# Project Title: System Verification and Validation Plan for Flick Picker

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# **Revision History**

Table 1: Revision History

Date	Developer(s)	Change
October 31	Jarrod Colwell	Summary & Objectives content added
October 31	Talha Asif	Added FR Tests
November 1	Ali Tabar	Added and formatted tests for Non-Functional Requirements
November 1	Ali Tabar	Filled in some tests for Non-Functional Requirements (Look and Feel T 1: Appearance, all of Performance)
November 1	Talha Asif	Filled Traceability Matrix
November 2	Andrew Carvalino	NFR tests
November 2	Madhi Nagarajan	Section 3
November 2	Jarrod Colwell	Final Edits

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# 1 Symbols, Abbreviations and Acronyms

Symbol	Description
Т	Test
V&V	System Verification and Validation
SRS	Software Requirements Specification
UI	User Interface
FR	Functional Requirement
NFR	Non-Functional Requirement
OAuth	Open Authorization

This document contains the V&V plan for Flick Picker, as well as the roadmap of when the tests will be implemented.

# 2 General Information

# 2.1 Summary

This document describes the plan to verify and validate that Flick Picker meets the defined requirements and specifications. Additionally, this document will validate that Flick Picker fulfills its intended purpose of recommending compatible Movies, TV Shows, or Anime to an individual or a group.

# 2.1.1 Front End Testing

- Account Creation Web page that facilitates user account creation
- User Preferences Web page that facilitates user preference settings
- Group Creation Web page that facilitates the creation of groups
- Recommendation Web page that displays recommendations for an individual or group

#### 2.1.2 Back End Testing

- Database Access Accessing the database to find user preferences or information pertaining to Movies, TV Shows, or Anime
- Recommendation Algorithm The algorithm responsible for finding the best Movies, TV Shows, or Anime for an individual or group
- API Data The accessing, storage, and usage of external data from various APIs

# 2.2 Objectives

# 2.2.1 Requirements

The first objective involves verifying that Flick Picker meets requirements outlined in our SRS document and validating that the behaviour present is desirable. This includes the functional requirements (e.g. Authentication Requirements) and the non-functional requirements (e.g. Appearance Requirements). This objective will build confidence in the correctness of Flick Picker along with validating that security and usability standards are met.

#### 2.2.2 UI Elements

The second objective of the V&V document involves the validation of navigability and functionality of UI elements. Each menu described in the 'Front End Testing' section above must be functional for users. Additionally, users must be able to navigate to each page individually. This objective ensures that usability and response time standards are met.

#### 2.2.3 External Connections

The final objective of the V&V document is to ensure that all external connections of Flick Picker (e.g. APIs, Database) work as intended. This objective ensures that the interoperability of Flick Picker is adequate.

# 2.3 Relevant Documentation

#### 2.3.1 SRS

7eam (2022d)

#### 2.3.2 MG

7eam (2022b)

# 2.3.3 MIS

7eam (2022c)

# 3 Plan

Contains the plan for Flick Picker, going into detail about the team and verification plans

## 3.1 Verification and Validation Team

The Verification and Validation Team will consist of Internal (team) and External members.

#### 1. Team Members:

- (a) Ali: Ad-hoc or checklist verification of SRS, Design documents through peer-reviewing. Verification of implementation. For testing, responsible for creating/running frontend unit tests and system tests (Integration, Manual).
- (b) Andrew: Ad-hoc or checklist verification of SRS, Design documents through peer-reviewing. Verification of implementation. For testing, responsible for creating/running frontend unit tests and system tests.
- (c) Jarrod: Ad-hoc or checklist verification of SRS, Design documents through peer-reviewing. Verification of implementation. For testing, responsible for creating/running backend unit tests and system tests.
- (d) Madhi: Ad-hoc or checklist verification of SRS, Design documents through peer-reviewing. Verification of implementation. For testing, responsible for creating/running frontend & backend unit tests and system tests.
- (e) Talha: Ad-hoc or checklist verification of SRS, Design documents through peer-reviewing. Verification of implementation. For testing, responsible for creating/running frontend & backend unit tests and system tests.

