

IE4717 Web Application Design - Project Report

Design project group number: F38-DG15

Team members: Ng Sheng Feng, Chen Qi

Project Title: Easymoviesbooking.com

Summary of Project:

This project aims to create a website that would guide users through the online process of booking a physical movie, from selecting movie's showtime and cinema, to choosing seating plan.

It would allow users to pick desired movies from a selection of movies, select seating plan, pick time slots, choose the type of tickets available (standard, premium etc.) along with their prices, and checkout. Upon successful checkout, users can check their booking details.

As such, customers will be able to complete the process of booking movies through an online website, saving the hassle of the need to go to the physical counter of a cinema to book a movie.

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1. Application requirements and specifications

This website guides customers through the process of selecting a movie, picking a time slot, choosing seating plan, opting for ticket(s)'s type and price, and thereafter making payment. After the booking process, customers would be able to view their booking details and display it to the cinema's staff before entry.

- R1. Allows users to log in into the website, and to register for an account if they have not yet created an account previously.
- R2. If the users already know what they want to watch, they can choose their desired movie, cinema, and showtime with the "Quick Buy" search box, which is located on the home page.
- R3. Otherwise, users can browse through a selection of movies currently showing in the cinema on the homepage.
- R4. Users would be able to view movies' descriptions and details, along with cinemas' locations and movies' showtimes.
- R5. Users can choose their desired seating plan out of the available seatings that are yet to be booked by other customers.
- R6. Users can select the ticket type(s) (tagged along with the corresponding prices), and make payment for the movie booking.
- R7. Users would be able to check their booking details.

2. Function requirements and specifications

- F1. At the homepage, users can choose to "Sign in/ Register" on the navigation bar. Upon clicking on the hyperlink, a small box would pop out of the current page prompting users to key in their username and password to sign in to their account. If they have not signed up yet, they can then click on the "Register" hyperlink in the small box which would bring them to a Sign-Up page.
- F2. To allow users to book a movie that they already have in mind in a quick-and-easy process, a search box will be displayed at the top of the homepage, with which they can select the movie, cinema and timeslot.
- F3. The home page would display movie banners that are showing in the cinemas, if the users are interested to find out more details about the movies, they can click into the respective movie banner.
- F4. The new page would show the movie's description, cinema's locations and movie's showtimes.

- F5. After selecting the desired movie to watch, cinema's locations and movie's showtime in the previous step, a seating plan would be displayed accordingly and users can select from the available seating plan. Seatings that have already been booked by other users would be blocked off for selection.
- F6. Finally, users would see a summary of the booking details, be required to select the type(s) of ticket(s) from a dropdown list, and make payment online.
- F7. Users would be able to navigate through the navigation bar on the homepage to view booking details, with which they are required to input their mobile number and email and the web page would show their booking detail(s).

