

Lab 3 – FlixPicks Prototype Test Plan

Team Orange

CS411W

Professor J. Brunelle

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Version 1

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3.1 Account Management

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1. Objectives

The primary objective of this test plan is to ensure the approach to developing and testing the FlixPicks Prototype can lead to a successful demonstration of the FlixPick's product operation. FlixPicks is an internet application that can be accessed from any device able to support a modern web browser. FlixPicks will make the movie streaming experience easier and more enjoyable.

2. References

Team Orange. (____). Lab 1 - FlixPicks

Retrieved ____, from

Team Orange. (____). Lab 2 - FlixPicks

Retrieved ____, from

3. Test Procedures

3.1 Account Management

3.1.1 Account Creation Test (O: Cody Rabie)

Test Category: System test		Description: This test will verify that a user can create an account and successfully have their information posted to the database.		
Test Case: 3.1.1		Case Name: Account Creation	Version: 1.0	Written By: Cody Rabie
Requirements Fulfilled: (3.1.1.2)		Purpose: This test verifies that a user can create an account through the registration page. Successful account creation requires that the provided username does not already exist in the database and that all required fields (username, password, name, email) are completed.		
Setup Conditions: FlixPicks registration page is open				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	The user clicks the “Register” button on the dashboard (3.1.1.2.1)			Registration page loads with empty fields for the user to input the username, password, name, and email address.
2	The user enters a pre-existing username (3.1.1.2.1)			The user shall be notified that the missing field(s) information is required and will not be able to submit a registration request.
3	The user leaves any of the fields blank (3.1.1.2.1)			The user shall be notified that the missing field(s) information is required and will not be able to

				submit a registration request.
4	The user fills out all of the form entries and does not pick a pre-existing username (3.1.1.2.1)			The user will successfully register and their information will be stored in the database as an account.

3.1.2 User Login Test (O: Zachary Carpenter)

Test Category: System test		Description: This test will verify that a user can log in to an account and successfully view the information that was inputted when they made an account.		
Test Case: 3.1.2		Case Name: User Login Test	Version: 1.0	Written By: Zachary Carpenter
Requirements Fulfilled: (3.1.1.1)		Purpose: This test verifies that a user can sign in to an account through the login page. Successful account login requires that the provided username and password match in the database.		
Setup Conditions: 1. Create an account (Or use an already existing account) 2. Navigate to the Guest Home Page (Open FlixPicks for the first time, or log out)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Hover the mouse over the circular icon labeled “Guest” in the top right corner of the Guest Home Page.			A dropdown appears containing options for “Login” and “Register”
2	Click on “Login”.			FlixPicks redirects to the “Login” page which displays a field for each of the following: 1. Username 2. Password
3	Click on the “Username” field and type in the username of the account that was previously created.			If the username field is left empty and the submit button is

				pressed an error message will pop up.
4	Type the password for that account in the password field.			If the password field is left empty and the submit button is pressed an error message will pop up, otherwise the username and password will be checked against the users in the database.
5	Press the submit button after entering the correct username and password.			FlixPicks redirects to the “Registered User Home Page”.

3.1.3 Guest User Profile Dropdown Test (O: Zachary Carpenter)

Test Category: System Test		Description: This test verifies that the dropdown in the header of the FlixPicks Guest Home Page works correctly.		
Test Case: 3.1.3		Case Name: Guest User Profile Dropdown	Version: 1.0	Written By: Zachary Carpenter
Requirements Fulfilled: 3.1.1.3.1.1		Purpose: This test ensures that all the options in the profile dropdown on the Guest Page redirect to the correct locations.		
Setup Conditions: 1. Navigate to the Guest Home Page (Open FlixPicks for the first time, or log out)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Hover the mouse over the circular icon labeled “Guest” in the top right corner of the Guest Home Page.			A dropdown appears containing options for “Login” and “Register”

2	Click on “Register”.			FlixPicks redirects to the “Register” page which displays a field for each of the following: 1. Email 2. First name 3. Last name 4. Username 5. Password 6. Password-Conformation
3	Hover the mouse over the circular icon labeled “Guest” in the top right corner of the Register Page.			A dropdown appears containing options for “Login” and “Register”
4	Click on “Login”.			FlixPicks redirects to the “login” page which displays a field for both of the following: 1. Username 2. Password