#### 2. External Members

- (a) Classmates: Ad-hoc verification of SRS and Design documents.
- (b) Course TAs and Instructors: Ad-hoc verification of SRS and Design documents. Ad-hoc verification of the app implementation.
- (c) Users: Ad-hoc validation of application.

## 3.2 SRS Verification Plan

For the SRS Verification Plan, an ad-hoc approach will be followed. Teammates will peer-review work done for the SRS to verify whether both the functional and non-functional requirements serve validity. The SRS checklist will be followed prior to the finalization of a revision by a team member. Classmates and instructors will ad-hoc review the Revision 0 of the SRS, again to verify the requirements.

# 3.3 Design Verification Plan

For the Design Verification Plan, an ad-hoc approach will be followed. Teammates will peer-review work done for the MG and MIS to verify whether both modules and their specification have validity. The MG and MIS checklists will be followed prior to the finalization of a revision by a team member. Classmates and instructors will ad-hoc review the Revision 0 of the MG and MIS, again to verify the modules.

# 3.4 Implementation Verification Plan

Our Implementation Verification Plan will mainly consist of system testing and unit testing, as specified in the latter sections of this document. These tests will ensure that our implementation meets the criteria for our functional and non-functional requirements. Further means of implementation verification will also include code walkthroughs and reviews prior to pull request approvals. Static analysis and code coverage will also be incorporated to ensure that new code is written up-to standards. Verification tools will be explained in the latter sections.

# 3.5 Automated Testing and Verification Tools

Unit tests will be written with a JavaScript unit testing framework called Jest. Jest also produces reports for code coverage metrics. Our code coverage goals include an overall 80% coverage. A code coverage check will be done for every Pull Request made. Code coverage reports will be monitored to ensure that all functionality is being tested. Integration/system tests will be done with Selenium and Cucumber.js. Cucumber.js also has functionality to produce testing metrics and results. For static analysis and linting,

ESLint and AirBnB styling will be utilized. This will ensure uniform coding standards and uncover any potential errors prior to compilation. Auomated code builds, through GitHub/Jenkins, will be present to ensure that every deployment made will not break the application. Refer to Development Plan for indepth details behind the tools:

7eam (2022a)

# 3.6 Software Validation Plan

For software validation, our team will host review sessions with target users of our application. During this session, these users will interact with the application and we will record their experiences. Based on the data collected, it will allow us to validate whether our requirements fulfills the goal of our application.

# 4 System Test Description

The tests outlined here will follow the following format:

Test #: Test Title

Control: FR: Manual or Automated — NFR: Functional, Dynamic, Manual, or

Static

Initial State: Initial State

Input: Input

Output: Output

Derivation: Test Case Derivation

Execution: Automated Selenium Test — API Test

The execution of the test will be through automated selenium tests for the front-end and an API test library for the back-end.

# 4.1 Tests for Functional Requirements

The tests below are based directly on the FR sections from the SRS. Since these are mandatory requirements, they will all be automated, and the tests must pass on any new code change to prevent these requirements from being violated.

# 4.1.1 Area of Testing: Authentication

Contains all the tests for the Authentication FR.

# UI Auth T 1: User Login - Success

Control: Automated

Initial State: Empty email and password box, on the login screen. Pre-existing test

customer exists.

Input: Email and password is filled correctly

Output: Customer is logged in

Derivation: Need a successful UI test on what a customer will see once they are

logged in correctly

Execution: Selenium Automated Test

### API Auth T 1: User Login - Success

Control: Automated

Initial State: Pre-existing test customer exists.

Input: 'login' API is targeted with correct credentials filled in

Output: Success response is returned (200)

Derivation: Need a successful API test on how the login API will respond to correct

information

Execution: API Test

# UI Auth T 2: User Login - Failure

Control: Automated

Initial State: Empty email and password box, on the login screen. Pre-existing test

customer exists.

