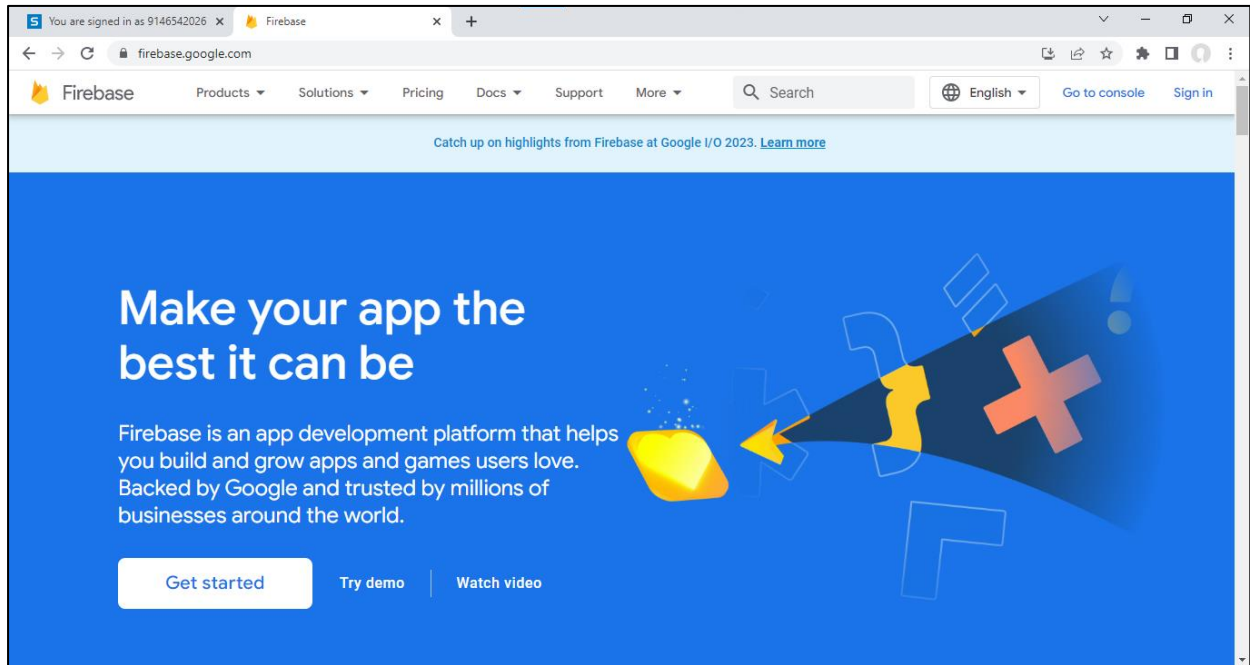


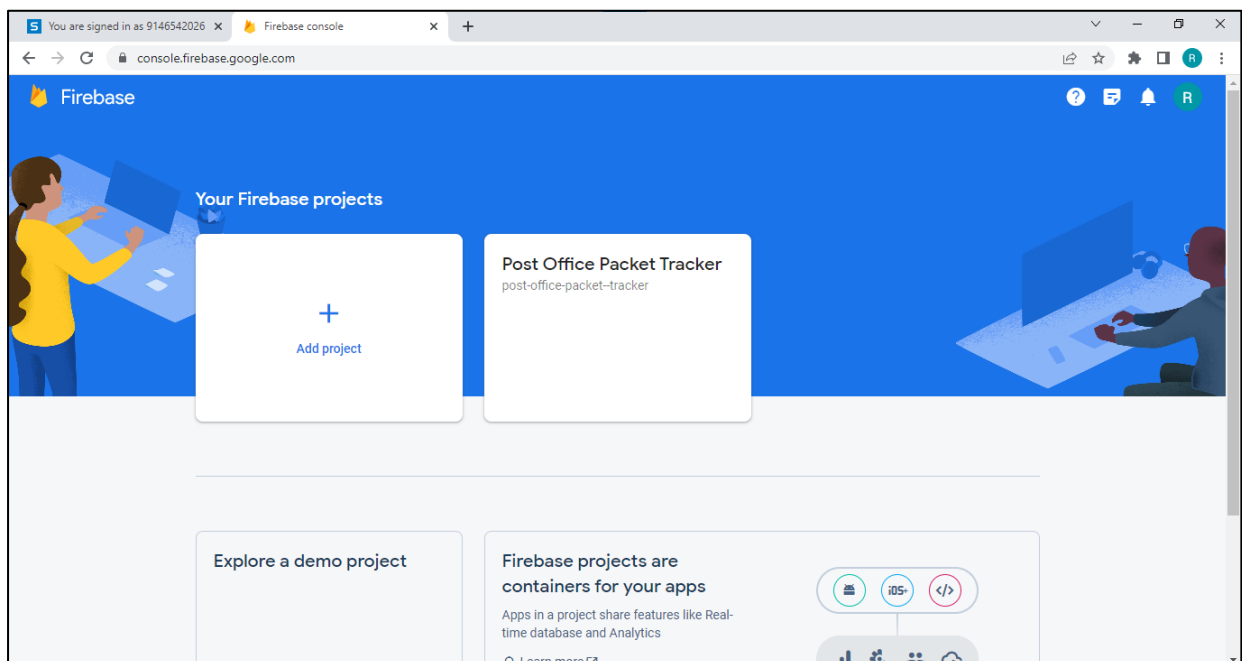
OUTPUTS:

1] Create an account on firebase

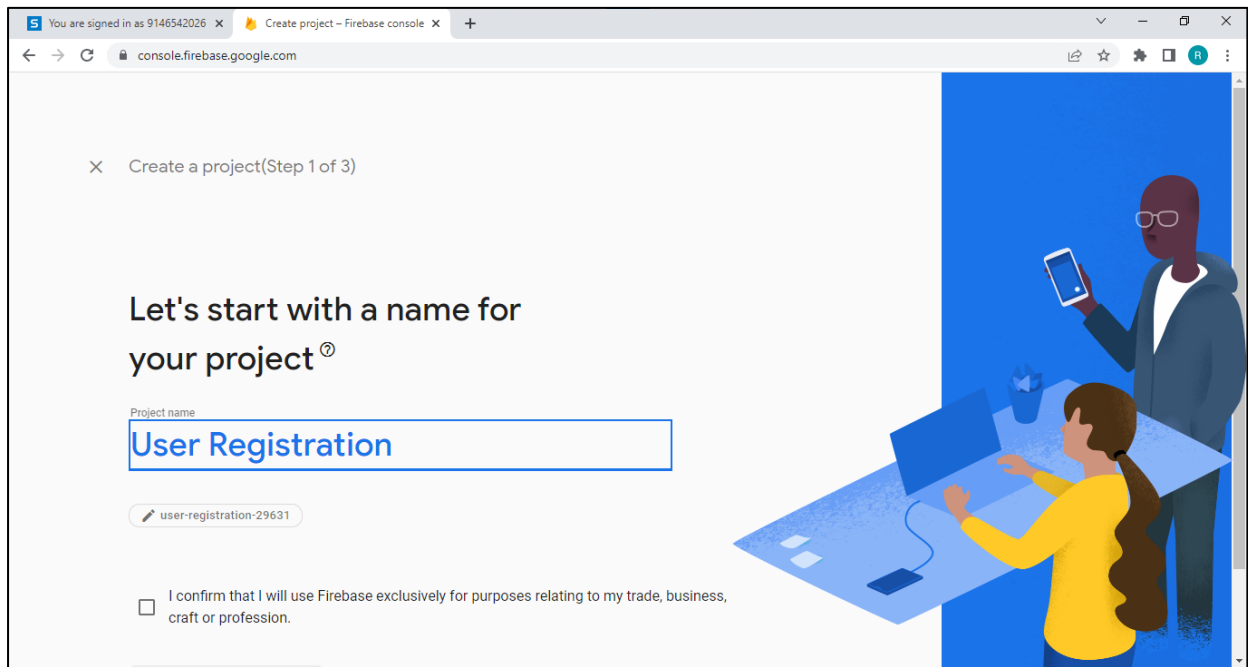
2] After finishing with the signup part you will see this screen, simply click on “Go to console” button.



