

# **MOVIE RESERVATION MANAGEMENT SYSTEM**

**A MINI PROJECT REPORT**

**SUBMITTED BY**

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IN  
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**RAJALAKSHMI ENGINEERING COLLEGE  
THANDALAM  
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## **BONAFIDE CERTIFICATE**

Certified that this project report **“MOVIE RESERVATION MANAGEMENT SYSTEM”** is the Bonafide work of **“AVULA SNEYA DRITI(221701008), LIVIA MARY SEBASTIAN(221701033), MANJUSHREE M (221701036), SNEHA S (200701312)”** who carried out the project work under my supervision.

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## **ABSTRACT**

The objective of this project is to develop an efficient and user-friendly system for movie ticket booking. The application streamlines the process of selecting movies, showtimes, and available seats, ensuring seamless seat management. It includes features like dynamic seat availability updates, where booked seats are marked as unavailable to prevent double bookings. The system also facilitates secure user registration, login, and transaction management. By integrating real-time booking and administration functionalities, this project aims to enhance user convenience, minimize booking conflicts, and improve operational efficiency in the movie ticketing process.

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# **CHAPTER – 1**

## **INTRODUCTION**

### **1. INTRODUCTION**

The project enables users to efficiently book movie tickets and access essential information about seat availability and bookings. It provides real-time updates, ensuring convenience for users while offering a seamless ticket reservation experience.

### **2. SCOPE OF THE WORK**

The movie ticket booking system simplifies the process of reserving cinema seats, catering to the increasing demand for hassle-free and efficient ticket booking services. It offers quick access and enhanced usability for a diverse range of moviegoers, ensuring a user-friendly experience.

### **3. PROBLEM STATEMENT**

Many users face challenges in reserving movie tickets due to overcrowded booking platforms or unorganized booking systems at cinemas. This results in inconvenience, missed opportunities to secure desired seats, and dissatisfaction among moviegoers. The need for an efficient and accessible system is paramount to addressing these challenges.

### **1.4 AIM AND OBJECTIVES OF THE PROJECT**

The main objective of this project is to allocate available movie seats based on customer requirements while preventing double bookings. The system ensures real-time seat availability updates, tracks bookings effectively, and enhances the overall user experience. Additionally, it aims to streamline operations for cinemas and provide an edge over competitors through efficient service.

## **CHAPTER – 2**

### **SYSTEM SPECIFICATIONS**

#### **2.1        HARDWARE SPECIFICATIONS**

Processor	:	Intel i5
Memory Size	:	8GB (Minimum)
HDD	:	1 TB (Minimum)

#### **2.2        SOFTWARE SPECIFICATIONS**

Operating System	:	WINDOWS 10
Front – End	:	Python (Tkinter for GUI)
Back - End	:	SQLite
Language	:	python,SQL

## **CHAPTER - 3**

### **MODULE DESCRIPTION**

This application consists of two modules. Upon launching, the program will present a login window where the user can log in either as an Administrator or a User. The description of the modules is as follows:

#### **1. Admin Login**

When logging in as an Admin, the user must provide valid credentials (username and password). The administrator holds the authority to update, modify, or manage the data stored in the database, ensuring the system runs smoothly and efficiently.

#### **2. User Login**

When logging in as a User, the individual can access functionalities such as viewing seat availability, booking tickets, and confirming reservations. User interactions are processed and reflected in the system, ensuring seamless ticket booking.