3. Design of the web application

3.1 Site Map

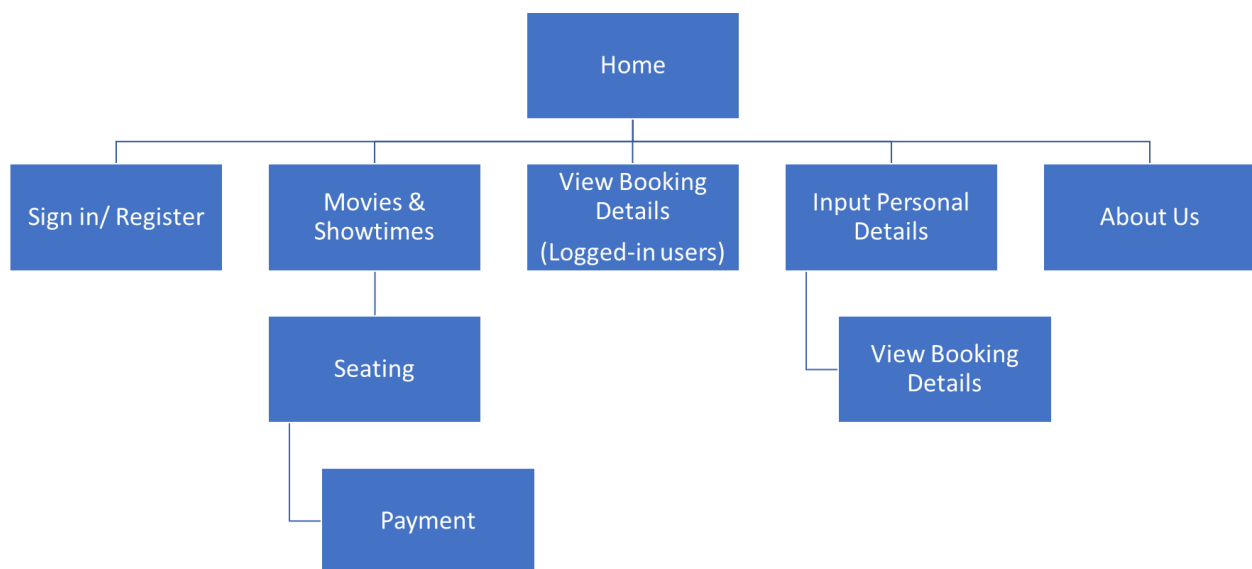
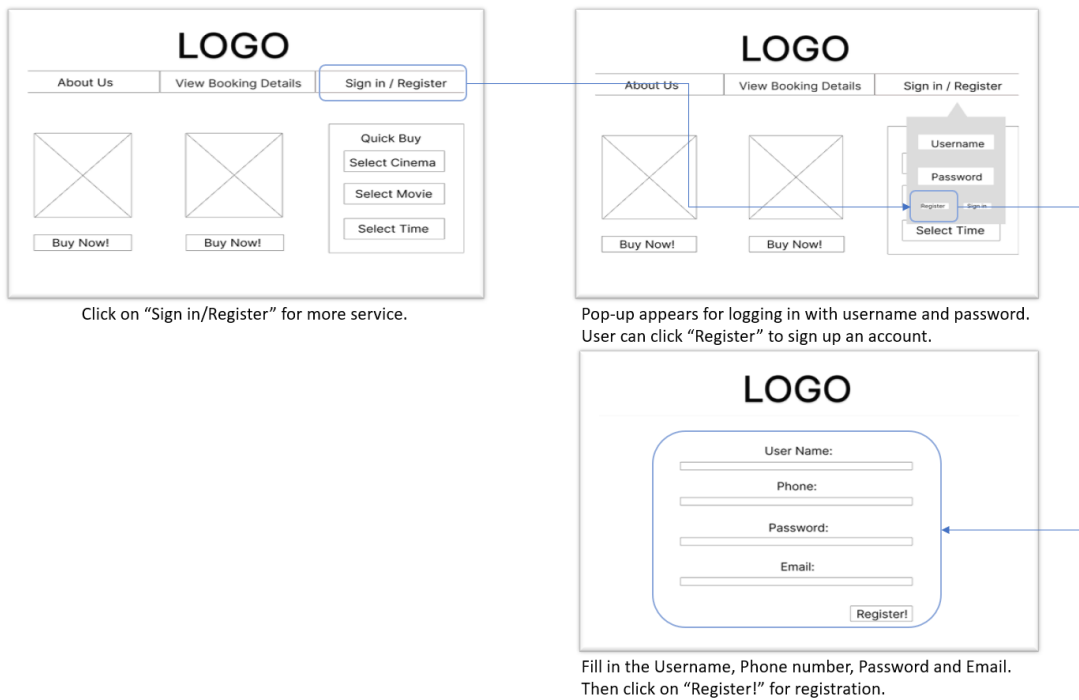