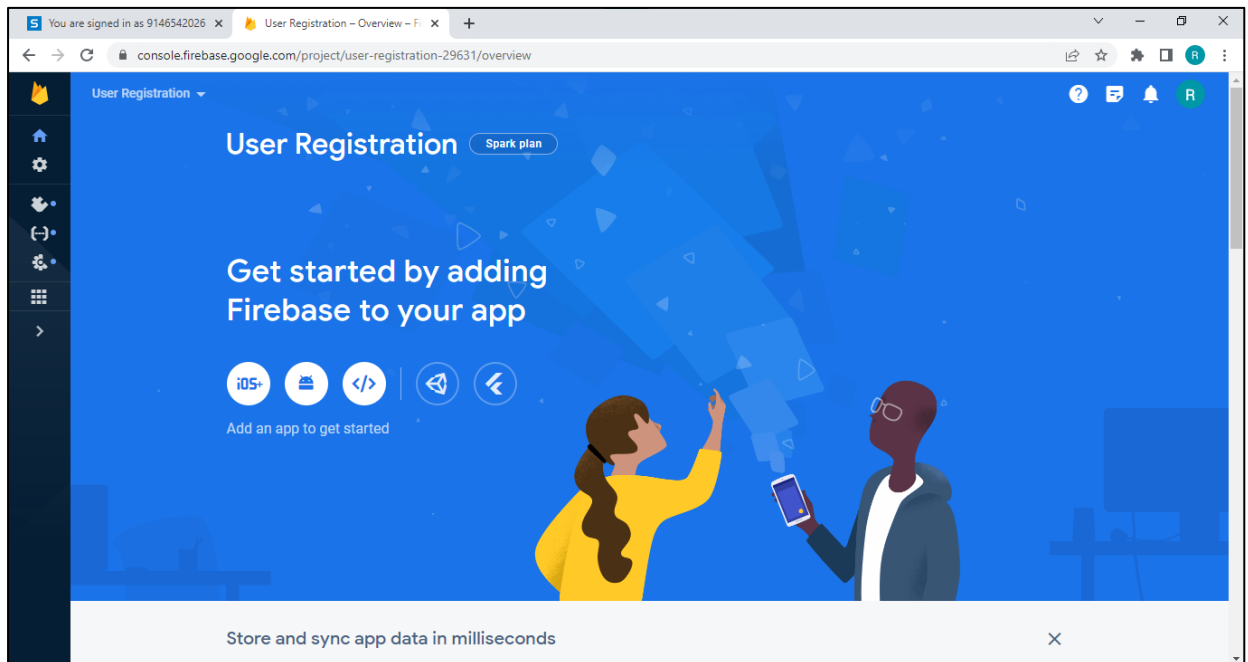
3] Click on Add project component to add a new project



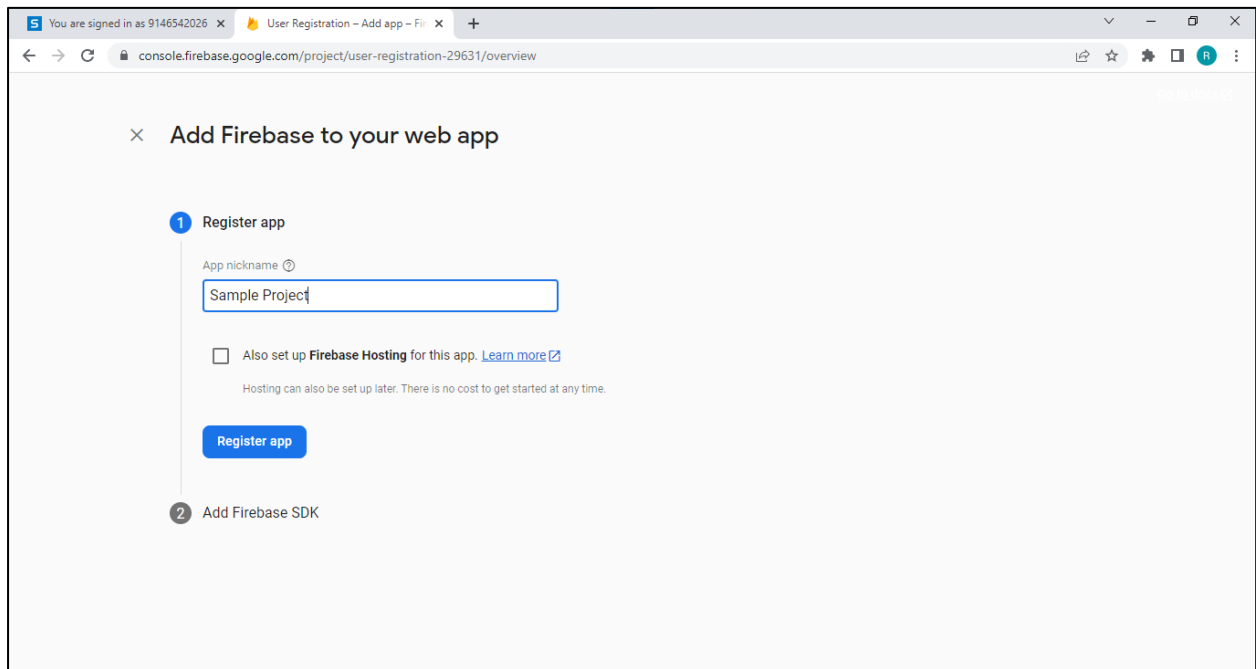
4]Enter you project name and click on continue, In the next screen it will say to enable the analytics but the analytics is not needed to our project so you can disable it and click on next.



5]After that this type of screen will be appeared there you can see the web icon (</>) simply click on it.



6] Fill the necessary details and click on register app there you will get the credentials and api keys for our application scroll down and click on continue to console.