## CHAPTER - 4

### SAMPLE CODING

```
import sqlite3
import tkinter as tk
from tkinter import messagebox

class MovieBookingApp:
    def __init__(self, root):
        self.root = root
        self.root.title("BookYoShow - Movie Ticket Booking")

        self.root.geometry("1000x800") # Full window size
        self.root.configure(bg="#2C3E50") # Dark background color

        self.login_frame = tk.Frame(self.root, bg="#34495E")
        self.booking_frame = tk.Frame(self.root, bg="#34495E")
        self.theater_frame = tk.Frame(self.root, bg="#34495E")
        self.confirmation_frame = tk.Frame(self.root, bg="#34495E")

        # Application Title
        tk.Label(self.login_frame, text="BookYoShow", fg="#3498DB", bg="#34495E",
font=("Arial", 24, "bold")).grid(row=0, column=0, columnspan=2, pady=20)

        # Create Login Page
        self.create_login_page()

    def create_login_page(self):
        self.login_frame.pack(pady=50, padx=50)

        # Username Label
        tk.Label(self.login_frame, text="Username:", fg="white", bg="#34495E", font=("Arial",
12)).grid(row=1, column=0, padx=10, pady=10)
        self.username_entry = tk.Entry(self.login_frame, width=30, font=("Arial", 12), bd=2,
relief="solid", highlightthickness=1, highlightcolor="#3498DB")
        self.username_entry.grid(row=1, column=1, padx=10, pady=10)

        # Password Label
        tk.Label(self.login_frame, text="Password:", fg="white", bg="#34495E", font=("Arial",
12)).grid(row=2, column=0, padx=10, pady=10)
        self.password_entry = tk.Entry(self.login_frame, show="*", width=30, font=("Arial",
12), bd=2, relief="solid", highlightthickness=1, highlightcolor="#3498DB")
        self.password_entry.grid(row=2, column=1, padx=10, pady=10)

        # Login Button
        login_button = tk.Button(self.login_frame, text="Login", font=("Arial", 14),
bg="#3498DB", fg="white", relief="flat", command=self.check_login)
```

```

login_button.grid(row=3, column=0, columnspan=2, pady=20, ipadx=10, ipady=5)

# Sign Up Button
signup_button = tk.Button(self.login_frame, text="Sign Up", font=("Arial", 12),
bg="#3498DB", fg="white", relief="flat", command=self.show_signup_page)
signup_button.grid(row=4, column=0, columnspan=2, pady=10, ipadx=10, ipady=5)

def check_login(self):
    username = self.username_entry.get()
    password = self.password_entry.get()

    if not username or not password:
        messagebox.showerror("Input Error", "Please enter both username and password!")
        return

    # Check if user exists in the database and determine if they're an admin
    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()
    cursor.execute("SELECT is_admin FROM users WHERE username=? AND
password=?", (username, password))
    result = cursor.fetchone()
    conn.close()

    if result:
        self.is_admin = result[0] # 1 if admin, 0 otherwise
        self.login_frame.pack_forget()
        self.create_theater_selection_page()
    else:
        messagebox.showerror("Login Error", "Invalid username or password!")

def show_signup_page(self):
    # Create a new window for signup
    signup_window = tk.Toplevel(self.root)
    signup_window.title("Sign Up")
    signup_window.geometry("400x400")
    signup_window.configure(bg="#34495E")

    tk.Label(signup_window, text="Sign Up", fg="#3498DB", bg="#34495E",
font=("Arial", 20, "bold")).pack(pady=20)

    # Username Label and Entry
    tk.Label(signup_window, text="Username:", fg="white", bg="#34495E", font=("Arial",
12)).pack(pady=10)
    username_entry = tk.Entry(signup_window, width=30, font=("Arial", 12))
    username_entry.pack(pady=10)

    # Password Label and Entry
    tk.Label(signup_window, text="Password:", fg="white", bg="#34495E", font=("Arial",
12)).pack(pady=10)
    password_entry = tk.Entry(signup_window, show="*", width=30, font=("Arial", 12))

```

```

password_entry.pack(pady=10)

# Sign Up Button in the signup window
def register_user():
    username = username_entry.get()
    password = password_entry.get()

    if not username or not password:
        messagebox.showerror("Input Error", "Please enter both username and password!")
        return

    # Save the user details to the database
    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()
    try:
        cursor.execute("INSERT INTO users (username, password, is_admin) VALUES (?, ?, 0)", (username, password))
        conn.commit()
        messagebox.showinfo("Success", "Registration successful! Please log in.")
        signup_window.destroy()
    except sqlite3.IntegrityError:
        messagebox.showerror("Error", "Username already exists. Please choose a different username.")
    finally:
        conn.close()

    signup_button = tk.Button(signup_window, text="Register", font=("Arial", 14),
bg="#3498DB", fg="white", relief="flat", command=register_user)
    signup_button.pack(pady=20, ipadx=10, ipady=5)

def create_theater_selection_page(self):
    self.booking_frame.pack_forget() # Hide any previous frames
    self.theater_frame.pack(pady=50)

    tk.Label(self.theater_frame, text="BookYoShow", fg="#3498DB", bg="#34495E",
font=("Arial", 24, "bold")).grid(row=0, column=0, columnspan=2, pady=20)

    # Show Add/Delete Theater options if user is admin
    if self.is_admin:
        add_theater_button = tk.Button(self.theater_frame, text="Add Theater",
font=("Arial", 14), bg="#3498DB", fg="white", relief="flat", command=self.add_theater)
        add_theater_button.grid(row=1, column=0, pady=10, ipadx=10, ipady=5)

        delete_theater_button = tk.Button(self.theater_frame, text="Delete Theater",
font=("Arial", 14), bg="#3498DB", fg="white", relief="flat", command=self.delete_theater)
        delete_theater_button.grid(row=1, column=1, pady=10, ipadx=10, ipady=5)

    # Theater Listbox
    tk.Label(self.theater_frame, text="Select a Theater", fg="white", bg="#34495E",
font=("Arial", 16)).grid(row=2, column=0, padx=10, pady=10)

