HomeView

Test Plan

Uniting streaming services on one site

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1. Overview

    1.1.   Document Overview

        The following document contains relevant information regarding the testing policy and guidelines for the entire scope of the project.

    1.2.   Document Resources

Resource	Link
Business Requirements Document	https://docs.google.com/document/d/1-6VHZL1g-vyvosEmrHq0Kp9xHLWtCxJVYkegOUZ9cbg/edit?usp=sharing

2. Test Policy

2.1.   Test Scope

    2.1.1.   In Scope
- Unit Testing
  - Unit testing will include testing functions to ensure they are working as intended. Functions will be tested upon completion. A function is considered as working correctly when it returns the correct result
- Integration Testing
  - Integration testing will include combining the modules for our web application and ensuring they all work together as intended.
- End to End Testing
  - End to End testing will include testing the functionality and performance of our web application under product-like circumstances simulating a user's experience.
- Test Data
  - Test data will include using simulated data to ensure our web application is producing the correct results or error messages based on the input

    2.1.2.   Out of Scope
- Performance Testing
- Penetration Testing
- Regression Testing

3. Feature Level Scenarios

3.1.   Logging / Archiving

    3.1.1.   End to End Testing
- Expected:
  - Users, administrators, and system administrator's actions or data is correctly logged to database
  - Logs that are a year old are deleted from the database
  - Administrators and system administrators are able to download logs
  - Logs are anonymized when it is collected for analysis
- Failure:
  - User's actions or data is not logged to database
  - User's actions or data are logged incorrectly
  - Logs that are a year old remain in the database
  - Administrators and system administrators are unable to download log files
  - Logs are not anonymized when it is collected for analysis

3.2.   Datastore

    3.2.1.   End to End Testing
- Expected:
  - The datastore will store all data
  - Datastore will store all data required for feature functionality
  - Datastore will store all necessary data produced from certain features
- Failures:
  - Datastore does not store data
  - Datastore stores data that is not needed

3.3.   User Interface (UI)
- User Interface does not require any specific testing and can be done with system-wide End to End testing

3.4.   User Management

3.4.1.   End to End Testing
- User deletes a their account through their account settings
  - Expected:
    - Message is displayed to confirm the user wants to delete their account
    - User is revoked access to the web application
    - User's information and data is deleted from the database
    - User is redirected to the sign in page
  - Failure:
    - Message to confirm user's action is not displayed
    - User still has access to the web application
    - User's information and data is still present in the database
- System administrator promotes a user to have administrative privileges
  - Expected:
    - Message is displayed to confirm that the system administrator wants to promote the user
    - User is now an administrator
  - Failure:
    - Confirmation message is not displayed
    - User is not promoted to an administrator
    - User is labeled an administrator but does not have access to administrative tools
- System administrator demotes a administrator
  - Expected:
    - Message is displayed to confirm that the system administrator wants to demote the user
    - Administrator becomes a user with basic privileges
  - Failure:
    - Confirmation message is not displayed
    - Administrator retains administrative status
    - Administrator is labeled a user but retains administrative tools
- System administrator views the User Analysis Dashboard

- ○ Expected:
  - ■ User Analysis Dashboard is displayed
- ○ Failure:
  - ■ User Analysis Dashboard is not displayed

3.5.   Registration

3.5.1.   Integration Testing
- User attempts to register on our website by inputting a valid email address, first and last name, and password
  - ○ Expected:
    - ■ User's account information is stored in our database that contains their email, first and last name, and a hash value of their password
    - ■ A verification email is sent to the user's email address
    - ■ User is redirected to the home page
    - ■ User chooses a display name
    - ■ User chooses streaming services
  - ○ Failure:
    - ■ User's account information is not stored in the database
    - ■ Verification email fails to send
    - ■ Invalid input is used to create the account and gets stored in the database
- User attempts to register an account and inputs an invalid email
  - ○ Expected:
    - ■ User is unable to register an account because they are not able to verify their email
  - ○ Failure:
    - ■ Account is created and stored in the database
- User attempts to register an account and inputs a password that does not meet the requirements
  - ○ Expected:
    - ■ An error message is displayed informing the user that the password does not meet the requirements, and that no account is created
    - ■ A save state should be applied so the user does not have to re-enter any information that was correct

