DataConstants

-USER_FILE_NAME;String
-USER: String
-USER_USERNAME:String
-USER_PASSWORD: String
-THEATER_FILENAME:String
-THEATER:String
-THEATER _NAME:String
-THEATER_LOCATION
-MOVIE_FILE_NAME:String
-MOVIE:String
-MOVIE_TITLE:String
-MOVIE_COST_PER_TIICKET:String
-MOVIE_DURATION_TIME:String
-MOVIE_DESCRIPTION:String

DataLoader

+ loadUser(): ArrayList<User>
+ loadTheater(): ArrayList<Theater>
+ loadMovie(): ArrayList<Movie>
+ loadPlay(): ArrayList<Play>

DataWriter

+ saveMovie(): void
+ getMovieJSON(Movie movie): JSONObject
+ savePlay(): void
+ getPlay(Play play): JSONObject
+ saveUser(): void
+ getUserJSON(User user): JSONObject
+ saveTheater(): void
+ getTheaterJSON(Theater theater): JSONObject

Database Class

+ getUsers(): ArrayList<User>
+ getMovies(): ArrayList<Movie>
+ getPlays(): ArrayList<Play>

TheaterUI

- WELCOME_MESSAGE: final String
- mainMenuOptions : String[]
- scanner : Scanner
- theater : Theater

+ TheaterUI()
+ run() : void
- displayMainMenu() : void
- getUserCommand(int numCommands) : int
- findMovie() : void
- checkoutMovie() : void
- rateMovie() : void
- payFine() : void
- getUserMovie : String
+ main(String[] args) : void

Theaters

- theaters : Theaters
- theaterList : ArrayList<Theater>

- Theaters()
+ getInstance() : Theaters
+ getTheater() : ArrayList<Theater>
+ addTheater(String name, String location) : void

Theater

- movies : Movies
- users : Users

+ Theater()
+ findMovie (String movieName) : boolean
+ checkout(String movieName) : boolean
+ rateMovie(String movieName, int rating) : boolean
+ payFine(int amount) : boolean

MovieInterface

- scanner : Scanner

+ play() : void
+ getField(String prompt) : String
+ addMovie() : boolean
+ displayMovie() : void

Movies

- movies : Movies
- movieList : ArrayList<Movie>

+ Movies()
+ getInstance() : Movies
+ getMovie() : ArrayList<Movie>
+ addMovie(String title, double costPerTicket, String durationTime, String description) : void

Movie

- title : String
- costPerTicket : double
- durationTime : String
- description : String
- numTickets : int
- seats : String

+ Movie(int numTickets, String seats)
+ Movie(String title, double costPerTicket, String durationTime, String description) : void
+ getTitle() : String
+ setTitle(String userTitle) : void
+ getCostPerTicket() : double
+ setCostPerTicket(double costPerTicket) : void
+ getDurationTime() : String
+ setDurationTime(String durationTime) : void
+ getDescription() : String
+ setDescription(String description) : void
+ displaySeats() : String
+ getNumTickets() : int
+ setNumTickets(int numTickets) : void
+ getSeats() : String
+ setSeats(String seats) : void

UserInterface

- scanner : Scanner
- user : String

+ user() : void
+ displayUser() : void
+ newUser() : void
+ guestUser() : void
+ employeeUser() : void
+ returningUser() : void
+ setUserChoice(String user) : void
+ getUserChoice() : String
+ userChoice() : void

Users

- users : Users
- userList : ArrayList<User>

- Users()
+ getInstance() : Users
+ getUser() : ArrayList<User>
+ addUser(String userName, String password) : void

User

- password : String
- username : String

+ User(String password, String userName)
+ User()
+ getUserName() : String
+ setUerName(String userName) : void
+ getPassword() : String
+ setPassword(String password) : void

PlayhouseUI

- WELCOME_MESSAGE: final String
- mainMenuOptions : String[]
- scanner : Scanner
- playhouse : Playhouse

+ PlayhouseUI()
+ run() : void
- displayMainMenu() : void
- getUserCommand(int numCommands) : int
- findPlay() : void
- cheeckoutPlay() : void
- ratePlay() : void
- pay Fine() : void
- getUserPlay() : String
+ main(String[] args) : void

Playhouse

- plays: Plays
- users: Users

+ Playhouse()
+ findPlay(String playName) : boolean
+ checkout(String playName) : boolean
+ ratePlay(String playName, int rating) : boolean
+ payFine(int amount) : boolean

Play

- title : String
- costPerTicket : int
- description : String

+ Play(String title, int costPerTicket, String description) : void
+ getTitle() : String
+ getCostPerTicket() : int
+ set CostPerTicket(int costperTicket) : void
+ getDescription() : String
+ setDescription(String description) : void

Plays

- plays : Plays
- playList : ArrayList<Play>

- Plays()
+ getInstance() : Plays
+ getePlay() : ArrayList<Play>
+ addPlay(String title) : void