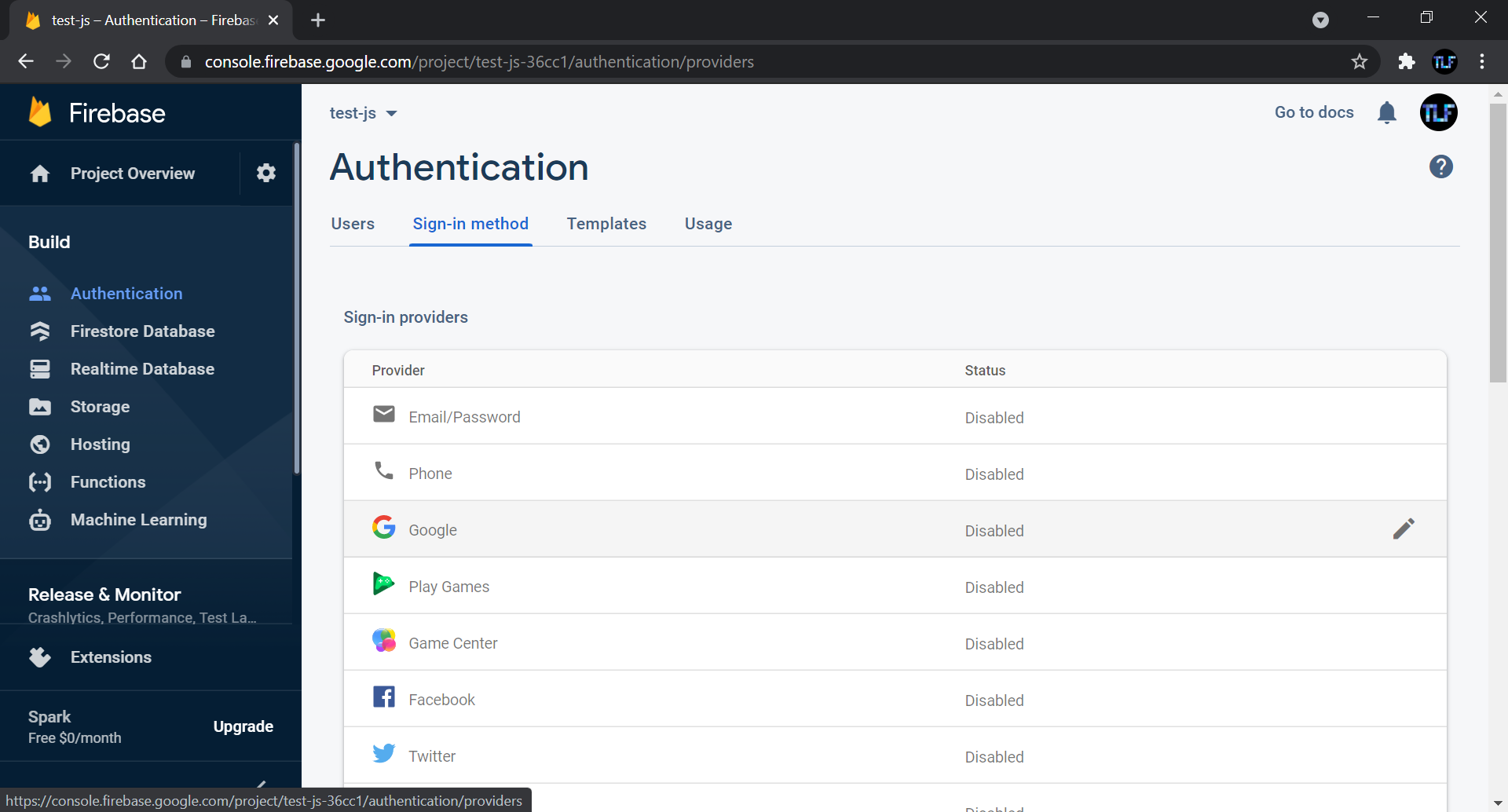
# Create index.html

1. Create index.html
   1. Setup Firebase configuration code in index.html
   2. Add buttons for login and logout.
   3. Add heading 1 to display user name and email

