

Experiment 6	
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Grade	


**Aim:** To connect flutter UI with firebase database

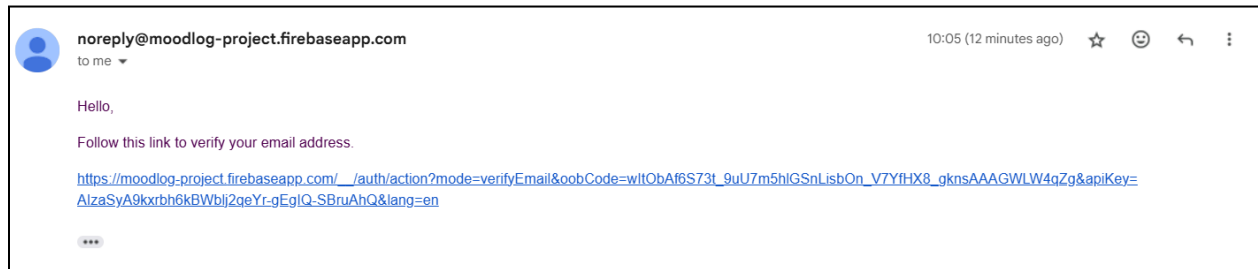
**Theory:**

- Connecting Flutter UI with Firebase Database allows the app to store, retrieve, and sync data in real time. In this app, user authentication is handled using Firebase Authentication and user health data is stored in the Firestore database.
- Signup and login functionality:
- Users register by entering their name, email ID, and password.
- Firebase Authentication is used to create and manage user accounts based on the provided email and password.
- After registration, a verification link is automatically sent to the user's registered email by Firebase Authentication to ensure the email address is valid.
- When the user clicks the verification link, their email status is updated. The system checks this verification status before allowing access to the login.
- After verification, the user can log in using their email and password, with Firebase Authentication validating the credentials.
- Users who have logged in are stored.
- All health-related updates or tips given by the admin are stored and made available to users.

## Output:

### Email verification:

Identifier	Providers	Created ↓	Signed in	User UID
2022.shubham.jha@ve...		17 Mar 2025	17 Mar 2025	ZWz27FWhibC6Tq1TRB...






### Entries stored in firestore database:

Project Overview		Authentication				
Project shortcuts		Users   Sign-in method   Templates   Usage   Settings   Extensions				
Authentication						
What's new						
App Distribution						
Genkit						
Vertex AI						
Product categories						
Build						
Run						
Analytics						
AI						
All products						
Related development tools						
Firebase Studio						
Checks						

The following authentication features will stop working when Firebase Dynamic Links shuts down on 25 August 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps.

Search by email address, phone number or user UID

Add user

Identifier	Providers	Created ↓	Signed in	User UID
2022.shubham.jha@ve...		17 Mar 2025	17 Mar 2025	ZWz27FWhibC6Tq1TRBNiccq...
2022.sairam.konar@ve...		17 Mar 2025	17 Mar 2025	hgoUthCpAahs006PnqcvfgP3...
chaudhari.chinmay123...		17 Mar 2025	17 Mar 2025	znLrqCw6YkSrl7HKCt5hkhVt...

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## Conclusion:

By connecting Flutter UI with Firebase Database, the app achieves real-time data management and secure user authentication. Using Firebase Authentication ensures safe login and registration, while Firestore enables efficient storage and retrieval of user data. This integration simplifies backend operations and enhances the responsiveness and interactivity of the Flutter application.