



National University of Modern Languages

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Class	BSSE-31-5-(A)
Subject	SCD
Due	@April 30, 2024

Group Deliverable no. 1

Requirement Specification document:

1. Functionality: User Login

Description: This functionality allows authorized users (admins) to log in to the system using a username and password.

Purpose: Restrict movie addition functionality to authorized users.

Functional Requirements:

- The system shall display a login screen with username and password fields.
- The system shall validate the entered credentials against a predefined set (admin/admin for example).
- Upon successful login, the system shall grant access to the movie addition screen.
- Upon failed login attempt, the system shall display an error message.

Non-Functional Requirements:

- The password should be masked while typing.
- The system should limit the number of login attempts to prevent brute-force attacks (optional).

2. Functionality: Add Movie

Description: This functionality allows authorized users to add a new movie to the system's database.

Purpose: Populate the system with movie information categorized by emotions.

Functional Requirements:

- The system shall display a form for entering movie details (name, description, rating, price, producer, studio, picture/poster, link, emotion).
- The system shall allow users to select an emotion from a predefined list.
- Upon form submission, the system shall validate all entered data (e.g., numeric values for price and rating).

- Upon successful validation, the system shall store the movie information along with the selected emotion in a persistent storage mechanism (text file or database).
- The system shall display a confirmation message upon successful movie addition.

Non-Functional Requirements:

- The system should provide clear instructions on each input field.
- The system should offer suggestions for emotions based on entered details (optional).

3. Functionality: View Movies by Emotion

Description: This functionality allows users to browse movies categorized by emotions.

Purpose: Assist users in selecting a movie based on their current mood.

Functional Requirements:

- The system shall display a screen with buttons representing available emotions.
- Upon clicking an emotion button, the system shall retrieve all movies associated with that emotion from the storage mechanism.
- The system shall display a list of movie titles for the selected emotion.

Non-Functional Requirements:

- The emotion buttons should be visually appealing and easy to identify.
- The system should allow sorting or filtering movies within an emotion category (optional).

4. Functionality: View Movie Details

Description: This functionality allows users to view detailed information about a specific movie.

Purpose: Provide users with comprehensive information before making a purchase decision.

Functional Requirements:

- Upon clicking a movie title from the list, the system shall display a screen with detailed movie information (name, description, rating, price, producer, studio, picture/poster, link).
- The system shall offer two options: "Purchase Movie" and "View Trailer."

Non-Functional Requirements:

- The movie details should be presented in a clear and organized manner.
- The movie poster/picture should be displayed visually appealingly.

5. Functionality: View Trailer

Description: This functionality allows users to watch the movie trailer in their web browser.

Purpose: Provide users with a visual preview of the movie before purchasing.

Functional Requirements:

- Upon clicking the "View Trailer" button, the system shall open the movie trailer link in the user's default web browser.

Non-Functional Requirements:

- The system should validate the trailer link before attempting to open it.

6. Functionality: Purchase Movie

Description: This functionality allows users to purchase a movie (simulated purchase).

Purpose: Simulate the movie buying process and provide confirmation.

Functional Requirements:

- Upon clicking the "Purchase Movie" button, the system shall display a confirmation message indicating successful purchase.
- The system shall create a text file containing the movie information and save it in a designated "receipts" folder.
- The system shall remove the purchased movie from the list of available movies for that emotion (optional).

Non-Functional Requirements:

- The system should display a clear message outlining the simulated nature of the purchase.
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