

GoodWatches

Requirements Documentation

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CS 321-02

1 meetings held:

During the first meeting we had, we began the process of developing the use cases and requirements. We went over possible basic design aspects that we would like to incorporate which aided in the creation of the use cases and requirements.

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1.0 Project Description

Finding a movie to watch can be a dilemma. People looking for entertainment know what interests them, but not necessarily which movies they may enjoy. The proposed system is a movie library tool, similar to book library tools such as Goodreads. The system will import a collection of available movies and provide the user the ability to search, sort, collect, review and save information to their personal collections.

3.0 Use Cases

Actors - User using the program

UC1. User logs in or uses guest mode

Precondition - The program must be open and in focus.

- a. If the user wants to log in they input their username and password.
 - i. If the username exists and the password is correct, the user is logged in to their account.
 - ii. If the username exists and the password is incorrect, the user is prompted to try again.
 - iii. If the user wishes to log in, but lacks an account, the user can create an account using a unique username and a password.
- b. If the user does not want to log in they may continue as a guest with certain features disabled (favorite/list creation).

UC2. User is prompted to input preferences as a “Get To Know You”

Precondition - User must be logged in. The user cannot be in guest mode.

- a. If the user wishes to input preferences they can hit a continue button to begin the process.
 - i. The user can select their favorite genres from a list of genres.
 - ii. The user can select their favorite actors from a list of actors.
 - iii. The user can select their favorite directors from a list of directors.
- b. If the user wishes to skip the preference set up process they can press skip.
 - i. The user can edit their preferences later through the settings.

UC3. User can select a movie, actor, genre, director to favorite

Precondition - User must be logged in. The user cannot be in guest mode.

- a. User opens/selects a movie/actor/genre/director page and selects the favorite button. The item is then added to the user's favorite list.
- b. The user can unfavorite items which will be removed from the users favorite list.

UC4. User can search for a movie

Precondition - User must be logged in or in guest mode.

- a. The user can search for a movie by inputting a name/actor/director/genre into the search bar. Relevant items will be displayed for the user to view/select.
- b. If the search field is empty then the default list of movies is displayed.
- c. If the search yields no results then “NO RESULTS” is displayed.

UC5. User can create/delete a custom list of movies

Precondition - User must be logged in. The user cannot be in guest mode.

- a. The user can create a list of movies similar to a song playlist where they can add any movie in the database.
- b. The user can delete a custom list of movies by selecting a list of movies and selecting delete.
 - i. PRECONDITION - User must have a list already created
- c. The user can add/remove movies to a custom list after initial creation.

UC6. User can sort the displayed list of movies

Precondition - User must be logged in or in guest mode.

- a. The user can select different parameters to sort by.
 - i. Parameters include alphabetical, rating, length, etc.
- b. If a parameter is not selected then movies are displayed in alphabetical order.