3.1.4 Registered User Profile Dropdown Test (O: Zachary Carpenter)

Test Category: System Test	Description: This test verifies that the dropdown in the header of the FlixPicks Registered User Home Page works correctly.		
Test Case: 3.1.3	Case Name: Registered User Profile Dropdown	Version: 1.0	Written By: Zachary Carpenter
Requirements Fulfilled: 3.1.1.3.1.2	Purpose: This test ensures that all the options in the profile dropdown on the Registered User Page redirect to the correct locations.		
Setup Conditions: <div>1. Navigate to the Registered User Home Page (Sign in)</div> <div>2. If this is the first time signing in on this account: complete the Taste Profile Survey</div>			

Test Case Activity		Pass/Fail	Comments	Expected Result
1	Hover the mouse over the circular icon labeled with the current user's first name in the top right corner of the Registered User Home Page.			A dropdown appears containing options for "Settings", "Watch History" and "Logout"
2	Click on "Settings".			FlixPicks redirects to the "Settings" page which displays the following: <ul style="list-style-type: none"> 1. Change Password 2. Subscription Management
3	Hover the mouse over the circular icon labeled with the current user's first name in the top right corner of the Settings Page.			A dropdown appears containing options for "Settings", "Watch History" and "Logout"
4	Click on "Watch History".			FlixPicks redirects to the "Watch History" page which displays the following: <ul style="list-style-type: none"> 1. Watched Category 2. Liked Category 3. Disliked Category
5	Hover the mouse over the circular icon labeled with the current user's first name in the top right corner of the Settings Page.			A dropdown appears containing options for "Settings", "Watch History" and "Logout"
6	Click on "Logout".			FlixPicks redirects to the "Guest Home" page

3.1.5 User Profile Settings Test (O: Cody Rabie)

Test Category: System test	Description: This test verifies that the user profile settings page and functions display and function properly		
Test Case: 3.1.5	Case Name:	Version: 1.0	Written By: Cody Rabie

		User Profile Settings		
Requirements Fulfilled: (3.1.1.3.2)		Purpose: To ensure the user profile settings page displays correctly. Ensures a user has the options to change their password, view current subscriptions, add subscriptions, and remove subscriptions.		
Setup Conditions: 1. FlixPicks application is open to the Settings page (3.1.1.3.2)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	The user clicks the “Settings” button on the Userhome page (3.1.1.3.2).			User profile settings page loads and displays options to change password, add subscriptions, and remove subscriptions. Current subscriptions are also displayed on this page. The user’s current username is displayed in the top right header.
2	The user types in the “Change Password” field and presses submit (3.1.1.3.2).			A prompt stating the user password has been successfully changed is displayed, and the user is able to freely access the settings page again.
3	The user types nothing in the “Change Password” field and presses submit (3.1.1.3.2).			An error message stating that the field is empty is displayed.
4	The user clicks the add subscriptions button (3.1.1.3.2).			A text box prompt displays, asking the user for the name of the subscription service they wish to add.

	The user types a valid streaming service that isn't already in their current subscriptions (3.1.1.3.2).			A successfully added subscription message is displayed and the service is added to the users services. The current subscriptions information is updated to include the new service.
	The user instead types in a non valid input (3.1.1.3.2)..			An error message stating that this is not a valid streaming service is displayed.
	The user instead types a streaming service that already exists in the list (3.1.1.3.2).			An error message is displayed, and the user is redirected to the settings page.
	The user clicks the remove subscriptions button (3.1.1.3.2).			A text box prompt displays, asking the user for the name of the subscription service they wish to remove.
	The user types a valid streaming service that is already in their current subscriptions (3.1.1.3.2).			A successfully removed subscription message is displayed and the removal is reflected in the current subscriptions information displayed on the page.
	The user instead types non valid input (3.1.1.3.2).			An error message is displayed, and the user is redirected to the settings page.
	The user instead types a streaming service that does not exist in the current subscriptions (3.1.1.3.2).			An error message is displayed, and the user is redirected to the settings page.

