# Week of April. 18th

This week, I met with my team to discuss our plans for our project.

Also, I started to anaylsis  the best state management approaches for our APP that we will build with Flutter SDK.

So, I read this article on Flutter website to find the best state management approaches for our APP project.

https://flutter.dev/docs/development/data-and-backend/state-mgmt/options

Below is a block diagram that explains how the application works with the server and database. As we see on the picture the red area explains how the app will design inside, and the software architectural pattern we will use is MVVM which has four main part first one view which has all the screen inside it, and the screen will connect with the View model which has all the business logic, and each business logic has ability to use any service that need. For example, the Web API service is responsible for communication on the server. The yellow area explains the way that the mobile app and server communicate (Restful API) with each other. Also, the blue area explains the software architectural pattern that we will use inside the backend side (server) which is MVC, and it has three main parts first one is the endpoints (view) that has all the http url requests. Second one is the controller which has the ability to link the view with the database. The last part is our Model. The model part will have the ability to connect with the Database developed by Node.js.

## Block Diagram