

Advance Computer Science (ACS)

Project Report

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Idea: I have an idea of creating a WPF application for Manage film DVDs. In this application I am managing the film DVDs, including all information of that particular movie with poster image of selected movie form the list and also globalization is implemented in three different language for English, Deutsch, and Hindi for better interaction with users.

Objectives: In this application, we can view all the information related to the movie. Where users will get information like Movie Title, Actors, Directors, Writers, Genre, Runtime, Released Year, Rating, Awards, Description, and Image of the movie. In this application can Add the movie to is My Collection and manage the film DVDs and user can remove from the My Collection. In this application user can easily filter the movies in the list according to the movie title, genre, and directors.

The End User's: The users are all the peoples who are willing to manage their personal film DVDs aged between 15 to 70 and Students, Family Members, Employees.

Functionalities:

- **Manage Film DVDs:** Here film DVDs can be view from the list, added to My Collection, and deleted from My Collection.
- **Filter the Movie List:** Here movies can be filter by giving the movie title, genre, and directors name.
- **Search Movies:** If the user managing many DVDs in My Collection and he want to search movie so he can find by giving movie title.
- **Globalization:** User have option to change his application language in three language i.e. English, Deutsch, and Hindi.

Approach:

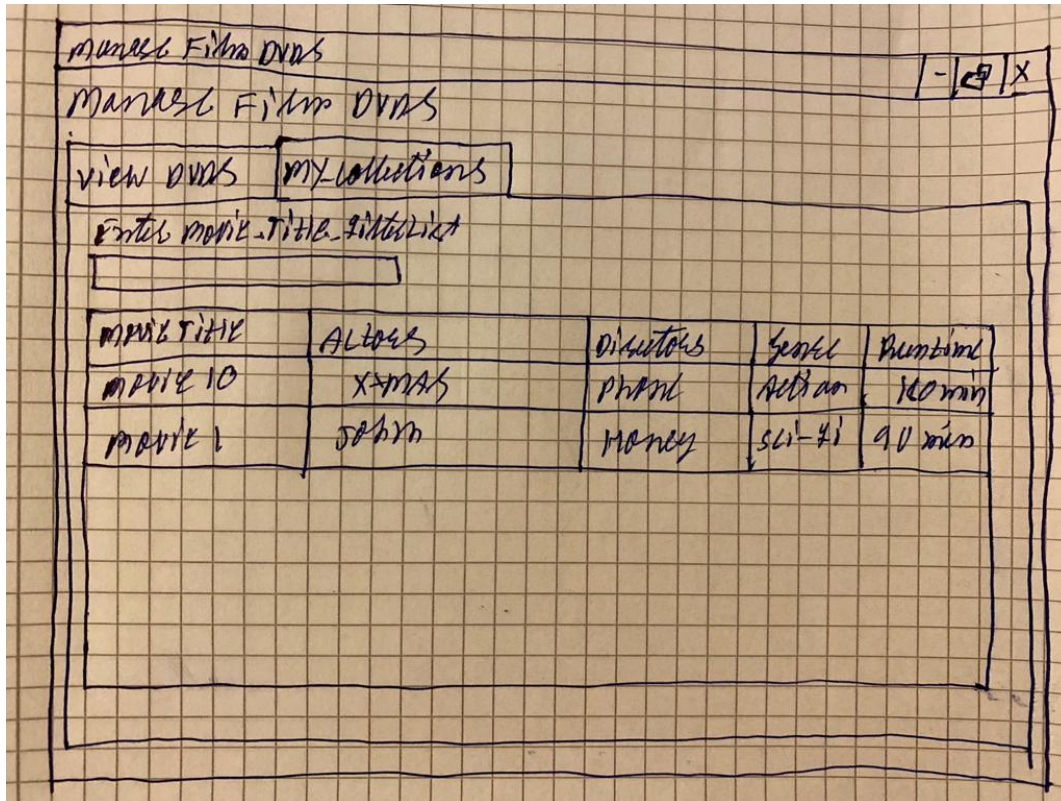
Initial mock-up/wireframe was designed like this.

Before:

The wireframe is titled "Manage Film DVDs" and includes a window control bar with minimize, maximize, and close buttons. It features a search bar labeled "Filter by movie name" with a dropdown arrow. Below the search bar is a list of movies from "Movie 1" to "Movie 11". To the left of this list, a note states: "Display all the movies & If user select the movie then information of that movie will be display on right side". To the right of the movie list is a details panel titled "I want" containing fields for "Movie Name", "Actor Name", "Director Name", "Producer Name", "Duration", "Release Year", "Rating", and "Genre". An arrow points from the details panel to the right with the text "display detail selected movie". At the bottom of the movie list are "Remove" and "Add" buttons, with arrows pointing down to the labels "TO DELETE MOVIE" and "TO ADD MOVIES" respectively.

