

**Software Engineering and Testing. BSC Year 2, 2024/2025**

**Assessment 2: Requirements Document**

**Submitted by: Names, Student numbers**

**B00160049 Matthew Keenan**

**B00159340 Stanislav Kolev**

**B0016388 Fabio Melilo**

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**Declaration**

I hereby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

Author: Matthew Keenan Dated: 24/2/2025

Author: **Stanislav Kolev** Dated: 24/2/2025

Author: **Fabio Melilo** Dated: 24/2/2025

Tite:

Director’s Cut: Movie Booking and Recommendation System

Client:

Arnold Hensman

1. Project Overview

Our project is a functional movie booking system that allows you to choose from a selection of movies to pick a time and book the movie and receive an e-ticket. It also functions as a movie recommendation website allowing you to choose a genre and receive movie recommendations based on said choice.

1. Document Revision

17/2/2025: Use Case and Requirements were added to Version 1

18/2/2025:

1. **Scope**

This project will be designed to meet the requirements of your average movie watcher with this in mind it must include a functioning booking system including a selection of movies with a description and an option to book or review the movie though login will be required to do so.

Required: 1. Booking System

The booking system will allow the user to input payment information to confirm the booking and will a random String that will function as the users e-ticket

Optional Additions

The booking system will be a sit selection option before or after payment.

Excluded Additions

Individual QR codes for tickets are excluded

Required: 2. Movie Recordation System

**Functional:**

Buying Feature - Shopping

* Allows users to add movie tickets with booking time and desired seat into shopping cart.
* Shopping cart leads to a checkout screen which will prompt banking details.

E-Ticket Signature - Ticketing

* After a purchase is successful an E-Ticket signature will be created. That could theoretically be used to print tickets at the cinema in person.
* The signature is a randomly generated string using JavaScript.
* Printable Ticket

Recommendation System - Recommendations

* Once clicked on a desired movie the user will be put into the times and seats screen this will also contain a section that recommends movies that are of the same genre using JSON.
* The user will be able to navigate to the movies in this selection, this allows them to purchase tickets for the recommendations.

Movie Browsing - Searching

* The movie browsing page displays movies available for purchase through JSON database. The database can also be queried using search functions.
* Each movie will lead to its own page that contains the price and times that are available, the user will also get to choose their desired seat.

Reviews – Movie Reviews

* Users can leave written reviews on movies they have watched.
* Reviews can include a rating system (e.g., 1-5 stars).
* Displayed reviews will be fetched from a database using JSON.

Profiles Reviews - User Rating of Reviews

* Each user profile will have a review system, for there reviews like a thumbs up and thumbs down on the reviews.

Profiles Friending - Friending

* Users will be able to friend each other and look at each other’s profiles.

**Non-Functional:**

Age restrictions

* Users must verify their age before purchasing tickets for age-restricted movies.

Dates

* Showtimes will be displayed in chronological order.
* The system will prevent booking conflicts (e.g., double-booking the same seat).

Prevent Inappropriate Content on Reviews

* User-generated content, such as reviews, will be monitored for inappropriate language.
* Automated filtering and moderation tools will be used to detect offensive words.

Reviews

* The highest liked reviews will show up first.

Friending

* The newest friended profile appears first in the friends list.

USE CASE

**CASE 1: Customer Knows What to Watch:**

Book Movie:

. click on movie page

. click booking option

. select appropriate time

. login to allow you to book

. select sitting

. continue to payment screen

Display Prices

. shows the user the cost of the ticket

. display option to enter payment details

Pay

. Input Payment Information

. Confirm payment transaction

. Pay for the movie

Don’t Pay

. Asked to Input Payment Details

. Click decline

. return to movie page

**CASE 2: Customer Can’t Decide What To Watch**

Find A Movie:

. go to the recommended movies page

. filter by the type of movie you want e.g. Genre: action

. choose from recommended movies

. click on movie

Book Movie:

. click booking option

. select appropriate time

. login to allow you to book

. select sitting

. continue to payment screen

Display Prices

. shows the user the cost of the ticket

. display option to enter payment details

Pay

. Input Payment Information

. Confirm payment transaction

. Pay for the movie

Don’t Pay

. Asked to Input Payment Details

. Click decline

**CASE 3: Reviewer**

Login

. Select register/login

. Input login details

. confirm information

Pick A Movie

. Go to a movie page you have previously watched

. click on the movie page

. click on review button

Review Movie

. Fill out description on your thoughts on the Movie

. Select score of enjoyment

. Confirm you want to finalize and publish review by clicking confirm

**CASE 4: Profile Creation**

Login

. Select register/login

. Input login details

. confirm information

Go to Profile

. Select profile option on the menu

. It will display the information given in login

Add Profile Picture

. Select add profile picture

. select from a limited number of images

. Click confirm to select it as your profile

. The image is displayed with the profile information

A diagram of a diagram

AI-generated content may be incorrect.