```

```

        self.theater_listbox = tk.Listbox(self.theater_frame, height=5, width=30, font=("Arial",
12), bd=2, relief="solid", selectbackground="#3498DB", selectmode="single")
        self.theater_listbox.grid(row=3, column=0, columnspan=2, padx=10, pady=10)
        self.populate_theaters()

    # Select Theater Button
    select_theater_button = tk.Button(self.theater_frame, text="Select Theater",
font=("Arial", 14), bg="#3498DB", fg="white", relief="flat", command=self.show_movies)
    select_theater_button.grid(row=4, column=0, columnspan=2, pady=20, padx=10,
ipady=5)

def add_theater(self):
    def save_theater():
        name = theater_name_entry.get()
        if not name:
            messagebox.showerror("Input Error", "Please enter a theater name!")
            return

        conn = sqlite3.connect('movie_booking_system.db')
        cursor = conn.cursor()
        cursor.execute("INSERT INTO theaters (name) VALUES (?)", (name,))
        conn.commit()
        conn.close()

        messagebox.showinfo("Success", f"Theater '{name}' added successfully!")
        theater_window.destroy()
        self.populate_theaters()

    # Add Theater Window
    theater_window = tk.Toplevel(self.root)
    theater_window.title("Add Theater")
    theater_window.geometry("300x200")
    theater_window.configure(bg="#34495E")

    tk.Label(theater_window, text="Enter Theater Name:", fg="white", bg="#34495E",
font=("Arial", 12)).pack(pady=20)
    theater_name_entry = tk.Entry(theater_window, font=("Arial", 12), width=20)
    theater_name_entry.pack(pady=10)

    save_button = tk.Button(theater_window, text="Save", font=("Arial", 12),
bg="#3498DB", fg="white", command=save_theater)
    save_button.pack(pady=10)

def delete_theater(self):
    selected_theater = self.theater_listbox.get(tk.ACTIVE)
    if not selected_theater:
        messagebox.showerror("Selection Error", "Please select a theater to delete!")
        return

    conn = sqlite3.connect('movie_booking_system.db')

```

```

cursor = conn.cursor()
cursor.execute("DELETE FROM theaters WHERE name=?", (selected_theater,))
conn.commit()
conn.close()

messagebox.showinfo("Success", f"Theater '{selected_theater}' deleted successfully!")
self.populate_theaters()

def populate_theaters(self):
    self.theater_listbox.delete(0, tk.END)
    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()
    cursor.execute("SELECT name FROM theaters")
    theaters = cursor.fetchall()
    conn.close()

    for theater in theaters:
        self.theater_listbox.insert(tk.END, theater[0])

def show_movies(self):
    selected_theater_index = self.theater_listbox.curselection()
    if not selected_theater_index:
        messagebox.showerror("Selection Error", "Please select a theater!")
        return

    selected_theater_id = selected_theater_index[0] + 1

    # Clear previous selections (if any)
    for widget in self.theater_frame.winfo_children():
        widget.grid_forget()

    # Movie Label
    tk.Label(self.theater_frame, text="Select a Movie", fg="white", bg="#34495E",
font=("Arial", 16)).grid(row=0, column=0, padx=10, pady=10)

    # Movie Listbox
    self.movie_listbox = tk.Listbox(self.theater_frame, height=5, width=30, font=("Arial",
12), bd=2, relief="solid", selectbackground="#3498DB", selectmode="single")
    self.movie_listbox.grid(row=1, column=0, padx=10, pady=10)
    self.populate_movies(selected_theater_id)

    # Select Movie Button
    select_movie_button = tk.Button(self.theater_frame, text="Select Movie", font=("Arial",
14), bg="#3498DB", fg="white", relief="flat", command=self.show_showtimes)
    select_movie_button.grid(row=2, column=0, pady=20, ipadx=10, ipady=5)

def populate_movies(self, theater_id):
    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()
    cursor.execute("SELECT title FROM movies WHERE theater_id=?", (theater_id,))

