«PrimitiveType» Boolean

«PrimitiveType» String

«PrimitiveType» Int

«PrimitiveType» Date

«PrimitiveType» Real

«DataType» ArrayList

«DataType» HashMap

«DataType» Set

«Enumeration» ACCESS_LEVELS
MANAGER
CUSTOMER
NOTHING

«DataType» Object

«DataType» Map

Object: BookingSystem

java.util.Scanner

«Interface» java.io.Serializable

PreLoad
- FILENAME : String

+ main()
- save(~ in: BookingSystem)

Utilities
- FILENAME : String

+ initialise(): Object
+ save(~ in: Object)

FileReader

+ printFile(~ in: String)

Person
- password : String
- address : String
- email : String
- telephone : String
- bookings : Booking
- userId : String
- accessLevel : ACCESS_LEVELS

+ Person(~ in: String, ~ in: String)
+ Person(~ in: String, ~ in: String, ~ in: ACCESS_LEVELS)
+ equals(~ in: Object): Boolean
+ toString(): String
~ getUserId(): String
~ getPassword(): String
~ getAccessLevel(): ACCESS_LEVELS

Booking
- show : Showing
- bookingAllocated : Boolean
+ ACCESS_LEVELS : ACCESS_LEVELS
- bookingRef : String

+ Booking()
+ getShowing()
+ setShowing()
+ getPerson()
+ setPerson()
+ getBookingRef()
+ setString()

BookingSystem
- users : Person [*]
- cinema : Cinema
- name : String
- bookings : Booking [*]
+ ACCESS_LEVELS : ACCESS_LEVELS
- sc : java.util.Scanner
- loggedPerson : Person
+ EXIT : <Undefined>

+ BookingSystem()
+ BookingSystem()
+ toString()
+ loginScreen()
+ isUserExist()
+ performActions()
+ processUserManagement()
+ processShowUsers()
+ processScreenManagement()
+ processMovieManagement()
+ processAddMovies()
+ processUpdateMovies()
+ processDeleteMovies()
+ processShowMovies()
+ processAddShowing()
+ processShowShowing()
+ processUpdateShowing()
+ processDeleteShowing()
+ processBookingManagement()
+ processShowBooking()
+ processAuthoriseRefunds()
+ processCinemaFacilities()
+ processCinemaPrices()
+ processPaymentsRefundsInfo()
+ processBooking()
+ processAmendPersonalDetails()
+ addManager()
+ addCustomer()
~ run()

Cinema
~ showings : Showing [*]
~ movies : Map [*]
~ screens : Map [*]

+ Cinema()
+ addMovie(~ in: String, ~ in: String, ~ in: String, ~ in: String, ~ in: String, ~ in: String): Boolean
+ updateMovie(~ in: String, ~ in: String, ~ in: String, ~ in: String, ~ in: String, ~ in: String): Boolean
- addMovie(~ in: Movie): Boolean
- removeMovie(~ in: String): Boolean
+ getAllMovies(): Set
+ getMovie(~ in: String): Movie
+ getScreen(~ in: Int): Screen
+ addShowing(~ in: Screen, ~ in: Movie, ~ in: Date): Boolean
- addShowing(~ in: Showing): Boolean
+ getShowing(~ in: Int, ~ in: String, ~ in: Date): Showing
+ removeShowing(~ in: Showing): Boolean
+ updateShowing(~ in: Showing, ~ in: Screen, ~ in: Movie, ~ in: Date): Boolean
+ getAllShowings(): ArrayList

Showing
- screen : Screen
- movie : Movie
- ShowDate : Date

+ Showing(~ in: Screen, ~ in: Movie, ~ in: Date)
+ getScreen(): Screen
+ setScreen(~ in: Screen)
+ getMovie(): Movie
+ setMovie(~ in: Movie)
+ getShowDate(): Date
+ setShowDate(~ in: Date)
+ getScreenNumber(): Int

Screen
- title : String
- rating : String
- screenNumber : Int
- allocated : Boolean
seats : HashMap
bookings : HashMap

+ Screen(~ in: Int)
+ getScreenNumber(): Int
+ isAllocated(): Boolean
+ book()
+ available()

Movie
- title : String
- rating : String
- director : String
- actors : String
- synopsis : String
- clip : String

+ Movie(~ in: String, ~ in: String, ~ in: String, ~ in: String, ~ in: String, + in: String)
+ equals(~ in: Object): Boolean
+ toString(): String
+ getTitle(): String
+ getRating(): String
+ getDirector(): String
+ getActors(): String
+ getSynopsis(): String
+ getClip(): String
+ setRating(~ in: String)
+ setDirector(~ in: String)
+ setActors(~ in: String)
+ setSynopsis(~ in: String)
+ setSynopsis(~ in: String)