Model Class Diagram without Relationships, and with Attributes and Behaviour Movie Ticket Reservation App Group 5 <<entity>> <<entity>> <<entity>> <<entity>> <<entity>> <<entity>> Selection Theatre **Showtime** User Role Movie Seat -id: Integer -user: User -id: int -id: int -id: int -id: int -id: int | -title: String -date: String -firstName: String -selectedTheater: Theater -name: String -theaterId: int -name: String -lastName: String -selectedMovie: Movie -description: String -address: String -time: String -row number: int -selectedShowtime: Showtime -genre: String -theater: Theater -email: String -city: String -seat_number: int -selectedSeatsString: String[] -movie: Movie -address: String -rating: String -province: String -status: String -city: String -selectedTickets: ArrayList<Ticket> -releaseDate: String -postalCode: String ~selectedSeats: String[] -price: Double -card: Card -province: String -duration: String -phone: String +theaters: ArrayList<Theatre> -trailer: String email: String -postalCode: String -phone: String +showtimes: ArrayList<Showtime> -poster: String -website: String +seats: ArrayList<Seat> -password: String -status: String ~showTimes: ArrayList -defaultCard: Card -totalPrice: double -roles: HashSet<Role> -rolStrings: String[] +isEnabled(): boolean +getAuthorities(): Collection <<wrapper>> <<entity>> <<entity>> <<entity>> <<entity>> <<entity>> Response News **Ticket** Card Receipt -image: String -id: int -data: T -id: int -id: int -id: int -message: String -title: String -userld: int -userId: int -date: String -userId: int -success: boolean -theNews: String -price: Double -showtime: Showtime -cardNumber: String -time: String -offer: String -seat: Seat -cardHolderName: String -movieName: String -quantity: int -price: Double -expiryDate: String -theatreName: String -movie: Movie -status: String -cvv: String -userEmail: String -price: double ~tickets: ArrayList + method(type): type Controller Class Diagram without Relationships, and with Attributes and Behaviour <<control>> <<control>> <<control>> <<control>> **HomeController** MyNewsController RegisterController MyOffersController -dataStore: IDataStore ~dataStore: IDataStore ~dataStore: IDataStore ~dataStore: IDataStore +myNewsPage(model: Model): String +registerPage(model: Model): String +myOffersPage(model: Model): String +paymentPage(user: User, session: HttpSession, model: Model): String +home(model: Model): String +registerUser(myuser: User, session: HttpSession, model: Model): String +home2(model: Model): String +saverUser(model: Model, session: HttpSession, myselection: Selection): String +upcoming(model: Model): String +search(query: String, model: Model): String <<control>> <<control>> <<control>> <<control>> CheckoutController SelectionController AdminController LoginController ~dataStore: IDataStore ~dataStore: IDataStore ~dataStore: IDataStore ~dataStore: IDataStore ~emailService: EmailService +login(request: HttpServletRequest, model: Model): String +loginError(model: Model): String +showCheckoutPage(session: HttpSession, model: Model): String +buyTickets(session: HttpSession, model: Model, movield: int, mySelection: Selection): String +adminPage(model: Model): String +logout(model: Model): String +checkoutPage(session: HttpSession, model: Model): String +userInfo(session: HttpSession, model: Model, myselection: Selection): String +addUser(model: Model): String +addUser(user: User, model: Model): String +editUser(id: int, model: Model): String +editUser(user: User, model: Model): String +showAllMovies(model: Model): String +addMovie(model: Model): String +addMovie(movie: Movie, model: Model): String +deleteMovie(model: Model, id: int): String +deleteUser(model: Model, id: int): String +editRoles(model: Model, user: User): String <<control>> <<control>> MyTicketsController **PaymentController** ~dataStore: IDataStore ~dataStore: IDataStore +changePayment(model: Model, defaultCard: Card, session: HttpSession): String +myTicketsPage(model: Model): String +changePaymentPost(model: Model, card: Card, session: HttpSession): String Data Control Class Diagram without Relationships, and with Attributes and Behaviour <<interface>> <<control>> **IDataStore DataStore** -env: Environment -getStatement(): Statement -getPreparedStatement(query: String): PreparedStatement -getStatement(): Statement -checkSQLInjection(str: String): boolean -getPreparedStatement(query: String): PreparedStatement +registerUser(user: User): Response -checkSQLInjection(str: String): boolean +addUser(user: User): Response +registerUser(user: User): Response -checkEmailExists(email: String): boolean +addUser(user: User): Response +loginUser(email: String, password: String): Response -checkEmailExists(email: String): boolean +logoutUser(user: User): boolean +loginUser(email: String, password: String): Response +getAllMovies(): Response> +logoutUser(user: User): boolean +getAllShowingMovies(): Response> +getAllMovies(): Response> +getUpcomingMovies(): Response> +getAllShowingMovies(): Response> +getTheatersByMovie(movie: Movie): Response> +getUpcomingMovies(): Response> +getShowtimesByMovieAndTheater(movie: Movie, theater: Theater): Response> +getTheatersByMovie(movie: Movie): Response> +getSeatsByShowtime(showtime: Showtime): Response> +getShowtimesByMovieAndTheater(movie: Movie, theater: Theater): Response> +getUserByEmail(email: String): User +getSeatsByShowtime(showtime: Showtime): Response> -getUserRoles(user: User): Set +getUserByEmail(email: String): User +getMovie(movield: int): Response -getUserRoles(user: User): Set +getShowtimes(movield: int, theaterId: int): Response> +getMovie(movield: int): Response +getAllTheaters(movield: int): Response> +getShowtimes(movield: int, theaterId: int): Response> +getShowtime(showtimeId: int): Response +getAllTheaters(movield: int): Response> +getSeats(movield: int, showtimeld: int): Response> +getShowtime(showtimeld: int): Response +getSeat(seatId: int): Response 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+updateUserPayment(userId: int, card: Card): Response +processPayment(selection: Selection): Response +searchMovies(query: String): Response> +addMovie(movie: Movie): Response +processPayment(selection: Selection): Response +deleteMovie(id: int): Response +addMovie(movie: Movie): Response +deleteUser(id: int): Response +deleteMovie(id: int): Response +getAllUsers(): Response> +deleteUser(id: int): Response +getDefaultCard(id: int): Response +getAllUsers(): Response> +editRoles(user: User): Response +getDefaultCard(id: int): Response +getAllRoles(): ArrayList +editRoles(user: User): Response +getUser(id: int): Response +getAllRoles(): ArrayList +updateUser(user: User): Response +getUser(id: int): Response +getOffers(): Response> +updateUser(user: User): Response +getOffers(): Response> View Class Diagram without Relationships, and with Attributes and Behaviour <<body>
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