



Main classes

Movie	
<ul style="list-style-type: none">- year: int- name: String- rating: double- genre: String	
<ul style="list-style-type: none">+ Movie()+ Movie(name: String, genre: String, year: int, rating: double, writeData: boolean)+ Movie(name: String, genre: String, year: int, rating: double)	
+ getName(): String	+ setName(name: String): void
+ getYear(): int	+ setYear(year: int): void
+ getRating(): double	+ setRating(rating: double): void
+ getGenre(): String	+ setGenre(genre: String): void

TvShow	
<ul style="list-style-type: none">- year: int- name: String- rating: double- genre: String- episodes: int	
<ul style="list-style-type: none">+ 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	+ setName(name: String): void
+ getYear(): int	+ setYear(year: int): void
+ getRating(): double	+ setRating(rating: double): void
+ getGenre(): String	+ setGenre(genre: String): void
+ getEpisodes(): int	+ setEpisodes(episodes: int): void

Manager	
<ul style="list-style-type: none">- id: String- password: String	
<ul style="list-style-type: none">+ 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[])
```

TvShowDataPageController

```
- 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)