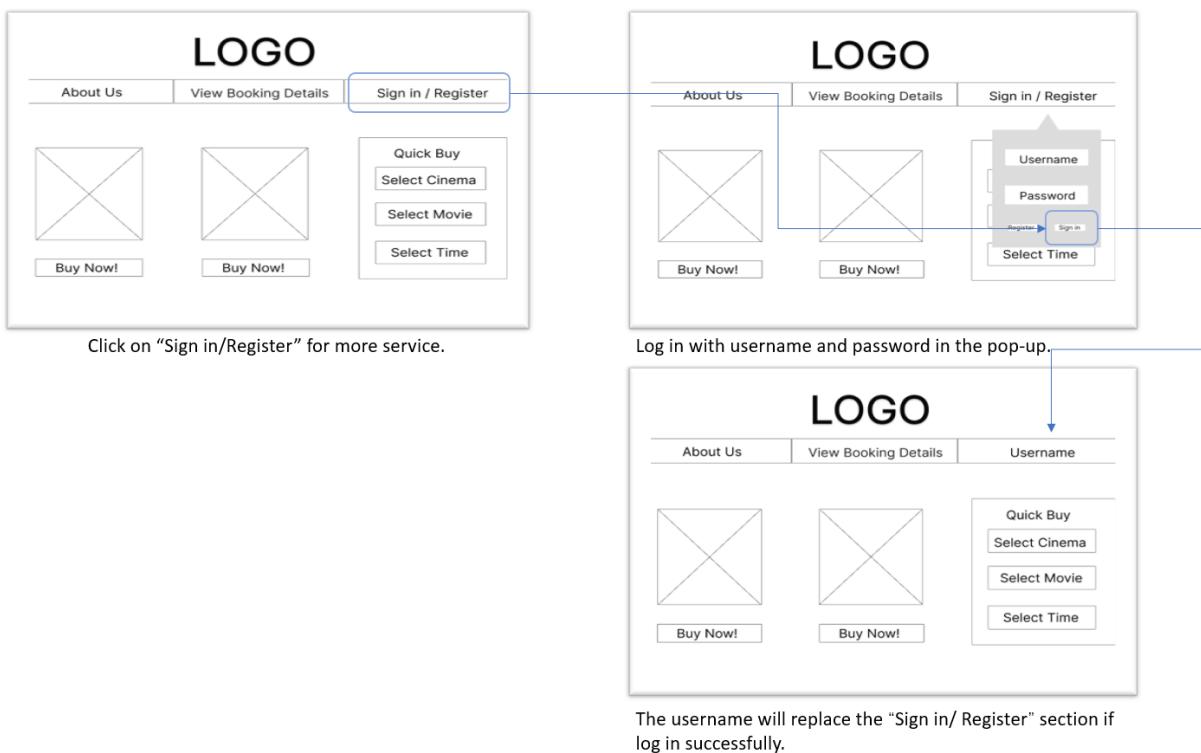
Figure 1. Sitemap of Booking Website

3.2 Storyboard

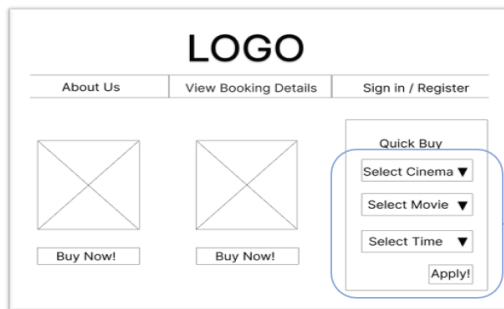
Registration:



Log in:

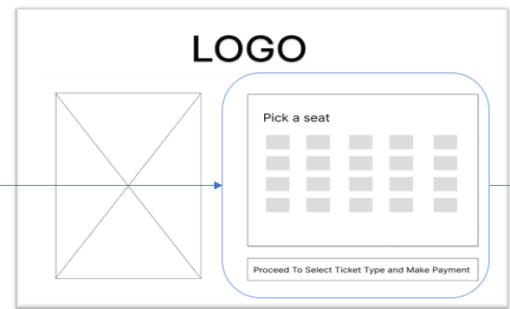


Book tickets with Quick Buy:



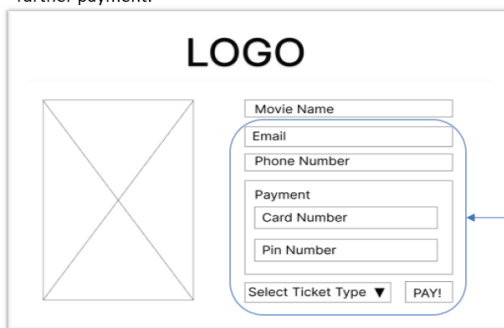
The interface shows a header with 'LOGO' and navigation links: 'About Us', 'View Booking Details', and 'Sign in / Register'. Below the header, there are two placeholder images for movie posters, each with a 'Buy Now!' button. To the right, the 'Quick Buy' section is highlighted with a blue border. It contains three dropdown menus: 'Select Cinema', 'Select Movie', and 'Select Time', followed by an 'Apply!' button.