Input: Email and password is filled incorrectly

Output: Customer failed to login

Derivation: Need a successful failure UI test on what a customer will see once they

input their credentials incorrectly

Execution: Selenium Automated Test

# API Auth T 2: User Login - Failure

Control: Automated

Initial State: Pre-existing test customer exists.

Input: 'login' API is targeted with incorrect credentials filled in

Output: Failure response is returned (401)

Derivation: Need a successful API test on how the login API will respond to incor-

rect information

Execution: API Test

# UI Auth T 3: User Sign-Up - Success

Control: Automated

Initial State: Empty email and password box, on the login screen.

Input: Sign-up button is pressed, all boxes for sign-up are filled in correctly,

confirm button is pressed

Output: Customer account is created

Derivation: Need a successful UI test on what a customer will see once they Sign-Up

correctly

Execution: Selenium Automated Test

# API Auth T 3: User Sign-Up - Success

Control: Automated

Initial State: Not Applicable

Input: 'signup' API is targeted with information correctly filled in

Output: Success response is returned (200) and customer account is created

Derivation: Need a successful API test on how the signup API will respond to

correct information

Execution: API Test

# UI Auth T 4: User Sign-Up - Failure

Control: Automated

Initial State: Empty email and password box, on the login screen.

Input: Sign-up button is pressed, all boxes for sign-up are filled in incorrectly,

confirm button is pressed

Output: Areas where there is incorrect information is highlighted

Derivation: Need a successful UI test on what a customer will see if they do not

Sign-Up correctly

Execution: Selenium Automated Test

# API Auth T 4: User Sign-Up - Failure

Control: Automated

Initial State: Not Applicable

Input: 'signup' API is targeted with information incorrectly filled in

Output: Failure response is returned (422) and customer account is not created

Derivation: Need a successful API test on how the signup API will respond to

correct information

Execution: API Test

# UI Auth T 5: User Logout

Control: Automated

Initial State: Test customer is logged in, on home page

Input: Logout is pressed

Output: Login screen displays

Derivation: Need a UI test on what a customer will see if they log out

Execution: Selenium Automated Test

# API Auth T 5: User Logout

Control: Automated

Initial State: Test customer is logged in

Input: 'logout' API is targeted with the test customer information

Output: Success response is returned (500)

Derivation: Need to test the logout API

Execution: API Test

# UI Auth T 6: User OAuth Sign-Up/Login

Control: Automated

Initial State: Empty email and password box, on the login screen.

Input: OAuth button is pressed

Output: Correctly redirect to OAuth login

Derivation: Need a successful UI test on what a customer will see if they choose to

sign-up/login though an OAuth provider

Execution: Selenium Automated Test

# 4.1.2 Area of Testing: Profile/Group

Contains all the tests for the Profile/Group FRs.

# UI PG T 1: Modify User Profile

Control: Automated

Initial State: On home page

Input: Profile button is clicked, display name and password are updated, con-

firm is clicked

Output: Confirmation that information is updated

Derivation: Need a successful UI test on how a customer can update their profile

Execution: Selenium Automated Test

# API PG T 1: Modify User Profile

Control: Automated

Initial State: Not Applicable

Input: 'updateProfile' API is targeted with data to update

Output: Success status is returned (200)

Derivation: Need a successful API test on how a customer can update their profile

Execution: API Test

# UI PG T 2: Modify User Preferences

Control: Automated

Initial State: On home page

Input: Profile button is clicked, show preferences are updated, confirm is

clicked

Output: Confirmation that preferences are updated

Derivation: Need a successful UI test on how a customer can update their prefer-

ences

Execution: Selenium Automated Test

# API PG T 2: Modify User Preferences

Control: Automated

Initial State: Not Applicable

Input: 'updatePreferences' API is targeted with data to update

Output: Success status is returned (200)

