PROJECT PROPOSAL - Movie Rental

Project Title: Movie Rental Application

Project Description

For our project, we are planning on developing a movie rental application. This is not intended to be used by end-users. From this application, we can manage the movies available, customer profiles, and allow users to rent movies. If we have time, we would also like to allow users to place movies on hold (like a reservation).

When the application begins, you will land on the 'Borrow Movie' Form. This window will show all *available* movies, which can be filtered by Genre. You can select a movie, and then enter the email address of the user who wishes to borrow this movie. If done successfully, the movie will be borrowed.

There will also be an option (in menu bar) to return movies, which will work similarly to Borrow Movie, but in reverse. First you enter the users email, and then their 'borrowed' movies will appear below. Button to 'Return Movie' will make this film available again.

The other options in the menu bar are to Manage Users & Manage Movies. We will first focus on adding new Users/Movies, and then (time permitting) move on to other CRUD operations.

Technologies Used

- Windows Forms, C#
- SQL Database
- Multiple windows & dialogs
- EntityFramework (OO database access)
- Ribbon or Menu
- PDF Generation or Printing (to show summary of movie status: in stock / rented)
- Globalization/Localization

Time Permitting:
- Storing binary data (pictures of movies)
- Installer

Mockups

Borrow Movies (Starting Page)