3.2 Movie Library

3.2.1 Search/Browse (O: Chance)

Test Category: System Test		Description: This test verifies the search feature correctly finds movies within the database.		
Test Case: 3.2.1		Case Name: Search Test	Version: 1.0	Written By: Chance Sadler
Requirements Fulfilled: 3.1.2.1		Purpose: To ensure that movies that are within the database can be searched. Also to ensure that for any movie titles that are searched not within the database present the user with the “Sorry” message..		
Setup Conditions: 1. FlixPicks application is open 2. In a separate tab open the Movie Table				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Click into the search box in the top right corner of the screen.			The text cursor appears in the box/
2	Type the full movie title from the Movie Table. Click the magnifying glass icon next to the search box.			The webpage will change to the search page. The searched movie will be present on the screen.
3	Click into the search box in the top right corner of the screen. Type a partial movie title from the Movie Table. Click the magnifying glass icon next to the search box.			The webpage will change to the search page. The searched movie will be present on the screen.
4	Click into the search box in the top right corner of the screen. Type “Favorite Movie”. Click the magnifying glass icon next to the search box.			The “Sorry” message will be on the search page.

3.2.2 HotPicks (O: Cody Rabie)

Test Category: System test		Description: This test verifies that the HotPicks media category displays popular movie options to both the guest and registered user UI correctly.		
Test Case: 3.2.1		Case Name: HotPicks Test	Version: 1.0	Written By: Cody Rabie
Requirements Fulfilled: (3.1.2.2)		Purpose: To ensure that the popular movie options are displayed properly in the HotPicks media category. It also ensures that these options can be selected, then loading the mediaInfo page.		
Setup Conditions: <div>1. FlixPicks application is open.</div> <div>2. The FlixPicks guest homepage UI is open.</div> <div>3. The FlixPicks registered user homepage UI is open.</div>				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	The user loads the guest home page.			The HotPicks category displays title and poster information for popular_movies. Each movie is separated into individual tiles that can be selected.
2	The user loads the registered user home page.			The HotPicks category displays title and poster information for popular_movies. Each movie is separated into individual tiles that can be selected.
3	The user selects a tile from the HotPicks category.			<div>The ‘mediaInfo’ page submits a ‘GET’ request to the FlixPicks API to retrieve media information about the selected movie.</div> <div>The mediaInfo page loads with title, plot, release date, genre, and where-to-watch information from the selected movie.</div>

3.1.3 CineRoll (O: Chance Sadler)

Test Category: Systems Test		Description: This test verifies that the CineRoll button takes a user to a pseudo random movie recommendation.		
Test Case: 3.1.3		Case Name: CineRoll test	Version: 1.0	Written By: Chance Sadler
Requirements Fulfilled: 3.1.2.3		Purpose: To ensure the CineRoll button pseudo randomly takes the user to an existing recommendation. The test also checks that the error page correctly appears if the user does not have any recommendations.		
Setup Conditions: <ul style="list-style-type: none">1. Build and run the docker container2. Populate the recommendations using the simulations section of the database web page3. Open the data table for recommendations4. In a new tab open the front-end application5. Login as an existing user:<ul style="list-style-type: none">a. Username: testb. Password: 12345c. User ID: 16. For test 4: Clear database of recommendations				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	On the user home page click on the “CineRoll” button.			The tester should be on a media info page
2	Cross reference the movie from the media page that opened in test 1 with the recommendation table.			The movie should be on the recommendation table for this user
3	On the user home page click on the “CineRoll” button.			It should be a different movie page
4	On the user home page click on the “CineRoll” button.			Error message no movies.