- ○ Failure:
  - ■ No error message is displayed
  - ■ Account is created and stored in the database

3.6. Login

3.6.1. Integration Testing
- ● User attempts to log in by entering a valid email and password combination
  - ○ Expected:
    - ■ System verifies user's input with the data stored in the database, logs the user in, and redirects them to the home page
  - ○ Failure:
    - ■ Email address or password or both cannot be verified with the data in the database

3.6.2. End to End Testing
- ● User attempts to log in with a valid email address but invalid password
  - ○ Expected:
    - ■ An error message is displayed stating that the email address and password combination is incorrect
    - ■ User remains on the same page and is allowed to resubmit the email address and password
  - ○ Failure:
    - ■ No error message is displayed
    - ■ User gets logged in
    - ■ User is unable to re-enter email address and password
- ● User attempts to log in with an invalid email address but valid password
  - ○ Expected:
    - ■ An error message is displayed stating that the email address and password combination is incorrect
    - ■ User remains on the same page and is allowed to resubmit the email address and password
  - ○ Failure:
    - ■ No error message is displayed

- ■ User gets logged in
- ■ User is unable to re-enter email address and password
- ● User fails the login attempt 3 times and attempts a 4th login in 5 minutes
  - ○ Expected:
    - ■ User's account is locked and prevented from logging in for one hour
    - ■ If email address provided is not associated with an account, user is just prevented from logging in for one hour
  - ○ Failure:
    - ■ User is able to attempt another login attempt before one hour has passed after their previous login attempt

3.7. Logout

3.7.1. Integration Testing
- ● User attempts to log out using the log out button
  - ○ Expected:
    - ■ User is logged out of the web application and is redirected to the sign in page
  - ○ Failure:
    - ■ User is still logged in the web application
- ● User is inactive for 30 minutes
  - ○ Expected:
    - ■ User is logged out of the web application and is redirected to the sign in page
  - ○ Failure:
    - ■ User is still logged in the web application after being inactive for 30 minutes

3.8. Central Media Library

3.8.1. Integration Testing
- ● User adds actor or genre to blacklist
  - ○ Expected:
    - ■ Blacklisted actor(s) and genre(s) are not displayed on user's Central Media Library
  - ○ Failure:

- Blacklisted actor(s) and genre(s) are still displayed on user's Central Media Library
- User adds a streaming service to their Central Media Library
  - Expected:
    - Streaming service's titles are displayed on user's Central Media Library
    - User's Central Media Library is updated with the added streaming service's titles
  - Failure:
    - Streaming service's titles are not displayed on user's Central Media Library
    - User's Central Media Library is not updated with the added streaming service's titles
- User removes a streaming service to their Central Media Library
  - Expected:
    - Streaming service's titles are no longer displayed on user's Central Media Library
    - User's Central Media Library is updated with the removed streaming service's titles
  - Failure:
    - Streaming service's titles are still displayed on user's Central Media Library
    - User's Central Media Library is not updated with the removed streaming service's titles

3.8.2. End to End Testing
- User selects a title to view from the home page, playlist, or search query
  - Expected:
    - Title's information page is displayed
  - Failure:
    - Title's information page is not displayed
    - Information page shows details of a different title
    - Information is not displayed properly due to formatting
- User searches for a title
  - Expected:
    - A result set is generated from the user's keywords
    - Web page is updated to display the result set
  - Failure:

- Search is not executed
- Result set is not executed
- Result set does not contain any titles that match user's keywords
- Web page does not display the result set

