Explanatory note for the team project on Programming course

Topic of the project and the program name – Cinny.

The idea of the project is to create a convenient, nice looking application which enables a user to store information about watched episodes of TV shows or films and make plans on them. It also has a few recommendations on what TV show or movie to watch. The user hence is always able to restore where exactly they stopped watching their favorite shows, rate movies they watched and set what they want to watch later.

Repository address: https://github.com/aysenandreev/Cinny2017

Members of the team:

Vladislav Bychkov 164 – database design, main logic;

Aysen Andreev 164 – WPF design, main logic;

Pavel Vasilyev – main logic, testing.

List of classes:

Movie: properties – Id, Name, Rate for watched movies and their appraisal

MoviePlanned: Id, Name for planned movies

Show: Id, Name, Season, Episode, Time for watched shows and their timing

ShowPlanned: Id, Name, Season

User: Id, Email, Password

Each entity class mentioned contains an integer Id property (becoming primary key later), composes a database model so they are used to create a database, corresponding tables and migrations through context and Entity Framework logic (code-first approach). They are also used in some methods.

Context: derived from DbContext, contains database set declarations with entity classes and the base constructor with a string parameter of the connection string.

Repository: used to make some changes with the data instantiating the context object.

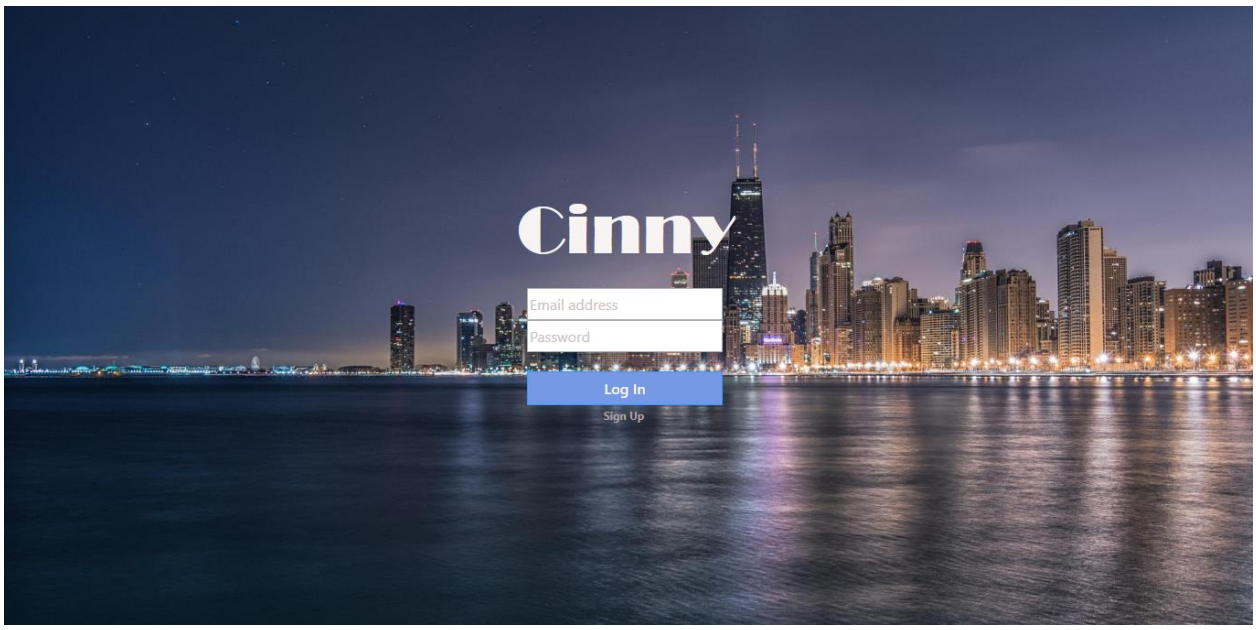
Configuration and Initial migration classes are used to create the database schema.

Pages: for navigation between pages.

