MOVIE DB

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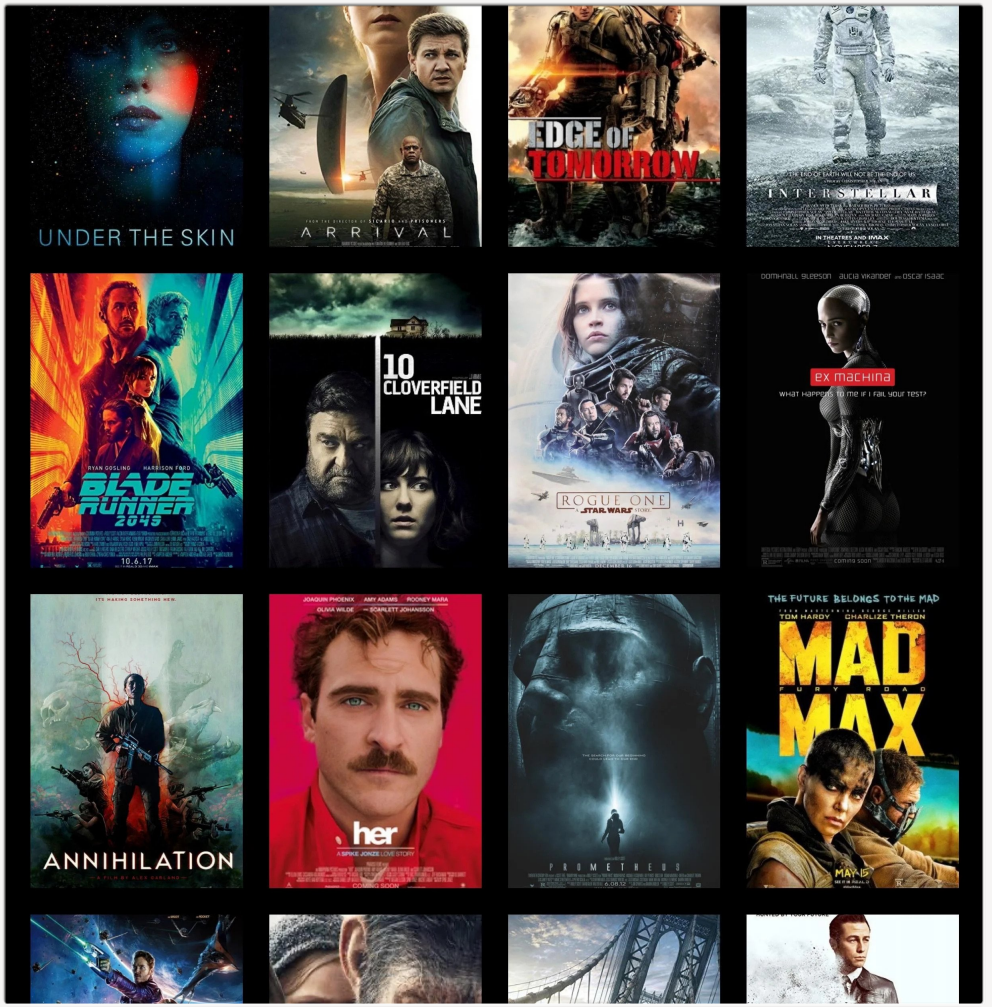
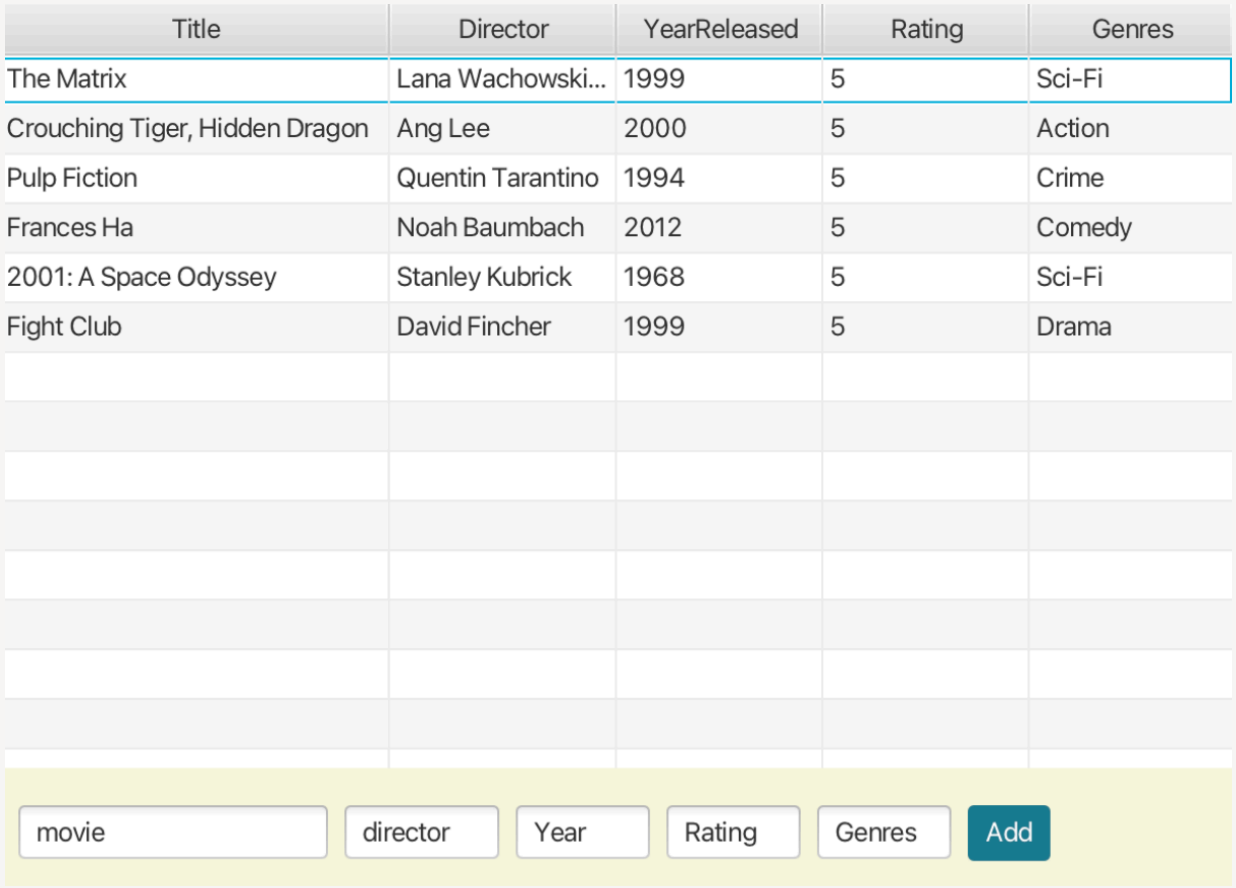