For "Quick Buy" section, there are three dropdown lists for selecting cinema, movie and showtime. Click on "Apply" for further payment.



The interface shows a header with 'LOGO' and a placeholder image for a movie poster. To the right, the 'Pick a seat' section is highlighted with a blue border. It displays a grid of 16 seats (4 rows by 4 columns). Below the grid is a button labeled 'Proceed To Select Ticket Type and Make Payment'.

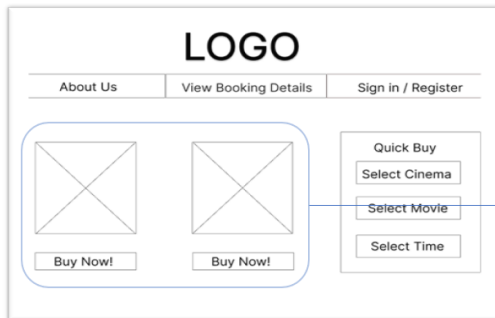
The page turns to choosing seats page directly. Available seats are displayed. After choosing desired seats, click on proceed to select ticket type and make payment.



The interface shows a header with 'LOGO' and a placeholder image for a movie poster. To the right, the payment and registration section is highlighted with a blue border. It contains input fields for 'Movie Name', 'Email', 'Phone Number', 'Card Number', and 'Pin Number'. Below these fields is a 'Select Ticket Type' dropdown menu and a 'PAY!' button.

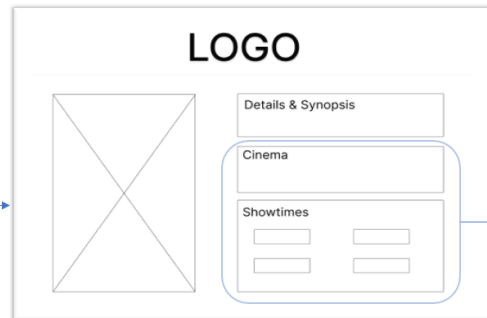
Enter email, phone number, card number, pin number and select ticket type for payment

Performing movie booking process:



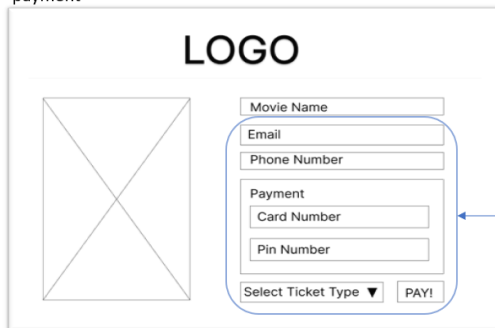
The interface shows a header with 'LOGO' and navigation links: 'About Us', 'View Booking Details', and 'Sign in / Register'. Below the header, there are two placeholder images for movie posters, each with a 'Buy Now!' button. To the right, the 'Quick Buy' section is highlighted with a blue border. It contains three dropdown menus: 'Select Cinema', 'Select Movie', and 'Select Time'.

Click on "Buy Now" or images for more details and tickets payment



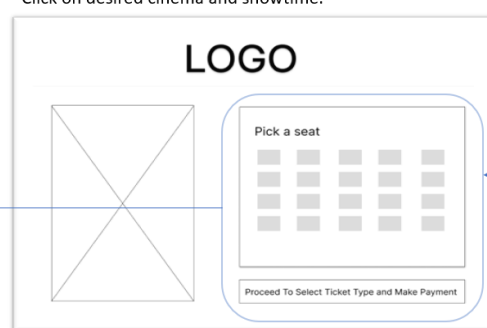
The interface shows a header with 'LOGO' and a placeholder image for a movie poster. To the right, the 'Details & Synopsis' section is highlighted with a blue border. It contains a 'Cinema' section with a dropdown menu and a 'Showtimes' section with two input fields.