3.2.4 CineWheel (O: Chance Sadler)

Test Category: User Interfaces		Description: This test verifies that the CineWheel interface allows user input, spins, stops pseudo randomly, and redirects to the selected movie.		
Test Case: 3.1.2.4.2		Case Name: CineWheel	Version: 1.0	Written By: Chance Sadler
Requirements Fulfilled: 3.1.2.4		Purpose: To ensure all CineWheel operations work as intended		
Setup Conditions: 1. Build and run the docker container 2. Open front-end application 3. Select the CineWheel button on home page 4. Valid list of movies: Barbie, Spider-man, Star Wars, Wish, Godzilla, Dune, Uncharted, Cars, Fast X, Sniper, Pacific Rim, John Wick, Mummy, Twilight, Inside Out 5. Invalid Movie: 123				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Click on the form. Type movie titles from the list of 5 valid movies separated by newlines into the form. Then click “Submit” and lastly click the “Open Wheel” button		When taking movies from valid list do not include commas	The wheel will have the 5 movies displayed on it
2	Click the “Close” button			The wheel pop up will close.
3	Click on the form. Remove all text from the form. Then type movie titles from the list of 15 valid movies separated by newlines into the form.Then click “Submit” and lastly click the “Open Wheel” button.			The wheel will have 13 of the movies displayed on it
4	With the wheel displayed click “Spin the Wheel” After the wheel stops close the newly opened tab to return to the wheel interface.		This is assuming the steps from test	The wheel shall begin spinning

			case 3 were completed	
5	With the wheel displayed click “Spin the Wheel” and allow it to stop 5 times. Start and stop a stop watch for each spin. Close new tabs to return to the wheel between each spin.		This is assuming the steps from step 3 were completed	The wheel will spin and slow down at different rates lasting between 4 and 8 seconds each time
6	Follow the steps from test 3. Then with the wheel displayed click “Spin the Wheel” and allow the wheel to land on a valid movie title. After this test, close the new tab and return to the CineWheel tab.		Redirects to search page instead of movie page	Upon stopping a new tab will open and the browser focus will automatically swap to the new tab displaying the movie in the search feature
7	Return to initial set up conditions. Click on the form. Type an invalid movie title into the form. Click “Submit” then “Open Wheel”. The Wheel should be displayed with only the invalid movie on the wheel. Click “Spin the Wheel”.			Upon stopping a new tab will open and the browser focus will automatically swap to the new tab displaying the “Sorry message” in the search feature

3.3 Content Filtering

3.3.1 Recommender (O: Nicholas Vantol)

Test Category: System Testing	Description: This test will verify that the recommender generates recommendations for a user based on their watch history		
Test Case: 3.3.1	Case Name: Recommender	Version: 1.0	Written By: Nicholas Vantol
Requirements Fulfilled: 3.1.3.1	Purpose: To ensure that the recommender generates recommendations based on watch history		
Setup Conditions: 1. FlixPicks application is open 2. FlixPicks simulation page is open			

3. User registration, login, and taste profile completion is known				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	On simulations press generate watch history			Popup window appears with simulate watch history and operations
2	On popup, keep default operation of preset patterns selected			Preset patterns button is highlighted
3	Click Run Simulation button			Confirmation of preset patterns being generated appears
4	On flixpicks application, register an account and log in in accordance to test case x.x.x			User has a homepage with no recommendations
5	User types a movie, “UP”, into the “Search for a movie...” box in the top right hand corner of the home page			“Up” appears in the search line
6	User clicks the search icon			Movies including the key word “UP” now appear on the screen
7	User clicks the movie “UP”			A description of UP, where to watch, a poster, and a TMDB link appear
8	User clicks on the TMDB link			User is directed to the TMDB page in a new tab

9	On media description page user click “FLixPicks” located in the top left			User is returned to the homepage
10	User repeats steps 5-9 three more times, replacing “UP” with the following titles: “The Conjuring: The devil made me do it”, “Whiplash”, “SaltBurn”			User is on homepage
11	User waits on the homepage for around one minute and then refreshes the page			Recommended content now displays “Jurassic World: Fallen Kingdom” and “Mulan”

3.4 Database

3.4.1 Users Table

Test Category: System Test		Description: This test verifies the Users table exists and fields are properly mapped with FlixPicks backend systems.		
Test Case: 3.4.1		Case Name: Users Table	Version: 1.0	Written By: James Powers
Requirements Fulfilled: 3.1.4.1		Purpose: To ensure Users table exists and fields are properly mapped when a new users are added.		
Setup Conditions: 1. FlixPicks docker containers are currently running locally for testing. 2. FlixPicks database home page is open (http://localhost:3000)				
Test Case Activity		Pass/Fail	Comments	Expected Result

