MovieController

+ *movieList*: ArrayList<Movie>

+ addRandomData()
+ register(Movie m)
+ remove(Movie m)
+ getMovieList()
+ getMovie(int index)
+ getSizeList()

SessionController

+ *sessionList*: ArrayList<Session>

+ addRandomData()
+ register(Session s)
+ remove(Session s)
+ getSessionList()
+ getSession(int index)
+ getSizeList()

SnackController

+ *snackList*: ArrayList<Snack>

+ addRandomData()
+ register(Snack s)
+ remove(Snack s)
+ getSnackList()
+ getSnack(int index)
+ getSizeList()

Session

- sessionList: ArrayList<Session>
- Movie movie
- date: GregorianCalendar
- purchasedTickets: int
- registered: boolean

+ register()
+ viewSeats()
+ viewSeats(boolean available)
+ ticketsInfo()
+ getSession(int index)
+ getSession(GregorianCalendar date)
+ addTicket(Ticket t)
+ removeTicket(Ticket t)
+ isSessionAvailable(Movie movie)
+ isSessionAvailable()
+ isSessionAvailable(GregorianCalendar date)

<>
CinemaRoom

roomSize: int = 20
room: char
room3d: boolean
ticketPrice: double
seatList: ArrayList<Seat>

+ changeRoom(char room)

Seat

- position: String
- available: boolean

+ changeAvailability()

Ticket

- id: String
- session: Session
- seat: Seat

+ createId()

Movie

- *movieList*: ArrayList<Movie>
- name: String
- synopsis: String
- genre: String
- duration: int

+ *getMovie(int indes)*
+ *getMovie(String name)*

<<interface>>
Entity

+ register()
+ update(int option, Object e)
+ view()
+ delete()

Snack

- *snackList*: ArrayList<Snacks>
- name: String
- price: double
- stockQuantity: int
- available: boolean

+ sellSnack(int quantity)
+ checkAvailability()
+ *viewSnacks()*
+ *getSnack(int index)*
+ *getSnack(String name)*

MovieScreen

- f: Font
- screen: JFrame
- columns: String[]
- tableModel: DefaultTableModel
- table: JTable
- scrollPane: JScrollPane
- btAdd: JButton
- btRemove: JButton
- btUpdate: JButton

+ MovieIdScreen()

SessionScreen

- f: Font
- screen: JFrame
- columns: String[]
- tableModel: DefaultTableModel
- table: JTable
- scrollPane: JScrollPane
- btAdd: JButton
- btRemove: JButton
- btUpdate: JButton

+ SessionIdScreen()

SnackScreen

- f: Font
- screen: JFrame
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- table: JTable
- scrollPane: JScrollPane
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- btRemove: JButton
- btUpdate: JButton

+ SnackIdScreen()

Menu

- menuWidth: int = 800
- menuHeight: int = 600
+ fontFamily: String = Arial
- windowWidth: int = 760
- windowHeight: int = 300
- menu: JFrame
- title: JLabel
- btMovie: JButton
- btSession: JButton
- btSnack: JButton

+ changeVisibility()
+ getCenteredPosition(int frameSize, int labelSize)
+ main(String[] args)

<<interface>> ActionListener

MovieDetails

- inputSize: int[] = {250, 25}
- labelSize: int[] = {150, 25}
- buttonsSizeSize: int[] = {250, 65}
- labelInputXDis: int = 30 + labelSize[0]
- f: Font = new Font("Lucida Sans", Font.PLAIN, 15)
- screen: JFrame
- nameLabel: JLabel
- nameInput: JTextField
- synopsisLabel: JLabel
- synopsisInput: JTextField
- genreLabel: JLabel
- genreInput: JTextField
- durationLabel: JLabel
- durationInput: JTextField
- btSave: JButton
- btCancel: JButton
- movie: Movie
- updationg: boolean

+ displayScreen()
+ MovieDetails()
+ MovieDetails(int id)

MovieDetails

- inputSize: int[] = {250, 25}
- labelSize: int[] = {150, 25}
- buttonsSizeSize: int[] = {250, 65}
- labelInputXDis: int = 30 + labelSize[0]
- f: Font = new Font("Lucida Sans", Font.PLAIN, 15)
- screen: JFrame
- roomLabel: JLabel
- roomInput: JTextField
- dateLabel: JLabel
- dateInput: JTextField
- genreLabel: JLabel
- genreInput: JTextField
- btSave: JButton
- btCancel: JButton
- session: Session
- updationg: boolean

+ displayScreen()
+ SessionDetails()
+ SessionDetails(int id)

MovieDetails

- inputSize: int[] = {250, 25}
- labelSize: int[] = {150, 25}
- buttonsSizeSize: int[] = {250, 65}
- labelInputXDis: int = 30 + labelSize[0]
- f: Font = new Font("Lucida Sans", Font.PLAIN, 15)
- screen: JFrame
- nameLabel: JLabel
- nameInput: JTextField
- priceLabel: JLabel
- priceInput: JTextField
- stockLabel: JLabel
- stockInput: JTextField
- btSave: JButton
- btCancel: JButton
- snack: Snack
- updationg: boolean

+ displayScreen()
+ SnackDetails()
+ SnackDetails(int id)