After:

The updated wireframe is titled "Manage Film DVDs" and includes a window control bar. It has two main tabs: "View DVDs" and "My Collections". Under the "View DVDs" tab, there is a section labeled "Enter data to right" containing a list of movies from "Movie 1" to "Movie 7". To the right of this list is a large empty box labeled "poster". Further to the right is a details panel for "Movie 1" with fields for "Actor's", "Director's", "Writer's", "Genre", "Release Year", "Runtime", "Rating", "Awards", and "Description". The "Description" field contains the text "will movie 1". An "Add" button is located at the bottom right of the details panel.



Implementation:

1. Dialogue Principles ISO 9241 part 110

1.1. Suitability for the task

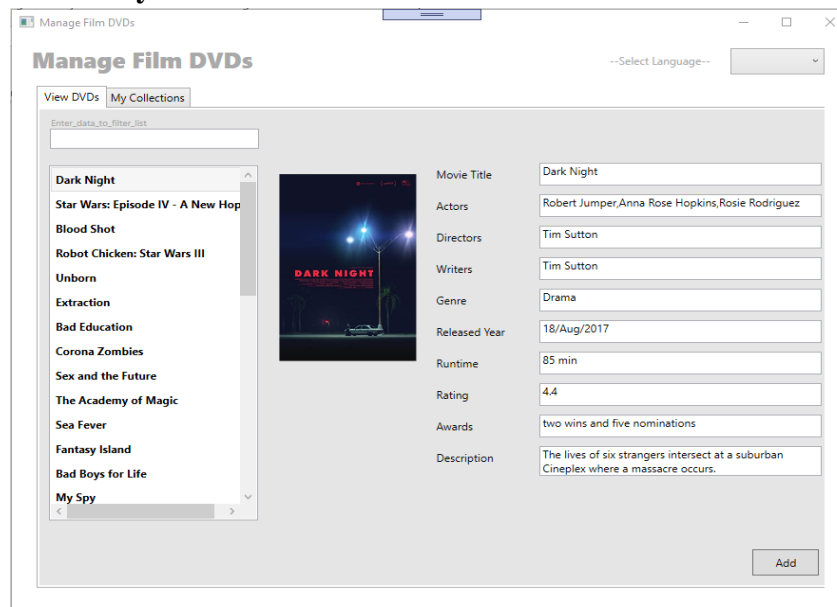


Image 1

- Hear in image1 the user can click on the movie list and view the information of that movie, so the usage of keyboard is minimized.