Add Firebase to your web app

1 Register app

App nickname ⓘ

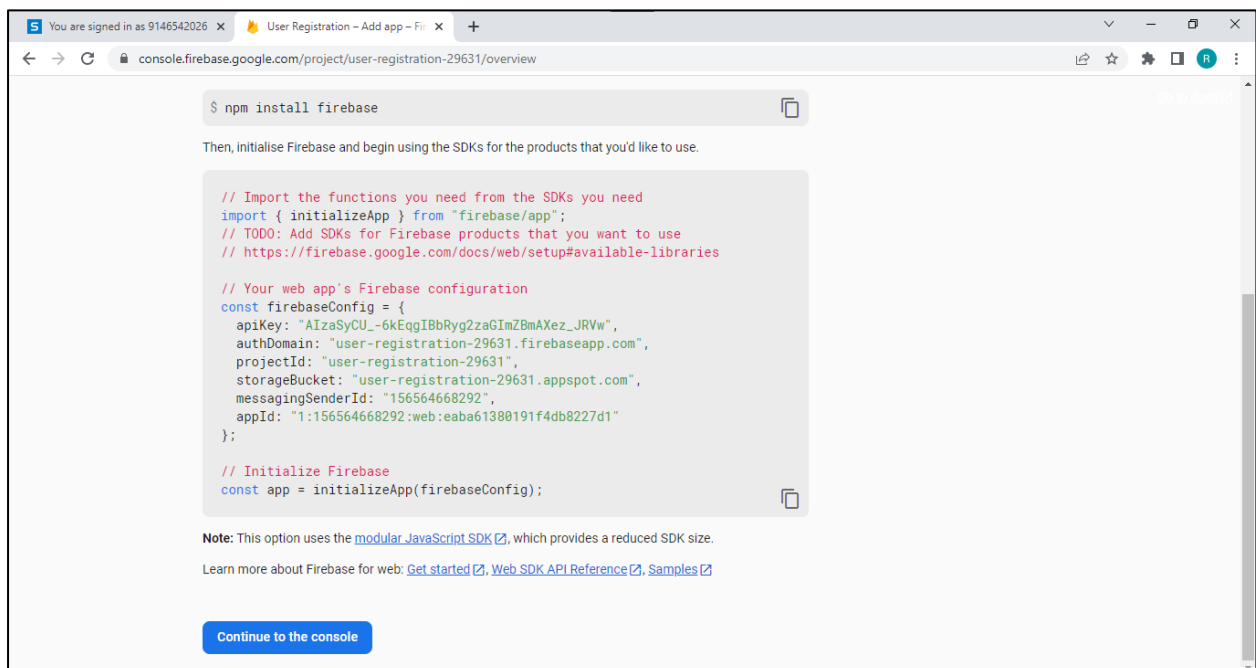
Sample Project

☐ Also set up **Firebase Hosting** for this app. [Learn more](#) ⓘ

Hosting can also be set up later. There is no cost to get started at any time.

Register app

2 Add Firebase SDK



\$ npm install firebase

Then, initialise Firebase and begin using the SDKs for the products that you'd like to use.

```
// Import the functions you need from the SDKs you need
import { initializeApp } from "firebase/app";
// 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: "AIzaSyCU_-6kEqgIBbRyg2zaGImZBmAXez_JRVw",
  authDomain: "user-registration-29631.firebaseio.com",
  projectId: "user-registration-29631",
  storageBucket: "user-registration-29631.appspot.com",
  messagingSenderId: "156564668292",
  appId: "1:156564668292:web:eaba61380191f4db8227d1"
};

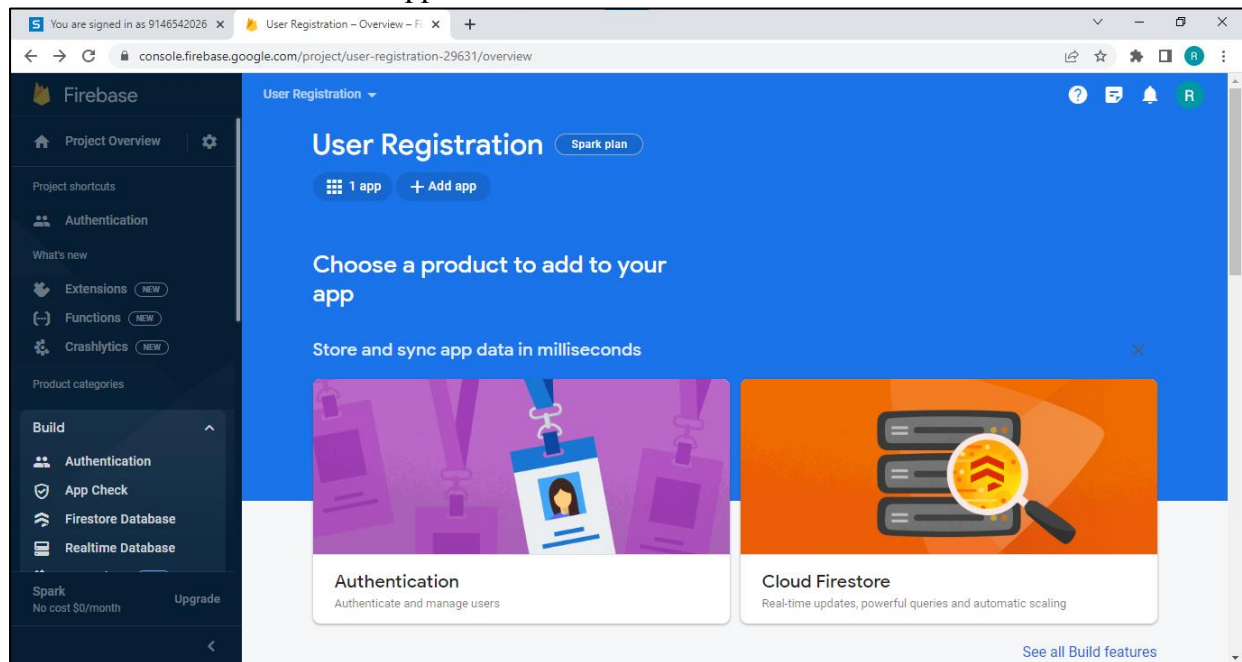
// Initialize Firebase
const app = initializeApp(firebaseConfig);
```

Note: This option uses the [modular JavaScript SDK](#) ⓘ, which provides a reduced SDK size.

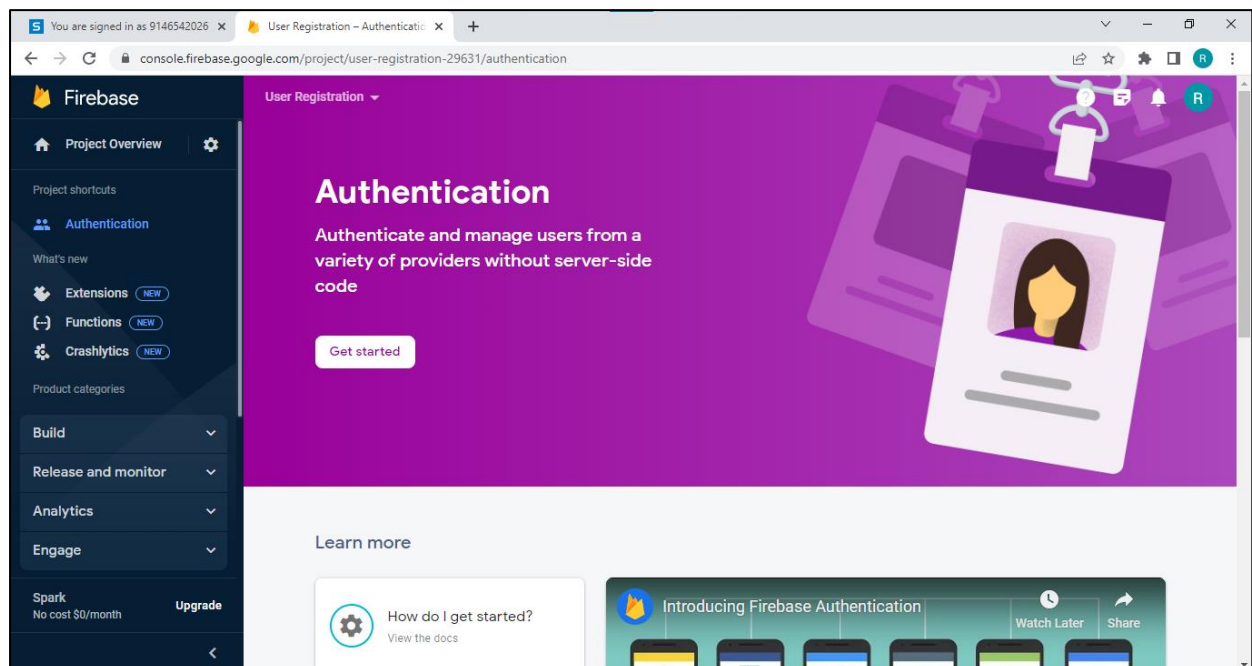
Learn more about Firebase for web: [Get started](#) ⓘ, [Web SDK API Reference](#) ⓘ, [Samples](#) ⓘ