3.9. Playlists

3.9.1. Integration Testing
- User creates a new playlist from the Account Page from their Central Media Library
  - Expected:
    - A new playlist under the user's name is created in the database
  - Failure:
    - The new playlist is unable to be created
    - The playlist is under the wrong user's name
    - The playlist has the wrong title in the database
- User adds a title from the Central Media Library into their playlist
  - Expected:
    - Title gets added into the playlist
    - Playlist is updated with the new title in the database
  - Failure:
    - Title is unable to be added into the playlist
    - The wrong title is added to the playlist
    - Title is added to the wrong playlist

3.9.2. End to End Testing
- User creates a new playlist
  - Expected:
    - A playlist titled by the user is created
    - The playlist is displayed on the creator's profile, if it is set to public
    - Playlist is listed under Playlists under user's account page
  - Failure:
    - Playlist is not created
    - Playlist has the wrong title
    - Playlist is hidden on the profile even though it was set to public

- ■ Playlist is visible on the profile when it was initially set to private or unlisted
- ■ Playlist is added to the wrong profile
- ■ A playlist is removed
- User adds a title into a playlist
  - Expected:
    - ■ Title appears in the playlist
  - Failure:
    - ■ Title does not appear in the playlist
    - ■ The wrong title appears in the playlist
    - ■ A title is removed from the playlist
- User removes a title from the playlist
  - Expected:
    - ■ Title no longer appears in the playlist
  - Failure:
    - ■ Title still appears in the playlist
    - ■ The wrong title is removed from the playlist
    - ■ A title is added instead
- User adds a contributor to a playlist
  - Expected:
    - ■ Message is displayed asking for contributor's email address
    - ■ Other user will be able to edit the contents of the playlist
  - Failure:
    - ■ Message is not displayed
    - ■ Other user is unable to edit the playlist
    - ■ Other user is added to the wrong playlist
    - ■ The wrong user is added to the playlist
    - ■ Unregistered user is added to the playlist
    - ■ User tries to enter a blank contributor
- User removes a contributor from a playlist
  - Expected:
    - ■ Contributor no longer allowed to edit the playlist
    - ■ Contributor is no longer allowed to view the playlist unless it is public
  - Failure:
    - ■ User is able to edit the playlist
    - ■ User is able to view the playlist if it is not public
    - ■ Wrong user is removed as contributor

- User changes a contributor's permissions on a playlist
  - Expected:
    - Contributor now becomes a viewer or editor depending on their previous status
      - Contributor can edit a playlist is they have been changed to an editor
      - Contributor can only view a playlist if they have been changed to a viewer and the playlist is not public
  - Failure:
    - Contributor's role has not changed
    - Wrong contributor had their role changed
- User deletes a playlist
  - Expected:
    - Playlist no longer shows up in their account page
  - Failure:
    - Playlist still shows up in their account page
    - The wrong playlist is deleted
    - A new playlist is created instead
- User opts into playlist email notifications
  - Expected:
    - User receives an email whenever changes are made to the playlist
  - Failure:
    - User does not receive email notifications on changes made to the playlist
    - User receives notifications for the wrong playlist
- User opts out of email notifications for a playlist
  - Expected:
    - User no longer receives email notifications on changes made to a playlist
  - Failure:
    - User continues to receive email notifications
    - User opts out of the wrong playlist
- User accesses a playlist
  - Expected:
    - User is directed to a page that displays the playlist's information
  - Failure:
    - Page does not populate with playlist's information

- The wrong playlist is displayed
- Information is not displayed properly due to formatting

3.10.   Blacklist

 3.10.1. Integration Testing
- User blacklists a genre and/or actor from their Central Media Library, Playlist, ActWiki, or News
  - Expected:
    - Genre or actor is added to the user's blacklist and is no longer displayed
    - Database is updated with the user's updated blacklist containing the chosen genre and/or actor
  - Failure:
    - Genre or actor is not added to blacklist
    - Genre or actor is added to blacklist but is still being displayed
    - Database is not updated with user's updated blacklist containing the chosen genre and/or actor

