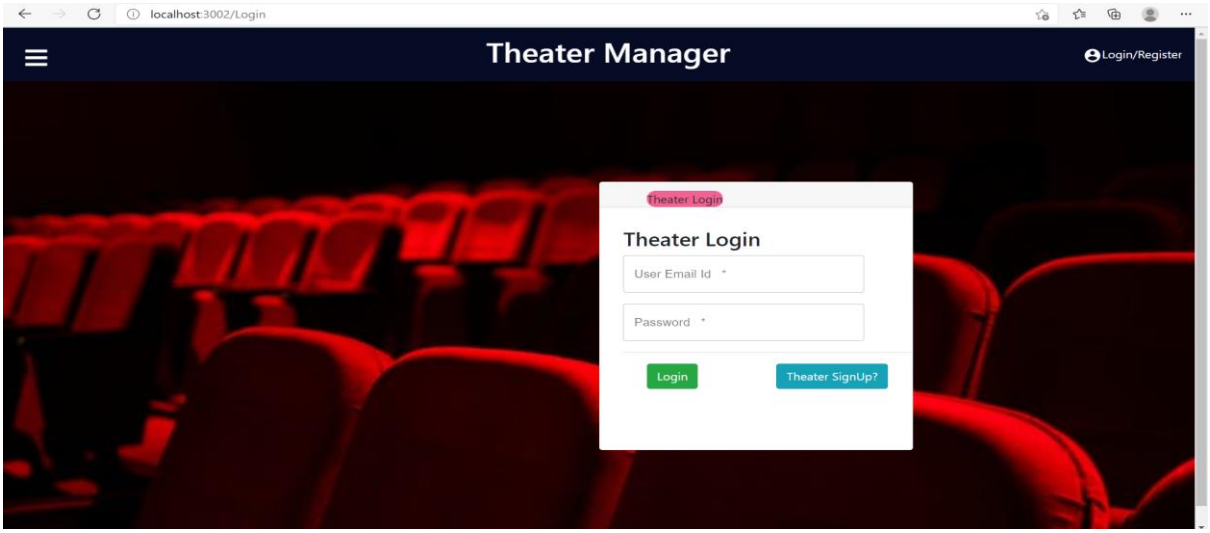

localhost:3001/AddMovie
Admin
Add Movie
Movie Name
Director
Time Duration
Tom and Jerry
Tim Story
2
Movie Trailer Url
Language
https://www.youtube.com/watch?v=fgqEyC19538
English
Select
Genres
Comedy
Select
Cast
dimple-kapadia
elizabeth-debicki
john-david-washington
kenneth-branagh
Select
Movie Description
A legendary rivalry reemerges when Jerry moves into New York City's finest hotel on the eve of the wedding of the century, forcing the desperate event planner to hire Tom to get rid of
Poster
Choose Files
2 files
Upload

