

Firestore Authentication and Firestore CRUD Operations

Instructions:

Setup Firebase Project:

- Create a new Firebase project on the Firebase console.
- Enable Firebase Authentication and Firestore for the project.

Create an HTML/CSS page for a user management and authentication

- Use sign-in, sign-up and user page.
- Inside sign-in page you should have the ability to sign in - for [example](#)
- Inside sign-up page you should have the ability to sign up - for [example](#)
- Inside the users page you should have the ability to display registered users and delete them - for [example](#)

Implement User Authentication:

- Use Firebase Authentication to implement user sign-up, sign-in, and sign-out functionalities.
- Allow users to create a password during sign-up.

Implement Firestore CRUD Operations:

- Create a Firestore collection named 'users'.
- Implement CRUD operations to manage users:
 - Create a user document with fields: Id, Name, Email, and Password (optional).
 - Read a user document using their Id.
 - Delete a user document using their Id.

Additional Guidelines:

- Use Firebase's built-in UID generation for creating unique Ids for users.
- When reading, updating, or deleting a user, use only their Id for identification.
- Utilize Firebase Security Rules to control access to Firestore collections.

Additional Resources:

- Firebase Documentation: <https://firebase.google.com/docs>
- Firebase Authentication Guide: <https://firebase.google.com/docs/auth>
- Firestore Documentation: <https://firebase.google.com/docs/firestore>

Notes:

- Ensure participants have access to Firebase console and necessary development environments.
- Encourage participants to refer to official Firebase documentation for detailed implementation steps.
- Provide assistance and guidance as needed during the exercise