Return Movies

FormReturn

Borrow Movies   Return Movies   Manage Users   Manage Movies

Return Movies

User Information
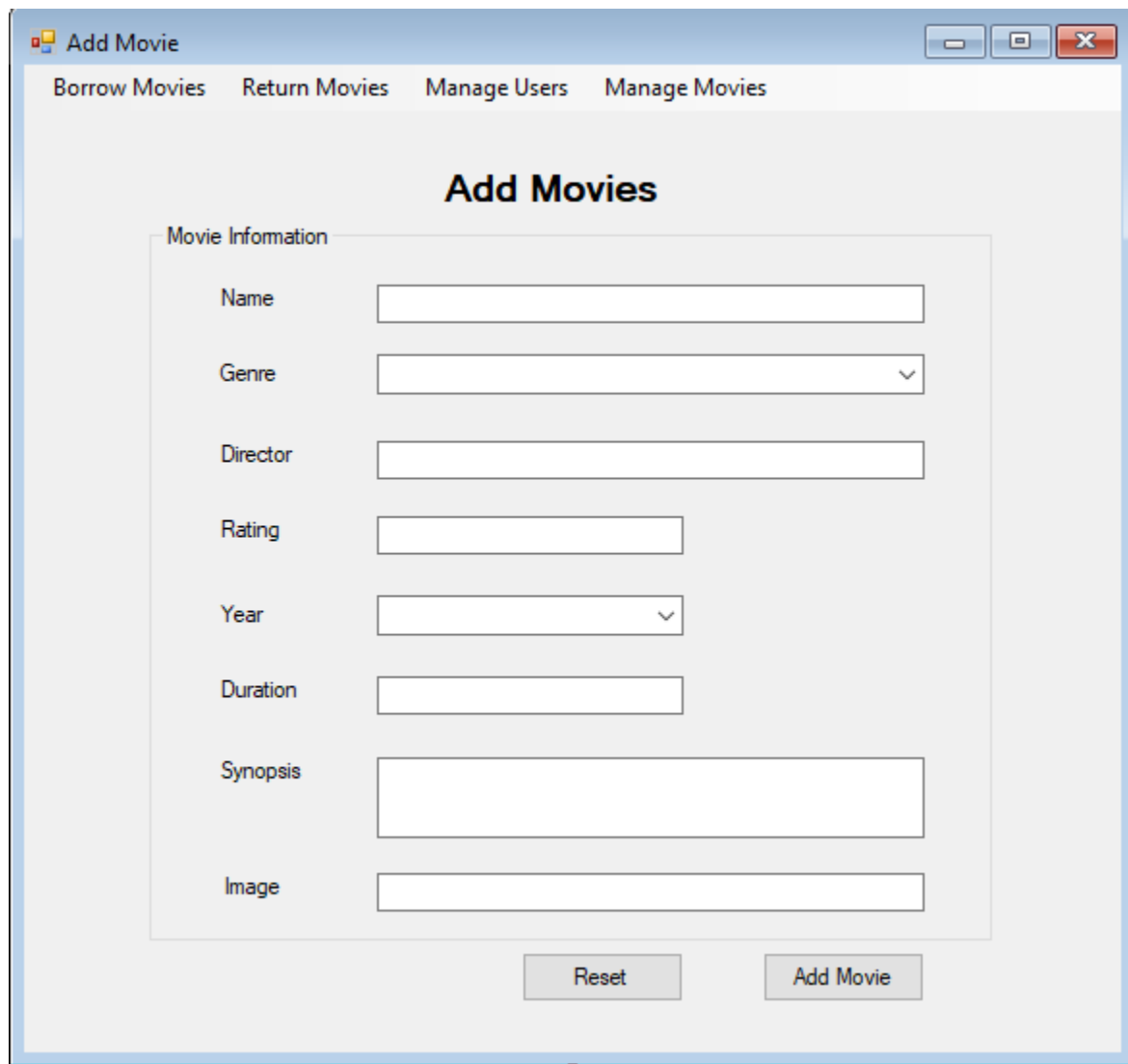
Username (Email)   [   ]   [Search]
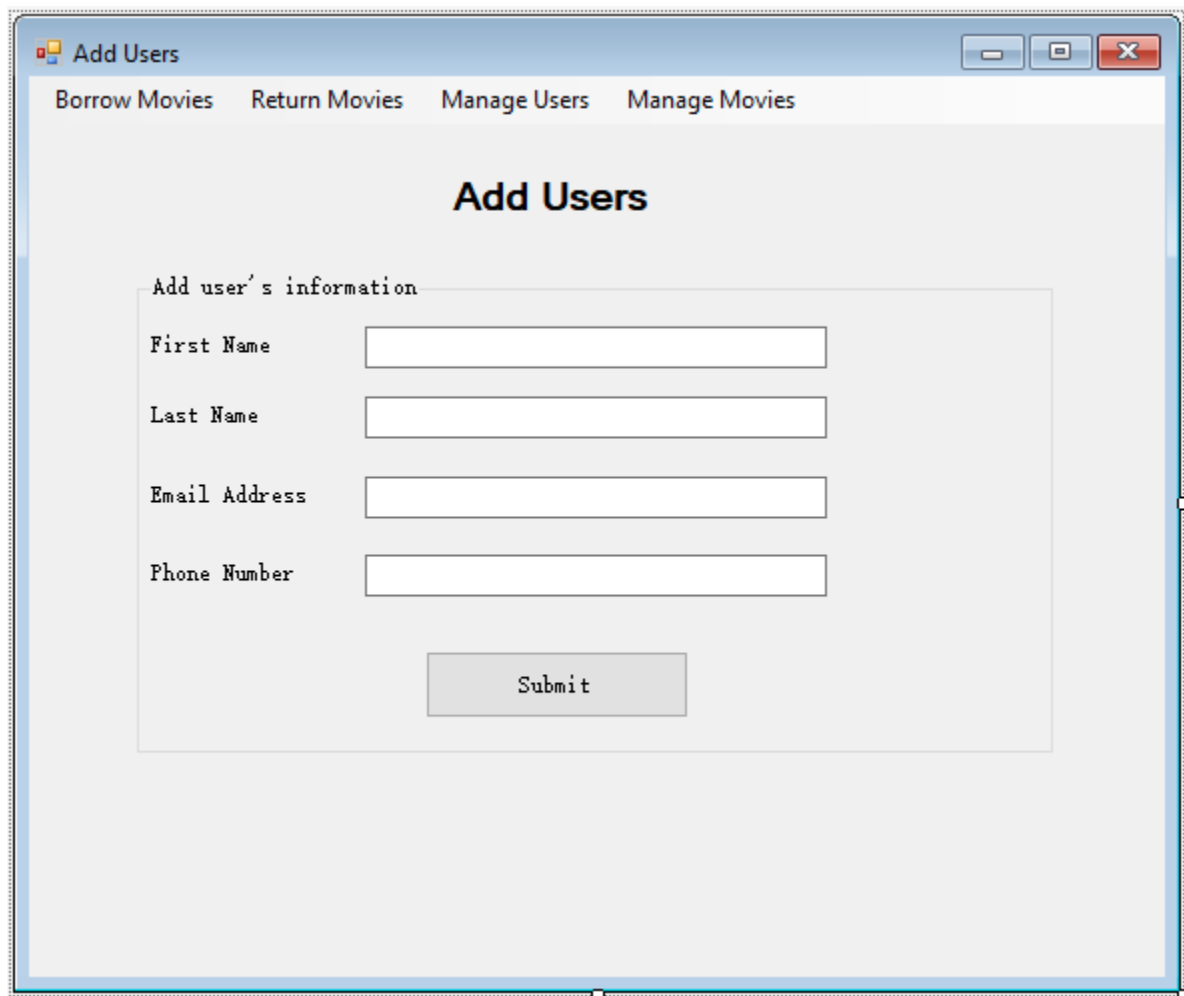
Borrowed Movies

[Return]

Add Movies

Add users

Database Design

Genre
🔑 Id	
Name	

Movie_Genre
MovieId	
GenreId	

Movie
🔑 Id	
Name	
Director	
Rating	
Year	
Duration	
Synopsis	
Image	

User
🔑 Id	
FirstName	
LastName	
Email	
Phone	

Borrow_History
🔑 Id	
UserId	
MovieId	
BorrowDate	
ReturnDate	