



# PopcornSwirl IOS App

## Technical requirement document

Version 1.0

Fatima Salhi  
Lead Developer

Black Inca Pvt Ltd.  
123 XYZ Street  
London, ST 12345



# Table Of Contents

## PopcornSwirl IOS App Technical requirement document \_

### 1 General Description of Solution

- 1.1 Operating Principles
- 1.2 General Use Case

### 2 Workflow

### 3 Software design

- 3.1 General Principles
- 3.2 Source Structure

### 4 Application Design

- 4.1 Initial Screen
- 4.2 Detail Screen
- 4.3 Add notes
- 4.4 Bookmark the movie
- 4.5 Watched movie(s)

### 5 Action plan and app component

### 6 Glossary



# 1 General Description of Solution

## 1.1 Operating Principles

User can bookmark a movie to form a personal list

If anything gets a user's attention, they are redirected to the purchasing resource.

Mark films as watched and add a note if desired View bookmarked list or watched movies lists

## 1.2 General Use Case

Customer opens app on their phone to view the latest movie list by defaults

Customer can choose a particular year to view movies that were released in that year

Customer presses on any movie to see more details App shows related advertisements

If anything gets a Customer's attention, App redirects Customer to the purchasing resource.

Customer can add movies to own personal favorite list or add to Watched list with an option to attach a note to the watched movie.

## 2 Workflow

The user opens the application. He can see the list in the form of a grid of films. Movies are sorted from release date.

User can see the movies type as well.

User can choose to pick a specific release year

By clicking on the movie, the user can see a screen showing more details with a synopsis added to previous informations.

User can bookmark movies of his choice as favourite and then see them as a favourite movie list

Bookmark or add to watch list:

Customer can press a button to add movie to Favorite or to Watched list, and will have the option to add a note to movie marked as watched.

Movie purchasing resource:

Customer can press on a button to go to the purchasing resource of the movie

Advertisement:

Customer will see options of advertisers who offer products related to the movie



## 3 Software design

### 3.1 General Principles

Project sources and versions are managed by Git.

The application will be designed in Swift using Xcode version 11 for iOS version 13 for iPhone and iPad.

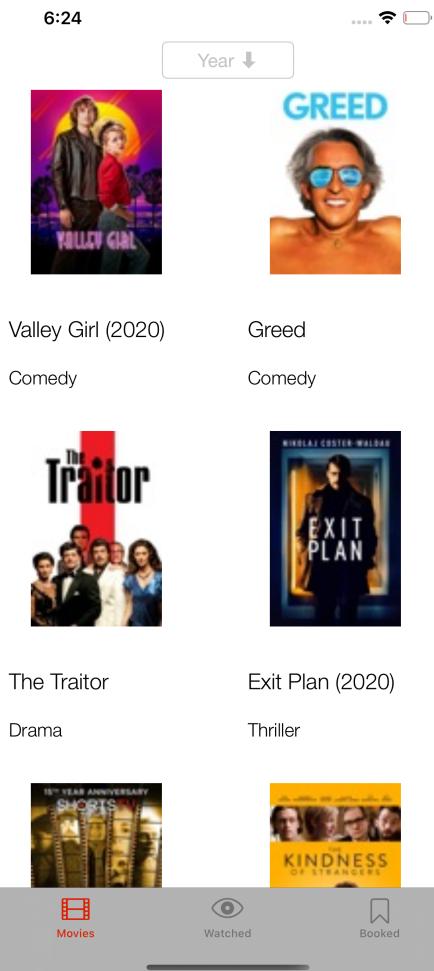
### 3.2 Source Structure

The logic for the structure of the project directories is as follows:

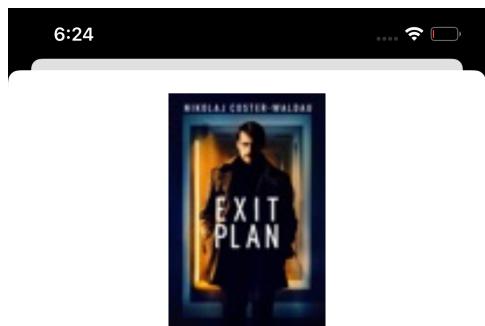
the source directories are created so as to respect the MVC design pattern to ensure good coding practices and standards.

# 4 Application Design

## 4.1 Initial Screen



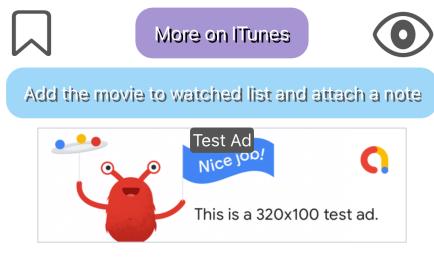
## 4.3 Detail Screen



Exit Plan (2020)

