



Main classes

Movie

```
- year: int
- name: String
- rating: double
- genre: String
+ Movie()
+ Movie(name: String, genre: String, year: int,
        rating: double, writeData: boolean)
+ Movie(name: String, genre: String, year: int,
        rating: double)
+ getName(): String
+ getYear(): int
+ getRating(): double
+ getGenre(): String
```

TvShow

```
- year: int
- name: String
- rating: double
- genre: String
- episodes: int
+ TvShow()
+ TvShow(name: String, genre: String, year: int,
        rating: double, episodes: int,
        writeData: boolean)
+ TvShow(name: String, genre: String, year: int,
        rating: double, episodes: int)
+ getName(): String
+ getYear(): int
+ getRating(): double
+ getGenre(): String
+ getEpisodes(): int
```

Manager

```
- id: String
- password: String
+ Manager()
+ Manager(id: String, password: String)
```

User

- name: String
- password: String
- email: String
- plan: String
- sub: Subscription

+ User()

+ User(name: String, password: String, plan: String, writeData: boolean)

+ User(name: String, password: String, plan: String)

+ getName(): String

+ getPlan(): String

+ getEmail(): String

+ getPassword(): String

+ storeData()

+ setName(name: String)

+ setPlan(plan: String)

+ setEmail(email: String)

+ setPassword(password: String)

InvalidPlanException

+ InvalidPlanException()

VerifyLogin

+ filePath: String

+ InputUsername: String

+ InputPassword: String

+ verify(InputUsername: String, InputPassword: String, filePath: String): boolean

Subscription

- monthlyPrice: double
- plan: String
- availableDownloads: int
- supportedDevices: int
- numberOfSubs: int

+ Subscription()

+ Subscription(plan: String)

+ toString(): String

+ getMonthlyPrice(): double

+ getAnnualPrice(): double

+ getNumberOfSubs(): int

+ getPlan(): String

+ getAvailableDownloads(): int

+ getSupportedDevices(): int

+ cancelSubscription()

- setMonthlyPrice(price: double)

- setPlan(plan: String)

- setAvailableDownloads(downloads: int)

- setSupportedDevices(devices: int)

+ storeUserData()

GUI:

WelcomePage
extends Application.
+ start(primaryStage:Stage)
+ main(args:String[])

WelcomePageController
- stage: Stage
- root: Parent
- scene: Scene
+ toLoginPage(event: ActionListener)

LoginPage
+ start(primaryStage:Stage)
+ main(args:String[])

LoginPageController
- stage: Stage
- root: Parent
- scene: Scene
- inputUsername: TextField
- inputPassword: TextField
+ login(event: ActionListener)

SelectionPage
+ start(primaryStage:Stage)
+ main(args:String[])

SelectionPageController
- stage: Stage
- root: Parent
- scene: Scene
+ toMovieDataPage(event: ActionListener)
+ toUserDataPage(event: ActionListener)
+ toTvShowPage(event: ActionListener)

TvShowDataPage
+ start(primaryStage:Stage)
+ main(args:String[])

TvShowDataPage Controller
- table: TableView<TvShow>
- name: TableColumn<TvShow, String>
- genre: TableColumn<TvShow, String>
- year: TableColumn<TvShow, Integer>
- episodes: TableColumn<TvShow, Integer>
- rating: TableColumn<TvShow, Double>
+ list: ObservableList<TvShow>
+ initialization(arg0: URL, arg1: ResourceBundle)

UserDataDataPage
+ start(primaryStage:Stage)
+ main(args:String[])

UserDataDataPageController
- table: TableView<User>
- name: TableColumn<User, String>
- password: TableColumn<User, String>
- email: TableColumn<User, String>
- plan: TableColumn<User, String>
+ list: ObservableList<TvShow>
+ initialization(arg0: URL, arg1: ResourceBundle)

MovieDataPage

+ start(primaryStage: Stage)
+ main(args: String[])

MovieDataPageController

- table: TableView<Movie>
- name: TableColumn<Movie, String>
- genre: TableColumn<Movie, String>
- year: TableColumn<Movie, Integer>
- rating: TableColumn<Movie, Double>
+ initialization(arg0: URL, arg1: ResourceBundle)