Classes

Movie

- title: String
- description: String
- duration: int

+ Movie(String, String, int): Movie
+ getTitle(): String
+ getDescription(): String
+ getDuration(): String
+ setTitle(String): Void
+ setDescription(String): Void
+ setDuration(int): Void
+ toString(): String

Theater

- name: String
- nuberSeats: int

+ Theater(String, int): Theater
+ getName(): String
+ getNumberSeats(): int
+ setName(String): void
+ setNumberSeats(int): void
+ toString(): String

Person

- firstName: String
- lastName: String
- email: String

+ Person(String, String, String): String
+ getFirstName(): String
+ getLastName(): String
+ getEmail(): String
+ setFirstName(String): Void
+ setLastName(String): Void
+ setEmail(String): Void
+ toString(): String

Ticket

- ticketNumber: String
- movie: Movie
- theater: Theater
- person: Person
- total: double
- date: DateTime

+ Ticket(): Ticket
+ getTitle(): String
+ getDescription(): String
+ getDuration(): String
+ setTitle(String): Void
+ setDescription(String): Void
+ setDuration(int): Void
+ printTicket(): String
+ toString(): String

Payment

- person: Person
- total: double
- card: String

+ Payment(): Payment
+ getPerson(): Person
+ getTotal(): double
+ getCard(): String
+ setPerson(Person): Void
+ setTotal(double): Void
+ setCard(String): Void
+ toString(): String

Reservation

- reservationNumber: String
- tickets: ticket[]
- numberTickets: int
- payment: Payment
- date: DateTime

+ Reservation(): Movie
+ getReservationNumber(): String
+ getTickets(): ticket[]
+ getNumberTickets(): int
+ getPayment(): Payment
+ getDate(): DateTime
+ setReservationNumber(String): Void
+ setTickets(Ticket[]): Void
+ setNumberTickets(int): Void
+ setPayment(Payment): Void
+ setDate(DateTime): Void
+ printTicket(int): String
+ printTickets(): String
+ printReservation(): String
+ toString(): String

MovieMenuItem

- movie : Movie
- theater: Theater
- time: String
- availableSeats: int

+ MovieMenuItem():
MovieMenuItem
+ getMovie(): Movie
+ getTheater(): Theater
+ getTime(): String
+ getAvailableSeats(): int
+ setMovie(Movie): void
+ setTheater(Theater): void
+ setTime(String): void
+ setAvailableSeats(int): void
+ toString(): String

MovieMenuCollection

- movies: MovieMenuItem[]

+ toString(): String

GUI

+ reservation: Reservation
+ availableMovies: MovieMenuCollection
+ reservations: Reservation[]
...

+ displayMenu(): Void
+ displayMovie(): Void
+ displayPaymentForm(): Void
+ displayConfirmation(): Void
...
+ chooseMovie(): void
+ chooseTime(): void
+ addPerson(person:Person): void
+ addPayment(payment:Payment): void
+ completeOrder(): Reservation
+ printOrder(): String

| We Display Menu of Movies | → | We Create Empty Reservation |

| User Makes Selection - We Save Choices to Reservation | → | User Picks a Movie | → | User Selects Time | → | User Selects Number of Tickets |

| After User Made His Choices We Display Payment Form | → | User Enters Name and Email | → | User Enters Credit Card Information | → | User Completes Payment Form and Completes Order |

| User Completes All Forms - We Print Ticktets |