**Software Requirements Specification - FlickPick**

FlickPick is a movie recommendation web application that aims to make selecting movies a shorter and easier process. Each epic works towards creating a cohesive web application that is user-friendly and accurate to a user’s preferences.

**Epic 1**: Create working movie recommendation search engine

* Story 1: As a user, I want a recommendation list filtered by genre so that I can find more movies of a certain genre.
  + Acceptance criteria:
    - Verify that the list of movies matches the searched genre
    - Verify that movies can be dynamically updated as the user changes the genre
* Story 2: As a user, I want a search option that allows me to look up a certain movie title or search term so that I can find specific movies easier.
  + Acceptance criteria:
    - Verify that the search results contain the searched term
    - Verify that the movies can be dynamically updated as the user changes the search term
* Story 3: As a user, I want a search feature that lists movies by release date so that I can view newer movies first or older movies first.
  + Acceptance criteria:
    - Verify that movie list filters by oldest to newest or vice versa
    - Verify that the movies can be dynamically updated as the user changes their filter preference
* Story 4: As a user, I want a search feature that filters movies by ratings so that I can view movies with higher or lower critic ratings.
  + Acceptance criteria:
    - Verify that the results’ ratings match the chosen search rating (5 stars, 4 stars, etc)
    - Verify that the movies can be dynamically updated as the user changes their filter preference

**Epic 2**: Display a list of personalized recommendations for the user

* Story 1: As a user, I want a list of movie recommendations that are based on my preferred genre so that I can choose from movies that I am more likely to enjoy.
  + Acceptance criteria:
    - Verify that the recommendation list uses only genres that the user selects as their favorite genre(s)
    - Verify that the list updates dynamically if the user changes their genre preferences
    - Verify that the list does not repeat recommended movies
* Story 2: As a user, I want a list of movie recommendations that are based on my current favorite movie so that I can choose from movies that I am more likely to enjoy.
  + Acceptance criteria:
    - Verify that the recommendation list uses movies of the same genre, rating, or time period
    - Verify that the list updates dynamically if the user changes their favorite movie
    - Verify that the list does not repeat recommended movies

**Epic 3**: Display a list of trending and popular movie recommendations

* Story 1: As a user, I want a list of recently released movies so that I can stay up to date with current movies.
  + Acceptance criteria:
    - Verify movie list is dynamically updated as dates change
    - Verify movie list does not repeat recommendations
* Story 2: As a user, I want a list of recently released movies of high rating so that I can stay up to date with currently popular movies.
  + Acceptance criteria:
    - Verify movie list is dynamically updated as dates and ratings change
    - Verify movie list does not repeat recommendations

**Epic 4**: Create User Profile

* Story 1: As a user, I want to fill out a short question flier so that my profile can store my movie preferences and I can have a list of recommendations curated towards my likings.
  + Acceptance criteria:
    - Verify user is asked for their favorite movie
    - Verify user is asked for their favorite genres
    - Verify information is asked upon creating a new profile
* Story 2: As a user, I want to be able to update my user profile information so that as my preferences change, my recommendations will change as well.
  + Acceptance criteria:
    - Verify user information and preferences are stored on profile
    - Verify user can edit “Favorite Movie” option
    - Verify user can edit “Favorite Genres” list
    - Verify information can be dynamically updated
* Story 3: As a user, I want categories on my profile to mark and list movies so that I can refer to it in the future for easier search.
  + Acceptance criteria:
    - Verify user can add to “Movies to Watch” list
    - Verify user can add to “Watched Movies” list

**Epic 5:** Create a functioning landing page

* Story 1: As a user I want to be taken to a landing page before I enter the site, so that I am aware that I am in the right place.
  + Verify that the landing page is routed correctly
  + Verify that there is a header section, footer section, and body section
* Story 2: As a user I want an option to sign in so that I can have an account that saves my preferences and past searches.
  + Verify that there is a button that says “sign-in”
  + Verify that the sign-in button, when clicked, redirects to a sign-in page (possibly through google or other method)
  + Verify that sign-in function is secure
  + Verify that if successfully logged in, page will redirect to home screen
* Story 3: As a user I want an option to use the site without signing in so that I can access it quickly.
  + Verify that there is a clear button that say “continue without signing in”
  + Verify that the continue button, when clicked, will redirect to home screen
* Story 4: As a user I want to see a logo and well laid out design so that I know what site I am using.
  + Verify that a logo is made and is displayed properly on the site
  + Verify the the website title is clear either next to or within the logo

**Epic 6:** Create a menu bar

* Story 1: As a user I want a menu section so that I can see a clear display of the site's options.
  + Verify that there is a good layout with clear labels for each section
  + Verify that the section says “Menu” and provides a dropdown
* Story 2: As a user I want to see “Home,” “Profile,” “Trending,” “Movie of the Day,” “Recommendations,” and “Browse” sections so that I have all of the site's options in one place.
  + Verify that each section has its own title
  + Verify that each section links to the correct page
  + Verify that the profile option only appears if a user is signed in

**Epic 7:** Display a random movie of the day page

* Story 1: As a user I want a page on the site to display movies of the day so that I can clearly find the section.
  + Verify that there is a title that says “Movie of the Day”
  + Verify that there is an option to return back to the home screen with a button
  + Verify that the styling is consistent with the rest of the site
* Story 2: As a user I would like the movie of the day to update daily so that I can have a new recommendation every day.
  + Verify that there is an API call to grab a random movie
  + Verify that the title, a cover image, the length, and a brief description are displayed on the page
  + Verify that the information is formatted well on the site
  + Verify that the movie updates fresh every day

Performance Requirements:

**Story 1:** The application shall display a window for the main application

* Verify that the window showcases an inviting layout with clear navigation options and visually appealing elements.
* Verify that the window loads swiftly upon launch without delays or glitches.

**Story 2:** The application shall display a login page for a user to enter credentials

* Verify that the login page provides a secure environment with encryption and authentication protocols.
* Verify that users are directed to personalized profiles upon successful login.

**Story 3:** The application shall display a movie preference survey for new users

* Verify that the survey is crafted to be intuitive and engaging for users.
* Verify that tailored movie suggestions are provided based on survey responses.

**Story 4:** The application shall display movie recommendations within 10 seconds of searching

* Verify that results are fetched swiftly using efficient algorithms.
* Verify that recommended movies align with the user's search query.

**Story 5:** The application shall include a search bar on the top of the main screen

* Verify that the search bar is prominently displayed and accessible from any screen.
* Verify that real-time suggestions and auto-complete options are provided in the search bar.

**Story 6:** The application shall include a filter button to filter through movies by A-Z, Z-A, newest-oldest, oldest-newest

* Verify that a variety of sorting options including alphabetical, chronological, and popularity-based criteria are offered.
* Verify that the displayed movie list updates instantly upon applying a filter.

**Story 7:** The application shall display an error window to handle console errors

* Verify that clear and concise error messages are provided in the error window.
* Verify that the application gracefully transitions to the error window upon encountering an error, preventing crashes or interruptions.

Environment / Hardware Requirements:

* Personal computer or laptop
* Browser
* Minimum 4 GB of RAM
* Minimum 1 CPU core
* Minimum 20 GB storage space