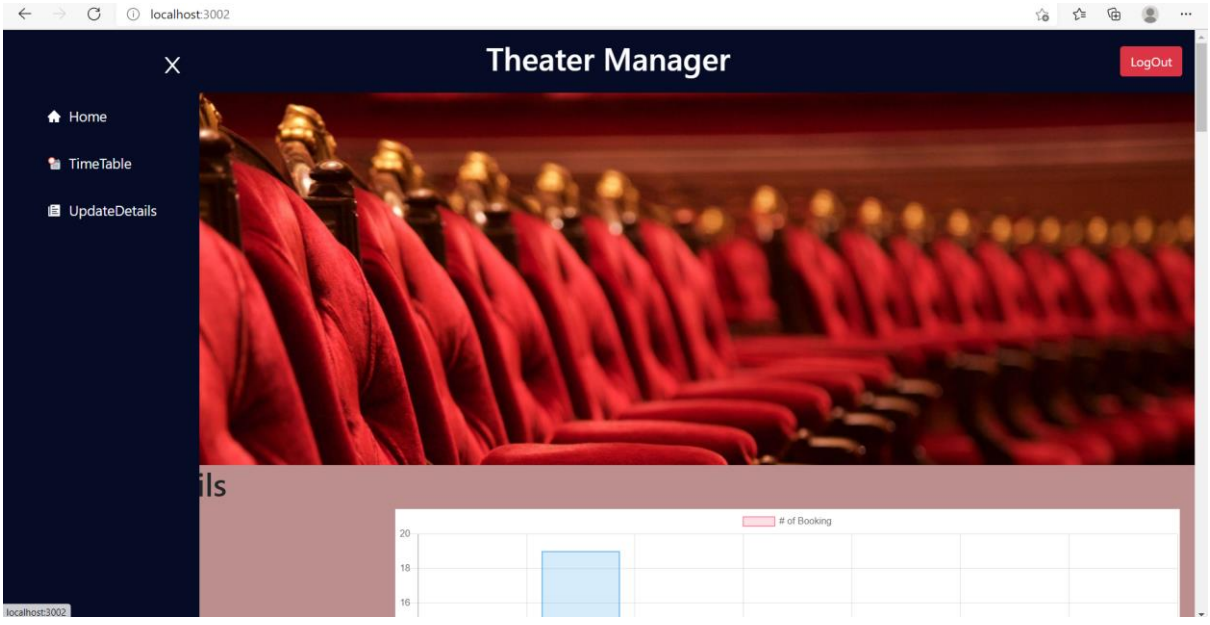

localhost:3001/RemoveMovie
Admin
Remove Movie
Tenet
Select
REMOVE

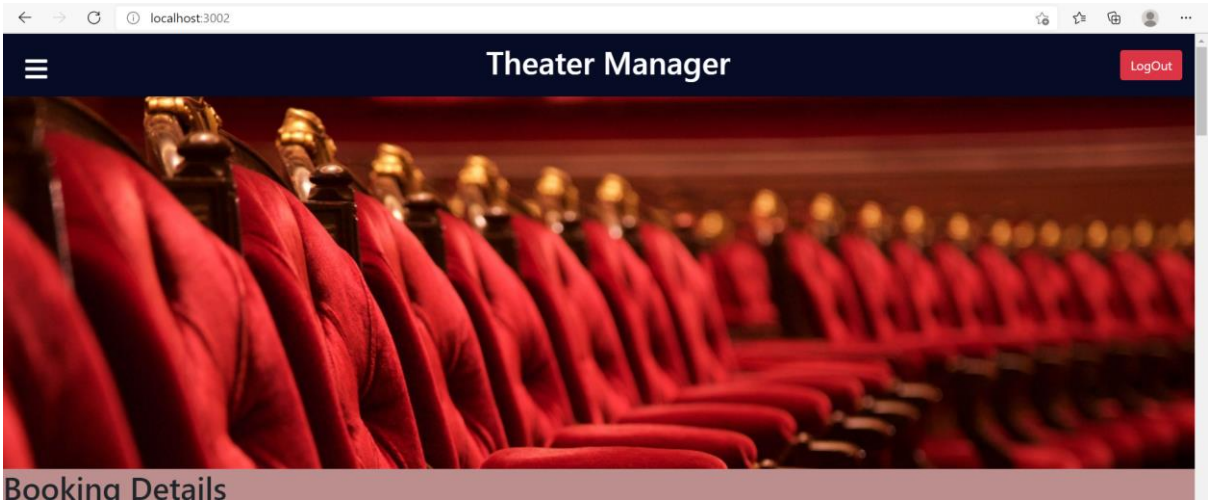

localhost:3001
Admin
Home
AddMovie
UserQuerys
AddCast
RemoveMovie
tails
# of Booking
20
18