Details, synopsis, cinema and showtimes will be displayed. Click on desired cinema and showtime.



The interface shows a header with 'LOGO' and a placeholder image for a movie poster. To the right, the payment and registration section is highlighted with a blue border. It contains input fields for 'Movie Name', 'Email', 'Phone Number', 'Card Number', and 'Pin Number'. Below these fields is a 'Select Ticket Type' dropdown menu and a 'PAY!' button.

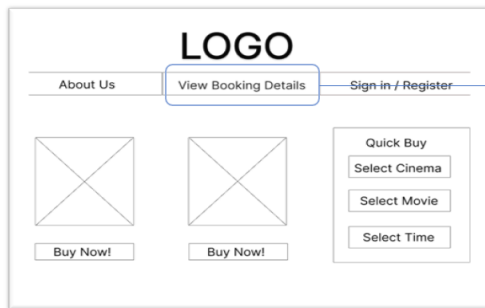
Enter email, phone number, card number, pin number and select ticket type for payment



The interface shows a header with 'LOGO' and a placeholder image for a movie poster. To the right, the 'Pick a seat' section is highlighted with a blue border. It displays a grid of 16 seats (4 rows by 4 columns). Below the grid is a button labeled 'Proceed To Select Ticket Type and Make Payment'.

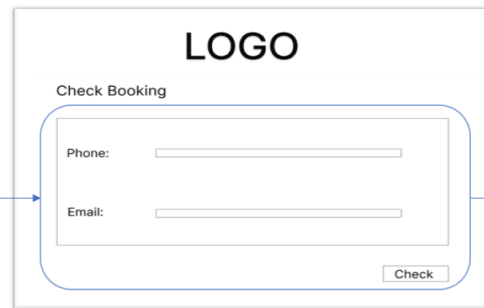
Available seats will be displayed. After choosing desired seats, click on proceed to select ticket type and make payment.

Check Details (without log-in):



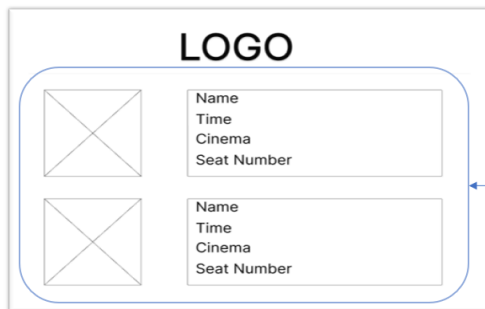
The homepage features a 'LOGO' at the top. Below it is a navigation bar with 'About Us', 'View Booking Details' (highlighted with a blue box), and 'Sign-in / Register'. The main content area has two placeholder images (squares with an 'X') and 'Buy Now!' buttons. To the right is a 'Quick Buy' section with 'Select Cinema', 'Select Movie', and 'Select Time' buttons.

User can click on "View Booking Details" to check tickets details.



The 'Check Booking' page has a 'LOGO' at the top. Below it is a form with 'Phone:' and 'Email:' labels, each followed by a text input field. A 'Check' button is at the bottom right.

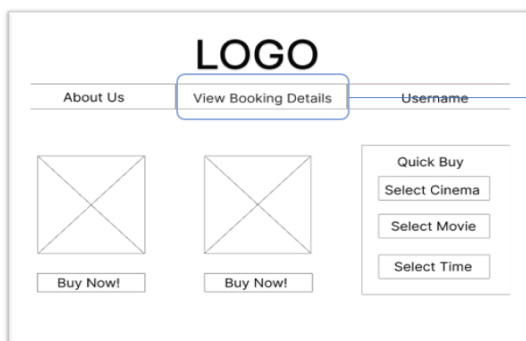
User can enter the email and phone numbers, which were supplied in tickets payment page, then click "Check" to check tickets details.



The booking details page shows a 'LOGO' at the top. Below it are two rows of booking information. Each row has a placeholder image (square with an 'X') and a box containing 'Name', 'Time', 'Cinema', and 'Seat Number'.

