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# **Online Movie Booking System**

A Report for the Evaluation 3 of Project 2

*Submitted By*

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of

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IN

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## **SCHOOL OF COMPUTING AND SCIENCE AND ENGINEERING**

### **BONAFIDE CERTIFICATE**

Certified that this project report “**Online Movie Booking System**” is the bonafide work of “**Tanmay Rastogi (1613101778)**” who carried out the project work under my supervision.

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## **Abstract**

Our project basically manages the ticket booking process of a multiplex, providing an interface to the user to book movie tickets in a more easy way. At the front end we have used HTML and at the back end My SQL server. The project proceeds through a sequence of well-designed forms provided with validations to ensure consistency, reliability and most importantly correctness of information fed into the database.

Online movies ticket booking reservation provides ticket booking for the film, seat management, ticket cancellation and payment services. The system will be so simple and attractive which will make the audiences/viewers comfortable to use and choose their movie along with desired seat no and seat position.

## **Introduction**

**OBJECTIVES:** Cinema-going is one of the most popular out-of-home cultural activities, affecting a serious of social, economic and cultural phenomena in modern societies. Cinemas are considered to be an integral part of cities and they contribute to the definition of a local geography and identity. They also contribute to the preservation of the collective memory, since they constitute a significant social and cultural practice linked to a specific place, which acts as a common reference or landmark for many individuals.

Through this project we present a comprehensive solution for ticket booking in multiplexes. Theater management system, an online ticket selling software that is easy to understand, easy to use and offers the simplicity of fast point-and-click service to the customers.

This powerful software program is specifically designed for theater owners, to sell tickets online. This intuitive visual interface makes day-to-day aspects of selling, exchanging, refunding, and reporting fast and easy for both the user and administrators. Theater management controls all back-end functionalities like, movie details, ticket rate and show time, customer information and sales history saved in a database, etc. Theater admin manages the report details like counter wise report, daily, weekly, monthly report and movie report etc.

**Login:** User enters User Name and password to login this software application.

**Admin:** The owner has full access to the system. The owner can graphically view all the details, and he has the authority to change the Cost of tickets, ticket Availability and much more. The owner is provided with an id and password.

He can put various kinds of notifications on the website. He can also check the details of seats left and seats reserved. He can also monitor the transactions made throughout the day and the month and an algorithm will check the progress in the booking of tickets. He also can give various kinds of offers to

the viewers. He can also keep some seats hidden from the users for their offline reservation. He can add new movies and their show timings. Also, he can delete some video from the website.

**Viewer:** In Viewer profile, the viewer can check the availability of tickets and their category. The category can be silver, gold or platinum and they can also book their ticket according to their budget and need. Viewer profile contains their name, Contact details, address, and other necessary personal data, etc.

They need to sign-up for booking the movie ticket, which will make them as well as the manager or the owner of the hall to interact with each other easily. They can pay the amount Online, and if they need to make payment Offline, they must deposit some advance amount to confirm their movie ticket.

**Manager Profile:** In Manager Profile, who so ever is the Manager he must log-in and then he can book the tickets of the film for the viewers, and this will serve the viewers in offline mode. When he will log-in into the system, his attendance will be taken, and it will be easy for the owner to monitor them. Here they will also get a notification of booked room so that they can beforehand maintain the place.

**Overall Description:** In Viewer profile, the viewer can check the availability of tickets and their category. The category can be silver, gold or platinum and they can also book their ticket according to their budget and need. Viewer profile contains their name, Contact details, address, and other necessary personal data etc.

They need to sign-up for booking the movie ticket, which will make them as well as the manager or the owner of the hall to interact with each other easily. They can pay the amount Online, and if they need to make payment Offline, they must deposit some advance amount to confirm their movie ticket.

In Manager Profile, who so ever is the Manager he must log-in and then he can book the tickets of the film for the viewers, and this will serve the viewers in offline mode.

**Purpose:** This module will help the viewer to see the details of the movies available for the show. He can even search for any specific film. The number of seats available will be displayed to the viewer along with their timings and the cost of different types of tickets.

It deals with the information of the rooms available for the video shows. Some multiplexes are there. In each multiplex four buildings are there, so the reservation of tickets goes according to the availability of seats in the multiplexes.

After filling the details like the name of the movie, category of cards, the timings of the show and the number of seats to be reserved, the viewers need to pay the money using different options available like cash/net banking/ATM card/credit/debit card. Payment portal would use a payment gateway to remove the fees. Once payment will clear receipt of payment will be generated automatically and the message will be sent to the viewer on his mobile.

## Existing System

For study of the existing system on online ticket booking system, we conducted a case study on a major ticket booking system present today in India.

**A case study on KVR Cinemas:** KVR Cinemas has broken many national records in field of cinema exhibition. Their theatres, the first chains of multiplexes in the country, boast of the highest box office collections in India for 5 consecutive years. The cumulative admissions till date have exceeded more than 6 million movie goers.

KVR Cinemas is a brand name synonymous with state-of-the-art cinema exhibition in India. It started operations as a joint venture between Krishna Exhibitors and Village Roadshow Pictures, one of the world's largest media distribution conglomerates. KVR Cinemas specializes in developing and operating state-of-the-art Multiplexes and has been a pioneer in multiplex development by setting up India's first - KVR Anupam 4, at Saket in city of Delhi. Over the last three years, KVR Cinemas has established itself as a very strong brand associated with movies, quality exhibition, food and youth targeted promotions.

The company presently has 4 multiplex theatres with 12 screens in the city of Delhi with another 7 screen theatre under construction in city of Gurgaon, which is the fastest growing suburb in India. By attracting a record number of urban middle & upper income consumers to the complex, major national & international brands - have opened their outlets in the multiplexes, making KVR the destination for complete family entertainment.

### **Situation**

Faced with an increasing number of customers standing in long queues outside their theatres, KVR faced the challenge of providing "Customer Delight". Customers desperately wanted a easy way of ordering and paying for their tickets without the delays and inconvenience of standing in long queues. KVR



needed a mechanism to administer their loyalty program "The KVR Movie Club", as well as provide for other promotional and membership services to help partners maximize their presence at the multiplexes. KVR Cinemas had introduced phone booking but it was not to prove viable, as customers were often "no-shows", leading to un-sold seats. This affected business profits.