3.1 Use Case Diagram

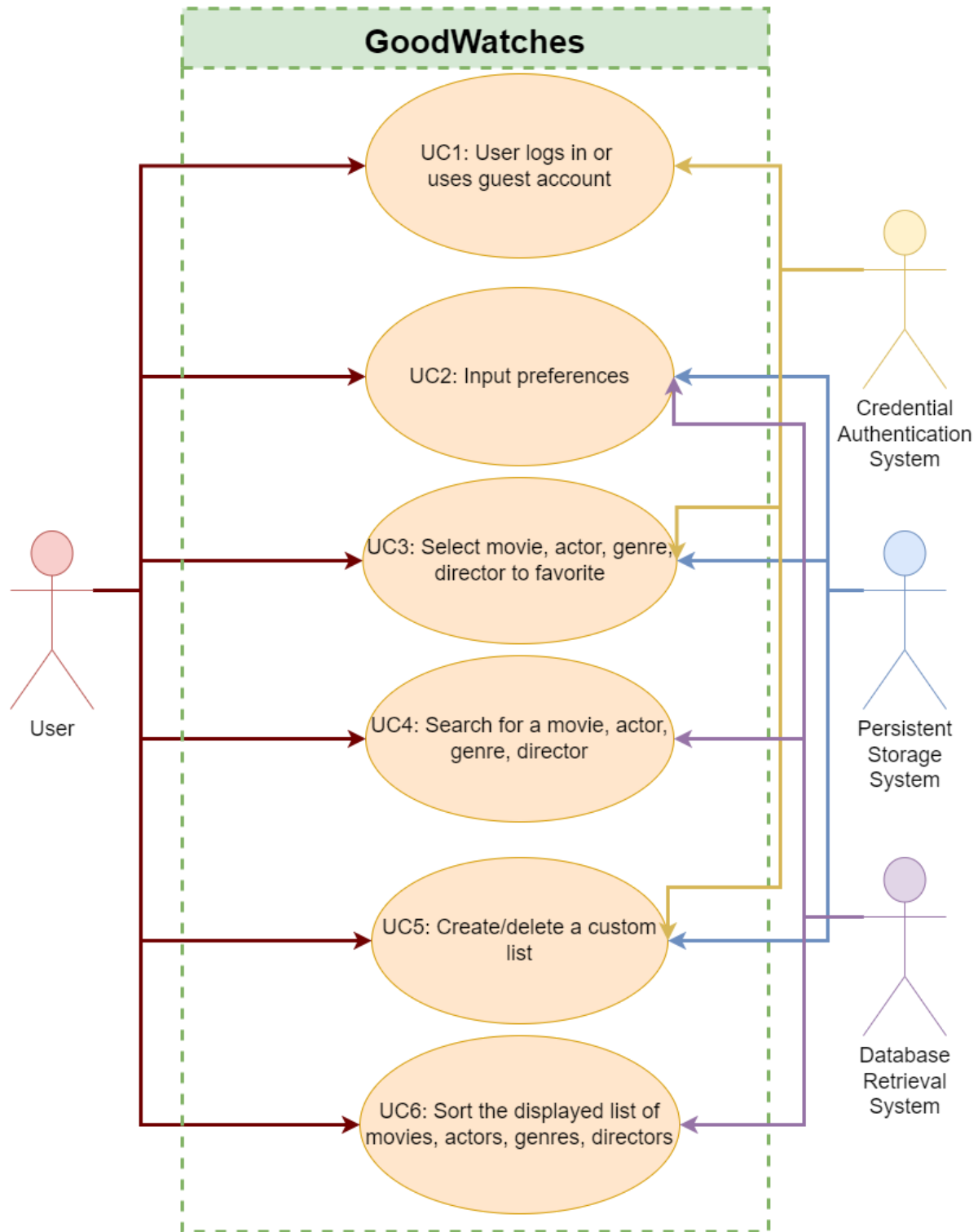


Figure 1 - Use Case Diagram

4.0 Requirements

Functional Requirements

R1. Create an account

- a. The user of the program can create a unique account with a password and username. The created account will generate a favorite movies, actor, and genre list that the user can fill with favorite movies, actors, and genres. This information will be saved so the user can later log into their account and continue where they left off.

R2. Log into an account

- a. The user of the program will be able to input a unique username and password in order to log into their unique account. This account will hold all past information from prior program use such as favorite movies, actors, genres, and custom lists.

R3. View information about a movie

- a. The user will be able to select a movie and view information about the selected movie such as description, genre, director, actors, run-time, ratings. While viewing information about the movie the user can add the movie to their favorite/custom list.

R4. Search for a movie by a parameter

- a. The user will be able to search for a movie using various parameters such as title, rating, genre, directors, and actors. The results will be displayed in a list that the user can then select a movie from.

R5. Sort list of movies by parameter

- a. When a list of movies is shown to the user it can be sorted by various parameters such as alphabetical, ratings, chronological release date, and run-time.

