Flutter 6 months

- **Introduction**
  - **Git -VersionControlling**
  - **Dart Language Introduction**
  - **Flutter Introduction**
  - **Installation and Setup**
- **Dart**
  - **Datatypes and variables**
  - **Conditional statements and loops**
  - **Collection data types**
    - **List and Map**
    - **Create, add, and retrieve data from List and Map**
  - **Functions**
    - **Named and positional parameters**
    - **Return data from function**
  - **OOPs**
    - **Class**
    - **Objects and Constructors**
    - **Inheritance**
    - **Abstract**
    - **mixins**

- **Flutter**
  - **Introduction to Widgets**
    - **Widget tree, element tree, Keys**
  - **Material design package**
  - **Layout widgets,**
  - **Styling widgets and interactive widgets**
    - **Placement and Alignment widgets**
    - **Decoration widgets**
    - **Buttons and gesture widgets**
  - **Form widgets**
    - **Form input widgets**
    - **Form validation methods**
  - **Navigation and Routing**
    - **Multi-page application in flutter**
    - **Route and navigation in Flutter**
    - **Send data to the screen**
  - **Implementing external packages.**
  - **Persistent data(Shared preferences).**
    - **Asynchronous functions.**
    - **Storing and retrieving data into and from mobile device permanent storage.**

- ○ **API integration using HTTP**
    - ■ **Mapping data from JSON responses**
    - ■ **Fetching data from public APIs**
    - ■ **Sending data to public APIs**
- ○ **GPS**
    - ■ **Fetching coordinates and other GPS information.**
    - ■ **Fetching stream location data**
- ○ **Webview**
    - ■ **Google map as webview**
- ● **State management using third-party**
    - ○ **Connecting Provider class to Widget tree**
    - ○ **Listening to data change from the Provider class**
    - ○ **Managing data on Provider class**
- ● **Firebase**
    - ○ **Firebase authentication**
        - ■ **Email Password authentication**
    - ○ **Firestore database and Storage examples**
        - ■ **Firestore and storage demo**

PHP

1. HTML

- **Introduction and structure of HTML**
- **HTML Elements, Tags and Attributes**
- **HTML Image**
- **HTML Link**
- **HTML Div and Span**
- **Basic style using css**
- **HTML List**
- **HTML Table**
- **HTML Form**
- **HTML Media**
- **Iframe**
- **Marquee**
- **HTML5 Semantic Elements**

2.Bootstrap

- **Introduction to Bootstrap**
- **Button,table,card,carousel**
- **border,text,background,navbar**
- **Form,offcanvas,accordion,image**
- **flex,position,Responsive grid system**

3.PHP BASICS

- **Introduction**
- **XAMPP**
- **PHP Syntax**
- **Variables, Strings, Constants, Operators**

- **Control statements**
- **Function**
- **Session**
- **Http request methods**
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4.MYSQL

- **Introduction**
- **DBMS and RDBMS**
- **Database and Normalisation**
- **CRUD from MYSQL,DROP,TRUNCATE**
- **CRUD using query**
- **Create**
- **Insert**
- **Update**
- **delete**
- **SELECT,WHERE,LIKE**
- **ALTER queries**
- **Aggregate functions**
- **BETWEEN,AND,OR,IN,LIMIT,ORDER BY**
- **DISTINCT,ORDER BY,GROUP BY,UNION,SUB queries**
- **LEFT JOIN,RIGHT JOIN, INNER JOIN,CROSS JOIN**

5.Database and Programming

- **Connecting PHP and Mysql**
- **PHP Mysql Functions**
- **CRUD operations**
- **Authentication**
- **File uploading**
- **Template Loading**

6.Postman

- API CRUD
- API Authentication

7.Laravel

- Introduction
- Create project
- Migration
- Seeder
- Factories
- API crud
- Laravel sanctum