Facts About Number

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What number says?

Numerus App: Numerus means number in latin. Want to know the information about number use Numerus app.

About Android Development:

Used Android material design, Dagger, Rxjava, RxAndroid, MVP architecture.

Modules:

- Dependency Injection
- MVP Architecture.
- Error Handling.
- UI

Dependency Injection:

I have used Dagger 2 library for dependency injection purpose

- Application Component: Complete applications and applevel dependencies are added here. Eg: Application context, OkHttpClient etc.
- Activity Component: Activity level injection implemented.
- Numerus Activity Component: This is the main class where we will use injection for our Activity and Fragment.
- NetworkModule: OKHttpClient object creation is done here and used inside Application component.

• NumerusModule: Retrofit API object is created using Okhttpclient.

MVP

- View: In this application Activity loads fragment and Fragment shows the home page. So Activity or fragment is called as Views.
- Presenter: "NumerusPresenter" class is used as presenter.
- Model: Here we don't want any model class as we are showing string data.

App Flow:

- App Launch: "Numerus App" is the application class, so this class will get executed first. Here I will be creating the Application component object which is required for DI.
- Numerus Activity: extents Simple Activity, which inturn extends Borrowing Activity.

 Borrowing Activity extends Base Activity.
- SimpleActivity: Used for Loading the Fragment. So Any activity if we create in future which uses fragment inside can extent SimpleActivity.
- BorrowingActivity: Basic butterknife injection and activity init done here.
- conti.....

- BaseActivity: Initializing the activity component is done here.
- NumerusActivity: After injection, giving the NumerusFragment for SimpleActivity for load.
- NumerusFragment: Is the only fragment used in the app where all application functionality is implemented here.

NumerusFragment

- Based on the Option selected(Basic or Advanced), number picker visibility is toggled.
- Category: Handles the category like Trivia, Math, etc
- Based on the combination of Type and Category number picker view will be displayed. For Basic type only category is shown. For Advanced type with "date" category, Edittext with shown, after checking edittext date picker pops up.
- Single retrofit API method is used to get the data based on user selection.

Extra Features:

- Implemented share functionality: User can share the fact which he feels to share with his friends.
- Error Handling: Implemented Error handling, Handled the connectivity error and sever errors.