## **Solution**

### **Movie Ticket Booking over the Internet**

In response to the KVR Cinemas requirements, we proposed an E business solution using Microsoft Platform which would enable movie goers to book their tickets electronically over the Internet from the comfort of their office or home. With the advent of the modern age, the typical user didn't have enough time to stand in line outside the theaters. The online solution allows users to select their shows, book and pay for their tickets. This guarantees them a ticket even before they arrive at the cinema hall.

### **Secure electronic booking through bank payment gateway**

Customers were provided with a convenient option of booking tickets through the Internet via a secure channel using Verisign SSL (Secure Socket Layer) and for the first-time the customers experienced the advantages of an electronic ordering system. This feature enabled customers to get confirmed tickets online from the web site by making payment using their credit card or debit cards. Trisoft integrated the online transaction seamlessly with the bank Payment Gateway Server.

In order to market the website to the customers and increase the customer base for online booking, KVR Cinemas introduced the concept of a movie club for those users who register themselves as members. Once a customer becomes a member, they are allowed to buy tickets within minutes using their credit cards and, can participate in contests and win prizes. Members can also subscribe to newsletters containing movie-related events and movie charts.

## **Statement of Account and Payment Reconciliation**

The application also provides the facility to generate an end-of-month statement of transactions executed by the system. This helps the KVR staff to reconcile their accounts with the Citibank Payment Gateway and has drastically reduced the time-consuming process of manual reconciliation.

## **Proposed System**

We propose a system which is more reliable, entertaining and easy than the present system.

- Our solution targets those users who do not have spare time to stand in queue for booking tickets. We propose an easy way of ordering and paying for the tickets without any delays and inconvenience.
- The people who book tickets are assured of a ticket before going to the theater without their physical presence.
- Customers who book tickets will receive an instant message (m-ticket) in their mobile phone. By splashing this m-ticket at the counter of multiplex, the customer can get the physical ticket.
- The staff at the multiplex no longer needs complicated manual ticket availability and tracking mechanisms for issuing tickets. The ticket information is stored securely in a database which can be accessed any time for verification.

This module will help the viewer to see the details of the movies available for the show. He can even search for any specific film. The number of seats available will be displayed to the viewer along with their timings and the cost of different types of tickets.

It deals with the information of the rooms available for the video shows. Some multiplexes are there. In each multiplex four buildings are there, so the reservation of tickets goes according to the availability of seats in the multiplexes.

After filling the details like the name of the movie, category of cards, the timings of the show and the number of seats to be reserved, the viewers need to pay the money using different options available like cash/net banking/ATM card/credit/debit card. Payment portal would use a payment gateway to remove the fees. Once payment will clear receipt of payment will be generated automatically and the message will be sent to the viewer on his mobile.

# Proposed Model



## **Implementation or Architecture Diagram**

The various system tools that have been used in developing both the front end, back end and other tools of the project are being discussed in this chapter.

### **FRONT END:**

JSP, HTML, CSS, JAVA SCRIPTS are utilized to implement the frontend.

### **Java Server Page (JSP)**

Different pages in the applications are designed using jsp. A java sever page component is a type of java servlet that is designed to fulfill the role of a user interface for a java web application. Web development write JSPs as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions and commands. Using JSP, one can collect input from users through web page.

### **HTML (Hyper Text Markup Language)**

HTML is a syntax used to format a text document on the web.

### **CSS (Cascading Style Sheets)**

CSS is a style sheet language used for describing the look and formatting of a document written in a markup language.

### **Java Script**

JS is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, Communicate asynchronously, and alter the document content that is displayed.

### **Django**

Django is a server-side scripting language designed for web development but also used as a general-purpose programming language. Django code is interpreted by a web server with a Django processor module, which generates

the resulting web page: Django commands can be embedded directly into an HTML source document rather than calling an external file to process data.

## **BACK END**

The back end is implemented using MYSQL which is used to design the databases.

## **MYSQL**

MySQL is the world's second most widely used open-source relational database management system (RDMS). The SQL phrase stands for structured query.

This complete System runs on the simple Interface where there are only three users, i.e., Owner, manager, and the viewer.

## **User Interface (UI) of Online Movies Ticket Booking:**

The user interface of online movies ticket booking is an essential part of the system. This helps every member of the order to interact with each detail correctly. As we have shown several use cases in this system. We have developed these interfaces to interact with the system.

### **Login Page:**

Owner or manager needs to log in using login id and password.

### **Viewer Page:**

Can view their details as well as Booking details.

### **Manager Page:**

He can make an offline booking of the available seats for any movie.

### **Payment Page:**

This interface helps in paying the money via several modes.

## E-R Diagram of Online Movies Ticket Booking:-



There are mainly Seven Entities Admin, Manager, Ticket Seller, viewer, hall, Payment, book. These five entities would manage the whole system.

### **Admin:**

Admin is a super user of the scheme. The owner is just like admin. The owner has all right to view and modify the data in the system. An owner has followings attributes.

### **Admin ID:**

This is numeric 14 digits number which is unique to every admin. Admin ID is the primary key to admin table in the database.

### **Name:**

This attribute would hold the name of the owner. The name is varchar type variable which holds the data length up to 250 characters.

### **Email:**

This is an essential attribute of the table. Every owner must have a working email id to keep in contact with employees. This field has validation only email formatted values will be stored.

### **Contact:**

This is multi valued attributes which mean every owner can have more the one

mobile number in database.

**Address:**

This quality would hold the address of the proprietor. Each employee must provide the address.

**Manager:**

The manager is a secondary user of the system. The manager can view all the details, manage the seats, booking, solve viewer's problem. The manager has followings attributes.

**Manager ID:**

This is numeric 14 digits number which is unique to every Manager. Manager ID is the primary key to Manager table in the database.

**Name:**

This attribute would hold the name of the manager. The name is varchar type variable which holds the data length up to 50 characters.

**Email:**

This is an essential attribute of the table. Every Manager must have a working email id to keep in contact with employees. This field has validation only email formatted values will be stored.

**Contact:**

This is multi valued attributes which mean every manager can have more than one mobile number in database.

**Address:**

This attribute would hold the address of admin. Each employee must provide the address. Admin address is verified via Human resource team.

**Ticket Seller:**

Ticket Seller has followings attributes.

**Emp ID:**

This is numeric 14 digits number which is unique to every Ticket Seller. Seller ID is the primary key to Ticket Seller table in the database.



**Name:**

This attribute would hold the name of the manager. The name is varchar type variable which holds the data length up to 50 characters.

**Email:**

This is an essential attribute of the table. Every Manager must have a working email id to keep in contact with employees. This field has validation only email formatted values will be stored.