Continue to the console

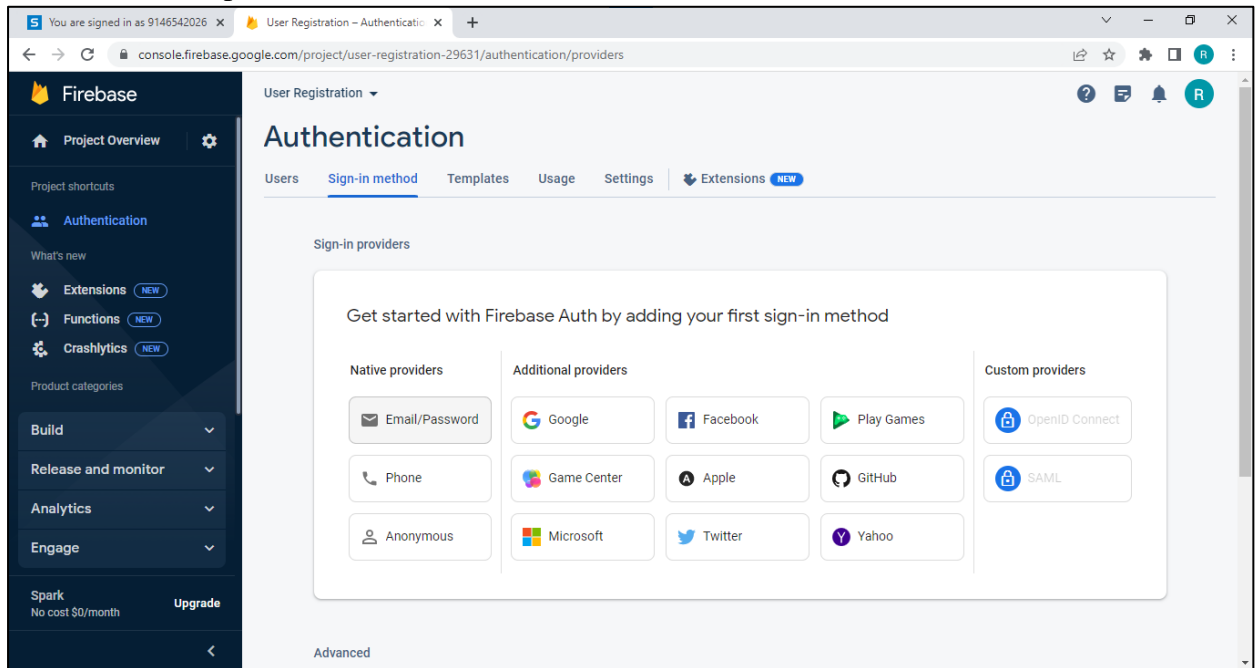
7] On this page click on the build section and click the authentication part. This will add the authentication services to our application



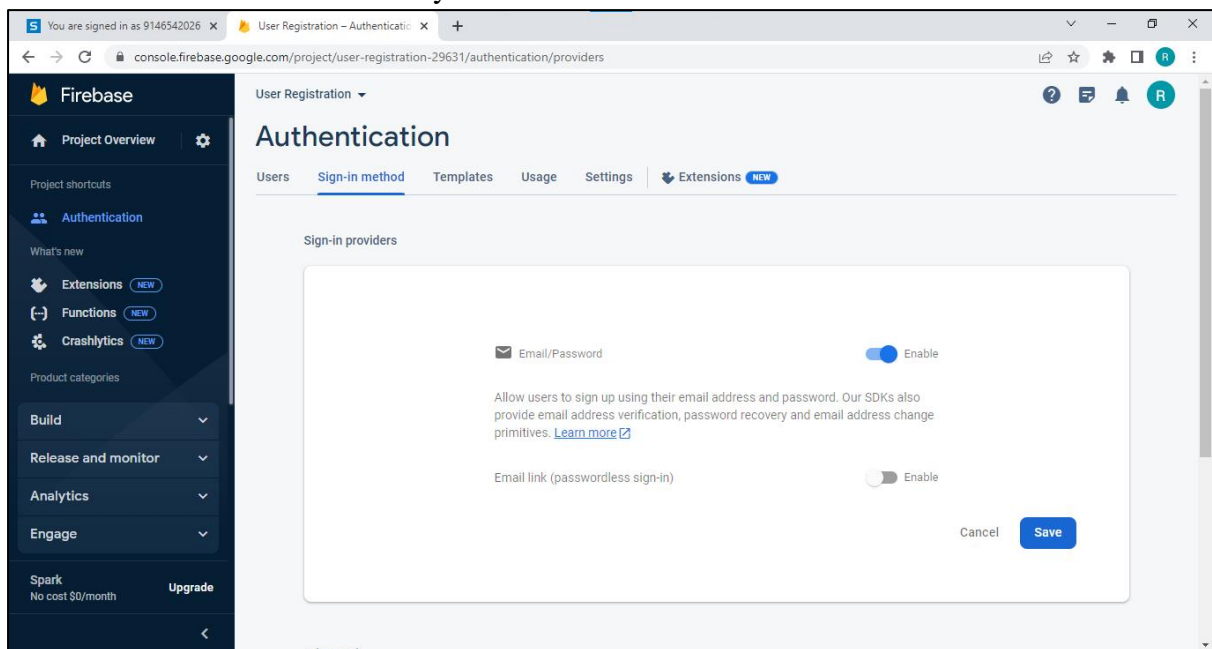
Click on get started.

