**🔥 What is Firebase?**

**Firebase** is a Backend-as-a-Service (BaaS) platform by Google that provides a suite of tools for building and scaling web and mobile apps without managing backend infrastructure.

**✅ Core Features Used:**

1. **Firebase Authentication** – for user login/signup (email-password, Google, etc.)
2. **Firebase Storage** – to store and retrieve files like images, notes, or documents

**👩‍💻 What I Used in My Project (and What I Learned)**

**1. 🔐 Firebase Authentication**

You used **Firebase Auth** to allow users to **sign up, log in, and log out** securely.

**Features you likely implemented:**

* Email & Password Authentication
* Google Sign-in (optional)
* Auth state persistence (keeping user logged in)
* Accessing the logged-in user via onAuthStateChanged

**Example:**

import { createUserWithEmailAndPassword, signInWithEmailAndPassword } from "firebase/auth";

createUserWithEmailAndPassword(auth, email, password)

.then(userCredential => {

const user = userCredential.user;

console.log("Registered:", user.email);

})

.catch(error => {

console.error(error.message);

});

**2. 📁 Firebase Storage**

You used **Firebase Storage** to **upload and retrieve files** (e.g., documents, PDFs, images).

**Features you likely used:**

* Upload files from a form/input
* Get download URL for uploaded file
* Display/download files in your app