

# Mobile Apps 2024

## Assignment 2

Due: 11 April 2024 23:59

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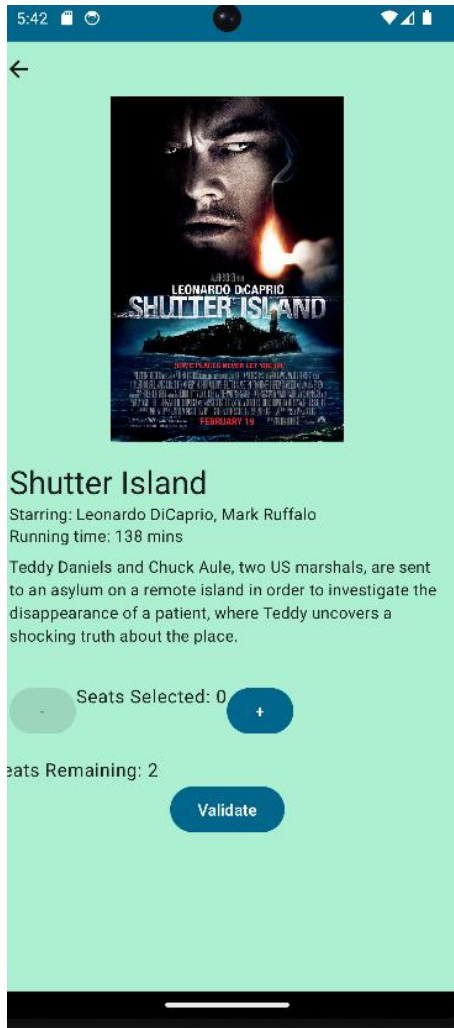
(This work has been done with the help of DeepL translator)

My work is divided into several parts, the first of which focuses on the realization of each of the screens. In fact, each of the screens follows a columnar structure. I therefore had to create a composable function presenting the first screen and managing navigation to the other screens. I had to implement another function that adapts to the movie parameters to create the 4 other screens. The information about the films was retrieved from Rotten tomatoes, and I modified the summaries myself to make them more relevant to the project.



Here's a screenshot of the first screen, which consists of two aligned columns, each containing two films. The two main functions used are "Movie Item" and "Movie Gallery". The MovieItem composable is a reusable component that I call for each movie in the list to create a structured, card-like display within the MovieGallery. It centralizes the information for each movie, presenting the title, poster, and the number of seats remaining in a clean and accessible format. The movie posters are made interactive with a clickable modifier, which, when tapped, triggers the navigation to a detailed screen specific to that movie, leveraging the NavController passed to the MovieItem. This navigational logic is encapsulated within the clickable action, making the transition from the movie gallery to the detailed view seamless for the user. By iterating over the list of movies and rendering each one with MovieItem, I create a dynamic and responsive gallery layout that provides an engaging browsing experience,

effectively showcasing the available movies and their pertinent details in the app's home screen.




Once we've selected a film, the corresponding screen for that film is rendered. In a column layout against a green, background, we prominently display the film's poster, followed by the title, starring actors, running time, and a synopsis of the film.

The stateful `seatsSelected` and `seatsRemaining` variables are introduced using the `remember` function, which allows us to preserve these values across recompositions. These state variables are interactively changed using plus and minus buttons within a `Row`, enabling users to select the number of seats they wish to book. This interactive component is vital as it allows users to be part of the seat booking process, increasing engagement.

Finally, a 'Validate' button is centrally placed at the bottom of the screen, allowing users to confirm their selection. Upon clicking, the navigation controller is instructed to return to the main screen, which demonstrates a clear and functional flow within the

app, making the process of selecting and booking seats as straightforward as possible. An icon at the top of the screen also makes it easy to move around the application when using it. Simply click on the back arrow to return to Screen 0, allowing the user to redirect to other films.

Other Screenshots:



### Taxi Driver

Starring: Robert De Niro, Jodie Foster, Cybill Shepherd  
Running time: 113 mins

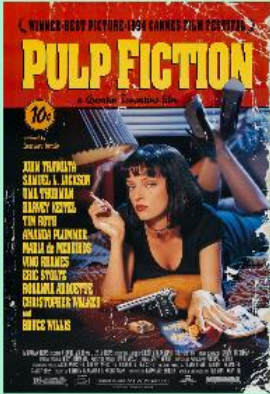
A mentally unstable veteran works as a nighttime taxi driver in New York City, where the perceived decadence and sleaze fuels his urge for violent action, while attempting to liberate a twelve-year-old prostitute.

Seats Selected: 0

+

Seats Remaining: 9

Validate



### Pulp Fiction

Starring: John Travolta, Uma Thurman, Samuel L. Jackson  
Running time: 154 mins

The lives of two mob hitmen, a boxer, a gangster's wife, and a pair of diner bandits intertwine in four tales of violence and redemption.

Seats Selected: 0

+

Seats Remaining: 10

Validate