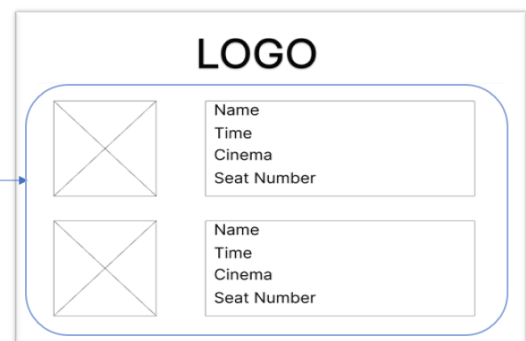
The booking details are displayed. The movie name, time, cinema and seat number are included.

Check Details (user has logged-in):



The homepage features a 'LOGO' at the top. Below it is a navigation bar with 'About Us', 'View Booking Details' (highlighted with a blue box), and 'Username'. The main content area has two placeholder images (squares with an 'X') and 'Buy Now!' buttons. To the right is a 'Quick Buy' section with 'Select Cinema', 'Select Movie', and 'Select Time' buttons.

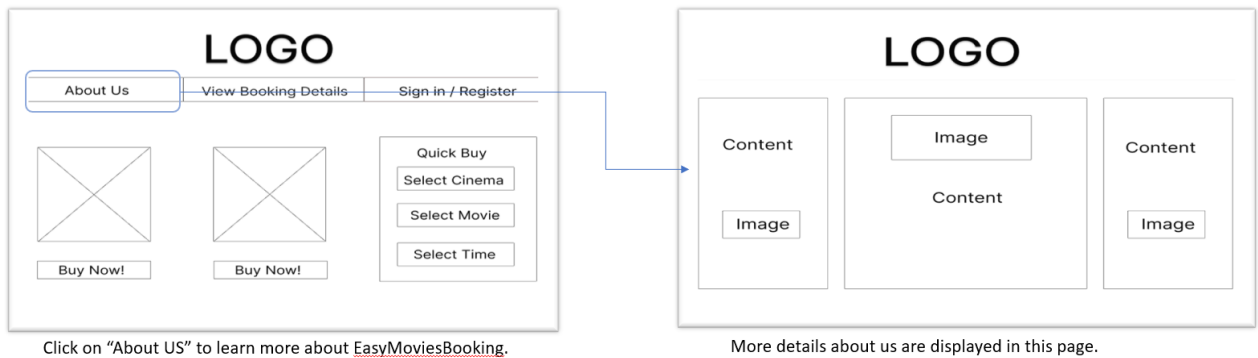
User can directly check booking details by clicking on "View Booking Details" if the user has logged in.



The booking details page shows a 'LOGO' at the top. Below it are two rows of booking information. Each row has a placeholder image (square with an 'X') and a box containing 'Name', 'Time', 'Cinema', and 'Seat Number'.