Derivation: Need a successful API test on how a customer can update their prefer-

ences

Execution: API Test

# UI PG T 3: Create Group

Control: Automated

Initial State: On home page

Input: Create Group button is clicked, name is input, confirm is clicked

Output: Group is created with the specified name

Derivation: Need a successful UI test on how a customer can create a group

Execution: Selenium Automated Test

# API PG T 3: Create Group

Control: Automated

Initial State: Not Applicable

Input: 'createGroup' API is targeted with name specified

Output: Success status is returned (200) and group is created

Derivation: Need a successful API test on how a customer can create a group

Execution: API Test

# UI PG T 4: Join Group

Control: Automated

Initial State: On home page

Input: Invite is accepted through notifications

Output: User is added to the group

Derivation: Need a successful UI test on how a customer can join a group

Execution: Selenium Automated Test

# API PG T 4: Join Group

Control: Automated

Initial State: Not Applicable

Input: 'acceptInvite' API is targeted

Output: Success response is returned (200)

Derivation: Need a successful API test on how a customer can join a group

Execution: API Test

# UI PG T 5: Invite to Group

Control: Automated

Initial State: On home page

Input: Group is selected, invite user through their username or email, confirm

is clicked

Output: User invite is sent

Derivation: Need a successful UI test on how a customer can send an invite

Execution: Selenium Automated Test

# API PG T 5: Invite to Group

Control: Automated

Initial State: Not Applicable

Input: 'sendInvite' API is targeted

Output: Success response is returned (200)

Derivation: Need a successful API test on how a customer can send an invite

Execution: API Test

# 4.1.3 Area of Testing: Recommendation

Contains all the tests for the Recommendation FRs.

# UI R T 1: Receive Recommendations

Control: Automated

Initial State: On home page

Input: Not Applicable

Output: Observe if the home page is updated with recommendations

Derivation: Need a successful UI test where a customer gets rotating recommenda-

tions

Execution: Selenium Automated Test

### API R T 1: Receive Recommendations

Control: Automated

Initial State: Not Applicable

Input: 'viewRecommendations' API is targeted

Output: Success response is returned (200) along with the list of shows

Derivation: Need a successful API test where a customer gets rotating recommen-

dations

Execution: API Test

### UI R T 2: Rate Recommendations

Control: Automated

Initial State: On home page

Input: Hover a movie and input recommendation

Output: Movie should be updated with the recommendation

Derivation: Need a successful UI test where a customer can update recommenda-

tions

Execution: Selenium Automated Test

# API R T 2: Rate Recommendations

Control: Automated

Initial State: Not Applicable

Input: 'rateRecommendations' API is targeted along with enum data type

Output: Success response is returned (200) and the movie recommendation is

stored

Derivation: Need a successful API test where a customer gets updated recommen-

dations

Execution: API Test

### API R T 3: Recommendation Match

Control: Automated

Initial State: Not Applicable

Input: 'findSharedRecommendation' API is targeted along with 5 user prefer-

ences

Output: Success response is returned (200) and a show is selected with shared

preferences

Derivation: Need a successful API test where a group gets a recommended show

Execution: API Test

### API R T 4: Recommendation Mismatch

Control: Automated

Initial State: Not Applicable

Input: 'findSharedRecommendation' API is targeted along with 5 user prefer-

ences, with entirely different preferences

Output: Success response is returned (200) and a show is selected with shared

the highest number of shared preferences

Derivation: Need a successful API test where a group gets a recommended show

where none of their preferences matched

Execution: API Test

# 4.2 Tests for Nonfunctional Requirements

The tests below are based directly on the NFR sections from the SRS. Not all tests will be automated due to the nature of the requirement being tested. We have also deemed to not test Scalability, due to the nature of that requirement.

# 4.2.1 Area of Testing: Look and Feel

Contains all the tests for the Look and Feel NFR.

