
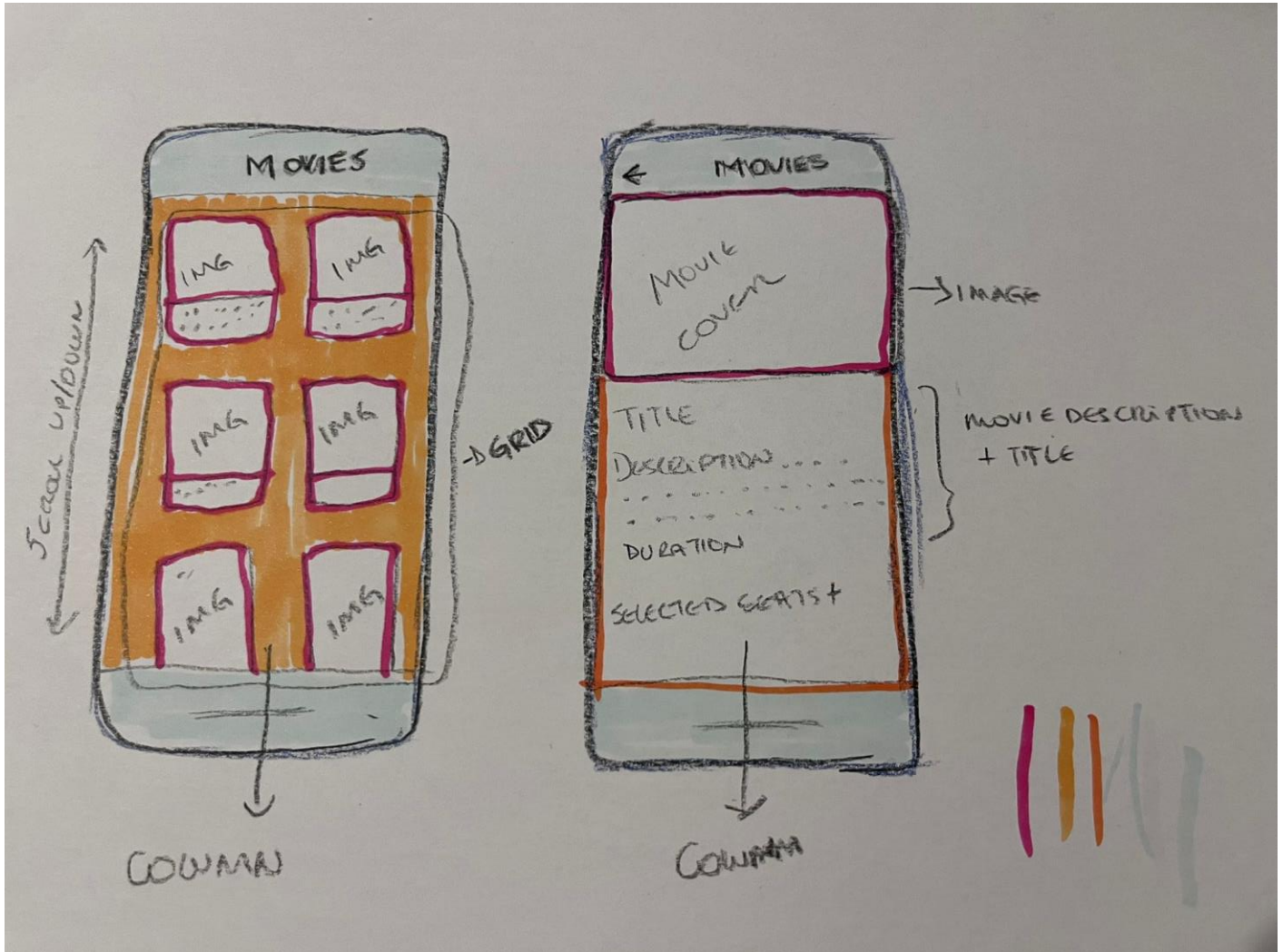




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PROGRAMME: BSc2	STAGE/YEAR: 2sem 2y
MODULE NAME: Mobile App 1	
ASSIGNMENT NO. & TITLE: Movie Booking App	
GROUP (Names & Student IDs):	
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Sketches.



This was my initial sketch to base the Application. On the “Home Page”, the left drawing, I decided on using a simple layout containing a “Top Bar” with the name of the Application, a “Bottom bar” displaying additional information about the app, and a “Main Body” where a Grid would be placed containing two columns with the Items(movies), allowing it to be scrolled up and down to access all items.

Each Item would obtain an image of the film, followed by it’s title, duration of the film and the amount of seats remaining.

Selecting a movie on the Home Page, the user is directed to the “Booking Page”, that is represented by the drawing on the right side. This page also contains a “Top Bar” and “Bottom Bar”. However, on the left side of the Top Bar of this page, I have placed a back arrow for the user to be able to return to the Home Page.

In the main body, on the top a cover of the selected film is placed, right below the cover, the title, movie description, and duration were placed.

Below the movie details, the “Select/Selected seats” and “Remaining seats” buttons.

The Application.

The build the application, I have divided into “Home Pg”, “Booking Pg”, “Movies List”, “App Navigation”, “Routes” and “Main Activity”.

On the Movies List file, I have created a data class called movie to set the data types for the list of movies that was created below. This list holds name (String), id number (Int), image (String), a description of the image (String), movie description (String), running time (Int), seats remaining (Int) and seats selected (Int) for each movie.

The image variable was used to hold the URL of the movie cover. Unfortunately, I did not manage to make the displaying of the image from the URL work. The seats remaining variable holds a Random function that selects a number from 0 to 15 to be the amount of remaining seats available for each movie. Every time the home page is reloaded the value changes.

On the Home Pg, I have placed a Scaffold holding the code for the Top and Bottom bar, where the name of the app and extra information were added. Inside the Scaffold’s body, a column was created to delimited and hold the structure of the whole layout, which was a LazyVerticalGrid. Inside the grid, a function called GridItem, with parameters movie and navcontroller, was called to insert the movie data into the items.

The Composable Function GridItem was created to call the information needed from the Movies List to be displayed on Home Page. To proceed to the next page, the user can click on every part of the card, either the image or the text information of the movie.

On the Booking Pg, I have again used a Scaffold with Top and Bottom bar, including a back arrow on the Top Bar to allow user to go back to Home Page without finishing booking the movie.

In the main body, I have placed a LazyColumn to hold an image of the film selected in the previous page, and another Item calling a Composable function called MovieColumn inheriting data from MoviesList, to display Title, Description and Running Time from the movie.

On this page, the user can select and deselect seats, as well as verifying how many seats are remained.

Inside the MovieColumn function, “if statements” were placed to alter the remaining seats value when a user selects or deselects seats.

The AppNavigation file was created to path the way when the user selects a film from Home Page to go to the Booking Page and display the information of only the film that was selected.

The Routes file contains a sealed class that holds the routes of the pages that can be navigated to in the app.

The Main Activity file calls the AppNavigation Function to run the Application, it also contains a Preview Composable Function of the App.