```

```

movies = cursor.fetchall()
conn.close()

for movie in movies:
    self.movie_listbox.insert(tk.END, movie[0])

def show_showtimes(self):
    selected_movie_index = self.movie_listbox.curselection()
    if not selected_movie_index:
        messagebox.showerror("Selection Error", "Please select a movie!")
        return

    movie_title = self.movie_listbox.get(selected_movie_index)

    # Clear previous selections (if any)
    for widget in self.theater_frame.winfo_children():
        widget.grid_forget()

    # Showtime Label
    tk.Label(self.theater_frame, text="Select Showtime", fg="white", bg="#34495E",
font=("Arial", 16)).grid(row=0, column=0, padx=10, pady=10)

    # Showtime Listbox
    self.showtime_listbox = tk.Listbox(self.theater_frame, height=5, width=30,
font=("Arial", 12), bd=2, relief="solid", selectbackground="#3498DB", selectmode="single")
    self.showtime_listbox.grid(row=1, column=0, padx=10, pady=10)
    self.populate_showtimes(movie_title)

    # Select Showtime Button
    select_showtime_button = tk.Button(self.theater_frame, text="Select Showtime",
font=("Arial", 14), bg="#3498DB", fg="white", relief="flat", command=self.show_seating)
    select_showtime_button.grid(row=2, column=0, pady=20, padx=10, ipady=5)

    def populate_showtimes(self, movie_title):
        conn = sqlite3.connect('movie_booking_system.db')
        cursor = conn.cursor()
        cursor.execute("SELECT time FROM showtimes WHERE movie_id=(SELECT
movie_id FROM movies WHERE title=?)", (movie_title,))
        showtimes = cursor.fetchall()
        conn.close()

        for showtime in showtimes:
            self.showtime_listbox.insert(tk.END, showtime[0])

    def show_seating(self):
        selected_showtime_index = self.showtime_listbox.curselection()
        if not selected_showtime_index:
            messagebox.showerror("Selection Error", "Please select a showtime!")
            return

```

```

showtime = self.showtime_listbox.get(selected_showtime_index)

# Clear previous selections (if any)
for widget in self.theater_frame.winfo_children():
    widget.grid_forget()

# Seating Label
tk.Label(self.theater_frame, text="Select Your Seat", fg="white", bg="#34495E",
font=("Arial", 16)).grid(row=0, column=0, padx=10, pady=10)

# Seating grid (example for 5x5 seating)
self.selected_seats = [] # List to store selected seats
self.seat_buttons = []
self.load_booked_seats()

def load_booked_seats(self):
    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()

    # Get booked seats for the selected showtime
    cursor.execute("""SELECT seat_row, seat_column
                      FROM bookings
                      WHERE showtime_id=(SELECT showtime_id
                                          FROM showtimes
                                          WHERE time=?)""",
                  (self.showtime_listbox.get(tk.ACTIVE),))
    booked_seats = cursor.fetchall()
    conn.close()

    # Create seating grid
    for i in range(5):
        row_buttons = []
        for j in range(5):
            seat_button = tk.Button(self.theater_frame, text=f"{i+1}-{j+1}", font=("Arial",
12), bg="#3498DB", fg="white", relief="flat", command=lambda r=i, c=j: self.select_seat(r,
c))

            if (i, j) in booked_seats:
                seat_button.config(bg="red", state="disabled")
            row_buttons.append(seat_button)
            seat_button.grid(row=i+1, column=j, padx=5, pady=5)
        self.seat_buttons.append(row_buttons)

    book_button = tk.Button(self.theater_frame, text="Proceed to Book", font=("Arial", 14),
bg="#3498DB", fg="white", relief="flat", command=self.book_ticket)
    book_button.grid(row=6, column=0, pady=20, ipadx=10, ipady=5)

def select_seat(self, row, col):
    conn = sqlite3.connect('movie_booking_system.db')