localhost:3001
Admin
Booking Details
# of Booking
20
18

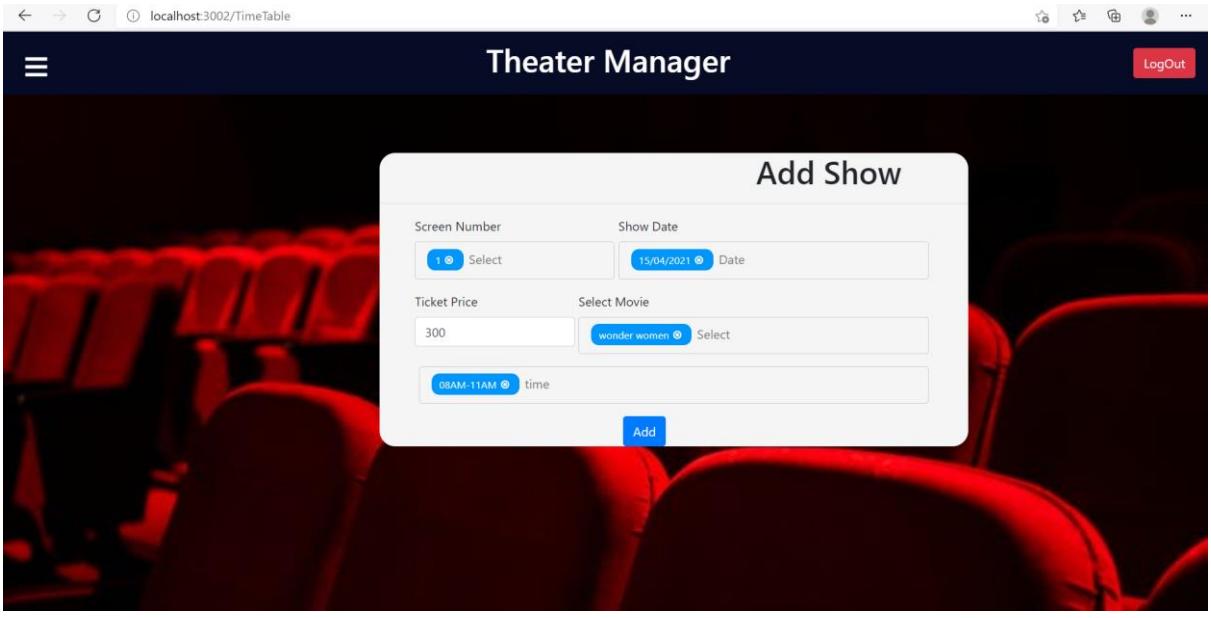

localhost:3002/register
Theater Manager
Login/Register
Theater Register
Theater Registration Form
Theater name *
City *
Total Screen *
Username *
password *
address *
Email *
phone No *
Register
TheaterLogin?

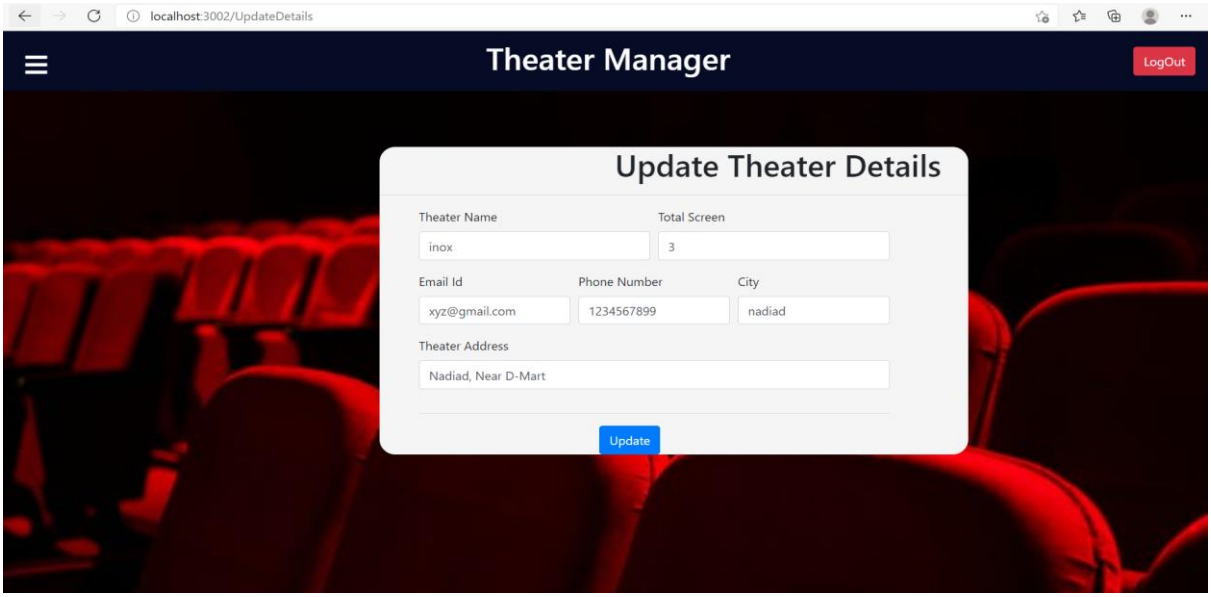

localhost:3002/Login
Theater Manager
Login/Register
Theater Login
Theater Login
User Email Id *
Password *
Login
Theater SignUp?


localhost:3002
Theater Manager
LogOut
Home
TimeTable
UpdateDetails
# of Booking
20
18
16
localhost:3002


localhost:3002
Theater Manager
LogOut
Booking Details

localhost:3002
Theater Manager
LogOut
Booking Details
# of Booking
20
18
16
14
12
10
8
6
4
2
0
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday


localhost:3002/TimeTable
Theater Manager
LogOut
Add Show
Screen Number
1
Select
Show Date
15/04/2021
Date
Ticket Price
300
Select Movie
wonder women
Select
08AM-11AM
time
Add



8. Conclusion

- In this project so many technology is used which is very useful at some, for some making fronted mode dynamic we have used the props which reduces the js code and increase the efficiency and passing data through front and to backend and for fetching data from the backend to frontend we have used reactjs which makes so easy to do this task and for backend wise nodejs is very easy to implement After All Using This Various technology, we have made a good project.

9. Limitation and Future Extension

- **Limitation**
  - ⇨ User Can not swap seat more then 1 at a time.
  - ⇨ User Can not get Any Offers.
  - ⇨ user can not see whole information of theaters
- **Extension**
  - ⇨ Implementation Of Adjust Functionality.
  - ⇨ Multi Seat Swapping at a time is possible.
  - ⇨ User Can Give Rating to movie and Theater.

10. Bibliography

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