GETTING STARTED WITH REACT

Two things needed in the machine to create a react project

1. **Node.js**

   You can download node.js from this links

   https://nodejs.org/en/

2. **npm**

   npm will be automatically installed on the computer with node.js downloading. You can create a new react app on your computer by running this commands in the terminal. Here the name of the app going to be create is “my-app”. Here any name can be used instead my-app.

```
npx create-react-app my-app

cd my-app

npm start
```

If you have an error with npm. You can add npm and try in this way

```
npx create-react-app my-app

cd my-app

npm add

npm audit fix

npm start
```

Note: After running above codes on terminal new react app will open on your browser.

USED LIBRARIES WITH REACT

Following libraries are used for this app

1. **react-router-dom**

   This library is useful for router the pages inside the web site. You can install this by running following command on the terminal

   ```
   npm i react-router-dom
   ```

2. **firebase**

   This library needs for integrating firebase with the web application. The library can be installed by running following code in the terminal.

   ```
   npm i firebase
   ```

3. **react-3d-viewer**

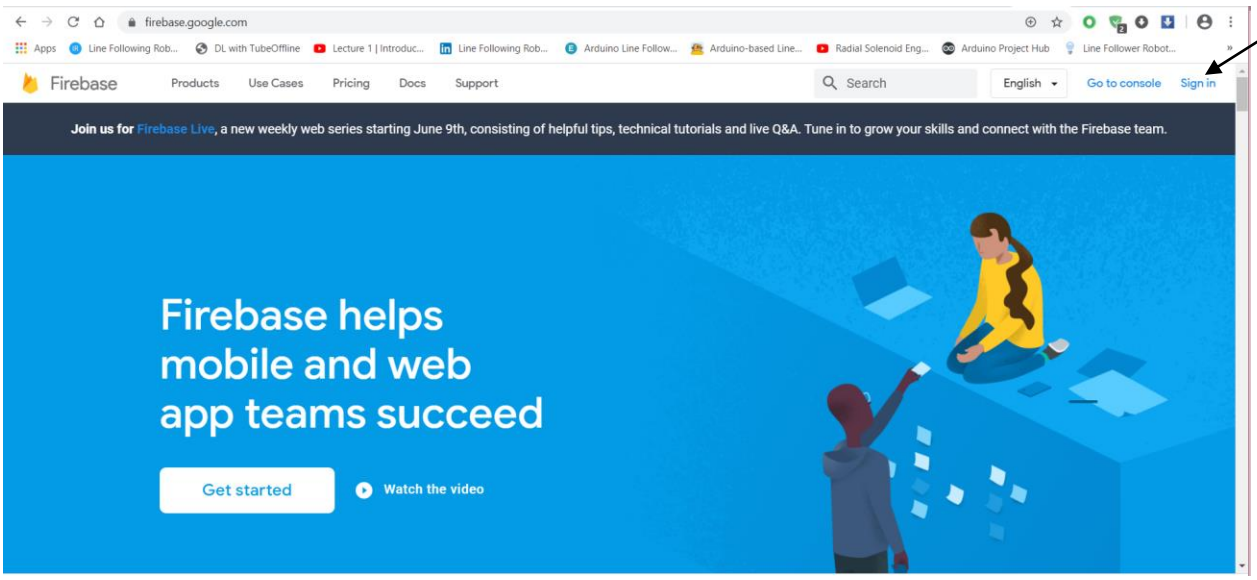
   This library is used for handling 3d images in react. You can download this library by running following command on the terminal

