**Ticket Booking System**

**Project summary:**

This project involves creating a **ticket booking system** with functionalities including user authentication (signup and login), and dynamic display of movie posters. Below is a detailed breakdown of the various features and steps we have implemented so far.

**1. Project Setup:**

* **Tools Used:**
  + Frontend: HTML, CSS, JavaScript (for user interaction).
  + Backend: PHP (for server-side processing and database interaction).
  + Database: MySQL (for storing user data, movie details, reviews, etc.).
* **XAMPP Setup:**  
  We used XAMPP to set up a local server with PHP and MySQL to host the project locally during development.

**2. User Authentication:**

* We implemented **signup** and **login** pages to allow users to create accounts and sign in.
* **Database Setup:**
  + A users table was created in MySQL with the following fields: id, username, email, phone, and password\_hash.
  + We securely stored passwords using PHP's password\_hash function and verified them during login using password\_verify.
* **Sessions**: We used PHP sessions to keep users logged in after successful authentication and redirect them to the main.php page.

**3. Main Page (main.php):**

* **User Info Display**: After logging in, the main page displays user details (username, email, and phone).
* **Navigation Bar**: Includes links for:
  + **Home**: Redirects to the main page.
  + **About**: Opens a modal with details about the application.
  + **Contact**: Opens a modal with contact information.
  + **Logout**: Allows users to log out.
* **Movie Title**: Displayed and centered at the top of the page.

**4. Background and Styling:**

* We applied a **background image** to the main page using CSS to improve the visual appeal.
* **Movie Posters** are displayed in a grid layout, and we used Flexbox for arranging the movies and other elements neatly.

**5. Dynamic Movie Poster Loading:**

* **movies.json**: A JSON file was created to hold movie information such as title, poster, and description.
* **JavaScript (scripts.js)**:
  + We used fetch() to retrieve movie data from movies.json and dynamically inject movie posters into the HTML.
  + Each movie poster is clickable and redirects the user to movie\_details.php, where more details about the movie are shown.

**6. Movie Details Page (movie\_details.php):**

* This page is accessed when a user clicks on a movie poster.
* **Movie Cast and Rating**: Displayed alongside the movie poster.
* **Seating Arrangement**: Below the movie details, there is a grid of seat buttons where users can select and book seats.

**8. Reviews:**

* **User Reviews Section**:
  + We created a form for users to submit reviews of movies.
  + **Backend (submit\_review.php)**: The form submission sends review data via AJAX (fetch()) to a PHP script that stores it in the database.
  + **Database Setup**: A reviews table was created with the fields id, user\_id, and review to store user reviews.
* **Displaying Reviews**: Submitted reviews are dynamically displayed on the page without refreshing.

**9. Modals for About and Contact:**

* We implemented **modal popups** for the "About" and "Contact" sections.
* **JavaScript Handling**:
  + Clicking the "About" or "Contact" link triggers a modal.
  + Users can close the modal by clicking the close button or clicking outside the modal.
* **About Modal**: Contains information about the application (i.e., an online movie ticket booking system).
* **Contact Modal**: Contains contact details (email address) for support.

**10. Final Adjustments:**

* **Error Handling**: We ensured proper error handling when fetching movies or submitting reviews.
* **User Redirection**: We handled user redirection to the appropriate pages (login, main, movie details) based on session status.
* **CSS**: Additional styling was done to improve the appearance of the navigation bar, movie posters, review section, and seating arrangements.

**11. Future Scope:**

* **Add Payment Gateway**: Integrate a payment system for booking movie tickets.
* **Admin Panel**: Add functionality for admins to manage movies, view bookings, and moderate reviews.
* **Movie Search**: Implement a search functionality for users to find movies by title or genre.

**Summary of Key Files:**

* **main.php**: Main page that displays user info, movie posters, and the review section.
* **scripts.js**: JavaScript file handling dynamic loading of movies, modals, and reviews.
* **movies.json**: Contains movie data (title, poster URL, description).
* **submit\_review.php**: Handles storing submitted reviews in the database.
* **db.php**: PHP script to connect to the MySQL database.

**Database Tables:**

1. **users**: Stores user account information.
2. **reviews**: Stores user reviews.
3. **movies**: (In progress) Will store movie details like title, cast, and ratings.

This project has laid the foundation for a functional online movie ticket booking system with dynamic content loading, seat booking, and user interactions.