# Look and Feel T 1: Appearance

Control: Manual

Initial State: Empty email and password box on the login screen

Input: Any and all appropriate user inputs and navigation (typing login info,

clicking buttons)

Output: Visiting all menus and triggering all possible UI changes

Derivation: Program's visual look in the real world (proper buttons / menus ap-

pearing, alignment, etc) should be approved by a real user

Execution: Manual User Test

### Look and Feel T 2: Ease of Use

Control: Non-Functional

Initial State: System is in the login screen state

Input: User logs in and explores the different screens and services offered

Output: User goes through the system and provide feedback on the style choices

(such as size of buttons or overall colour palette)

Derivation: The test is meant to assess how different users may feel about style

decisions and offer feedback on what looks and feels good to them and

what needs improvement

Execution: Survey

# 4.2.2 Area of Testing: Usability and Humanity Tests

# Usability and Humanity T 1: Ease of Use

Control: Non-Functional

Initial State: System is in the login screen state

Input: User logs in and explores the different screens and services offered

Output: User goes through the system without needing to ask for assistence or

misunderstanding the affordances of the different screens

Derivation: The test case is meant to assess whether the presentation of the system

informs users of different technological skill levels of what functionality

is provided by whatever state/screen they may be on

Execution: User Test

# Usability and Humanity T 2: Learning

Control: Non-Functional

Initial State: Users have just finished Test #3

Input: Users are given a survey of how easy/complicated their experience using

the system was

Output: The surveys are filled out and collected

Derivation: This survey is a continuation of Test #3, with its results providing

feedback as to whether the GUI of the system is understandable to

users of different skill levels

Execution: Survey

# 4.2.3 Area of Testing: Performance

Contains all the tests for the Performance NFR.

# Performance T 1: User Input Responsiveness

Control: Dynamic

Initial State: Any menu

Input: Any user input (entering text, clicking a button)

Output: Appropriate program response to user input

Derivation: Must time the responsiveness of the program to an arbitrary user action

in order to gauge if it is below 1 second.

Execution: Automated Selenium Test

# Performance T 2: Safety-Critical

Control: Dynamic

Initial State: Empty email and password box on the login screen

Input: Any and all appropriate user inputs and navigation (typing login info,

clicking buttons)

Output: Visiting all menus and triggering all possible UI changes, verifying with

Selenium that no user information is outputted on the page

Derivation: Ensuring that the application handles the user's private data properly

and does not output it due to any unforeseen condition

Execution: Automated Selenium Test

# Performance T 3: Precision or Accuracy

Control: Manual

Initial State: Main screen to generate a recommended media match for a previously

created and inputted group

Input: Clicking the button to generate the match

Output: The media match

Derivation: Must assess accuracy of program's ability to find something that ev-

eryone in the group should enjoy

Execution: Conduct a survey using a fixed amount of people, and have each of

them create an account. An effort should be made to choose a group of respondents that have a wide variety of preferences for the different categories of media available on Flick Picker. They will create and join multiple groups among each other using the application, and search for matches in each of these distinct groups. The survey will inquire respondents about each group, and how accurate they perceive their

matches were each given group.

# Performance T 4: Reliability and Availability

Control: Dynamic

Initial State: Online application with server running

Input: Visiting the web page

Output: Connection success or failure

Derivation: Checking to see if the web application is available for at least 90% of

the day, assuming Firebase stability

Execution: Automated Selenium Test

### Performance T 5: Robustness or Fault-Tolerance

Control: Dynamic

Initial State: Main screen to generate a recommended media match for a previously

created and inputted group. This group will be comprised of unique

and few preferences.

Input: Input

Output: Output

Derivation: Verifying that a match will always be found by stress testing using

some heterogeneous groups

Execution: Automated Selenium Test

# Performance T 6: Capacity

Control: Dynamic

Initial State: 0 users logged on the application

Input: Several users logging onto the application

Output: Application's stability

Derivation: Ensuring and proving that each user session is independent of another

and that no limit to the number of users logged on concurrently exists.