**Contact:**

This is multi valued attributes which mean every manager can have more the one mobile number in database.

**Address:**

This attribute would hold the address of admin. Each employee must provide the address. Admin address is verified via Human resource team.

**Viewer:**

The viewer is the basic end user of the system. Most of the business is done through them. The viewer would book the tickets for the desired movie. The audience would provide the feedback. He has following attributes.

**Viewer ID:**

This is numeric 14 digits number which is unique to every Viewer. Viewer ID is the primary key to viewer table in the database.

**Name:**

This attribute would hold the name of spectators. The name is varchar type variable which contains the data length up to 50 characters.

**Email:**

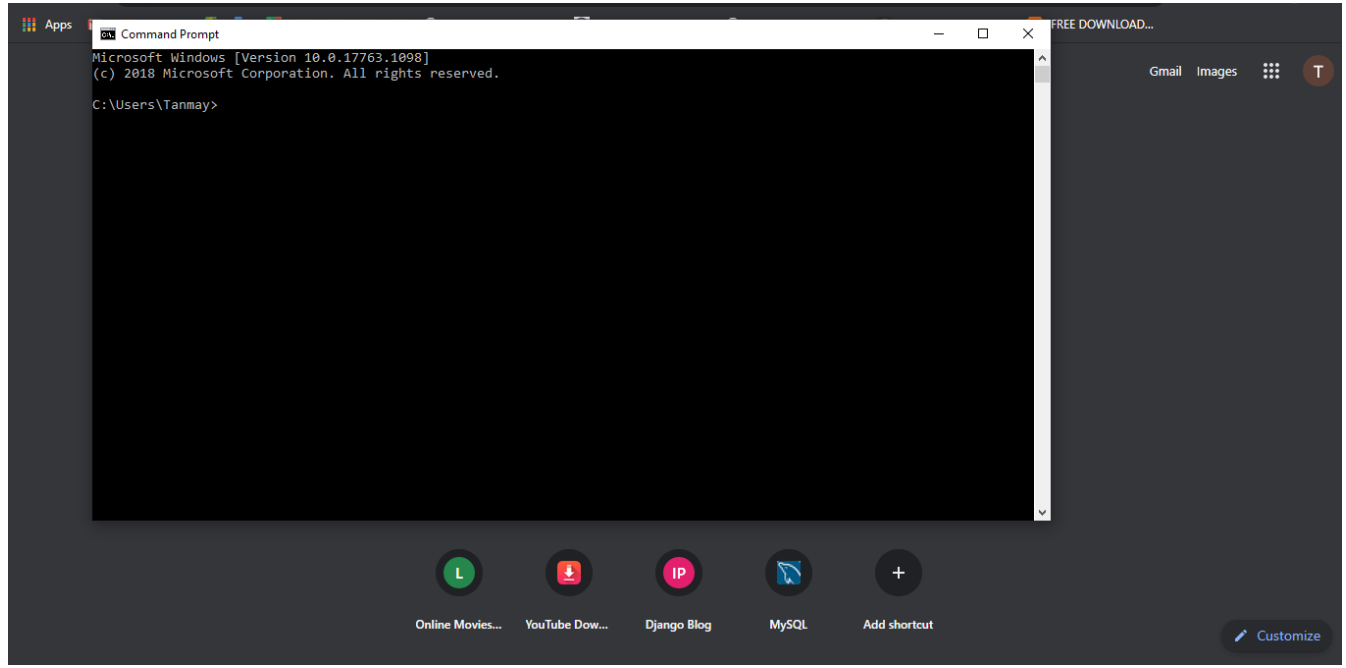
This is an essential attribute of the table. Every viewer must have a working email id. This field has validation only email formatted values will be stored.

**Address:**

This quality would hold the address of spectators. Address of viewers would help us to connect with them and visit the location. This would provide better service.

# OUTPUT/RESULT

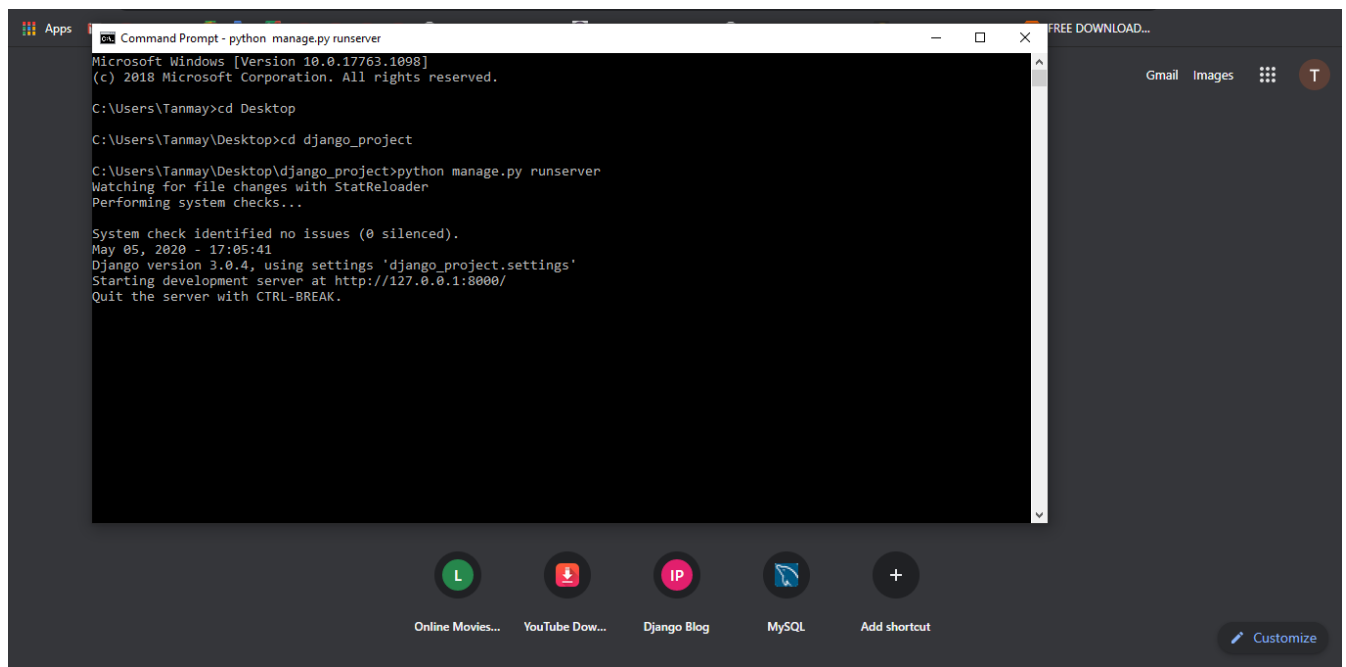
## Run Program:



```
Microsoft Windows [Version 10.0.17763.1098]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\tanmay>
```

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window displays the standard Windows system information and the current directory path "C:\Users\tanmay>". The background is a dark-themed desktop environment with several application shortcuts visible at the bottom, including "Online Movies...", "YouTube Dow...", "Django Blog", "MySQL", and "Add shortcut".

