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EXP 6

AIM: To connect Flutter UI with Firebase Database

Description:

Firebase is a Backend-as-a-Service (BaaS) platform by Google that provides tools like real-time databases, authentication, cloud storage, and more for building modern apps. It helps developers build secure, scalable apps quickly without managing backend infrastructure.

In my project Firebase is used to manage three collections (tables):

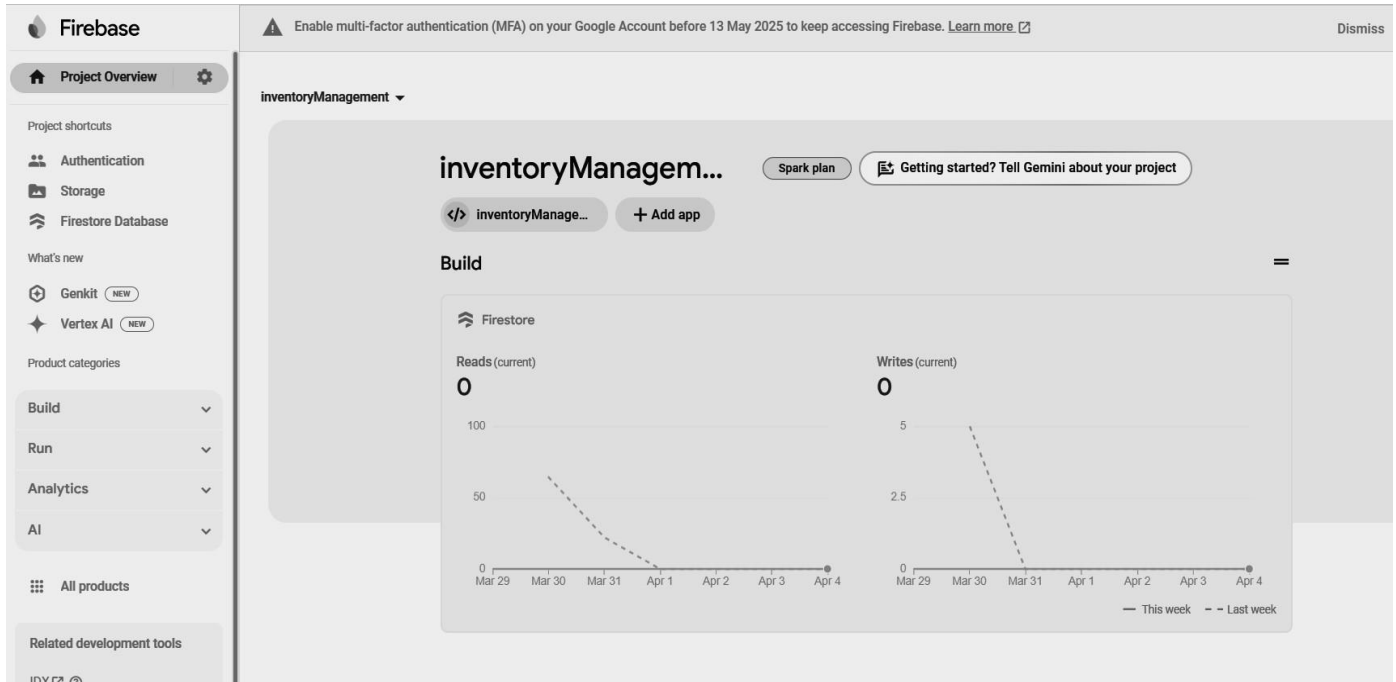
Orders – Stores order details placed by users.

Products – Contains product information such as name, price, and stock.

Users – Holds user profiles, authentication data, and other related info.

Firebase ensures real-time updates, secure data handling, and seamless integration with your Flutter app.

Screenshots:



The screenshot shows the Firebase console interface for a project named '1mmfpeAAYKtb'. The top right has a 'Panel view' and 'Query builder' toggle. The main content area shows a table with three columns: '(default)', 'products', and '1mmfpeAAYKtb1lo4cocA'. The 'products' column is expanded, showing a list of documents. The '1mmfpeAAYKtb1lo4cocA' column is also expanded, showing a detailed view of a document with fields: 'name: "Sony Bravia 43" 4K LED"', 'price: 2199', and 'timestamp: 16 March 2025 at 13:36:10 UTC+5:30'.

(default)	products	1mmfpeAAYKtb1lo4cocA
+ Start collection	+ Add document	+ Start collection
orders	1mmfpeAAYKtb1lo4cocA	+ Add field
products	90vvcARaRUt1L0RU9DQ	name: "Sony Bravia 43" 4K LED"
users	ALONMxZIXbLBHwFRaCg	price: 2199
	MNV0Dif15wMkx2v0jqQF	timestamp: 16 March 2025 at 13:36:10 UTC+5:30
	QjrL0pD0sr4qC0UejTZW	
	XjmAfLRNCnQ7ctUobyce	
	eWFfzhVLMHkDMjbcBr7f	
	jQSuzqL506QkSPn0tIN2	

Conclusion:

In this experiment, we successfully connected the Flutter UI with the Firebase Database. We integrated Firebase to store and manage data for users, products, and orders. This connection enabled real-time data updates and seamless backend support, demonstrating how Flutter and Firebase together provide a powerful solution for building dynamic and data-driven applications.