1	Select Tables from the top menu bar.			List of available tables are shown.
2	From the User Data menu, choose Users.			User table data is shown with default data present.
3	Visually inspect presented data to ensure the following fields are present: id, username, fname, name, role, email, registration_date, last_login, password			All fields identified have been validated.
4	Navigate to the Simulations page using the top menu bar.			Run simulations options are shown.
5	Press the Generate Users button.			Simulate Users popup dialog is displayed showing options.
6	Press Run Simulations, leaving the default options as is.			Simulated users will be added and a green confirmation message is displayed on the Simulations page.
7	Navigate to Tables using the top menu bar, then choose Users from the User Data menu.			User table data is shown with current data present.
8	Visually inspect the table to ensure a series of new simulated users have been generated and all fields are consistent with their description from requirement 3.1.4.1.			All fields and new users have been verified.

3.4.2 Watch History

Test Category: System Test	Description: This test verifies the Watch History table exists and fields are properly mapped with FlixPicks backend systems.		
Test Case:	Case Name:	Version:	Written By:

3.4.2		Watch History	1.0	James Powers
Requirements Fulfilled: 3.1.4.1		Purpose: To ensure the Watch History table exists and fields are properly mapped when new entries are added.		
Setup Conditions: 1. FlixPicks docker containers are currently running locally for testing. 2. FlixPicks database home page is open (http://localhost:3000)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Select Tables from the top menu bar.			List of available tables are shown.
2	From the User Data menu, choose Watch History.			Watch History table data is shown with default data present.
3	Visually inspect presented data to ensure the following fields are present: id, user_id, movie_id, watched, from_recommended, suppressed			All fields identified have been validated.
4	Navigate to the Simulations page using the top menu bar.			Run simulations options are shown.
5	Press the Generate Watch History button.			Simulate Watch History popup dialog is displayed showing default options.
6	Press Run Simulations, leaving the default options as is.			Simulated watch history will be added and a green confirmation message is displayed on the Simulations page.
7	Navigate to Tables using the top menu bar, then choose Watch History from the User Data menu.			Watch History table data is shown with current data present.

8	Visually inspect the table to ensure a series of new simulated users have been generated and all fields are consistent with their description from requirement 3.1.4.1.			All fields and new watch history has been verified.
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3.4.3 Media Content

Test Category: System Test		Description: This test verifies the Movies, Genre, and Streaming Providers tables are present.		
Test Case: 3.4.3		Case Name: Media Content	Version: 1.0	Written By: James Powers
Requirements Fulfilled: 3.1.4.1		Purpose: To ensure the Movies, Genre, and Streaming Providers tables are present and properly mapped to backend systems.		
Setup Conditions: 3. FlixPicks docker containers are currently running locally for testing. 4. FlixPicks database home page is open (http://localhost:3000)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Select Tables from the top menu bar.			List of available tables are shown.
2	From the Content menu, choose Movies.			The Movies table is shown with default data present.
3	Visually inspect to ensure the following fields are shown and have contents: Movie_id, tmdb_id, title, release_date, runtime, poster_path, backdrop_path, language			All fields identified have been validated.
3	Navigate to Tables using the top menu bar, then choose Genre from the Content menu.			The Genre table is shown with default data present.

4	Visually inspect to ensure the following fields are shown and have contents: Genre_id, tmdb_id, genre_name			All fields identified have been validated.
5	Navigate to Tables using the top menu bar, then choose Streaming Providers from the Content menu.			The Streaming Providers table is shown with default data present.
6	Visually inspect to ensure the following fields are shown and have contents: Provider_id, tmdb_id, provider_name, display_priority, logo_path, region			All fields identified have been validated.

3.4.4 User Ratings (O: Nicholas Vantol)

Test Category: System Test	Description: This test verifies the User Ratings table exists and fields are properly mapped with FlixPicks backend systems.		
Test Case: 3.4.4	Case Name: User Rating	Version: 1.0	Written By: Nicholas Vantol
Requirements Fulfilled: 3.1.4.1.4	Purpose: To ensure the User Ratings table exists and fields are properly mapped when new entries are added.		