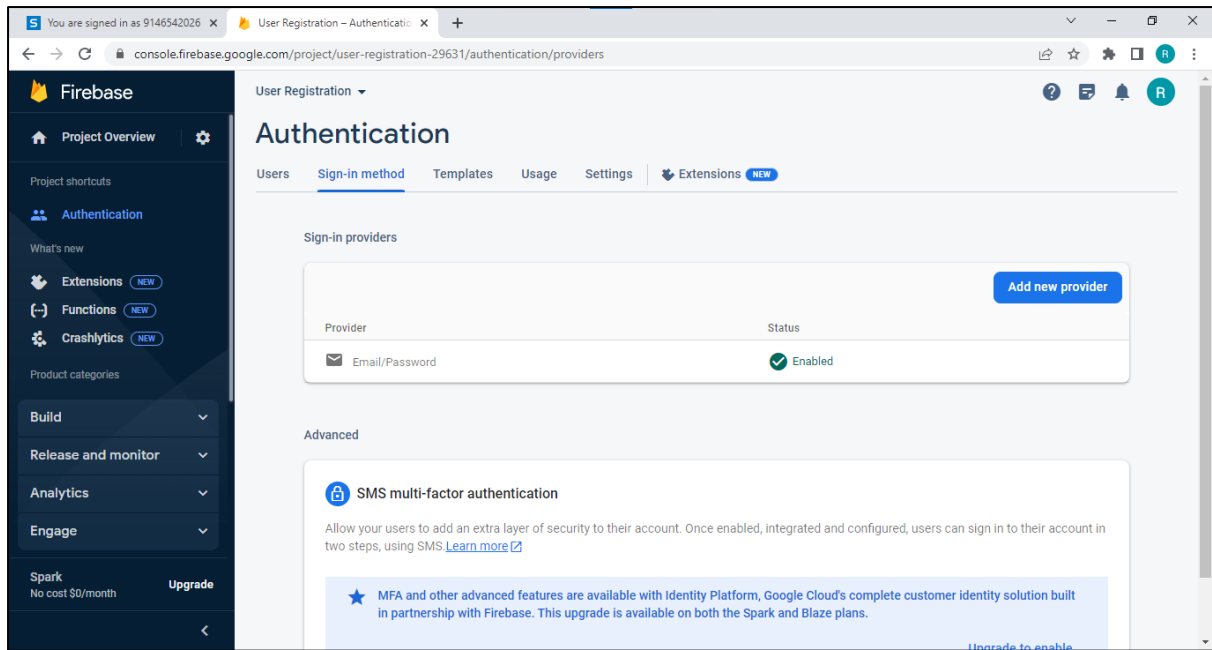


Select email and password

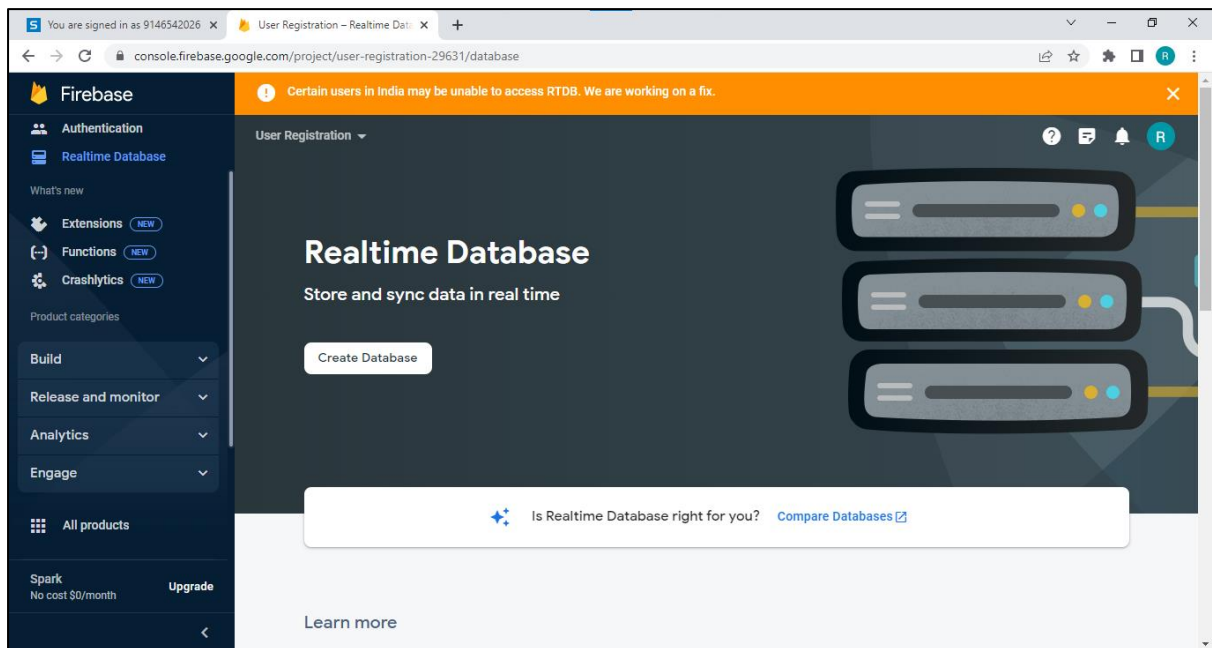


Disable email links and save and your email services will be added

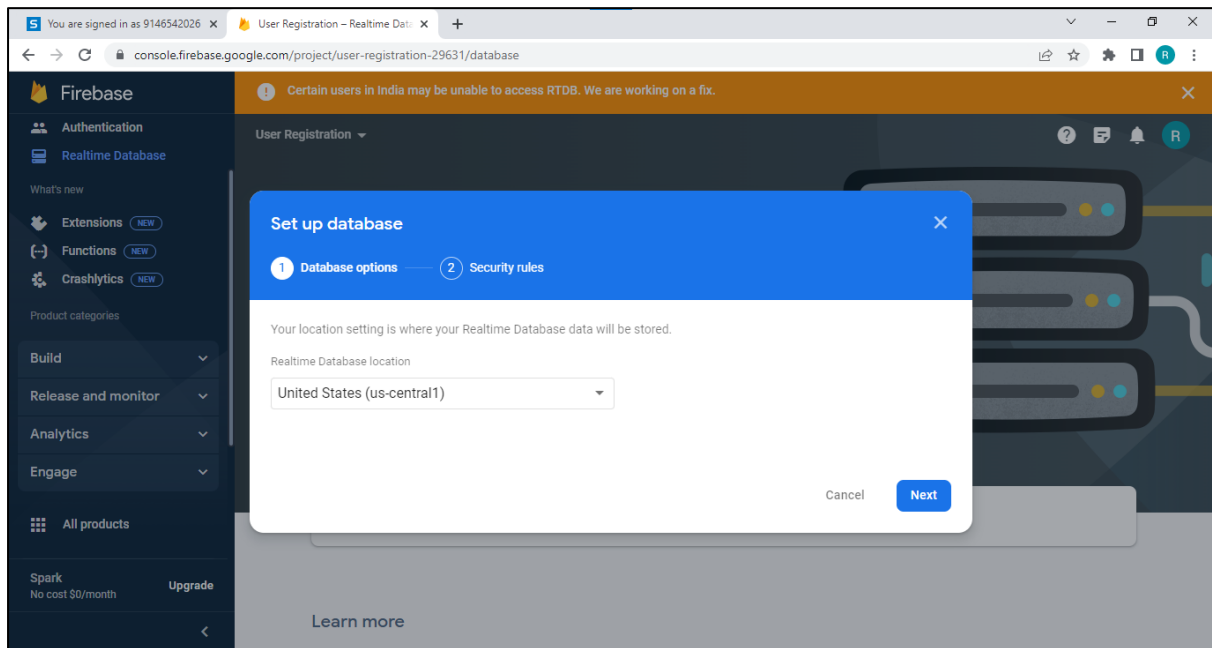




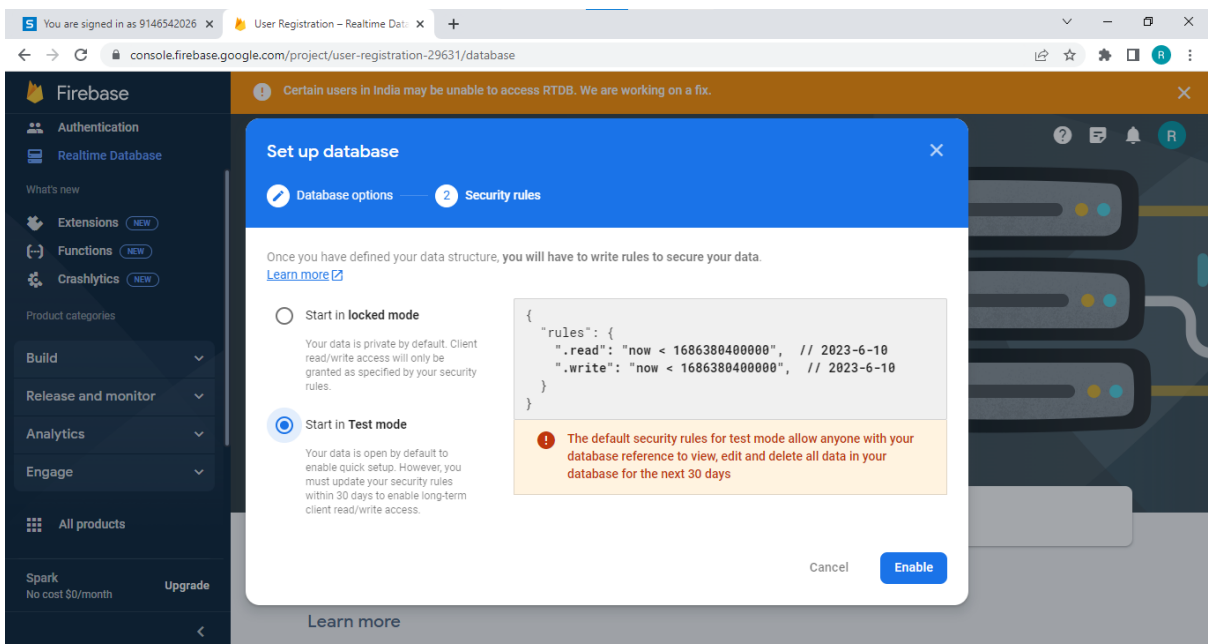
