Website Interaction Test Plan

Unit Test Plan

Test Set 1: Unit Test for Movie Filtering

- Targeted Feature: Movie Browsing
- Test Objective: Verify that the movie filtering feature is working correctly
- Test Scope: This test covers the filtering of movies based on their genre, rating, and release date.
- Test Vectors: The test set will consist of five test cases:
    1. Verify that filtering by genre is working correctly
    2. Verify that filtering by rating is working correctly
    3. Verify that filtering by release date is working correctly
    4. Verify that filtering by theater is working correctly
    5. Verify that filtering by multiple parameters is working correctly
- Test Coverage: This test covers the movie selection feature in terms of filtering and selection of movies based on various parameters.

Test Set 2: Unit Test for Movie Selection

- Targeted Feature: Movie Browsing
- Test Objective: Verify that the movie selection feature is working correctly
- Test Scope: This test covers the selection of movies by the user based on their preference, and the confirmation of the selection.
- Test Vectors: The test set will consist of five test cases:
    1. Verify available movies to select from are shown
    2. Verify that the user can select a movie by clicking on it
    3. Verify that the user can access available times/theaters for selection
    4. Verify the movie info and trailer is clickable
    5. Verify that the user can advance to seat selection
- Test Coverage: This test covers the movie selection feature in terms of user selection and accessible information to the user.

Functional Test Plan

Test Set 1: Functional Test for User Account Services

- Targeted Feature: User Account
- Test Objective: Verify that user can access and modify account information
- Test Scope: This test covers the ability of a user to login with their credentials, the ability to change their preferences, and the ability of user changes to be made default.
- Test Vectors: The test set will consist of six test cases:

1. Verify that the user can login to their account with their credentials
2. Verify that if the user does not possess an account, they can create a new one
3. Verify the user's ability to access their user preferences
4. Verify the select home theater feature is working correctly
5. Verify the preferred genres feature is working and those genres are given priority on the featured movies page
6. Verify that these changes are made default and are still there on the next login
- Test Coverage: This test covers the user account services and the features in their accounts preferences to create a personalized browsing experience.

Test Set 2: Functional Test for Seat Selection Map

- Targeted Feature: Seat Selection Map
- Test Objective: Verify that the seat selection feature is working correctly
- Test Scope: This test covers the selection of seats by the user based on their preference, the availability of seats, and the confirmation of the selection.
- Test Vectors: The test set will consist of five test cases:
    1. Verify that the user can select a seat from the available seats for selected movie
    2. Verify that unavailable seats are off limits to the user
    3. Verify that the seat availability status is updated correctly after the user selection
    4. Verify that the selected seat is blocked for a certain period of time, to avoid purchasing of the same seat
    5. Verify that the user can advance to the payment area after confirmation of selection
- Test Coverage: This test covers the seat selection feature in terms of user selection and confirmation of the selected seats.

System Test Plan Targeted Feature: Buying Tickets

Test Set 1: System Test for Purchasing Tickets

- Test Objective: Verify that the user is able to buy movie tickets and the payment feature is processing payments correctly
- Test Scope: This test covers the payment process, from the selection of movie tickets, to the purchase of tickets, and to the completion of the transaction.
- Test Vectors: The test set will consist of five test cases:
    1. Verify that the selected tickets are added to the cart
    2. Verify that the tickets in cart are set to process for purchase
    3. Verify that the user can choose a payment method and enter the necessary details
    4. Verify that the payment is processed with confirmation message displayed
    5. Verify that the tickets are sent to the user through the method of their preference after the transaction is completed
- Test Coverage: This test covers the ability to purchase tickets and its ability to distribute to the user their purchased tickets.

Admin Functionality and Data Storage Test Plan

Unit Test Plan

Test Set 1: Unit Test for Data Storage

- Targeted Feature: User data is accurately stored and fetched
- Test Objective: Test that user credentials, and location are accurately stored and fetched
- Test Scope: This test covers the retrieval and storage of user credentials and data
- Test Vectors: The test set will consist of three test cases:
    1. Verify that users location is correctly stored
    2. Verify that users login/password is correctly stored
    3. Verify that the users selections are accurately stored on their ticket and account
- Test Coverage: This test covers the storage and retrieval of user credentials and data

Test Set 2: Unit Test for Movie data is accurately stored and fetched

- Targeted Feature: Ensure that movie status's are stored the way that they should be
- Test Objective: Verify that movie information presented to user is accurate
- Test Scope: This test covers the accuracy of the information displayed to the user about the movies
- the Test Vectors: The test set will consist of five test cases:
    1. Verify that the movie times are being accurately stored for each movie
    2. Verify that the movie prices are being accurately stored for each movie
    3. Verify that the movie titles and theatre locations match based on where they are playing
    4. Verify that the movies are not shown if they are full
    5. Verify that all movies with open seats that should be displayed, are
- Test Coverage: This test covers the accuracy of the data storage on the movies

Functional Test Plan

Test Set 1: Functional Test for Media Display

- Targeted Feature: Media Display
- Test Objective: Verify that the media is being displayed correctly
- Test Scope: This test covers trailers,titles, pictures and previews for movies
- Test Vectors: The test set will consist of five test cases:
    1. Verify that the correct trailer is attached to each movie
    2. Verify that the trailers can be accessed and viewed
    3. Verify that the titles for each movie are correct
    4. Verify that the pictures of each movie match the movie and are the correct pictures

Test Coverage: This test covers the accurate display of all media

Test Set 2: Accessibility of Website

- Targeted Feature:Accessibility of Website
- Test Objective: Verify that the website can be accessed and the correct information is shown to users and admins
- Test Scope: This test covers the webpage itself and its functionality
- Test Vectors: The test set will consist of four test cases:
    1. Verify that the website can be accessed with the url.
    2. Verify that users cannot login as admins and vice versa
    3. Verify that the website data is stored at the correct location
    4. Verify that the correct information and access is shown and given to admins
    5. Verify that the correct information and access is shown and given to users
- Test Coverage: This test covers the accessibility of the website and its accuracy

System Test Plan Targeted Feature: Admin Functionality

Test Set 1: System Test for Admin website functionality

- Test Objective: Verify that admins can access and complete various commands and functions
- Test Scope: This test covers the various commands that admins can execute on the website
- Test Vectors: The test set will consist of seven test cases:
    1. Verify that admins can remove/add movies to the list
    2. Verify that admins can change movie showtimes
    3. Verify that admins can change open/taken seats
    4. Verify that admins can change theatre locations
    5. Verify that admins can access future and past data
    6. Verify that admins can issue a discount
- Test Coverage: This test covers the various functions that Admins can execute on the website.

Test Set 2: System test for Admin customer service

- Test Objective: Verify that admins can assist customers
- Test Scope: This test covers refunds, ticket changes and customer support
- Test Vectors: The test set will consist of three test cases:
    1. Verify that admins can issue refunds and the data on the website is properly adjusted
    2. Verify that admins can help users change their tickets after being purchased
    3. Verify that admins can be contacted via email by users
- Test Coverage: This test covers the admins ability to assist users in customer service