**\*\* bold means method may or may not be implemented inside the said class**

Application Class MOBLIMA

* (redirect to Application Class Login)

Class Cineplex - Bernard

* Cinema cinemas[]
* Movie movies[]
* Void newCinema()
* Movie createMovie() – called by Staff interface

Class Cinema - Bernard

* (Instantiated by Cineplex)
* String cinemaName
* String getName()
* MovieScreening screenings[]
* Enum cinemaClass = Platinum Movie Suites, Standard
* Seat[] createSeats()
* MovieScreening createScreening(time)
* **~~Movie createMovie()~~**
* **Movie editMovie()**
* **MovieTicket makeBooking() => +1 to sale volume, payment interface (eg. Pay by NETS, Visa etc. just ask the payment method, then redirect to successful purchase with ticket information), validate identity or age**
* **Int calcPrice()**
* Void showLayout()

Class Seat - JR

* (Instantiated by Cinema)
* String seatID
* Boolean occupied

Class MovieScreening - Oliver

* (Instantiated by Cinema)
* Movie movie => for calling this.movie.getTitle()
* Cinema cinema => for calling this.cinema.getName()
* Date screeningDay
* Boolean publicHoliday

Class Movie - JR

* (Instantiated by Cinema)
* Enum dimension = 2d or 3d
* Boolean blockbuster
* String title
* String getTitle()
* Enum status = Coming Soon, Preview, Now Showing, End of Showing
* Enum getStatus()
* String Synopsis
* String getSynopsis()
* String Director
* String getDirector()
* String[] Cast (actor,role)
* String[]getCast()
* String rating => PG, R13 etc.,
* Double getRating()
* String[] Review (reviewer,review,rating)
* String[]getReviews()
* Void movieQuery() => get review and ratings
* **Void editMovie()**
* Int saleVolume
* **Int getSaleVolume()**

Class MovieTicket - Oliver

* Main() -> Interface to make booking
* MovieScreening screening => get movie title, date of showing and cinema
* String TID (formatted)
* Int ticketPrice
* **Int calcPrice() => obtain info about cinema class, movie type, user age, holiday or not etc.**

Class User - WZ

* Main() => this method will run after a USER logged into MOBLIMA
  + Search/List movies
  + View movie details – including reviews and ratings
  + Check seat availability and selection of seats
  + Book and purchase ticket
  + View booking history
  + List top 5 movies
* String email
* String password => hashed before storing
* Int age
* String name
* *Object* writeReview() => (KIV) review after watching the movie only
* String mobileNumber
* **MovieTicket makeBooking()**

Class Staff - WZ

* Main() => this method will run after a USER logged into MOBLIMA
  + Create/Update/Remove movie listing
  + Create/Update/Remove cinema showtimes and movies to be shown
  + Configure system settings
* Staff use this.workplace.createMovie() to create a movie
* String email
* String password => hashed before storing
* Cineplex workplace
* **Movie editMovie(dimension, blockbuster, status)**
* **Int getSaleVolume()**
* Void listTopFive()
* Void listOverallRating(movie)
* Void configureSettings() => for eg. If holiday, increase price

Application Class Login - WZ

* Ask if user or staff
* Complete the login process, then send the user / staff into their interface classes
* And run the main() at the interface class
* User createUser()
* Staff createStaff()