```

```

cursor = conn.cursor()

# Check if seat is already booked
cursor.execute("""SELECT COUNT(*) FROM bookings
                WHERE showtime_id=(SELECT showtime_id FROM showtimes WHERE
time=?)
                AND seat_row=? AND seat_column=?""",
                (self.showtime_listbox.get(tk.ACTIVE), row, col))
seat_count = cursor.fetchone()[0]
conn.close()

if seat_count > 0:
    messagebox.showerror("Booking Error", "This seat has already been booked. Please
select another seat.")
    return

# Toggle seat selection if it is available
seat = self.seat_buttons[row][col]
if seat.cget("bg") == "green":
    seat.config(bg="#3498DB")
    self.selected_seats.remove((row, col))
else:
    seat.config(bg="green")
    self.selected_seats.append((row, col))

def book_ticket(self):
    if not self.selected_seats:
        messagebox.showerror("Booking Error", "No seats selected!")
        return

    customer_name = self.username_entry.get()

    conn = sqlite3.connect('movie_booking_system.db')
    cursor = conn.cursor()

    cursor.execute("SELECT showtime_id FROM showtimes WHERE time=?",
(self.showtime_listbox.get(tk.ACTIVE),))
    showtime_id = cursor.fetchone()[0]

    for seat in self.selected_seats:
        seat_row, seat_column = seat

        cursor.execute("""SELECT COUNT(*) FROM bookings
                        WHERE showtime_id=? AND seat_row=? AND seat_column=?""",
                        (showtime_id, seat_row, seat_column))
        seat_count = cursor.fetchone()[0]
        if seat_count > 0:
            messagebox.showerror("Booking Error", f"Seat {seat_row+1}-{seat_column+1}
has just been booked. Please reselect seats.")
            self.selected_seats.clear()

```



```

        self.show_seating()
        conn.close()
        return

        cursor.execute("""INSERT INTO bookings (customer_name, showtime_id, seat_row,
seat_column)
                        VALUES (?, ?, ?, ?)""",
                        (customer_name, showtime_id, seat_row, seat_column))

        conn.commit()
        conn.close()

        messagebox.showinfo("Booking Successful", f"Booking Successful for
{customer_name}.\nSeats: {' '.join([f'{r+1}-{c+1}' for r, c in self.selected_seats])}")
        self.selected_seats.clear()
        self.show_confirmation()

        # Show a success message
        messagebox.showinfo("Booking Successful", f"Booking Successful for
{customer_name}.\nSeats: {' '.join([f'{r+1}-{c+1}' for r, c in self.selected_seats])}")
        self.selected_seats.clear() # Clear selected seats after booking

        # Show Thank You page
        self.show_confirmation()

    def show_confirmation(self):
        # Hide the current frame
        for widget in self.theater_frame.winfo_children():
            widget.grid_forget()

        # Confirmation message
        tk.Label(self.theater_frame, text="Thank You for Booking!", fg="white",
bg="#34495E", font=("Arial", 24, "bold")).grid(row=0, column=0, pady=20)

        # Return to home page button
        return_button = tk.Button(self.theater_frame, text="Return to Home", font=("Arial",
14), bg="#3498DB", fg="white", relief="flat", command=self.go_home)
        return_button.grid(row=1, column=0, pady=20)

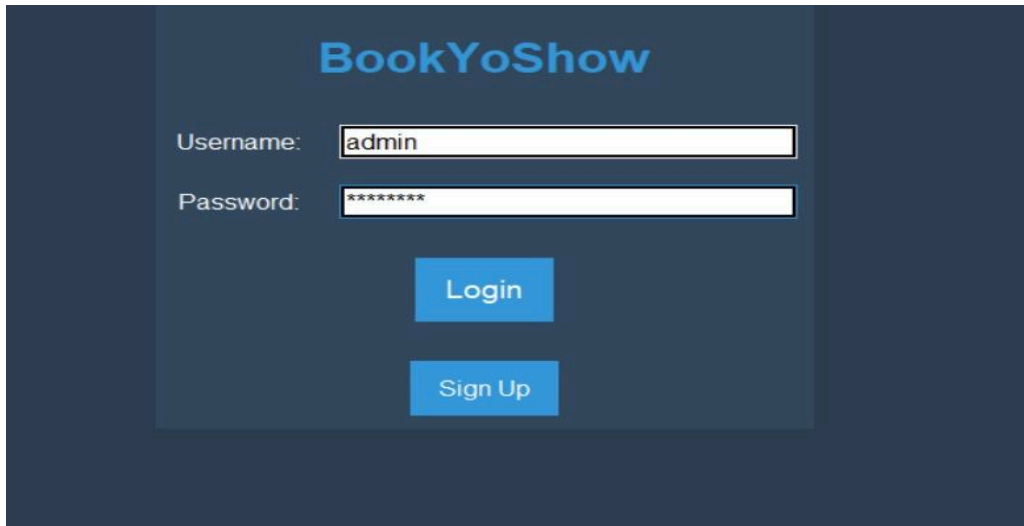
    def go_home(self):
        self.theater_frame.pack_forget() # Hide current frame
        self.login_frame.pack(pady=50, padx=50) # Show login frame again

# Create Tkinter window
root = tk.Tk()
app = MovieBookingApp(root)
root.mainloop()

