# DocTool: Firebase

## Introduction

Firebase is Google's mobile and web application development platform that provides backend services like:

- Realtime NoSQL database
- User authentication
- Cloud storage
- Hosting
- Analytics
- Machine learning APIs

It's particularly popular for rapid prototyping and serverless architectures.

## **Documentation**

Click- https://firebase.google.com/docs

## Installation & Usage

#### 1. How to install Firebase

For Node.js projects:



#### 2. How to create Firebase documentation?

- 1. Initialize Firebase in your project.
- 2. Use firebase-docs for auto-generation.

3. Deploy to Firebase Hosting.

#### 3. Source Code:

For firebase initialization-

#### 4. Produced Documentation:

Here are the documentation file created for the firebase initialization-

## Pros & Cons of Firebase-

### 1. Why Firebase?

- Real-time updates: Sync data instantly across clients.
- Scalability: Handles traffic spikes effortlessly.
- Authentication: Supports Google, Facebook, and email/password.
- Free tier: Generous limits for small projects.

### 2. Why Not Firebase?

- Cost: Pricing scales with usage (watch for read/write ops).
- Limited queries: No SQL-like joins or complex queries.
- Vendor lock-in: Migrating away requires significant effort.

Despite limitations, Firebase is ideal for rapid prototyping and full-stack apps.