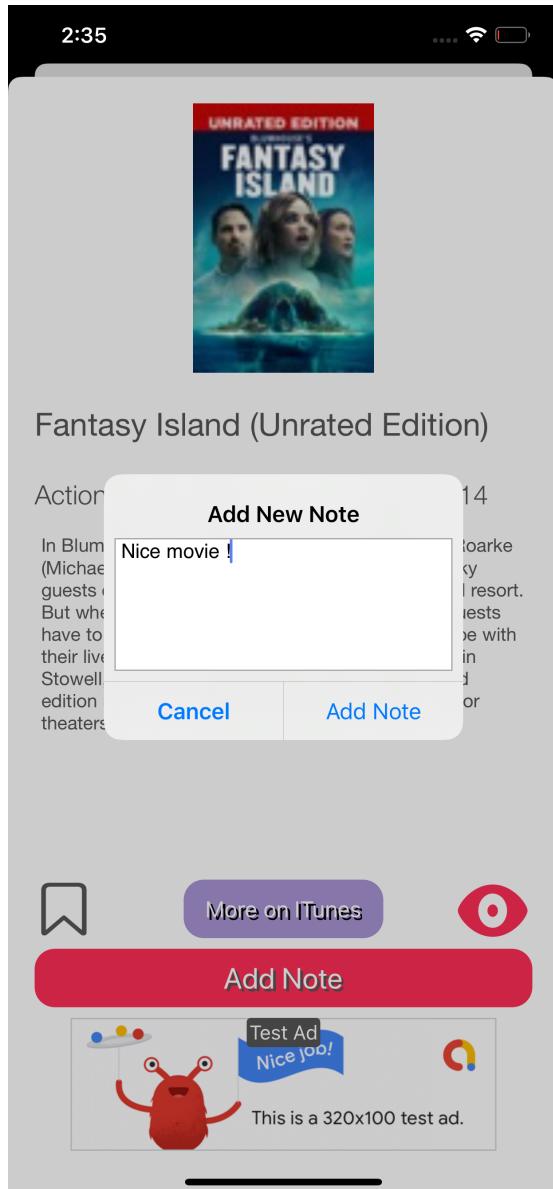
Thriller 2020-06-12

Insurance claims investigator Max (Nikolaj Coster-Waldau) follows the clues of a mysterious death to a remote hotel that specializes in assisted suicide. His search uncovers disturbing revelations that he may not be able to escape.



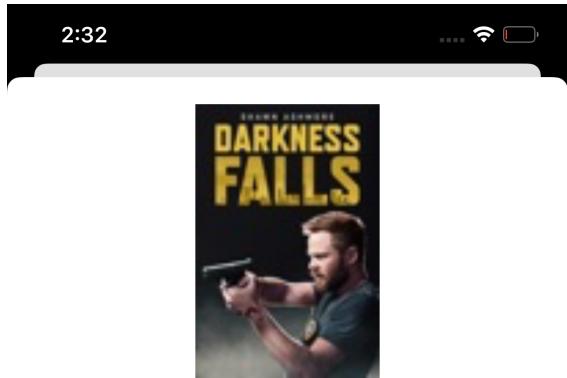
This screen shows first a picture of the movie the user have selected and under it, the synopsis related.

## 4.4 Add notes



Once the movie is marked as watched, the user can add a note and edit it if needed.

## 4.4 Bookmark the movie



Darkness Falls (2020)

Thriller

2020-06-12

After his wife's suicide, Detective Jeff Anderson becomes convinced that she has been murdered. Obsessed with his investigation, he finds out that his wife was the victim of a team of father-and-son serial killers and sets out to stop them.



## 4.4 Watched movies

2:36



The Invisible Man  
(2020)  
Drama



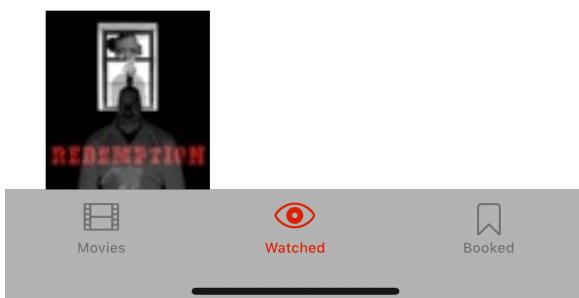
Fantasy Island  
(Unrated Edition)  
Action & Adventure



Darkness Falls  
(2020)  
Thriller



The Kindness of  
Strangers (2020)  
Drama

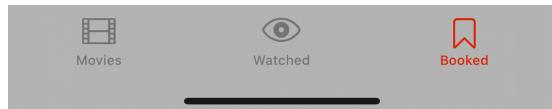


## 4.5 Booked movies



Bloodshot

Action & Adventure





## 5 Action plan and app component

We will use TabBarController to make 3 screens;

This will help the user having a view as a whole of the options from first screen.

CoreData as a storage library for bookmarked and watched movies and the notes on movies.

[iTunes.apple.com](https://itunes.apple.com) will be used as our movies database.

## 6 Glossary

Swift	Swift is a robust and intuitive programming language created by Apple for building apps for iOS, Mac, Apple TV and Apple Watch. It's designed to give developers more freedom than ever.
Xcode	Is an integrated development environment for macOS containing a suite of software development tools developed by Apple for developing software for macOS, iOS, watchOS, and tvOS.
MVC	The Model-View-Controller (MVC) design pattern assigns objects in an application one of three roles: model, view, or controller. The pattern defines not only the roles objects play in the application, it defines the way objects communicate with each other.
TabBarController	A tab bar controller, of class UITabBarController , is a container view controller. It typically organises 3-5 view controllers in a group. The user of your app can switch between view controllers by tapping one of the tabs in the tab bar at the bottom of the screen.
Git	Is a distributed version-control system for tracking changes in source code during software development
CoreData	Is an object graph and persistence framework provided by Apple in the macOS to persist data in the device.