```

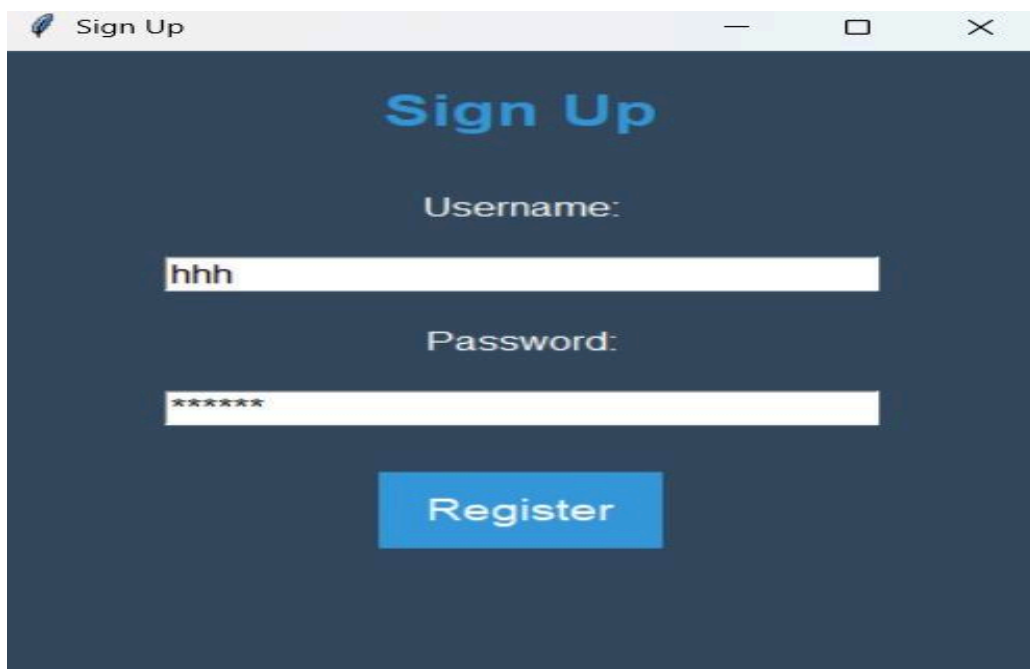
## CHAPTER - 5

### SCREEN SHOTS



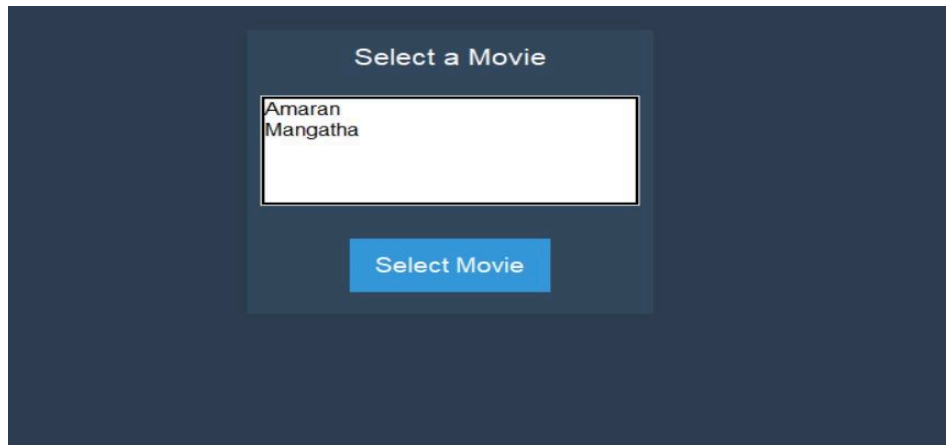
The image shows a login page for 'BookYoShow'. The page has a dark blue background. At the top, the text 'BookYoShow' is displayed in a light blue font. Below this, there are two input fields: 'Username:' with the value 'admin' and 'Password:' with the value '\*\*\*\*\*'. Below the password field, there are two buttons: 'Login' and 'Sign Up', both in a light blue color.