1.2. Conformity with user expectations

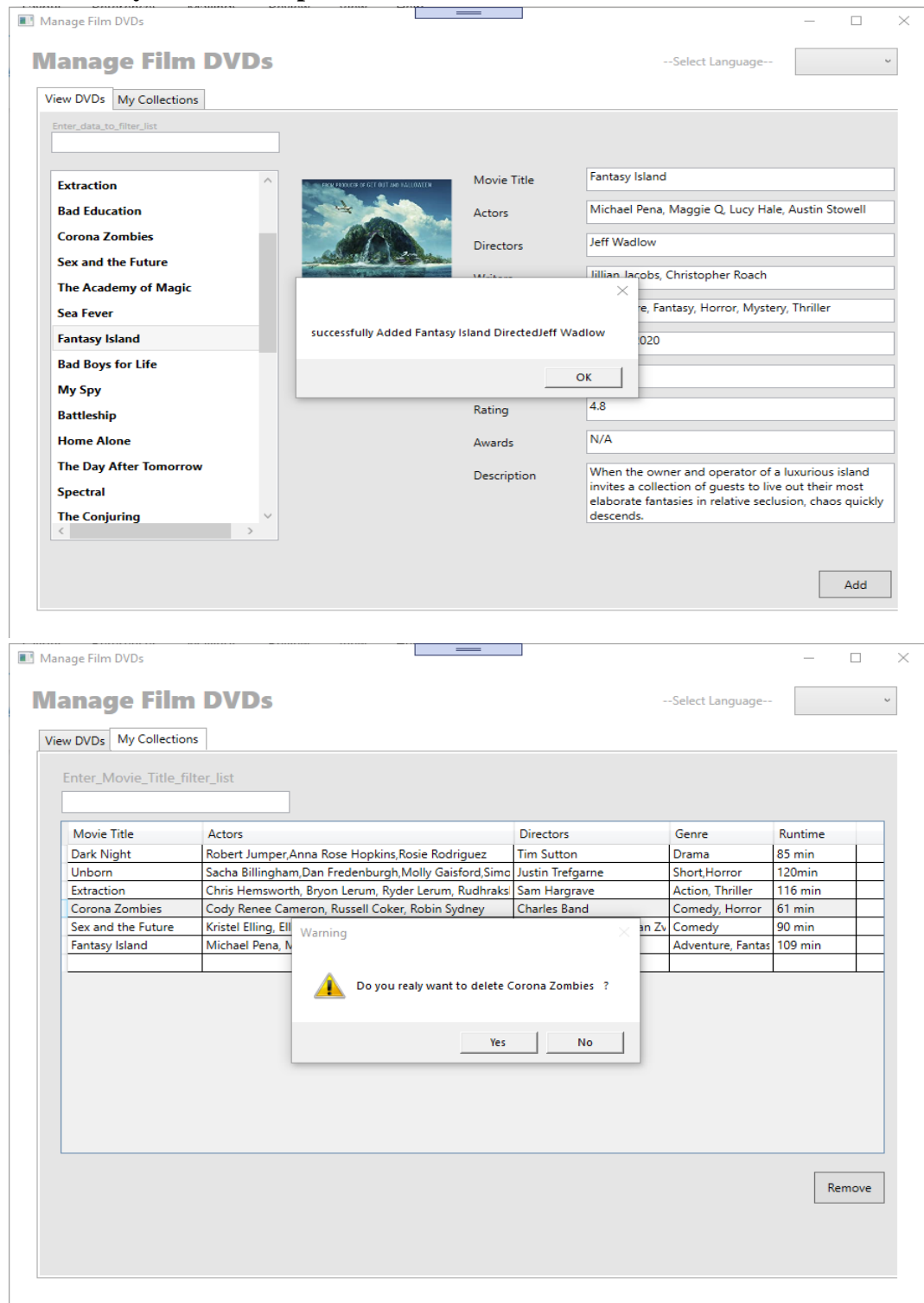


Image 2

- Hear in the above image2 the user needs to give the confirmation to delete the move. If user cancel the dialog box, the data will not be deleted. If add DVD the successful message will pop up in message box.

1.3. Self-descriptiveness: If the user is confused with the application and what to do, on that time the self-descriptiveness is useful for example in this application user needs to search the move than it will show what to enter, for language selection for selecting language

1.4. Controllability: In this application the user can cancel and resume the dialogue box so user will have a control on the task. The dialogue box appeared when user press delete button or add button

2. Gestalt Principles

2.1. Proximity: The buttons, textboxes, text blocks and list box are set into group and given an equal spacing value to be in proper and maintain same alignment.

2.2. Similarity: All the buttons are in the same size in the application and if the user tries to find the button he can identify easily.

2.3. Unified Connectedness: The elements which are connected to each other using same colors and shapes are set to be a single unit.

2.4. Continuation: In this application the tabs and even the text box and list box elements are in a continuous flow. So, user will be easily directed to use an application and he will be effortlessly learned to use the application.

3. Usability ISO 9241-11:1998

3.1. Effectiveness and Efficiency: In this application the user can effectively perform the task two field to fill manually and rest all fields are filled only using mouse so the usage of keyboard is less so user can perform the task with less effort.

4. Globalization: This application is globalized by giving the user to use the application in three different languages i.e. English, Deutsch, and Hindi.

5. Presentation of information ISO 9241-125:2017

5.1. Compactness and Consistency: In the application the information's about film DVDs are provided and user can add to is My Collections and user remove it, that are only related to the user task. The user can perform same task as many times as he wants, the application will perform consistently without failure.

6. User Centered Design ISO 9241-210:2010

6.1. Understanding: The requirements for this application are fulfilled by thinking as a user and developed this application.

Results:

➤ Things I managed to achieve:

- Manage the Film DVDs (View, Add, Delete operations).
- Filter the movie list by movie title, actors, directors, and genre.
- Search movie form the user's My Collections by movie title.
- Globalization.

Personal Evaluation: This is the first time I have developed an application individually and I have managed to do my tasks in better way. I learned a lot in this ACS module, and I got to know so many things in C# language and I am very satisfied with this WPF application. I have done my best to learn about the techniques in professionally way.