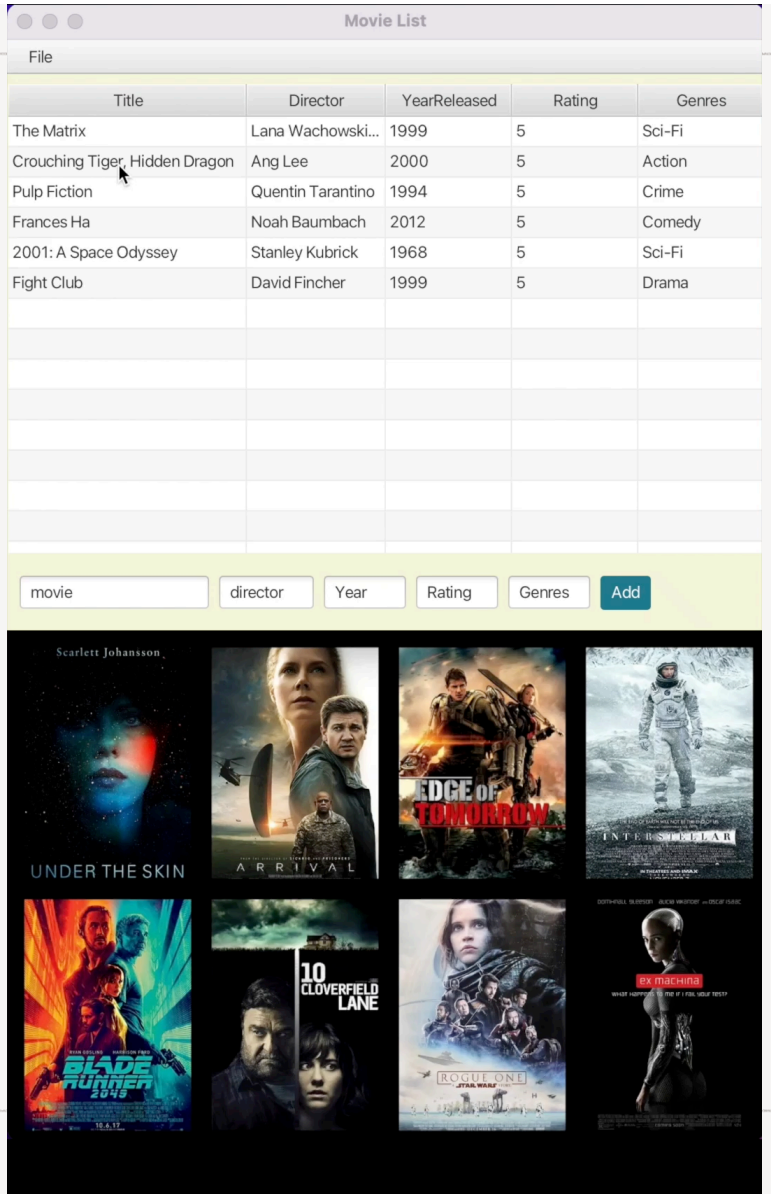
APPLICATION SCENARIO

- Track movies and TV shows that we have watched.
- Create a watch list of TV shows and movies
- Sort your list in the order of the director, year released, rating and Genres.

CAPABILITIES OF MOVIEDB

- Add a movie
- Edit a movie
- Rate a movie
- Tag movie

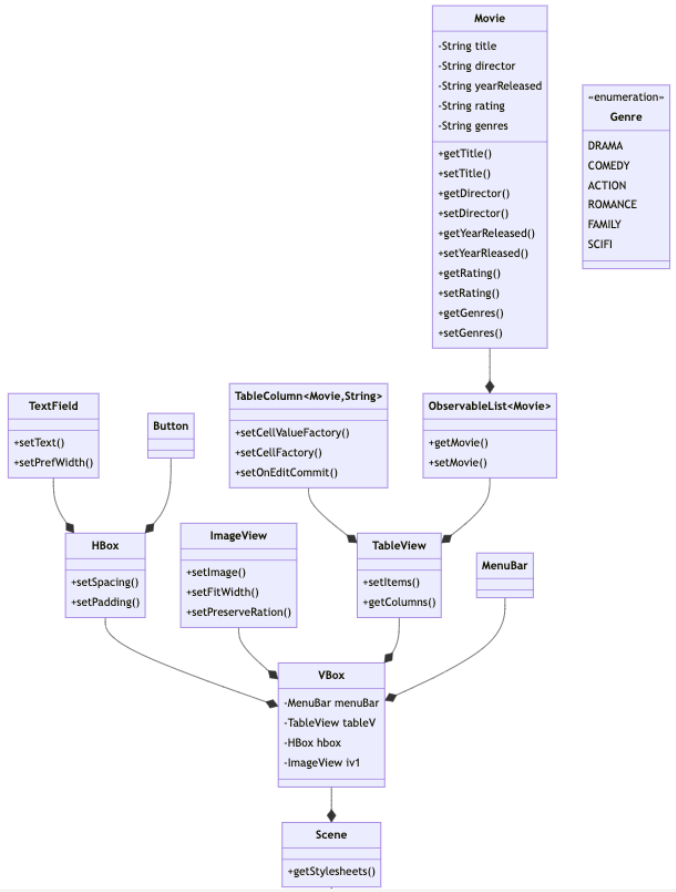


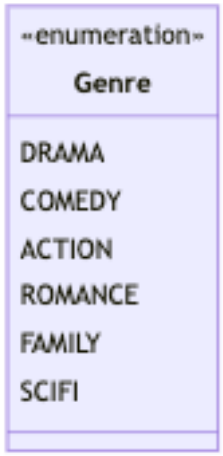


Demo: https://youtu.be/xCFnyLFagDI

UML CLASS AND IMPLEMENTATION

- Movie
- ObservableList<Movie>
- TableView
- TableColumn<Movie, String>
- Button





