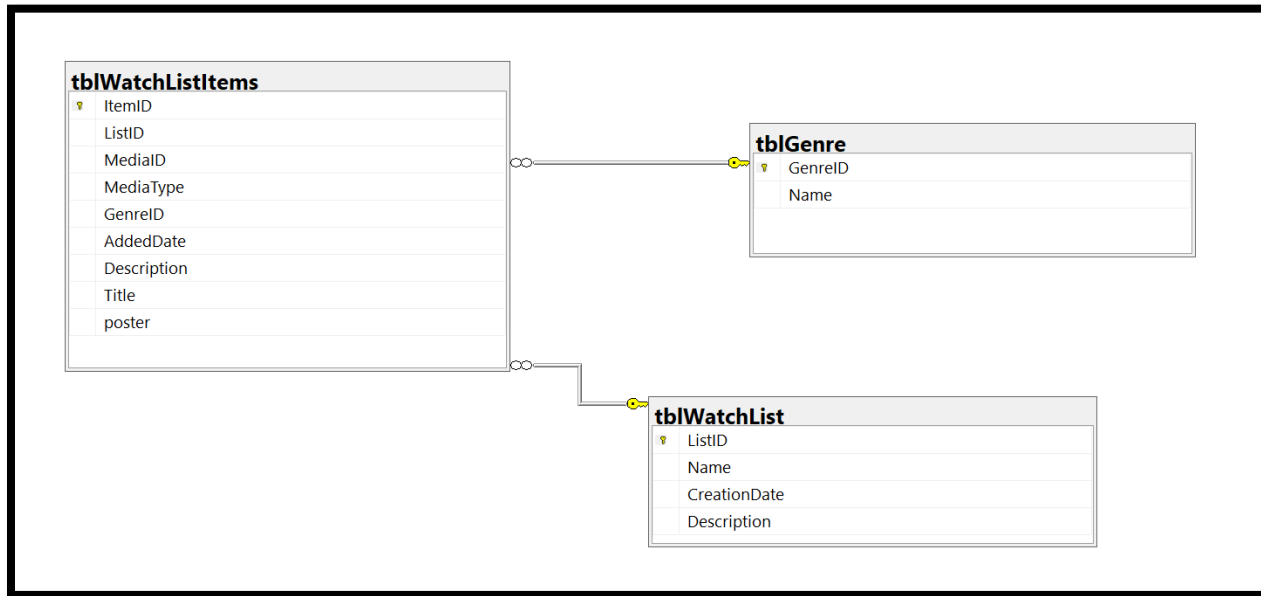


Final Project Write-Up
ProjectMangukiyaBrijMukesh

CSC – 283

Watch List app.

ER-Diagram:



The app allows the user to create several watch lists and add content to it. Each item added will also have a specific genre id associated with it and its corresponding category is stored in genre table. All watch lists are stored in tblWatchList and ListID is foreign key referenced to tblWatchListItems, where the content details reside.

This app uses the Tmdb API. The access token is implemented but if any issues arise, please let me know.

On launch, the user is greeted with currently trending movies and tv shows from [Tmdb's API](#). The user can either select any one of them or search for a specific title in the search bars. On clicking an item, an overview is given for the title and a dropdown of watch lists. Users can choose to add to any one of the lists at a particular time.

YouTube Embed API: Trailers are shown only for MOVIES. TV shows have random (on purpose) Featurettes. Some shows/movie trailers may have broken videos links.

The “My Lists” tab will return all lists in the database. Direct CRUD operations can be performed on this tab. As the project involves the use of [Tmdb.com's](#) API, CRUD operations have on other tables have been not implemented on purpose, as any unknown MediaId, MediaType, poster links etc. would result in a response error which results in an empty page.

Database Views: (Views Tab-dropdown)

Database views have been implemented with charts and grids:

- By Media Type: dynamic pie chart and grid which shows the number of movies and number of TV shows present in all watchLists.
- By Genre: dynamic donut chart, bar chart and grid which counts the items by each genre.
- By Added Date: dynamic line chart, bar chart and grid which counts the items by the date they were added, showing activity on the app.

Database Stored Procedures: (available throughout the app)

There are 3 stored procedures implemented in the app:

- When you click on a watch list from the “My Lists” page, a stored procedure is executed to return the items in that list.
- Each item would have an orange “Remove” button which executes another stored procedure to remove that item from the list and the database.
- Lastly, click on “Your WatchList by Genre” tab in the nav bar. You are greeted with a grid of items and a dropdown of genres. Selecting a genre and clicking filter executes a stored procedure returning corresponding items.

Future Work:

- Authentication: make the app usable by multiple users by creating accounts.
- Independent Views: Right now, all the charts and the ‘filter by genre’ take in data from all the watchlists present, would like to separate that and allow per watchlist visualization.
- Fixing IMDB links for TV shows: The API does not return valid IMDB links for tv shows as of now, need to implement a fallback.
- Watch Providers: Each title would show on what streaming platforms it is available on.

API:

<https://developer.themoviedb.org/reference/intro/getting-started>

Helper library: <https://github.com/jellyfin/TMDbLib>

YouTube Embed API: https://developers.google.com/youtube/iframe_api_reference