**FIREBASE**

**WHAT IS DATABASE?**

A database is organized collection of data stored and accessed electronically. Small databases can be stored on a file system, while large databases are hosted on computer clusters or cloud storage.

**WHAT IS DMBS?**

A database management system or (DBMS) is a software which interacts with end-user. A DBMS can be used to administer (i.e Create, Read, Update or Delete) the database.

Example: MS SQL, MYSQL, Oracle

**WHAT IS FIREBASE?**

Firebase is a platform created by Google in 2011 for web and mobile applications.

Firebase is categorized as a NoSQL database program, which stores data in JSON-like documents. Firebase is a full package that can help in developing your mobile or web applications faster with fewer resources and more efficiency.

Firebase provides tools and services for the backend of application. Some of its services are listed here;

* Cloud Firestore
* Cloud Functions
* Authentication
* Hosting
* Cloud Storage
* Google Analytics
* Predictions
* Cloud Messaging
* Dynamic Links
* Remote Config

**ADVANTAGES OF FIREBASE**

1. Ease of integration
2. Fast and Safe Hosting
3. Firebase testing services to improve app quality
4. Offers no cost tier

**TO INSTALL:**

* First install npm
* npm install -g firebase-tools

**TO INSTALL IN PROJECT:**

* firebase login
* dart pub global activate flutterfire\_cli
* Go to C:\Users\Username\AppData\Local\Pub\Cache\bin
* Copy path
* Add as path
* Open cmd in project folder
* flutterfire configure
* Enter project name
* Select project to configure
* Select device to configure
* Goto android folder in project
* Open build.gradle
* Add in dependencies > classpath 'com.google.gms:google-services:4.3.10'
* Goto app folder and open build.gradle
* Add following line > apply plugin: 'com.google.gms.google-services' with other apply plugin lines
* Add following plugins in main.dart

import 'package:firebase\_core/firebase\_core.dart';

import 'firebase\_options.dart';