Execution: Automated Selenium Test

# 4.2.4 Area of Testing: Operational and Environmental Test

Operational and Environmental T 1: Interfacing with Adjacent Systems

Control: Manual

Initial State: System is in the login menu state

Input: Developer will use the system as a regular user would on different web

browsers

Output: The system will have the same fundamental functionalities on all browsers, with perhaps minor differences in visual presentation

Derivation: Developer will go through the various functionalities of the system on different web browsers, such as Chrome and Firefox, to assess whether or not it works and is usable on each

Execution: Developer Exploration Test

# 4.2.5 Area of Testing: Maintainability and Support Tests Maintainability and Support T 1: Adaptability

Control: Manual

Initial State: System is in the login menu state

Input: Developer will use the system as a regular user would on different mobile devices

Output: The system will have the same fundamental functionalities on different mobile devices, with perhaps minor differences in visual presentation

Derivation: Developer will go through the various functionalities of the system to assess whether or not it works and is usable on each

Execution: Developer Exploration Test

# 4.2.6 Area of Testing: Security Tests

### Security T 1: Access

Control: Manual

Initial State: System is in the main menu state

Input: Developer will click on their user profile and test the ability to change settings, as well as view the profile information of other users and ensure they cannot change their settings

Output: The Developer's user profile will be changed, with such changes being visible to other users (if the setting was one which can be viewed by others) with the content of other profiles being unchangeable

Derivation: Developer will ensure that the user's data is changable, that changes to public information can be viewed by others, that others' settings cannot be changed, and private information cannot be viewed by other users

Execution: Developer Exploration Test

# Security T 2: Integrity

Control: Manual

Initial State: System is in the main menu state

Input: Developer will change a profile or preference setting

Output: After different increments of time after the changes are made (such as immediately, 1 hour, and 24 hours after) the Developer will verify that all the changes made persist and do not revert to a prior state

Derivation: This is the best way to verify that information persists and retains its integrity over time, with it being possible to infer future persistence of information after the testing period

Execution: Developer Exploration Test

# 4.3 Traceability Between Test Cases and Requirements

The two traceability matrices can be found in the Appendix.

# 5 Unit Test Description

This section will be filled in after the MIS is completed.

# References

- 7eam. Development plan. https://github.com/TAsif/Team7Project/blob/develop/docs/DevelopmentPlan/DevelopmentPlan.tex, 2022a.
- 7eam. Module guide. https://github.com/TAsif/Team7Project/blob/develop/docs/Design/MG/MG.tex, 2022b.
- 7eam. Module interface specification. https://github.com/TAsif/ Team7Project/blob/develop/docs/Design/MIS/MIS.tex, 2022c.
- 7eam. System requirements specification. https://github.com/TAsif/Team7Project/blob/develop/docs/SRS/SRS.tex, 2022d.

# Appendix

Table 2: Traceability Matrix 1

	Table 2: Tra
Test Number	Requirement
UI Auth T 1	FR 1
API Auth T 1	FR 1
UI Auth T 2	FR 1
API Auth T 2	FR 1
UI Auth T 3	FR 1
API Auth T 3	FR 1
UI Auth T 4	FR 1
API Auth T 4	FR 1
UI Auth T 5	FR 3
API Auth T 5	FR 3
UI Auth T 6	FR 2
UI PG T 1	FR 4
API PG T 1	FR 4
UI PG T 2	FR 5
API PG T 2	FR 5
UI PG T 3	FR 6
API PG T 3	FR 6
UI PG T 4	FR 7
API PG T 4	FR 7
UI PG T 5	FR 8
API PG T 5	FR 8
UIRT1	FR 9
API R T 1	FR 9
UIRT2	FR 10
API R T 2	FR 10
UI R T 3	FR 11
API R T 3	FR 11

Table 3: Traceability Matrix 2

Test Number	Requirement
Look and Feel T 1	10.1.1
Look and Feel T 2	10.1.2
Usability and Humanity T 1	10.2.1
Usability and Humanity T 2	10.2.3
Performance T 1	10.3.1
Performance T 2	10.3.2
Performance T 3	10.3.3
Performance T 4	10.3.4
Performance T 5	10.3.5
Performance T 6	10.3.6
Operational and Environmental T 1	10.4.3
Maintainability and Support T 1	10.5.3
Security T 1	10.6.1
Security T 2	10.6.2