

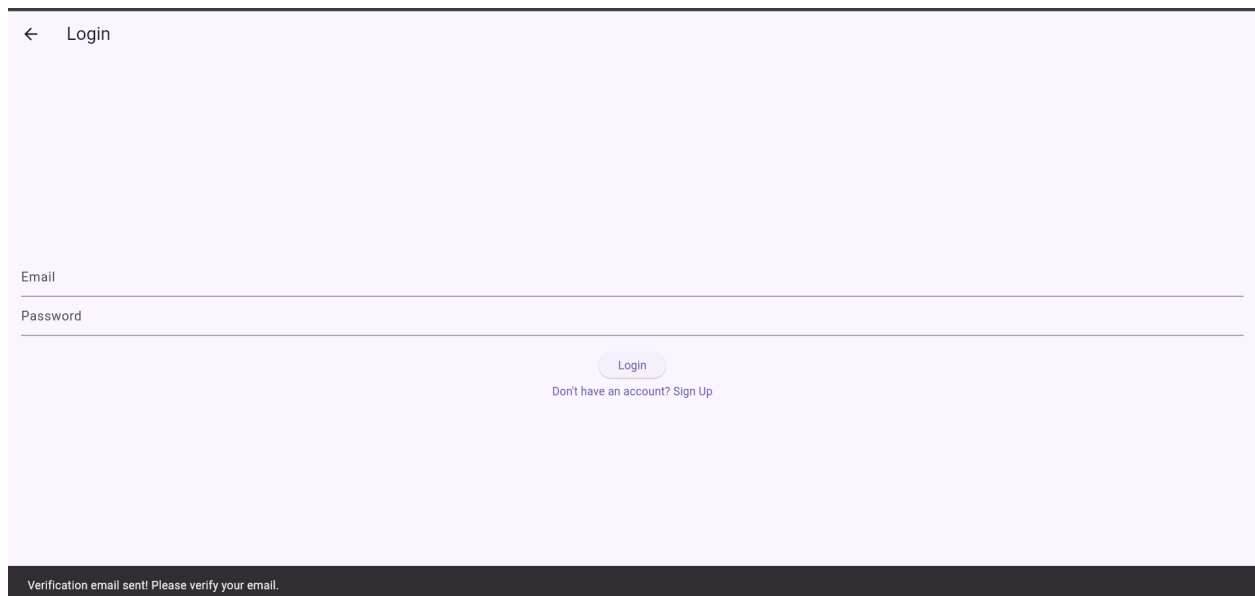
Experiment 6

Aim: To connect Flutter UI with FireBase database.

GitHub link: https://github.com/Ishan2611/News_Edge

Description: This experiment focuses on integrating Firebase with a Flutter application to store and retrieve real-time data. It involves configuring Firebase for the Flutter project, setting up the necessary packages, and writing code to handle CRUD operations. In this app, users can add income entries by entering details such as name, amount, date, category, and whether the income is recurring. Upon submission, the data is sent to Firebase and displayed instantly in the app's UI along with updated total and graphs. This ensures smooth data synchronization between the backend and frontend.

Output:

The screenshot shows a login screen with a light purple background. At the top left, there is a back arrow and the text "Login". Below this, there are two input fields: "Email" and "Password". A "Login" button is centered below the password field. Below the button, there is a link that says "Don't have an account? Sign Up". At the bottom of the screen, there is a dark grey banner with the text "Verification email sent! Please verify your email."

This is my Form and once the user fills out the form the information gets stored in the firebase.

The screenshot shows the Firebase Authentication console for project 'news-appd15c21'. The left sidebar contains navigation options like 'Project Overview', 'Authentication', 'App Check', 'Genkit', and 'Vertex AI'. The main area displays a table of users with columns for Identifier, Providers, Created, Signed in, and User UID. A search bar at the top allows filtering by email, phone number, or user ID. A warning message at the top indicates that certain authentication features will stop working on August 25, 2025.

Identifier	Providers	Created	Signed in	User UID
ishanjoshi2604@gmail...	📧	6 Apr 2025	6 Apr 2025	Mp2HrQzrYERqR6yAtzR0t6hL...
2022.vedant.dhoke@ve...	📧	17 Mar 2025	17 Mar 2025	QhCNCeU1QKtIFBh3niHEezm...
2022.shiven.bansal@ve...	📧	25 Feb 2025	25 Feb 2025	y3H0QG7kWJTcf68N6tsid84w...
ishan261107@gmail.co...	📧	24 Feb 2025	6 Apr 2025	5wKL671LCnViri8zW8I9wOSn...

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This is the recorded data in the Firebase.

Conclusion: By connecting Flutter with Firebase, we achieved seamless real-time data storage and retrieval. Income entries were successfully added from the app and reflected instantly in the UI with updated values and graphs, enhancing both functionality and user experience.