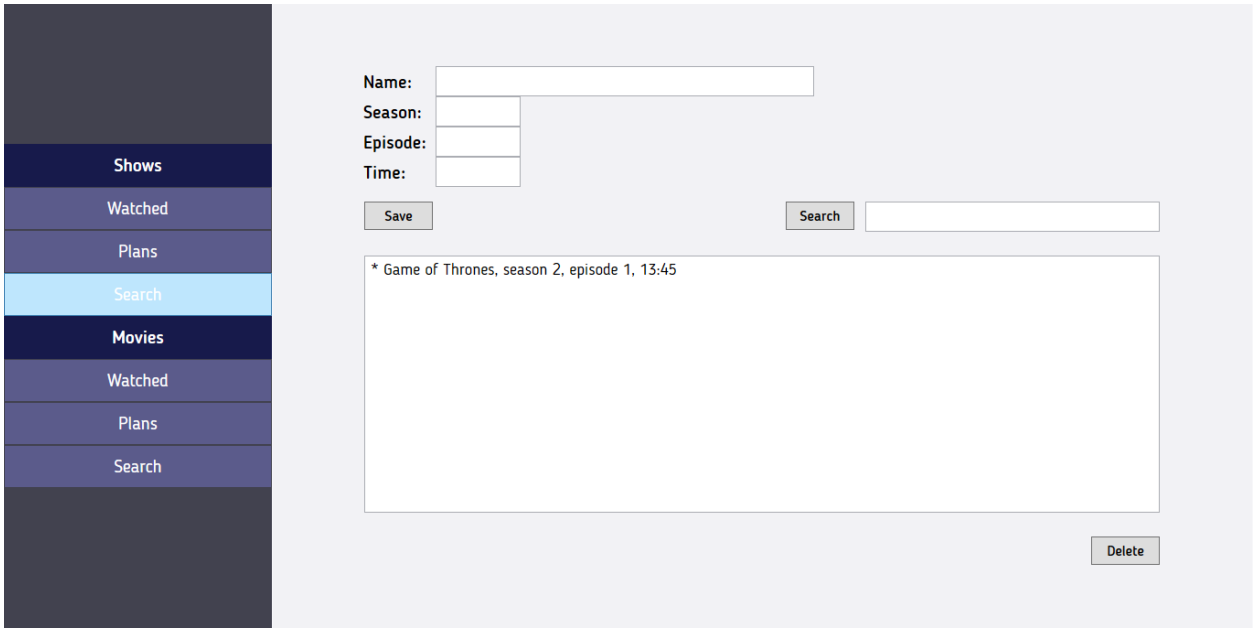
StartPage and SignupPage xaml classes are used to specify the appearance of textboxes, call message boxes where needed but mainly to compare the data inserted by the user with the data in the database to let them sign up or log in instantiating the context, repository and entity classes objects and using some linq requests for that. The classes use MD5 hash function to store users' passwords appropriately.

The other pages xaml classes work with the data connected with shows and movies.

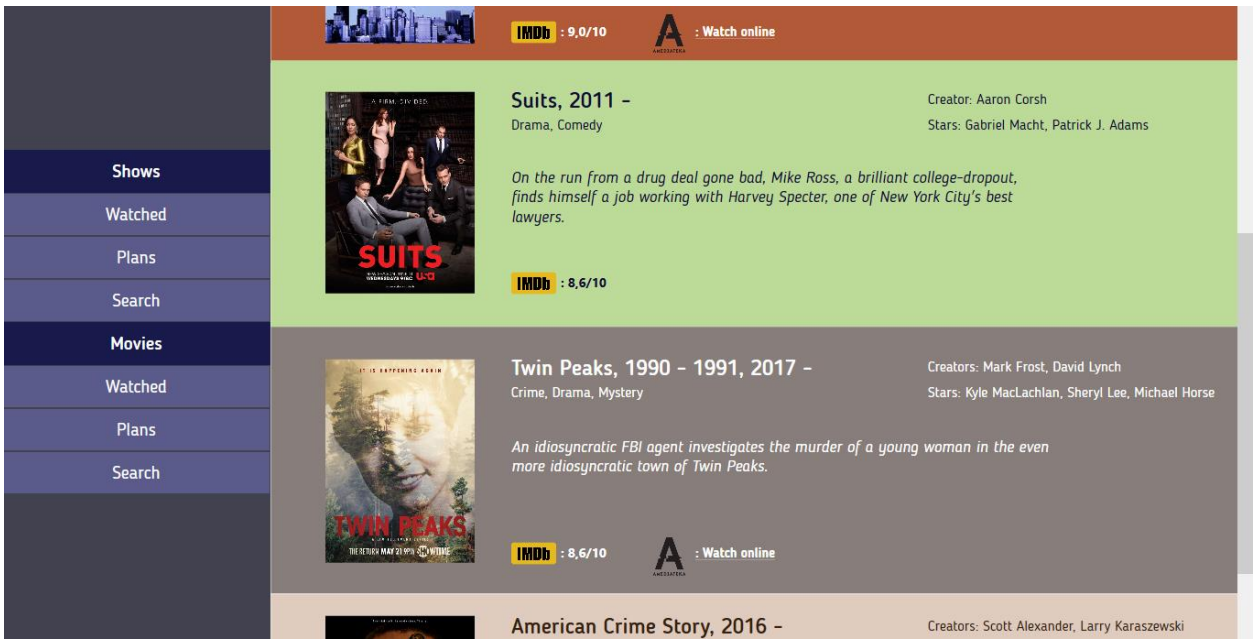
Program interface:



Start page to log in.



The page for making a list of shows' timings.



The page with recommendations on what shows to watch and information about them with links to external source for watching them online.

Test cases. A user could insert, for example, a text to textboxSeason which leads to an exception, solved with a simple try-catch implementation; at first, the lists are cleared with one click, then messageboxes with delete confirmation were implemented.