8] Repeat the same procedure click on the build and this time select the real-time Database And click the 'Create Database'.



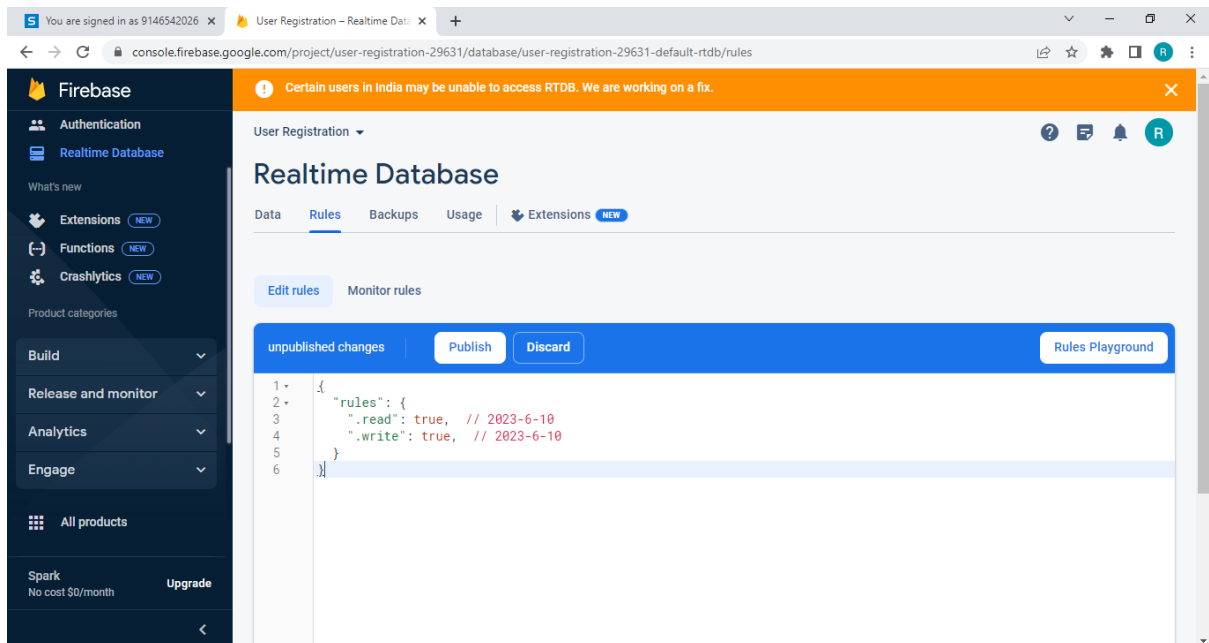
Keep the location of server as it is no need to change



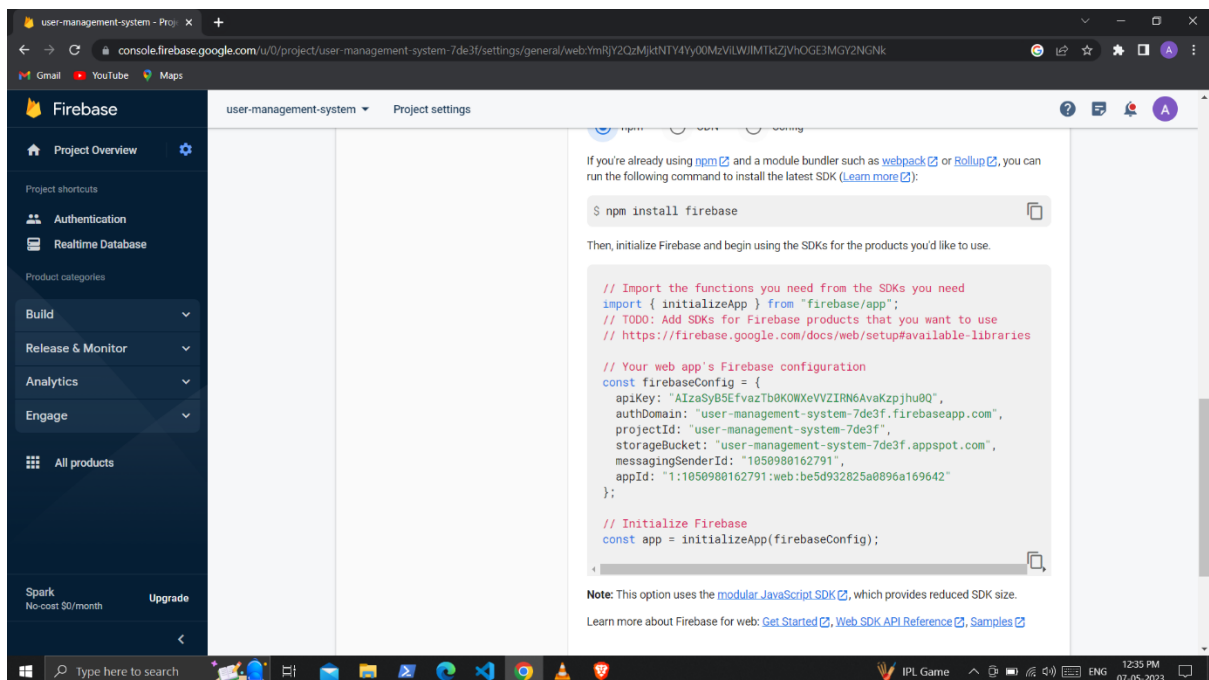
Start the database in test mode and enable



