Full Stack Development

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11 - Add Firebase SDK with Auth

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Add Firebase SDK with Auth Handlers

1. Create a Firebase Web App

Navigate to **https://console.firebase.google.com/**
and within the project you previously created.

Click the Gear icon next to `Project Overview` and click `Project Settings`.

Navigate to the bottom of the page, and in the `Your apps` section. Click the `</>` button, which will create a new firebase web app for our project.

> Alternatively, we could've created an ios or android app, but we will be using the web app for this course.

Enter a name for the app, and click `Register app`.

2. Add Firebase SDK to our Next.js App

Create a `firebase` directory within the `app` directory, and create a file called `firebase.ts` within it.

```
// Import the functions you need from the
SDKs you need
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup,
GoogleAuthProvider, onAuthStateChanged, User
} from "firebase/auth";


// Your web app's Firebase configuration
const firebaseConfig = {
  apiKey: "your apiKey",
  authDomain: "<your authDomain",
  projectId: "<your projectId",
  appId: "<your appId>"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
```

```
const auth = getAuth(app);

/**
 * Signs the user in with a Google popup.
 * @returns A promise that resolves with the
user's credentials.
 */
export function signInWithGoogle() {
  return signInWithPopup(auth, new
GoogleAuthProvider());
}

/**
 * Signs the user out.
 * @returns A promise that resolves when the
user is signed out.
 */
export function signOut() {
  return auth.signOut();
}

/**
 * Trigger a callback when user auth state
changes.
 * @returns A function to unsubscribe
callback.
 */
export function
onAuthStateChangedHelper(callback: (user:
User | null) => void) {
  return onAuthStateChanged(auth, callback);
}
```