Setup Conditions: <ol style="list-style-type: none"> 1. FlixPicks database home page is open (http://localhost:3000) 2. Watch History is populated for users 				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Select Tables from the top menu bar.			List of available tables are shown.
2	From the User Data menu, click User Ratings.			User Ratings table is shown with headers present.
3	Visually inspect to ensure the following headers are present: id, user_id, movie_id, user_liked			All fields identified have been validated.
4	Navigate to the Simulations page using the top menu bar.			Run simulations options are shown.
5	Click the Generate User Ratings button.			Simulate User Ratings popup dialog is displayed showing default slider percentages.
6	Press Run Simulations, leaving the sliders as is.			Simulated user ratings will be generated and a “Simulated User Ratings have been generated” message is displayed on the Simulations page.

7	Select Tables from the top menu bar.			List of available tables are shown.
8	From the User Data menu, click User Ratings.			User Ratings table is shown with data populated for every field pertaining of types int, int, int, Boolean.

3.4.5 Recommendations (O: Nicholas Vantol)

Test Category: System Test	Description: This test verifies the Recommendations table exists and fields are properly mapped with FlixPicks backend systems.		
Test Case: 3.4.5	Case Name: Recommendations	Version: 1.0	Written By: Nicholas Vantol
Requirements Fulfilled: 3.1.4.2	Purpose: To ensure the Recommendations table exists and fields are properly mapped when new entries are added.		

Setup Conditions: 1. FlixPicks database home page is open (http://localhost:3000)				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	Select Tables from the top menu bar.			List of available tables are shown.
2	From the Recommendations menu, click Recommendations.			Recommendations table is shown with headers present.
3	Visually inspect to ensure the following headers are present: id, user_id, movie_id, title, recommended			All fields identified have been validated.
4	Navigate to the Simulations page using the top menu bar.			Run simulations options are shown.
5	Click the Generate recommendations button.			Simulate recommendations popup dialog is displayed showing default slider number.
6	Press Run Simulations, leaving the sliders as is.			Simulated recommendations will be generated and a “Simulated recommendations populated” message is displayed on the Simulations page.

7	Select Tables from the top menu bar.			List of available tables are shown.
8	From the Recommendations menu, click Recommendations.			User Ratings table is shown with data populated for every field pertaining of type's int, int, int, String, Datetime.

3.6 Analytics

Test Category: Analytics		Description: The test case shall verify the system can increment recommendation numbers.		
Test Case: 3.1.6.4		Case Name: Recommendati on analytics test	Version: 2.0	Written By: Roxy Egger
Requirements Fulfilled: 3.1.6.4.1 3.1.6.4.2		Purpose: To ensure that the system properly increments and stores recommendation data.		
Setup Conditions: 1. FlixPicks is running 2 The user is logged in 3. The user is on the taste profile page				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	The user interface section for recommending media appears, showing a thumbs up or thumbs down button			The user interface section appears correctly
2	The user clicks the thumbs up button			The system increments the recommendation count for that media and stores it in the user’s liked content section.

3	The recommendation count is incremented for a piece of media			The system stores the new recommendation count in the database.
4	The user clicks the thumbs down button			The piece of media is stored in the user's disliked content section.

3.1.6.3 Analytics Page

Test Category: Analytics		Description: The test case shall verify the system can find subscription usage data.		
Test Case: 3.1.6.1		Case Name: Subscription Usage Test	Version: 1.0	Written By: Roxy Egger
Requirements Fulfilled: 3.1.6.4.1 3.1.6.4.2		Purpose: To ensure that the system properly stores and retrieves data about what subscriptions are being used by FlixPicks users.		
Setup Conditions: 1. FlixPicks is running 2 The user is logged in 3. The user is on the taste profile page				
Test Case Activity		Pass/Fail	Comments	Expected Result
1	The user selects the subscriptions that they are subscribed to in the Taste Profile survey			The results of what subscriptions are chosen is saved in the backend database.
2	The user adds a new subscription service in the edit subscriptions area of user settings			This result is saved to the backend.
3	The user attempts to add an invalid subscription name in the edit subscriptions area of user settings			The result is not saved and an error popup message appears.

4	The user attempts remove a subscription using delete subscription button in the edit subscriptions area of user settings			The removed subscriptions are decremented from the database.
5	The top recommended streaming services button on the analytics page is clicked			The five most selected subscription services are acquired from the backend database and displayed as a graph