9] On the above screen click on rules section and edit the rules as shown below and then click on publish button

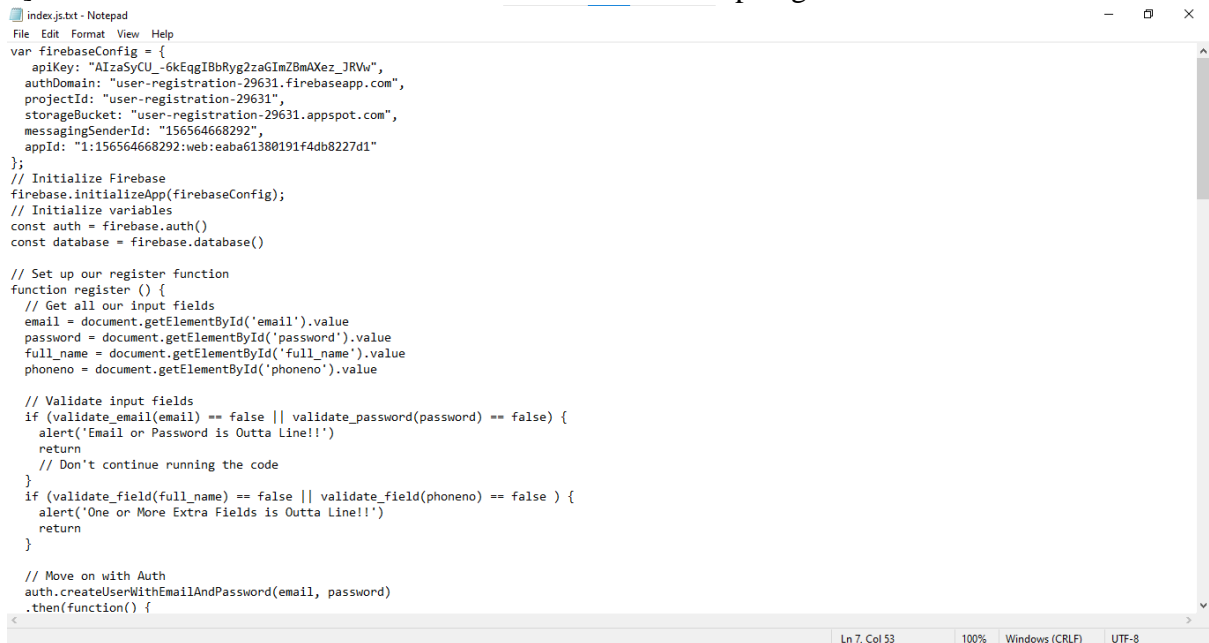


10] If you forgot the credentials of our firebase app then simply go to the Project overview of our project located below the Firebase icon. There click on the web icon and then click on the settings icon scroll down you can see your credentials



To configure firebase into our application we have to add the sdk of firebase and these above credentials

1] Add the sdk of firebase to the html files above the script tag




```
index.js.txt - Notepad
File Edit Format View Help
var firebaseConfig = {
  apiKey: "AIzaSyCU_-6kEqgIBbRyg2zaGImZBmAXez_JRVv",
  authDomain: "user-registration-29631.firebaseio.com",
  projectId: "user-registration-29631",
  storageBucket: "user-registration-29631.appspot.com",
  messagingSenderId: "156564668292",
  appId: "1:156564668292:web:eaba61380191f4db8227d1"
};
// Initialize Firebase
firebase.initializeApp(firebaseConfig);
// Initialize variables
const auth = firebase.auth()
const database = firebase.database()

// Set up our register function
function register () {
  // Get all our input fields
  email = document.getElementById('email').value
  password = document.getElementById('password').value
  full_name = document.getElementById('full_name').value
  phoneno = document.getElementById('phoneno').value

  // Validate input fields
  if (validate_email(email) == false || validate_password(password) == false) {
    alert('Email or Password is Outta Line!!')
    return
    // Don't continue running the code
  }
  if (validate_field(full_name) == false || validate_field(phoneno) == false ) {
    alert('One or More Extra Fields is Outta Line!!')
    return
  }

  // Move on with Auth
  auth.createUserWithEmailAndPassword(email, password)
    .then(function() {
```

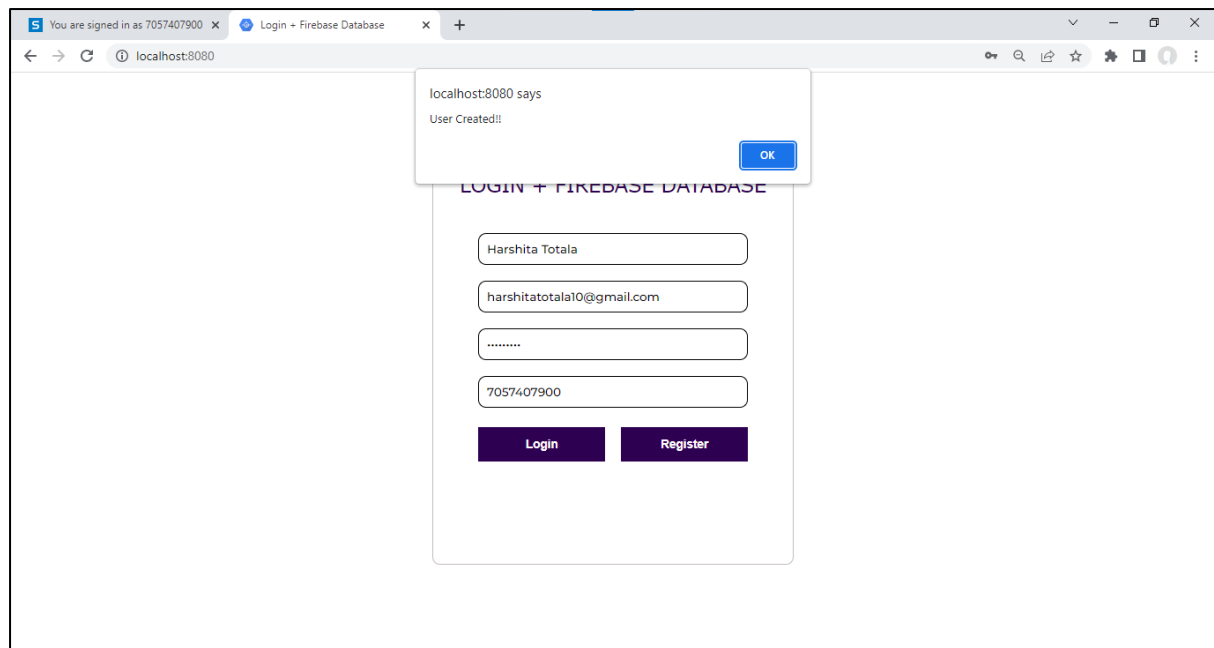
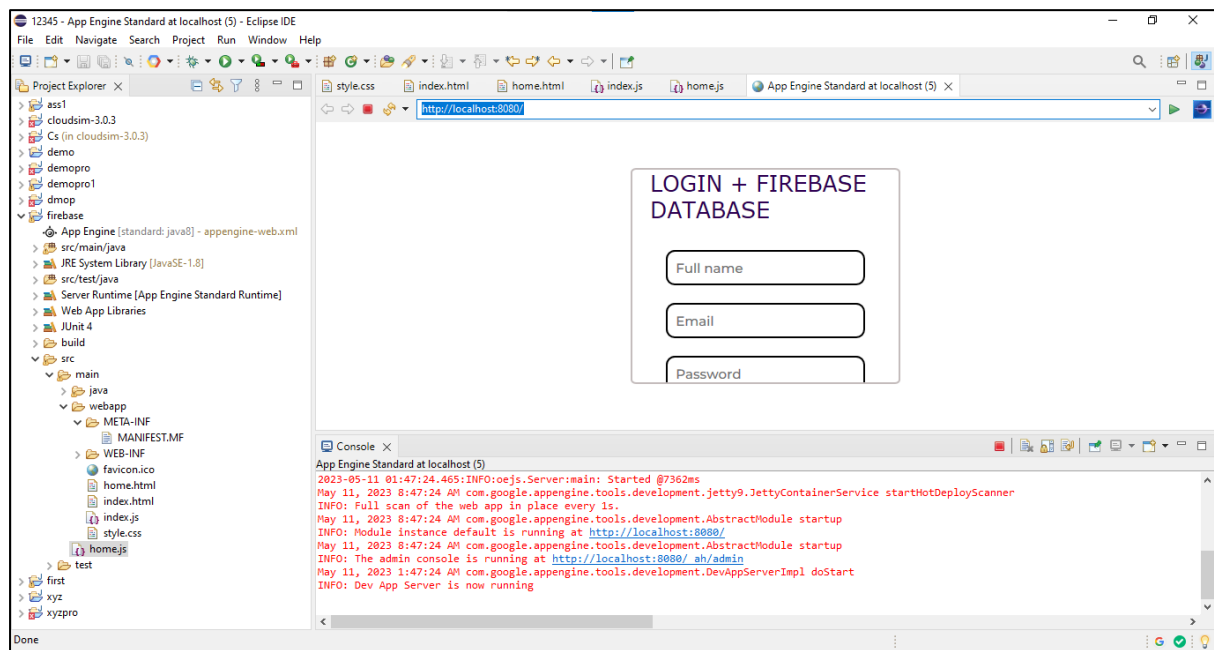
2] Add the credentials to the JavaScript files