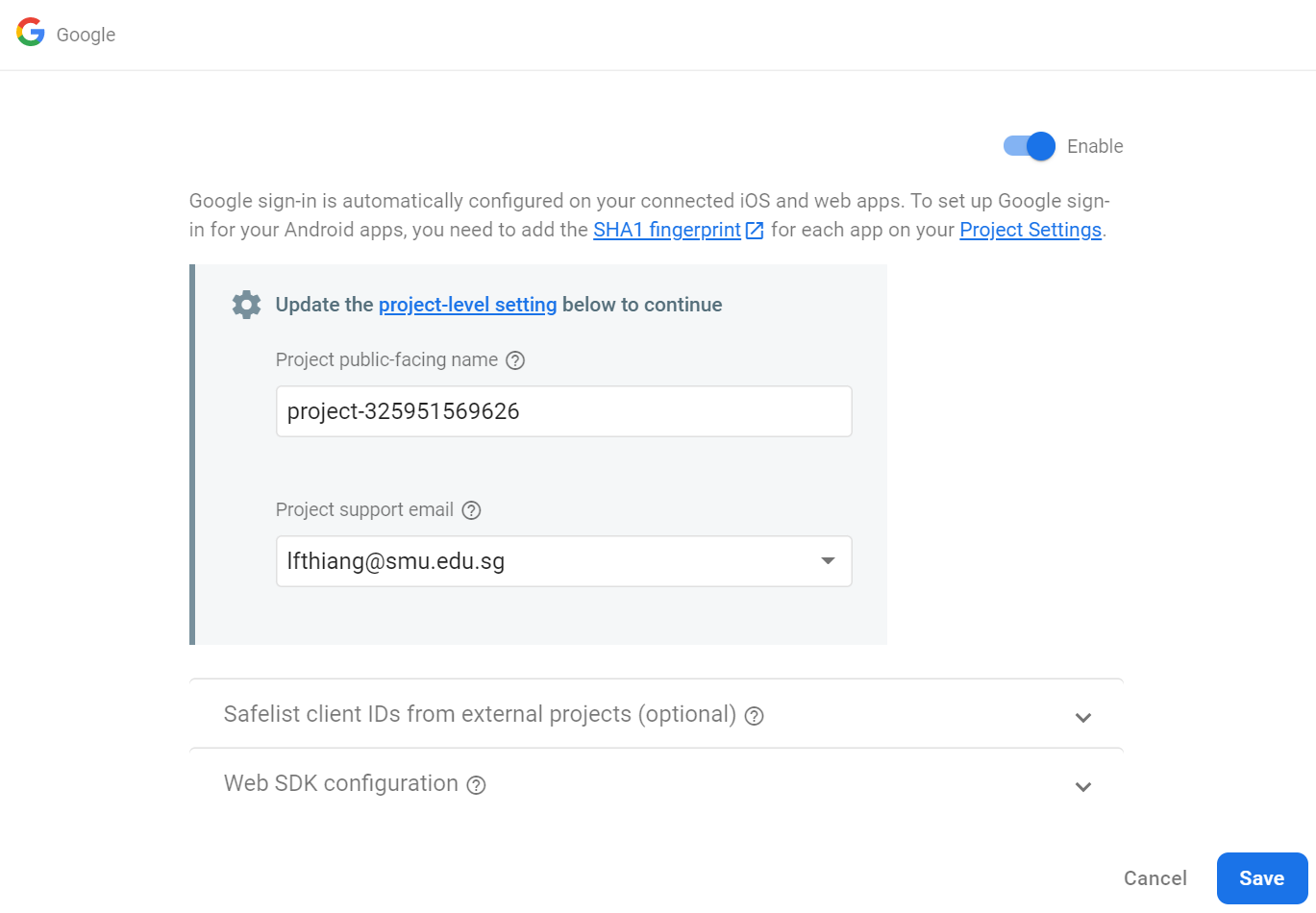
| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta http-equiv="X-UA-Compatible" content="IE=edge">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Firebase JS</title>  </head>  <body>  <button id='btnLogin'>Login</button>  <button id='btnLogout'>Logout</button>  <hr>  <h1 id='login'></h1>  <script type="module">  // Import the functions you need from the SDKs you need  import { initializeApp } from "https://www.gstatic.com/firebasejs/9.0.2/firebase-app.js";  // TODO: Add SDKs for Firebase products that you want to use  // https://firebase.google.com/docs/web/setup#available-libraries  // Your web app's Firebase configuration  const firebaseConfig = {  apiKey: "\*\*\*duntellyou\*\*\*",  authDomain: "test-js-36cc1.firebaseapp.com",  projectId: "test-js-36cc1",  storageBucket: "test-js-36cc1.appspot.com",  messagingSenderId: "325951569626",  appId: "1:325951569626:web:7e4684f0544cac68202fe3",  };  // Initialize Firebase  const app = initializeApp(firebaseConfig);  </script>  </body>  </html> |
| --- |

