**Byte Wise Fellow Ship (Flutter)**

**Week 4+5+6+7  
Tasks: Interactivity + Assets + Navigation + Routing + Animations + Advanced UI**

**Interactivity:**

In Flutter, interactivity refers to the ability of users to interact with the user interface of a mobile or web application. Interactivity allows users to perform actions such as tapping buttons, scrolling lists, entering text, and navigating between screens.

You’ll add interactivity to an app that contains only non-interactive widgets. you’ll add interactivity to an app that contains only non-interactive widgets.

**Assets:**

Flutter apps can include both code and assets (sometimes called resources). An asset is a file that is bundled and deployed with your app, and is accessible at runtime. Common types of assets include static data (for example, JSON files), configuration files, icons, and images (JPEG, WebP, GIF, animated WebP/GIF, PNG, BMP, and WBMP).

**Navigation + Routing:**

Navigation and routing are some of the core concepts of all mobile application, which allows the user to move between different pages. We know that every mobile application contains several screens for displaying different types of information. For example, an app can have a screen that contains various products. When the user taps on that product, immediately it will display detailed information about that product.

In Flutter, the screens and pages are known as routes, and these routes are just a widget. In Android, a route is similar to an Activity, whereas, in iOS, it is equivalent to a ViewController.

**Advance UI**

Advanced UI in Flutter refers to the creation of complex and sophisticated user interfaces that go beyond the standard UI designs offered by Flutter's built-in widgets. Advanced UI designs typically require a high level of customization, creativity, and attention to detail.

Advanced UI in Flutter refers to the creation of custom, complex, and visually appealing UI designs that go beyond the standard UI designs offered by Flutter's built-in widgets. Flutter offers several tools and techniques that make it easy for developers to create advanced UI designs, including custom UI widgets, animations and transitions, custom painting, and layout constraints.

**Animations**

Animations are an essential part of building modern and engaging user interfaces in mobile applications. Flutter offers a powerful and flexible animation system that allows developers to create visually stunning animations with ease.

In Flutter, animations are created using the Animation class, which provides a simple and flexible way to define animations and specify how they should be updated over time. The Animation class is an abstract class that defines a range of values that the animation should interpolate between, along with a duration and curve that determines the speed and timing of the animation.