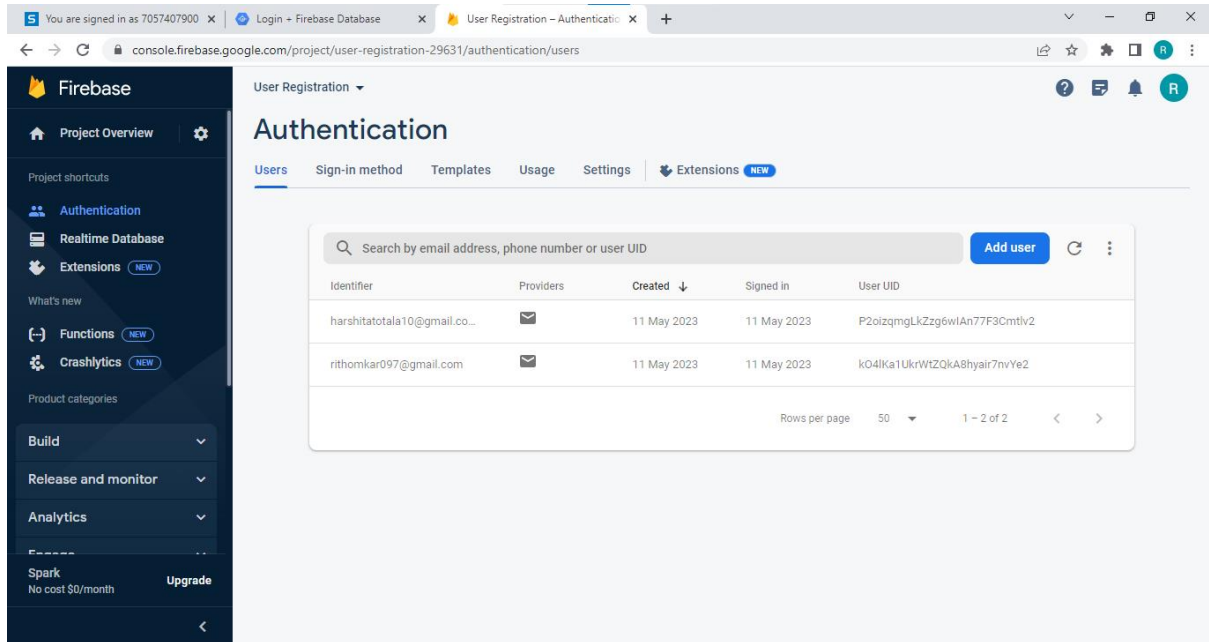
```
home.js.txt - Notepad
File Edit Format View Help
window.onload = loadUsers
var firebaseConfig = {
  apiKey: "AIzaSyCU_-6kEqgIBbRyg2zaGImZBmAXez_JRVv",
  authDomain: "user-registration-29631.firebaseio.com",
  projectId: "user-registration-29631",
  storageBucket: "user-registration-29631.appspot.com",
  messagingSenderId: "156564668292",
  appId: "1:156564668292:web:eaba61380191f4db8227d1"
};
firebase.initializeApp(firebaseConfig);
const auth = firebase.auth()
const database = firebase.database()
let userData = [];
async function loadUsers () {
  await firebase.database().ref('users').once('value', function(snapshot) {
    snapshot.forEach(function(childSnapshot) {
      var childData = childSnapshot.val();
      const email = childData.email;
      const name = childData.full_name;
      const phoneno = childData.phoneno;
      const data = {
        name: name, email: email, phoneno: phoneno
      }
      userData.push(data)
    });
  });
}
let html = "<tr><th>First Name</th><th>Last Name</th><th>Points</th></tr>"
userData.forEach((user, index) => {
  var count = index+1;
  html+="|<td>"+count+"</td><td>"+user.name+"</td><td>"+user.email+"</td><td>"+user.phoneno+"</td></tr>";
});
console.log(html);
let element = document.querySelector('.user_table');
element.innerHTML = html
}
|  |

```

Run the application on GCP:



We can see the user registered in firebase



The screenshot shows the Firebase Authentication console. The left sidebar contains the Firebase logo and navigation links: Project Overview, Authentication, Realtime Database, Extensions, Functions, and Crashlytics. The main content area is titled 'Authentication' and includes a search bar and a table of users. The table has columns for Identifier, Providers, Created, Signed in, and User UID. Two users are listed, both registered on May 11, 2023.

Identifier	Providers	Created	Signed in	User UID
harshitatotala10@gmail.co...	📧	11 May 2023	11 May 2023	P2oizqmgLkZzg6wIAn77F3Cmtlv2
rithomkar097@gmail.com	📧	11 May 2023	11 May 2023	kO4lKa1UkrWtZQkA8hyair7nvYe2