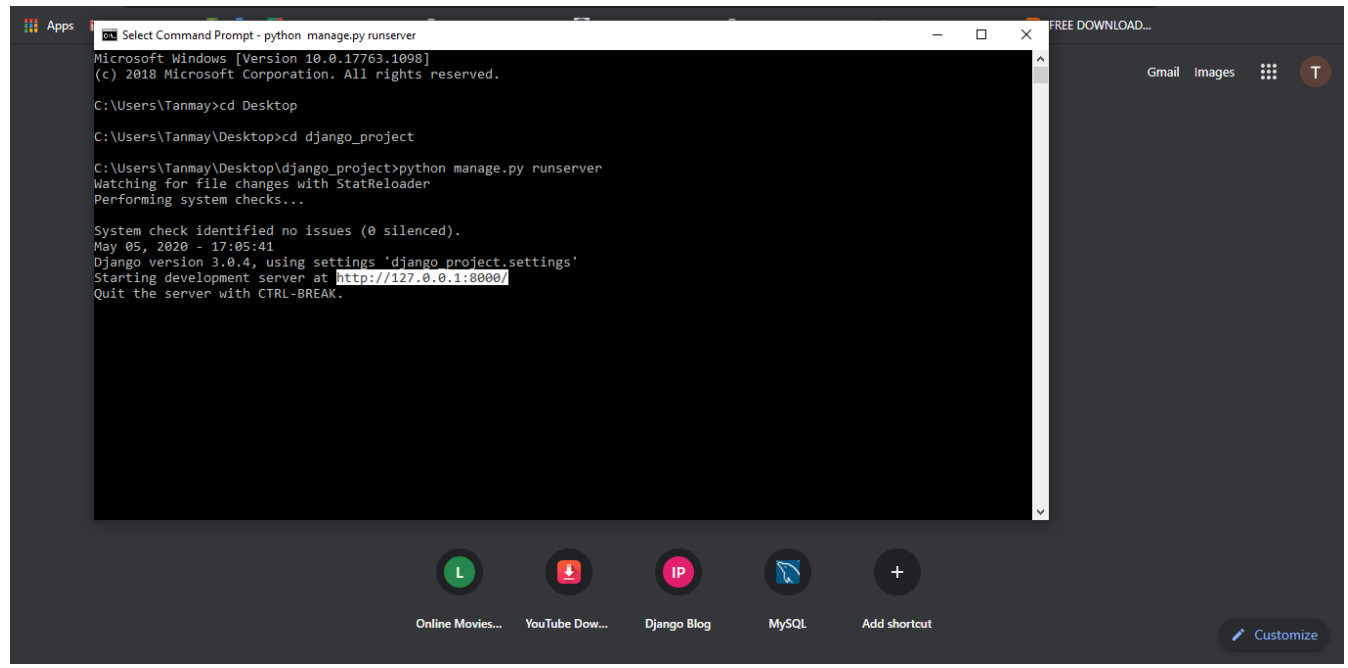


```
Microsoft Windows [Version 10.0.17763.1098]
(c) 2018 Microsoft Corporation. All rights reserved.

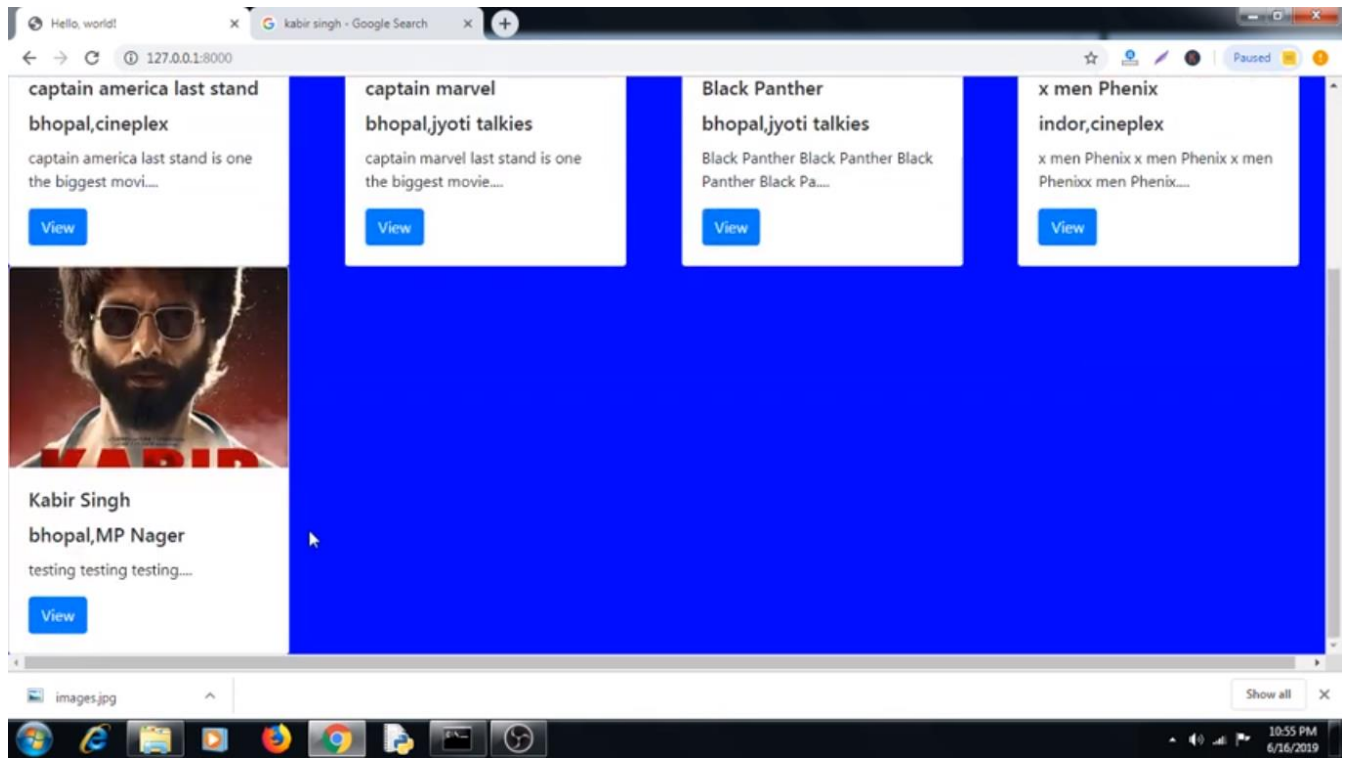
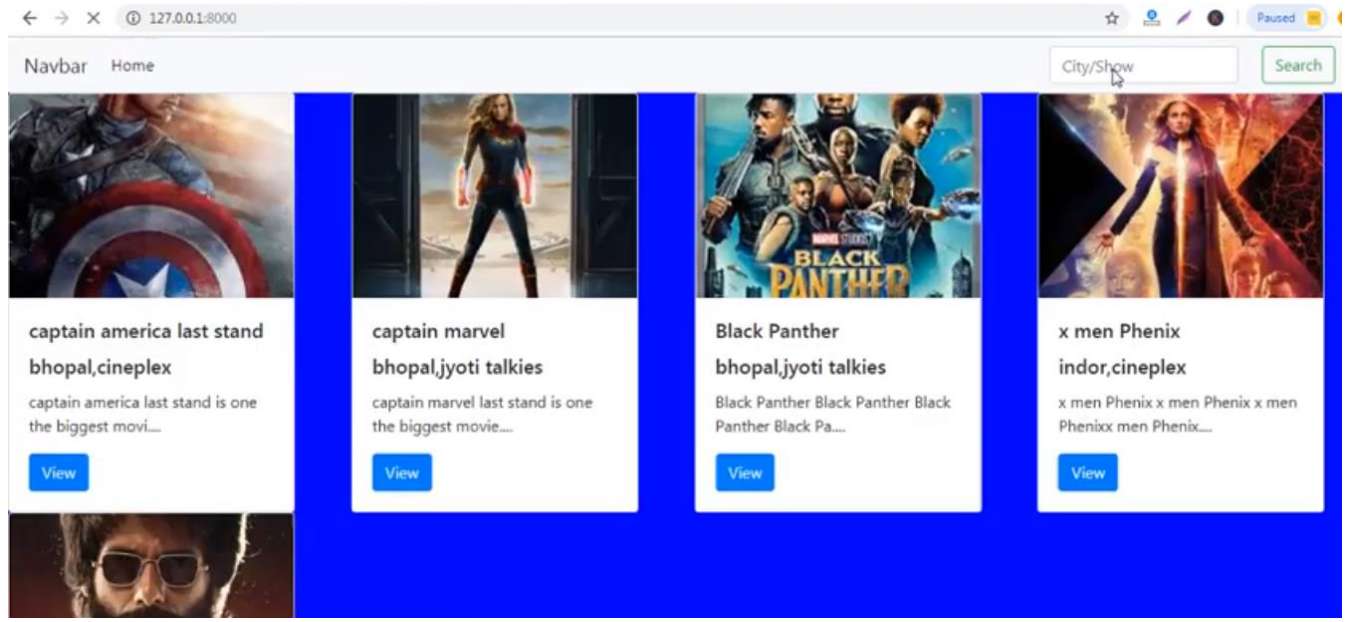
C:\Users\tanmay>cd Desktop
C:\Users\tanmay\Desktop>cd django_project
C:\Users\tanmay\Desktop\django_project>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
May 05, 2020 - 17:05:41
Django version 3.0.4, using settings 'django_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

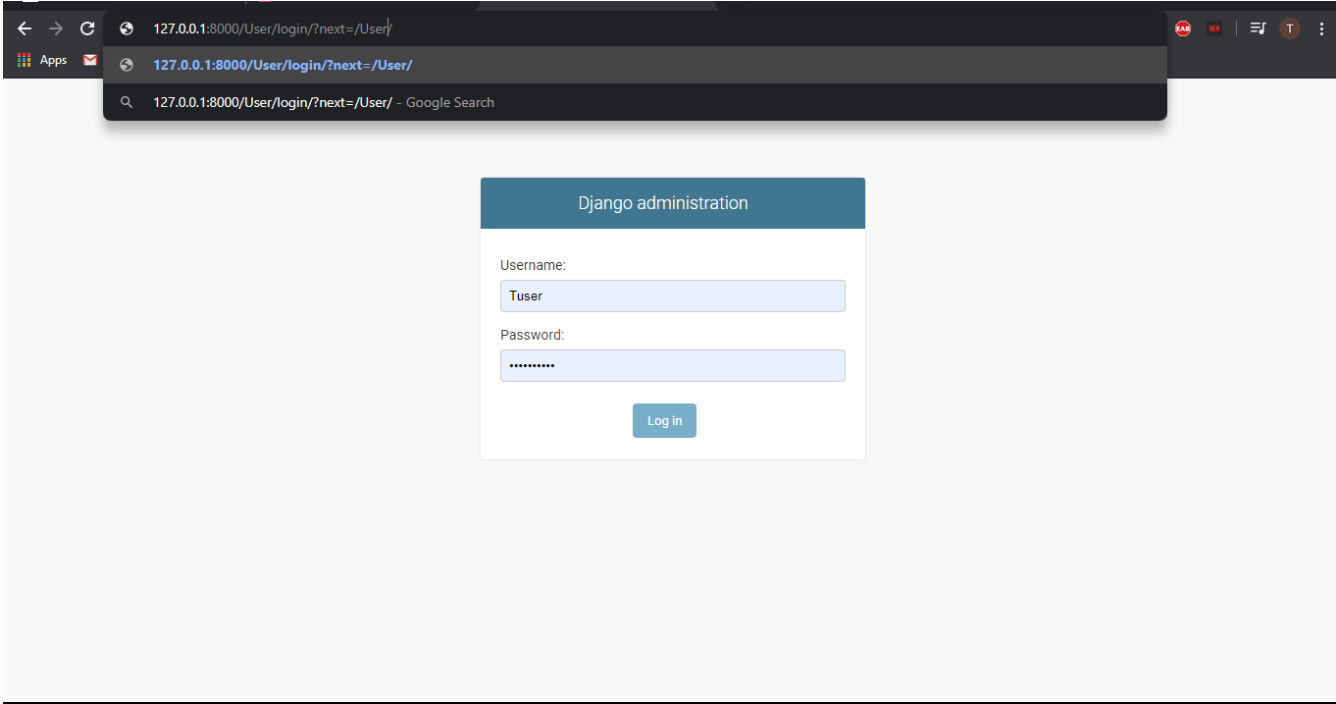