# Enable Google authentication

1. Firebase console > left pane > Authentication > ‘Sign in Method’ tab



1. Mouseover the row with Google > click 
   1. Enable
   2. Fill in the details
   3. Save



1. Google should be shown as Enabled.



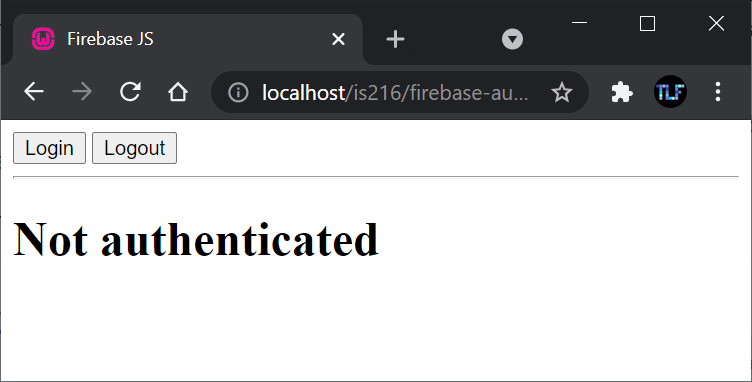
# Add authentication code to index.html

1. Add the following authentication code to index.html. Read the comments for details.

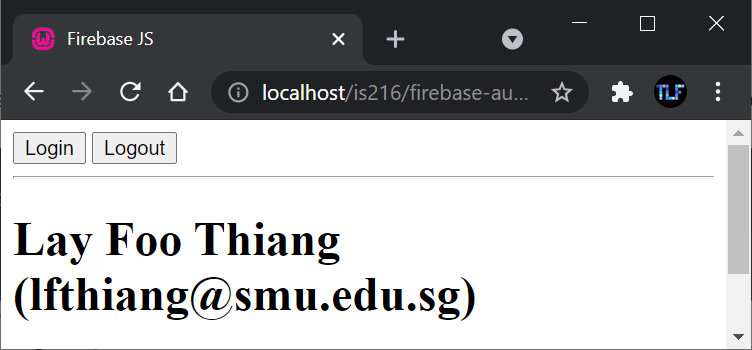
| /\* AUTHENTICATION CODE: START \*/  import { getAuth, onAuthStateChanged, signInWithPopup, signOut, GoogleAuthProvider } from "https://www.gstatic.com/firebasejs/9.0.2/firebase-auth.js";  const provider = new GoogleAuthProvider();  const auth = getAuth();  var loginUser = false;  // when authentication status changed  onAuthStateChanged(auth, (user) => {  if (user) {  // User is signed in, see docs for a list of available properties  // https://firebase.google.com/docs/reference/js/firebase.User  const uid = user.uid;  // ...  loginUser = user;  document.getElementById('login').innerText = `${user.displayName} (${user.email})`;    } else {  // User is signed out  // ...  loginUser = false;  document.getElementById('login').innerText = 'Not authenticated';  }  });  // login  document.getElementById('btnLogin')  .addEventListener('click', function () {  signInWithPopup(auth, provider)  .then((result) => {  // This gives you a Google Access Token. You can use it to access the Google API.  const credential = GoogleAuthProvider.credentialFromResult(result);  const token = credential.accessToken;  // The signed-in user info.  const user = result.user;  // ...  loginUser = user;  }).catch((error) => {  // Handle Errors here.  const errorCode = error.code;  const errorMessage = error.message;  // The email of the user's account used.  const email = error.email;  // The AuthCredential type that was used.  const credential = GoogleAuthProvider.credentialFromError(error);  // ...  console.log(error);  });  });  // logout  document.getElementById('btnLogout')  .addEventListener('click', function () {  signOut(auth).then(() => {  // Sign-out successful.  loginUser = false;  }).catch((error) => {  // An error happened.  console.log(error);  });  });  /\* AUTHENTICATION CODE: END \*/ |
| --- |

# Test/view index.html

1. Place the index.html on a web server (e.g. WAMP). It will not work if you open the HTML file directly from your file system.



1. Click login and Google sign in window pops up. Login with your Google account.
2. After a successful login,



1. Click logout to test.

# A complete sample with database read

A sample [firebase-auth.html](https://drive.google.com/file/d/1HsPTN1--zXXN0LgZo2-lje0J5b00GJ6e/view?usp=sharing) with authentication and database reading can be downloaded from [here](https://drive.google.com/file/d/1eeWJTQ4bXxh9yPOQQHGuHbkeu8pkq7W2/view?usp=sharing).

* You will need to replace the relevant code from your firebase project/app.
* Remember to access the file from a web server (e.g. WAMP) if you wish to test your code.

# References

* Official documentation:
  + Google sign in for web application: <https://firebase.google.com/docs/auth/web/google-signin>
  + Get current sign-in user: <https://firebase.google.com/docs/auth/web/manage-users#get_the_currently_signed-in_user>
  + Sign out: <https://firebase.google.com/docs/auth/web/password-auth#next_steps>
* I’m using ‘Web Version 9 (modular)” code.
* **Important note:** For the above, replace all your import lines to use 'https://www.gstatic.com/firebasejs/9.0.2/firebase-auth.js'  
  E.g.  
  import { getAuth, onAuthStateChanged, signInWithPopup, signOut, GoogleAuthProvider} from ~~"firebase/auth"~~ "[https://www.gstatic.com/firebasejs/9.0.2/firebase-auth.js](https://www.gstatic.com/firebasejs/9.0.2/firebase-database.js)";