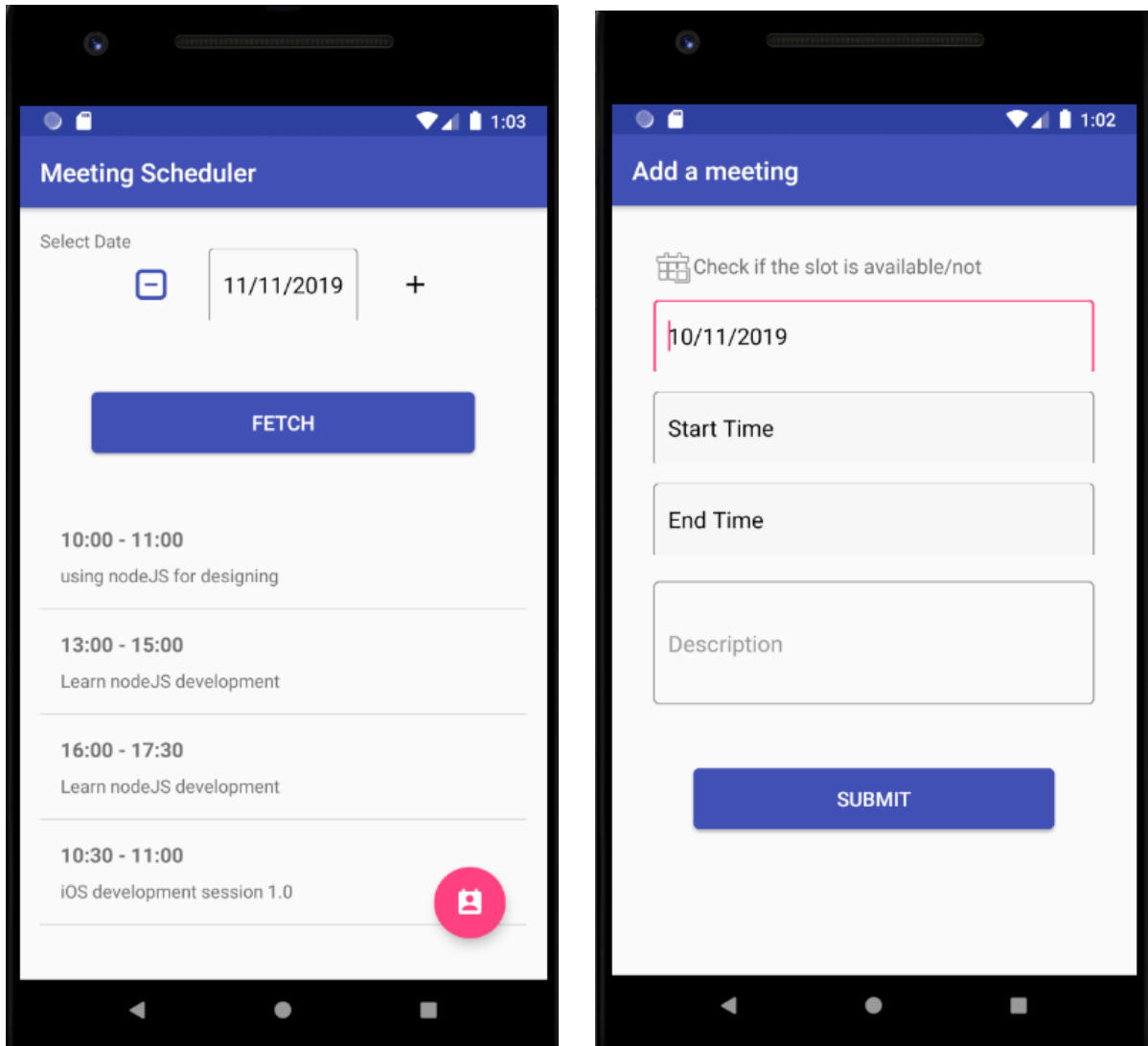


Meeting Scheduler



Introduction – The app has a very basic structure of data gathering from the API and sending it to the presentation layer. A flat structure is used to make things simple for two activities. MVP structure is used for this sample app, but also in the code folder you can see the glimpse of how MVVM can be implemented for the apps when scaled (HomeActivityViewModel.kt). For simple 2 activities, MVVM will be over-engineering architecture.

The structure is quite simple and can be scalable and compact at the same time.

UI/Presentation layer -> Network layer -> Service call -> UI update

For this if we will follow the latest Android JetPack Architecture and guidelines, following structure will be transformed to get the benefits of the ViewModel

UI/Presentation layer -> ViewModel -> LiveData and Repositories -> Business Layer -> Peripheral layer(Remote and storage) -> Core layer -> External entities

UI call – Followed the small usage of Material design in this app. Used recycler view, TextInputLayout and other widgets to demonstrate the concepts and guidelines. Also follow some material design principles(the dp and sp should be in multiples of 8, use of fab icon for the centric actions on the app etc.)

Screen design is made simple and can be re-arranged to make the reusable components and follow the Atomic Design methodology where an every UI component can be customized to match the business design specifications.

API assumptions – The api responds no meetings when the day is “Sunday”, so showing appropriate Toast for its usage.

Reactive programming – Demonstration of RxJava in place of Async API is done on HomeActivityViewModel.kt

What’s next- Will refactor this code to increase the performance issues both at the memory and battery level. Have checked Memory profiler and will update this.

Security – As the API is open, so right now for sample usage putted in the same file but for better usage will shift this to build gradle and make proguard and other things enable to make this a security complaint application.