The screenshot shows the same Windows Command Prompt window after running the command "python manage.py runserver". The output displays the Django development server startup process, including system checks, the Django version (3.0.4), the settings file used, and the server URL (http://127.0.0.1:8000/). The server is now running and waiting for file changes.



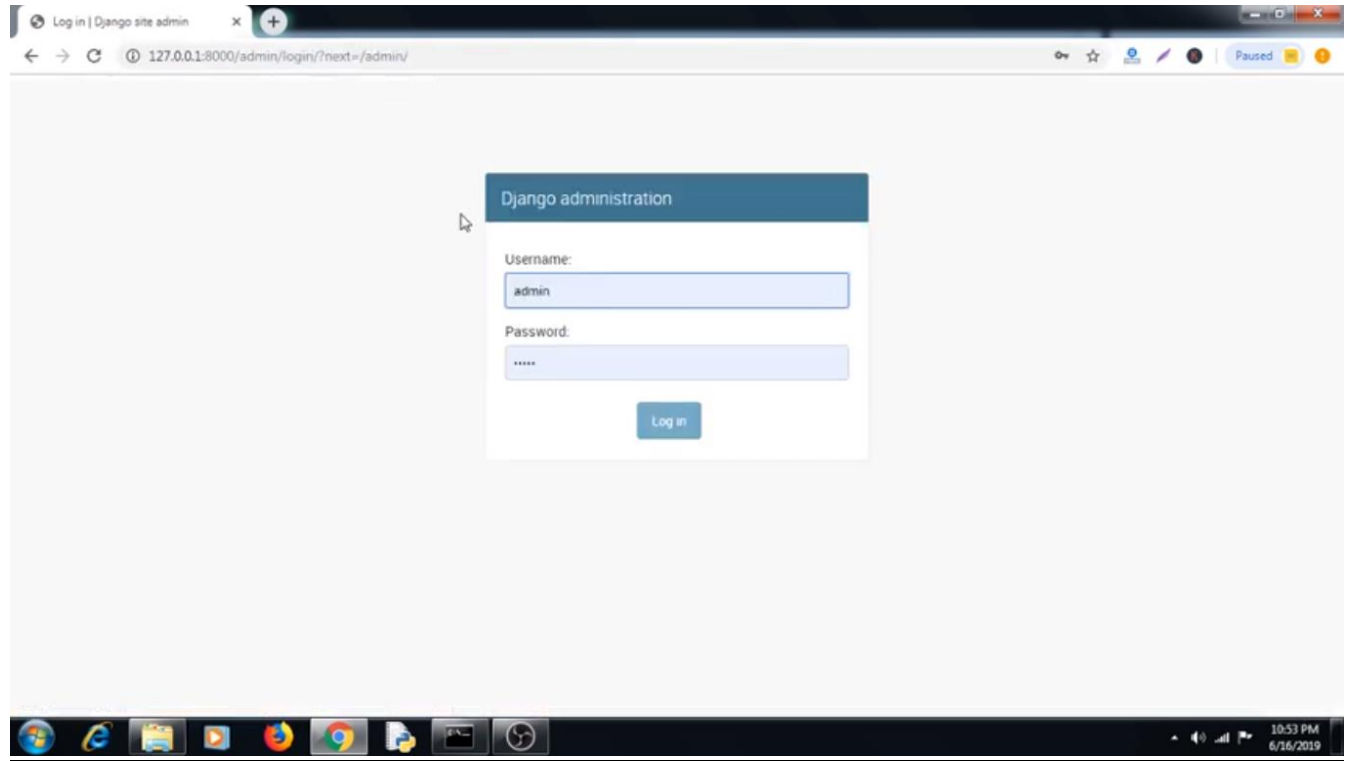
# First Screen:



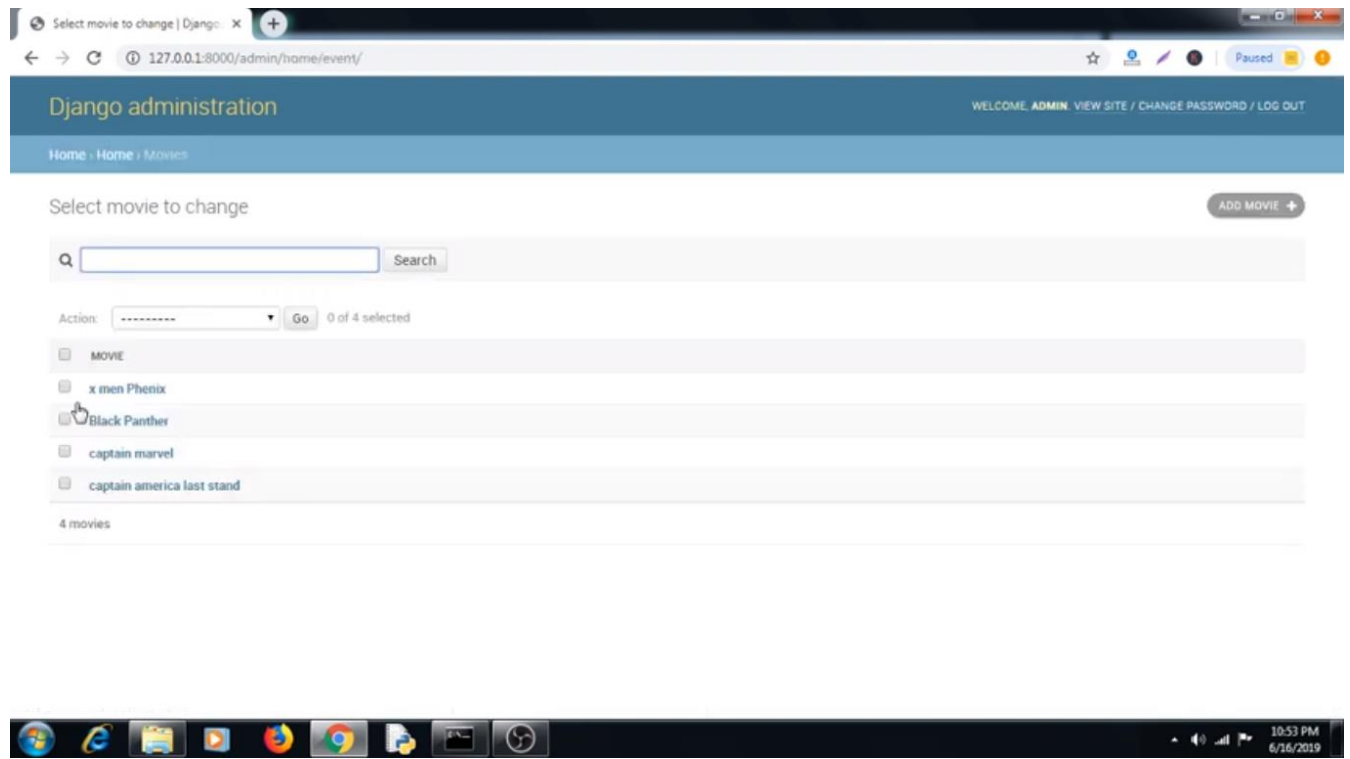
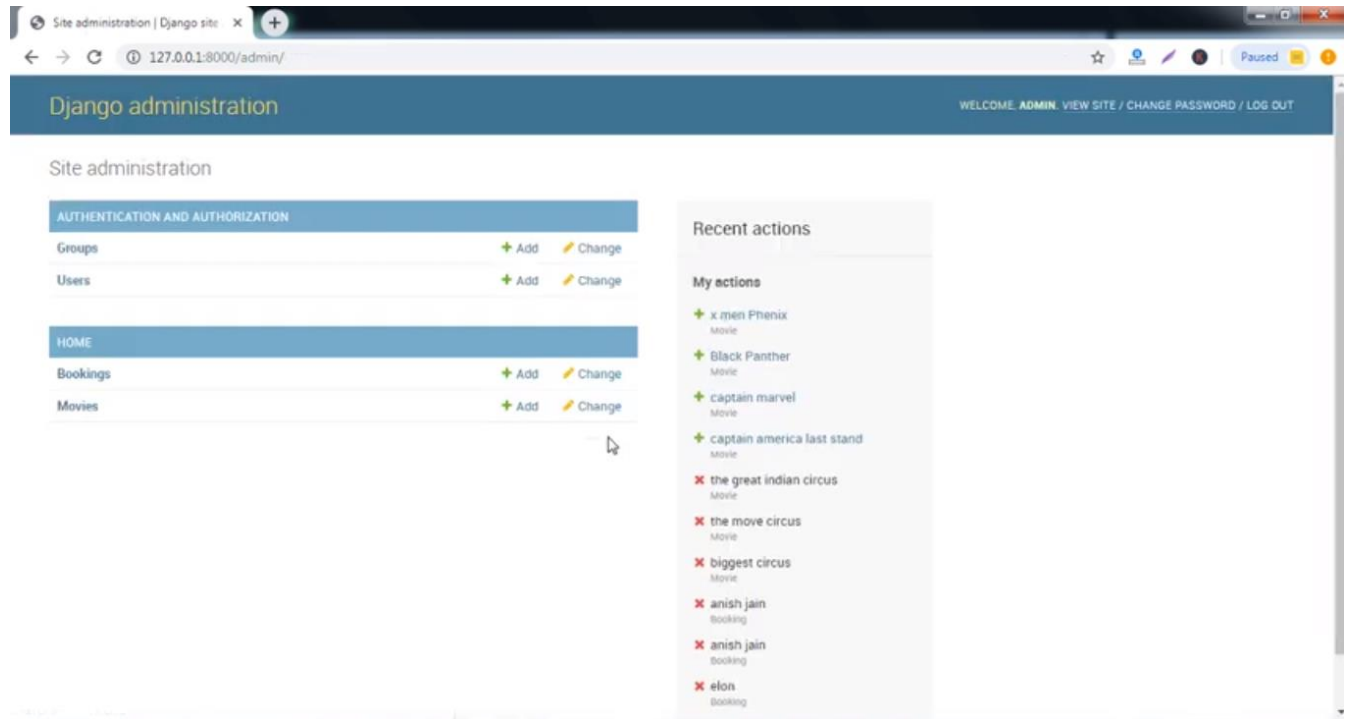
# User Login:

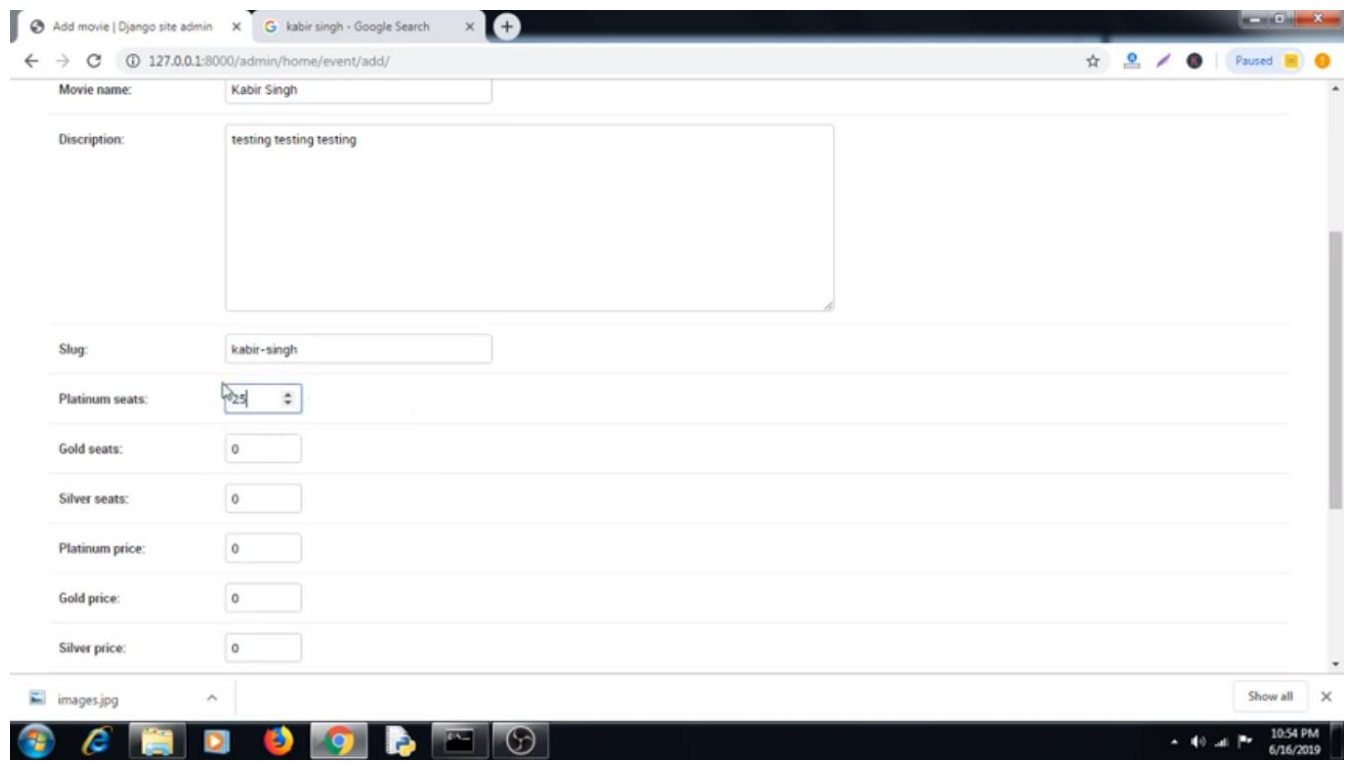
