InputOutputHandler

- cinemaService: CinemaService
- instance: InputOutputHandler
- + editBooking(Booking, User): Page
- readInput(int): int
- + seatsSelectionPage(ShowTime, Booking): List<Seat>
- + movieSelectionPage(Cinema): Movie
- + confirmPaymentPage(Booking, User, Booking): boolean
- chooseOption(List<String>, String): int
- changeUserData(User, int): Page
- + rechargeAccount(User): boolean
- + homePage(boolean): Page
- + loginOrRegisterPage(): User
- + bookingManagePage(User): Booking
- refundUser(Booking, User): boolean
- + accountManagementPage(User): Page
- + getInstance(): InputOutputHandler
- + cinemaSelectionPage(): Cinema
- + editAccount(User): Page
- + getInstance(CinemaService): InputOutputHandler
- showTimeSelectionPage(Movie, Cinema): ShowTime

CinemaDatabase

- + DB_URL: String
- inTransaction: boolean
- # connection: Connection
- connect(String): Connection
- + withTransaction(ThrowingRunnable): void
- + getConnection(String): Connection

+ main(String[]): void

+ createHall(Hall): Hall

+ createHall(ResultSet): Hall

populateDatabase(): void

getSomeSeats(): List<Seat>

- + isInTransaction(): boolean
- + isDatabaseEmpty(): boolean

Main

HallFactory

<<interface>> CinemaService

+ pay(Booking, Booking?, User): void + addShowTime(ShowTime): void + register(String, String): User + retrieveCinemas(): List<Cinema> + retrieveBookings(User): List<Booking>

+ updateUser(User, String, String): void

+ retrieveCinemaMovies(Cinema): List<Movie>

+ addMovie(Movie, Hall, LocalDateTime): void

+ retrieveShowTimeHallSeats(ShowTime): List<Seat>

+ retrieveMovieShowTimes(Movie, Cinema): List<ShowTime>

+ deleteBooking(Booking, User): void

+ addMovie(Movie): void

+ addSeat(Seat, Hall); void

+ login(String, String): User

+ addUser(User): void

+ addHall(Hall): void

deleteUser(User): void

+ addCinema(Cinema): void

+ rechargeAccount(User, long): void

- seatRepo: SeatRepository
- userRepo: UserRepository
- showTimeRepo: ShowTimeRepository

- instance: CinemaService
- movieRepo: MovieRepository
- + updateUser(User, String, String): void
- retrieveMovieShowTimes(Movie, Cinema): List<ShowTime>
- + login(String, String): User
- + getInstance(): CinemaService

- + retrieveBookings(User): List<Booking>
- + rechargeAccount(User, long): void
- + addMovie(Movie, Hall, LocalDateTime): void
- + pay(Booking, Booking?, User): void
- + addSeat(Seat, Hall): void
- + deleteBooking(Booking, User): void
- + addUser(User); void
- + retrieveCinemaMovies(Cinema): List<Movie>

- addShowTime(ShowTime): void
- + retrieveShowTimeHallSeats(ShowTime): List<Seat>
- + deleteUser(User): void

CinemaServiceImpl

- cinemaRepo: CinemaRepository
- bookingRepo: BookingRepository
- hallRepo: HallRepository

- + addCinema(Cinema); void
- + retrieveCinemas(): List<Cinema>
- + register(String, String): User

- + addHall(Hall): void
- + getInstance(CinemaRepository, HallRepository, MovieRepository, ShowTin
- encryptPassword(String): String
- addMovie(Movie): void