**Fig 5.1 Login page**



The image shows a sign-up page titled 'Sign Up' in a light blue font. The page has a dark blue background. Below the title, there are two input fields: 'Username:' with the value 'hhh' and 'Password:' with the value '\*\*\*\*\*'. Below the password field, there is a single button labeled 'Register' in a light blue color.

**Fig 5.2 SignUp Page**

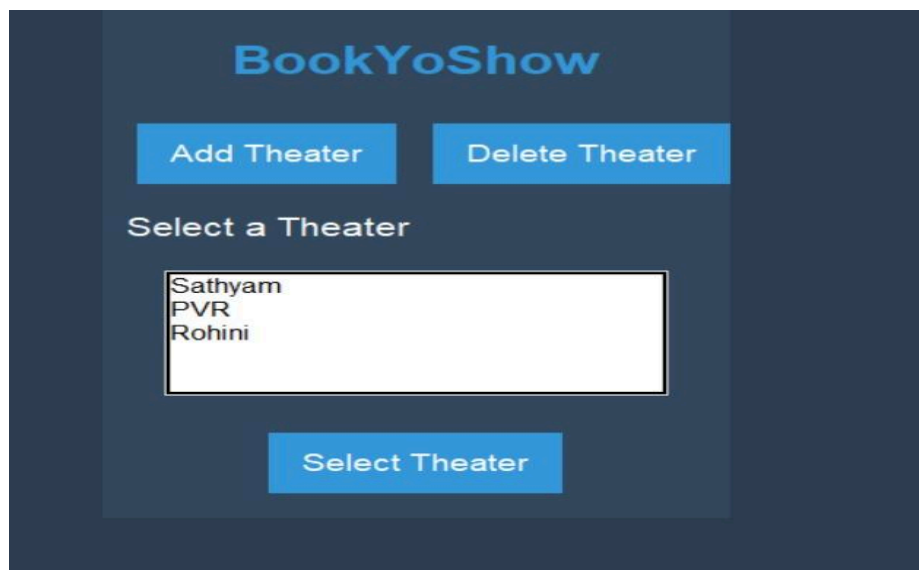


Select a Movie

Amaran  
Mangatha

Select Movie

**Fig 5.3 Selection of Movie Page**



BookYoShow

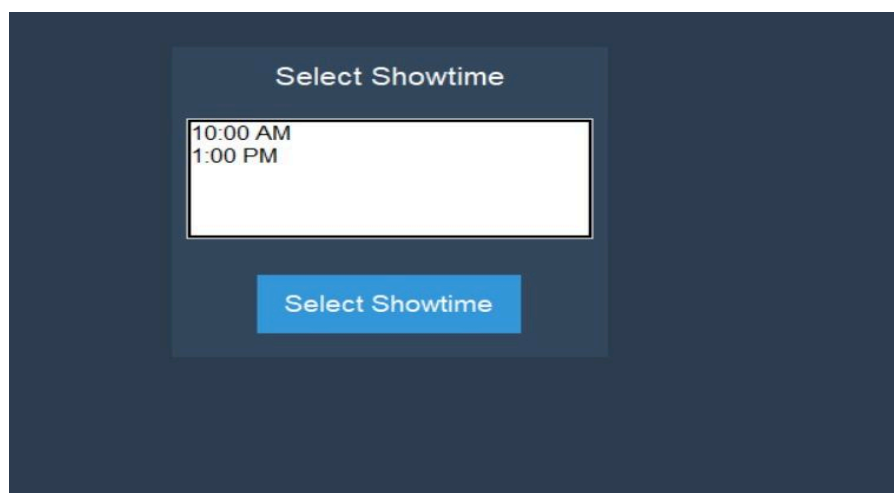
Add Theater Delete Theater

Select a Theater

Sathyam  
PVR  
Rohini

Select Theater

**Fig 5.4 Selection of Theatre Page**

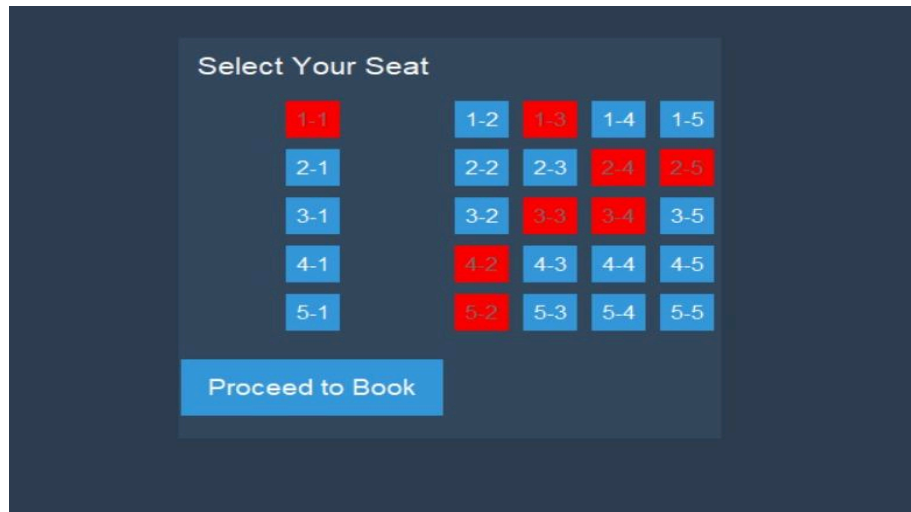


Select Showtime

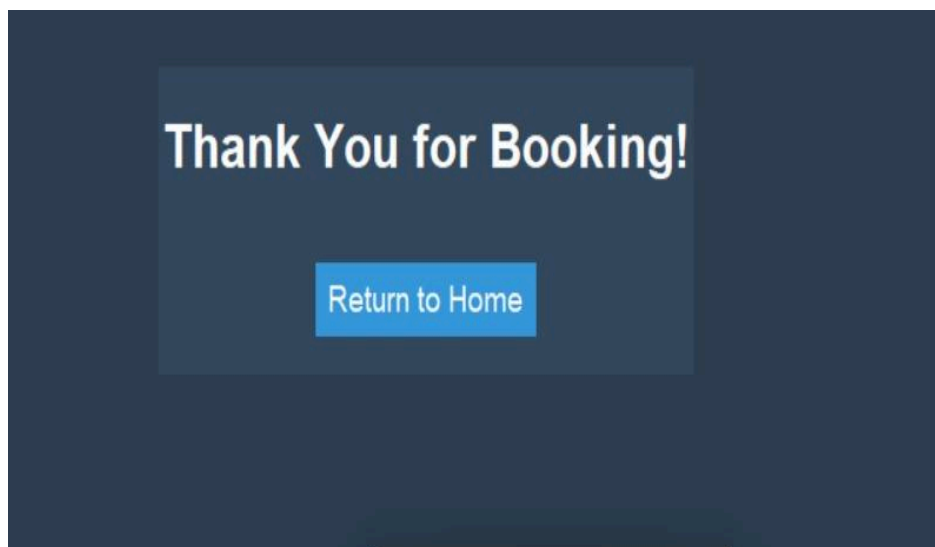
10:00 AM  
1:00 PM

Select Showtime

**Fig 5.5 Selection of Show Time Page**



**Fig 5.6 Selection of Seat Page**



**Fig 5.7 Thank You Page**



**Fig 5.8 Add theatre Page**

## **CHAPTER 6**

### **CONCLUSION AND FUTURE ENHANCEMENT**

With the implementation of this project, users can easily check seat availability and book movie tickets efficiently. The system simplifies ticket management by maintaining a clear log of bookings and ensuring transparency for both users and administrators. By providing a user-friendly interface and a reliable booking system, this project enhances convenience and accessibility for all users.

In the future, the system can be further enhanced by integrating advanced features like dynamic pricing, multi-language support, and AI-driven recommendations for personalized movie suggestions. These enhancements will broaden accessibility and improve user experience, making the system more versatile and efficient.

## **CHAPTER – 7**

### **REFERENCES**

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