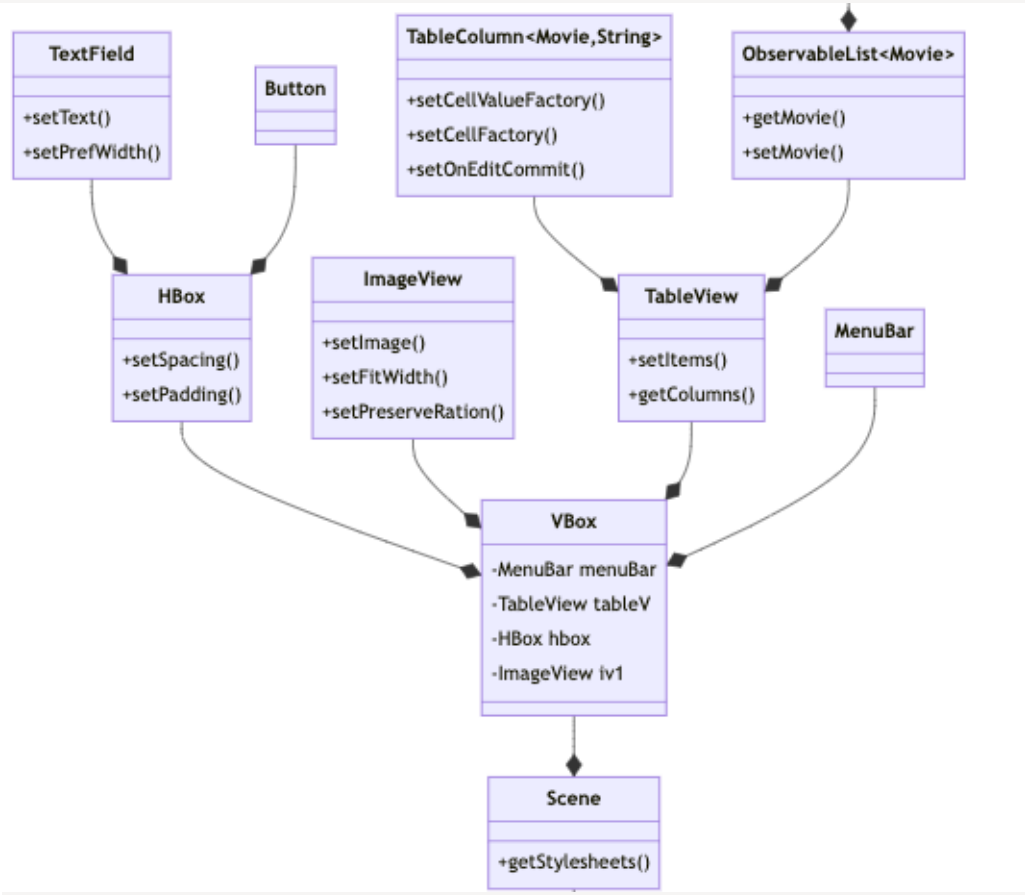

```java
public class Movie implements Serializable {
    private final SimpleStringProperty title;
    private final SimpleStringProperty director;
    private final SimpleStringProperty yearReleased;
    private final SimpleStringProperty rating;
    private final SimpleStringProperty genres;
    //constructor
    Movie(String title, String director, String yearReleased, String rating, String genres) {
        this.title = new SimpleStringProperty(title);
        this.director = new SimpleStringProperty(director);
        this.yearReleased = new SimpleStringProperty(yearReleased);
        this.rating = new SimpleStringProperty(rating);
        this.genres = new SimpleStringProperty(genres);
    }
}
```

```java
private final ObservableList<Movie> data =
FXCollections.observableArrayList(
    new Movie("The Matrix", "Lana Wachowski, Lilly Wachowski", "1999", "5", "Sci-Fi"),
    new Movie("Crouching Tiger, Hidden Dragon", "Ang Lee", "2000", "5", “Action”),
    …
)
```

```
tableView.setItems(ObservableList<Movie>)

tableV.getColumns().addAll(titleCol, directorCol,
yearreleasedCol, ratingCol, genresCol);
```

```
titleCol.setCellValueFactory(new PropertyValueFactory<Movie,
String>("Title"));
titleCol.setOnEditCommit(
    new EventHandler<TableColumn.CellEditEvent<Movie,
String>>() {
        @Override
        public void handle(TableColumn.CellEditEvent<Movie,
String> t) {((Movie) t.getTableView().getItems().get(
t.getTablePosition().getRow())).setTitle(t.getNewValue());
        }
    }
);
```



LESSON LEARNED

- A more appealing appearance needed: CSS
- A deeper understanding of Java: Object is everywhere
- Debugging methods: read the error message, System.out.println()