



Smart-Market

Popcorn Swirl iOS App

Functional Requirements Document

Version 1.0

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1 - VERSIONS

Author	Date	Description	Version
Carl Wainwright	23/05/2019	Creation of document	1.0



2 - INTRODUCTION

2.1 - Document purpose

The present document makes up the functional requirements document for the Popcorn Swirl application.

This document provides detailed information on *how* the system solution will function and the requested behaviour. This document is created based on requirements identified by the steering groups and provides traceability on the functional specifications back to the business requirements. Included in this document will be the detailed functional requirements including use cases, system inputs and outputs, process flows, diagrams, and mock ups.

2.2 - Client needs

2.2.1 - Context

Smart-market is looking for a way to market various products to movie lovers.

2.2.2 - Stakes and Objectives

- Display a list of movies available

3 - GENERAL DESCRIPTION OF SOLUTION

3.1 - Operating principles

- User can bookmark a movie to form a personal selection
- Mark films as watched and add comment if desired
- View bookmarked list of watched films
- When viewing listings the user is presented with advertising links

3.2 - Actors

Customer

App

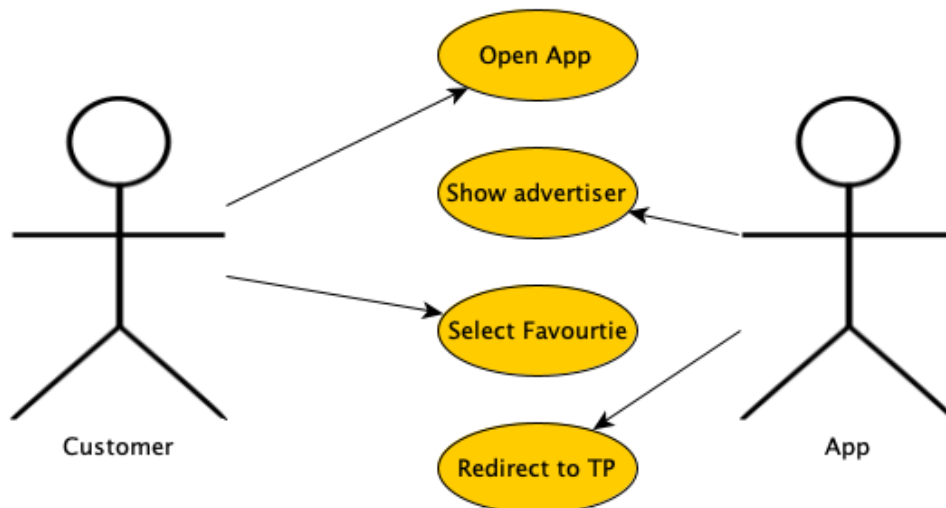
3.3 - General use cases

Customer opens app on their phone to view films list

App shows TP advertisers who can sell related product

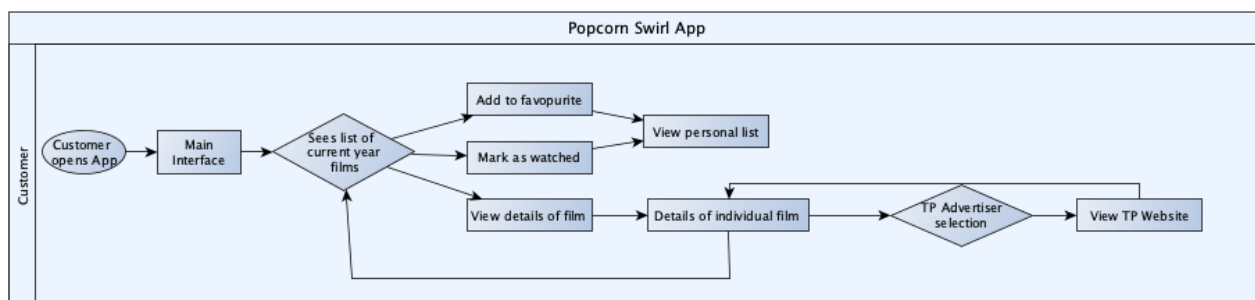
Customer can add favourites to their own list

App redirects to purchasing resource



4 - WORKFLOWS

4.1 - Workflow Manager/Owner



Step	Diagram Ref	Requirements
1	Main Interface	First screen shows a list of films from the current year
2	See list of current year films	Each film will show title, year of release and genre. With buttons for favourite and watched
2.1	Add to favourites	Customer can press a button to add film to a favourites list
2.2	Mark as watched	Customer can press a button to mark film as watched, with pop-up box for comments
2.3	View details of film	Clicking on the film will bring the customer to a screen showing more details of that film and watched comments
3.1	View personal list	If customer clicks on film it will take them to a second screen
3.2	Details of individual film	Customers can select to view a list of favourite/watched films or a combined list
4	TP Advertiser selection	Customer will see options of advertisers who offer products related to the film
5	View TP Website	Redirects them to the Suppliers website to make order, details of store being ordered for etc get pushed over to the 3 rd party website



5 - SOFTWARE DESIGN

5.1 - General Principals

Project sources and versions are managed by **Git**.

The application will be designed in Swift using XCode version 10 for iOS version 12. For both iPhone and iPad.

5.2 - Source Structure

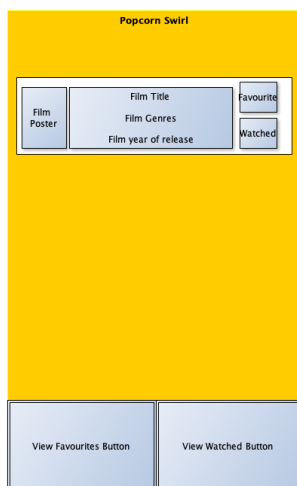
The logic for the structure of the project directories is as follows:

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

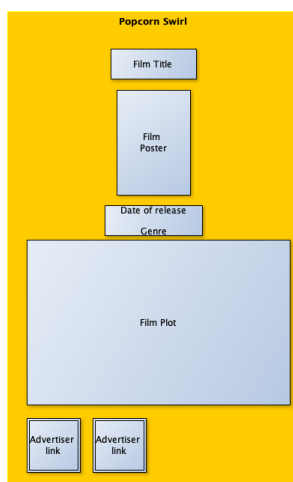


6 - APPLICATION DESIGN

Initial Screen :



Detailed screen :





7 - GLOSSARY

API	Application programming interface - a set of subroutine definitions, communication protocols, and tools for building software
Git	Git is a distributed version-control system for tracking changes in source code during software development.
iOS	iOS is the operating system that powers the iPhone, iPad, and iPod Touch
MVVM	Model-View-View Model - a software architectural pattern. MVVM facilitates a separation of development of the graphical user interface from development of the business logic or back-end logic
Swift	<i>Swift</i> is a general-purpose, multi-paradigm, compiled programming language developed by Apple Inc. for iOS, macOS, watchOS, tvOS, Linux, and z/OS.
XCode	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.