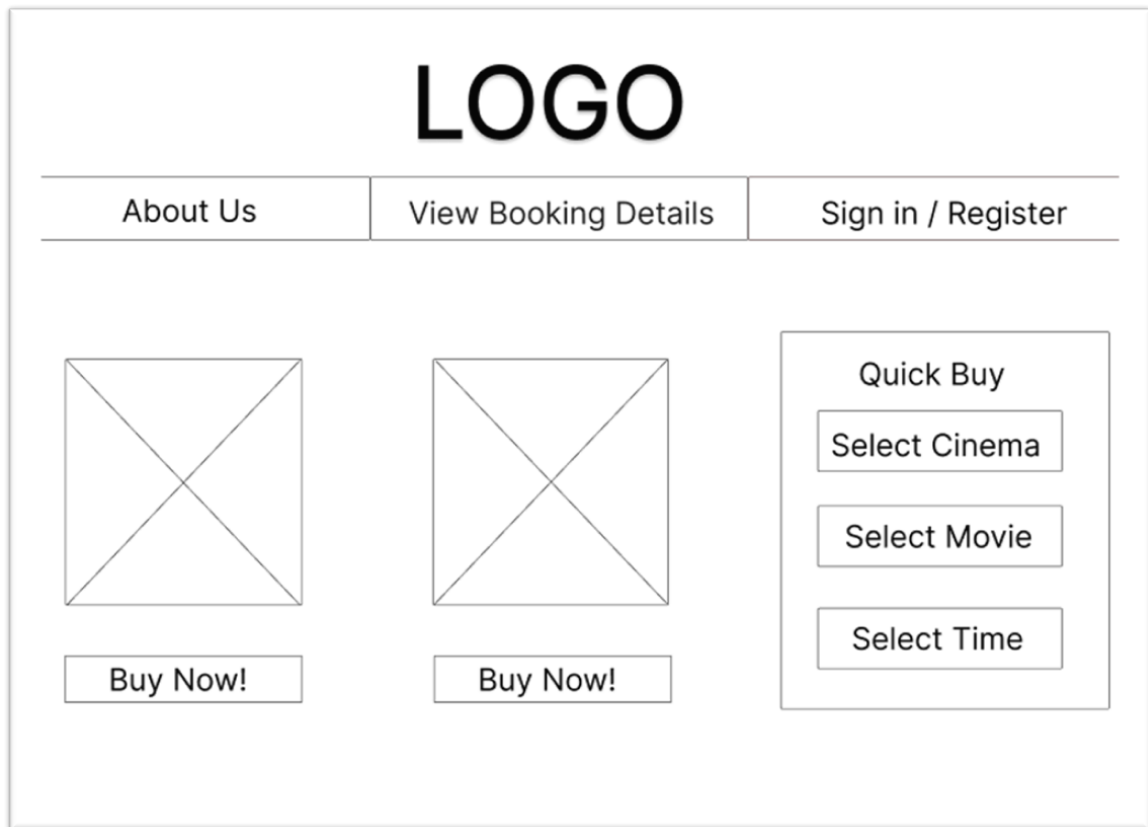
The booking details are displayed. The movie name, time, cinema and seat number are included.

About us:



3.3 Wireframe

Home Page:



About Us:

LOGO

Content

Image

Image

Content

Content

Image

Check Booking With Phone and Email:

LOGO

Check Booking


Phone:


Email:

Check

View Booking Details:

LOGO





Registration:

LOGO

User Name:

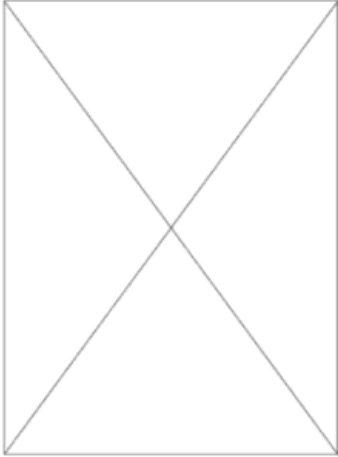
Phone:

Password:

Email:

Movies & Showtimes:

LOGO



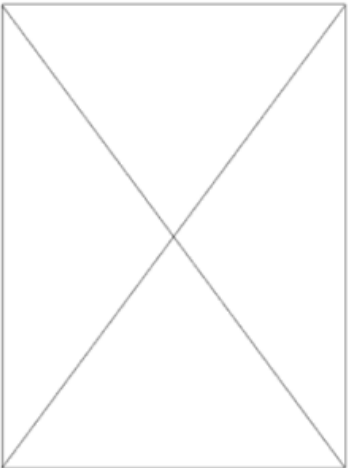
Details & Synopsis

Cinema

Showtimes

Seating:

LOGO

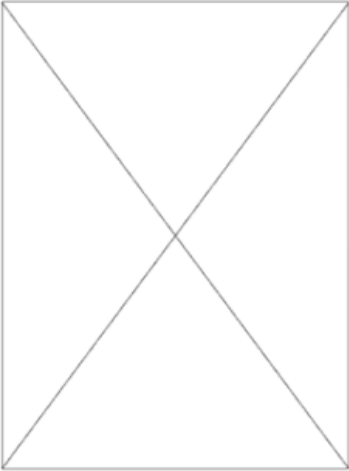


Pick a seat

Proceed To Select Ticket Type and Make Payment

Payment:

LOGO



Payment

Select Ticket Type ▼

PAY!