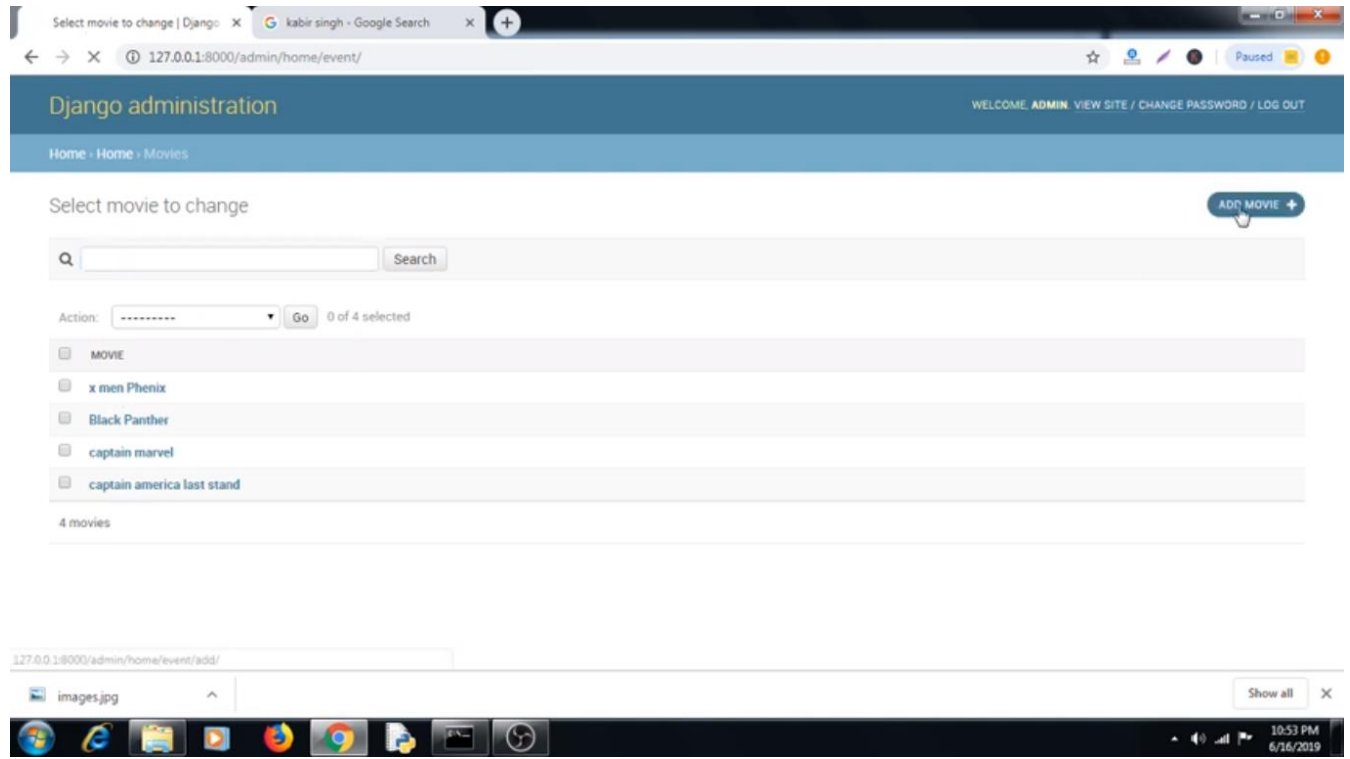


# Admin Login:



# Admin Control:







Student name\*

anshu I

Phone number\*

|

Registration grade\*

0

Grade years\*

0

Grade units\*

0

submit

## **Conclusion/Future Enhancement**

Nowadays, traditional reservation ways of cinema ticketing is dying. It's new age where technology dominates human life. With the software and technological devices, exceptions are reduced and even terminated. Also, people prefer easy, quick and safe way for every part of his life. This project is designed to meet the requirements of a cinema ticket booking system. It has been developed in PHP and the database has been built in My SQL server keeping in mind the specifications of the system.

In our project: with this cinema ticketing system; cinema companies can satisfy comfortable facilities to their customers. The relationship between cinema manager, employee, and customer satisfy a good communication to complete ticketing process. With this platform we developed, we are hoping to reduce time wasting, avoid misunderstandings, provide easy data flow, customer pleasure, and less hard work. We believe that we have accomplished our goals and satisfied with the code we developed.

## References

Img-1:<http://services.lovelycoding.org/wp-content/uploads/2017/08/CASE-OF MANAGER.png>

Img-2: Product Online Movie ticket booking system – Jatinder Kaur, Rajeev Kumar Bedi, S.k. Gupta

[1]: <http://services.lovelycoding.org/cinema-hall-booking-system/>

[2] A Silberschaltz, H.F. Korth, and S sudarshan, “Database System Concepts”, 3/e, TataMcgrawHill, 1997

[3]:<http://services.lovelycoding.org/cinema-hall-booking-system/>

[4]: <https://acadpubl.eu/hub/2018-119-15/4/725.pdf>