 3.10.2. End to End Testing
- User adds a genre or actor to their blacklist
  - Expected:
    - Genre or actor is added to blacklist and will not be displayed anywhere
  - Failure:
    - Genre or actor is not added to blacklist
    - Genre or actor is added to blacklist but is still being displayed to user
- User removes a genre or actor to their blacklist
  - Expected:
    - Genre or actor is removed from the blacklist and is displayed to user
  - Failure:
    - Genre or actor is not removed from blacklist
    - Genre or actor is removed from blacklist but is not displayed to user

3.11.   Ratings and Reviews

    3.11.1.   Integration Testing
- User clicks write a review for a title from their Central Media Library or Playlist
  - Expected:
    - Overlay pops up and user is able to select a star rating (1-5 stars and increments of .5) and write a review
    - Database is updated with user's submitted review and rating
  - Failure:
    - Overlay is not displayed to user
    - User is not able to select a star rating
    - User is not able to type into review textbox
    - Database is not updated with user's submitted review and rating
- User deletes their review for a selected title from the title's information page, from their Central Media Library or Playlist
  - Expected:
    - User's previously submitted review and rating is deleted and removed from title's information page
    - User's previously submitted review is removed from the database
  - Failure:
    - User's previously submitted review and rating is not displayed
    - User is not able to remove their review and rating
    - User's previously submitted review is not removed from the database

    3.11.2.   End to End Testing
- User clicks submit after selecting a star rating and writing in review textbox
  - Expected:
    - Review and rating is successfully submitted and displayed
    - Reviews and ratings of the title is successfully updated and displayed to users
  - Failure:

- ■ Review and rating is not updated and displayed to users
- ■ User has star rating and written review, but submit button not working and overlay is still shown
- ■ User is unable to submit since they do not have a star rating selected and have not written in the review textbox
- User clicks cancel button
  - ○ Expected:
    - ■ Review overlay disappears and review and rating is not displayed
  - ○ Failure:
    - ■ Cancel doesn't work and overlay is still displayed
    - ■ Review overlay disappears but review and rating is displayed
- User deletes their review for a selected title
  - ○ Expected:
    - ■ User's previously submitted review and rating is deleted and removed from their profile and the title's information page
    - ■ Reviews and ratings of the title is successfully updated and displayed to users
  - ○ Failure:
    - ■ User's previously submitted review and rating is still displayed on title's information page

3.12.   ActWiki

3.12.1.   Integration Testing
- User searches for actor or actress
  - ○ Expected:
    - ■ Information on actor or actress is pulled from database
  - ○ Failure:
    - ■ Information is not displayed
    - ■ The wrong actor or actress is shown

3.12.2.   End to End Testing
- User views the ActWiki page
  - ○ Expected:

- - - User goes to page displaying the trending actors and actresses
  - ○ Failure:
    - ■ No information is displayed
    - ■ Actors and actresses who are not trending are displaying
    - ■ Information is incorrect
    - ■ Information is displayed incorrectly due to formatting
  - ● User searches for an actor or actress
    - ○ Expected:
      - ■ Result set related to the search string is generated
      - ■ Page is updated to display the result set
    - ○ Failure:
      - ■ Result set has no relation to the search string
      - ■ Search is not executed
      - ■ Result set is not generated
      - ■ Page does not display the result set
      - ■ Page displays the wrong result set

3.13. News

3.13.1. Integration Testing
- ● User selects a news item to view from their Central Media Library
  - ○ Expected:
    - ■ The user is directed to the News section
    - ■ The selected news item appears on their window
    - ■ The selected news item loads with correct formatting
  - ○ Failure
    - ■ The news page fails to load
    - ■ The selected news item is unavailable
    - ■ The selected news item appears in an incorrect format

3.13.2. End to End Testing
- ● User selects a news item to view
  - ○ Expected:
    - ■ The selected news item appears on their window
    - ■ The selected news item loads with correct formatting

- ○ Failure
  - ■ Page does not display the the news item information
  - ■ The selected news item appears in an incorrect format