R6. Add a movie to user's favorite list

- a. The user when viewing a movie can add the movie to their favorites list. User's favorites list is automatically created when creating an account.

R7. Delete a movie from user's favorite list

- a. The user can select a movie in their favorites list and remove said movie from their favorites list.

R8. Create a custom movie list

- a. The user may create a custom list that functions almost identically to the favorites list but is separate. A custom list will have a unique name.

R9. Delete a custom movie list

- a. The user will be able to delete one of their unique custom made lists. Deleting a list will remove it from the user's account and completely delete it.

- R10. Update a custom movie list**
 - a. The user will be able to add/remove movies from the custom list as they please similarly to the favorites list.
- R11. Add/remove actors to a user's favorite actors list**
 - a. The user will be able to add/remove an actor from a user's unique list of favorite actors.
- R12. Add/remove genre to a user's favorite genre list**
 - a. The user will be able to add/remove a genre from a user's unique list of favorite genres.
- R13. Add/remove genre to a user's favorite directors list**
 - a. The user will be able to add/remove a director from a user's unique list of favorite directors.

User Interface Requirements

- UI1. Account login/creation page
 - a. The login page will have two fields labeled username and password to allow the user to input their login information. Once the information is inputted they can select a button labeled login to complete the process. Additionally there will be another button labeled create an account which will bring the user to a similar page where it asks the user to input a username, password, and password confirmation. A button on this account creation page will confirm the account creation and once the account is successfully created take the user to the program home page. There will be another button labeled continue as a guest that will allow the user to use the program without logging in.
 - If the username/password the user inputted is incorrect then it will prompt the user to try again.
 - If the username the user is attempting to use to create an account is already in use it will tell the user the username is taken.
- UI2. Home Page
 - a. The program home page will consist of a search bar at the top to allow the user to search for a movie. It will also have parameter selections that the user can select to search by a parameter other than title. Additionally below the search bar will be a list of movies. By default it will be the list of the entire database but will change to the user's search results after the user initiates a search. There will be a search button that the user can select after inputting their search parameters. At the very top of the home page there will be buttons to bring the user to their *account page* or to log out and close the program.

- Example of search by parameter: User searches for action. By default it searches for movies with action in the title. To search by the action genre user must select a button to search by genre.
- If no movies are found with the search results it will tell the user that no movies are found.

UI3. Movie List

- a. The movie list will contain limited information about the movie such as Title, release year, and ratings. Each of these information categories will be in their own column in the list. At the very top of the list will be labels for each of these columns telling the user what they are. Clicking on the label of the column will allow the user to sort the list of movies by that category. Clicking on the title of a specific movie in this list will bring the user to the *movie info page*.
 - Example: If the user clicks release year the list will be ordered by their release date. If the user clicks the title the list will be ordered alphabetically by movie title.

UI4. Movie Info Page

- a. The movie info page will display information about the movie selected from the list. This information includes the movie's description, actors, directors, runtime, ratings, reviews, etc. There will be buttons on this page that allow the user to add/remove this movie from their favorite/custom list. Additionally there will be a back button that brings the user to the page they were on before selecting the movie.

UI5. Account Page

- a. The user account page will only be truly accessible if the user the logged in. If the user is not logged in it will take them to the *account login/creation page*. If the user is logged in and they access the account page it will show them multiple buttons such as *favorites movies*, *favorites actors*, *favorites directors*, *favorites genres*, *custom lists*. Selecting any of these buttons will bring up the corresponding list and a search similar to the home page to navigate the list. Selecting *custom lists* in particular will bring up a list of the user's custom lists which the user can then browse and select which list to open. There will also be another button labeled *create custom list* which when selected will prompt the user to input a custom list name and hit the create or cancel buttons. When showing the list of *custom lists* there will be a delete button next to their names that when selected will prompt a confirmation. Confirming will delete the list. Additionally there will be a back button that takes the user back to the home page.