tentwenty

TheMovieDb App

SOFTWARE DESIGN DOCUMENT

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Technologies Used :

- Native android development using Kotlin / JAVA
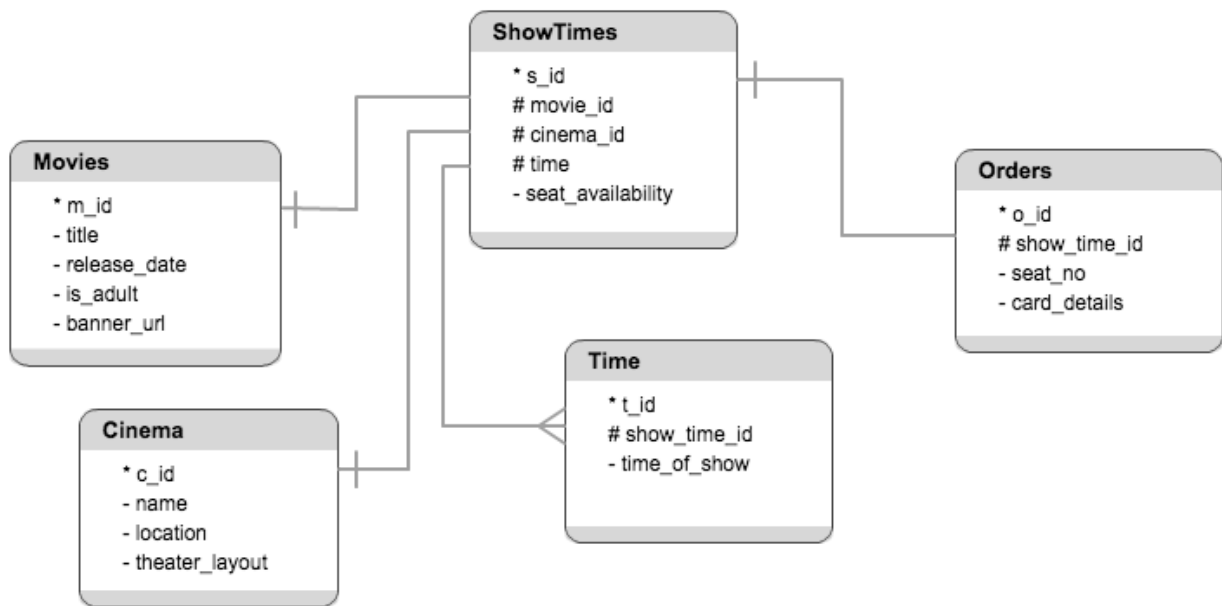
Design Pattern :

- Android MVC

Libraries Used :

- Mosby (MVP library) :
  To keep the per MVP modul short and to eliminate the extra boilerplate code required to write onConfiguration change of Activities.

- Dagger 2.0
  To support the Dependency Injection. Which eliminates the need of creating same objects again and again.

- Retrofit
  For handling the network requests like API calls.

- Room database
  To store the data persistently.

- RxAndroid
  To simply the asynchronous access pattern of the Room db. We have to separate Disk and Network request from the UI. which in term improves the app performance.

- Picasso
  An Image Loading library used for loading images from the network. Also improves the app memory management and speed by separating the bitmaps access inside app.

Database Design :

ShowTimes
* s_id
\# movie_id
\# cinema_id
\# time
- seat_availability

Movies
* m_id
- title
- release_date
- is_adult
- banner_url

Orders
* o_id
\# show_time_id
- seat_no
- card_details

Time
* t_id
\# show_time_id
- time_of_show

Cinema
* c_id
- name
- location
- theater_layout

Data flow diagram :

| View | Presenter | Interactor | Repository | Local or Remote |

Data flow diagram