   ```
   npm i react-3d-viewer
   ```

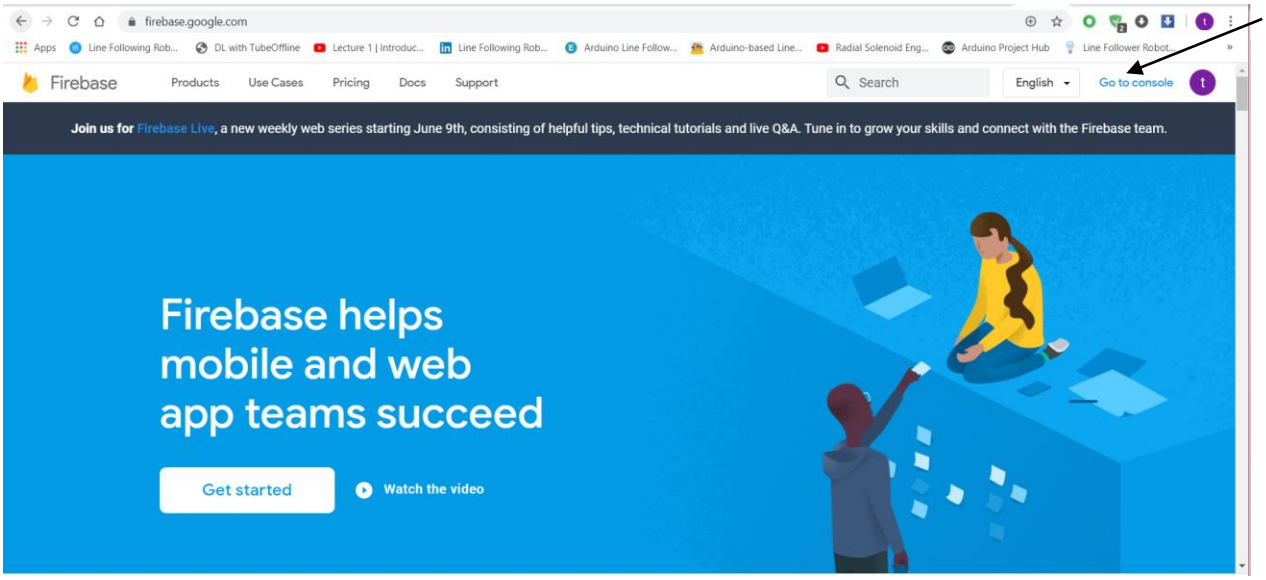
SETUP FIREBASE

Go to https://firebase.google.com/

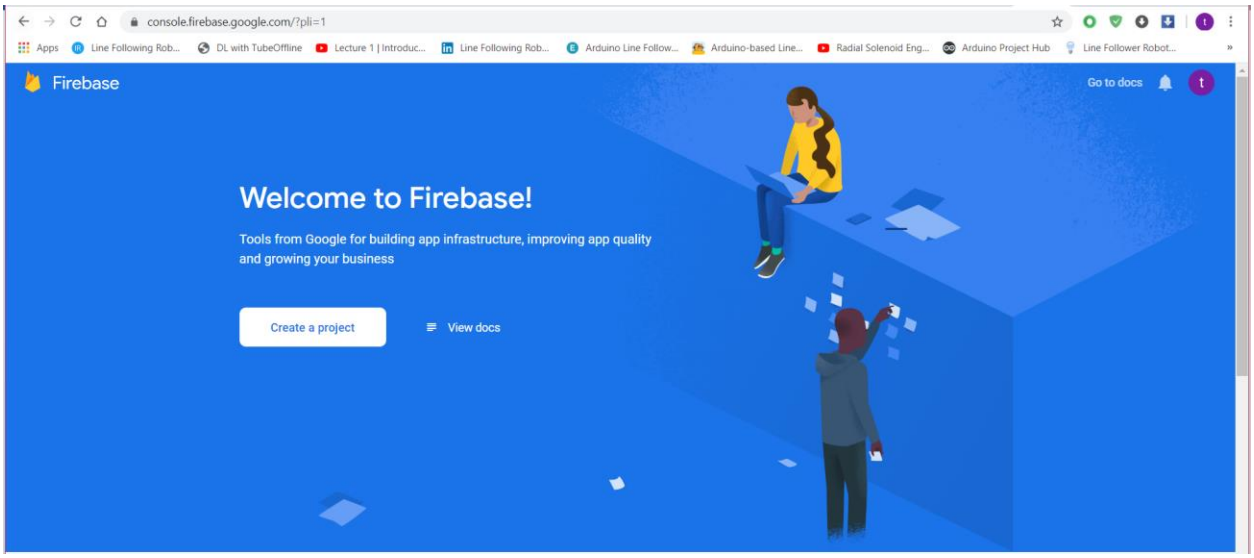
Then sign in to your google account



Click on Go to console

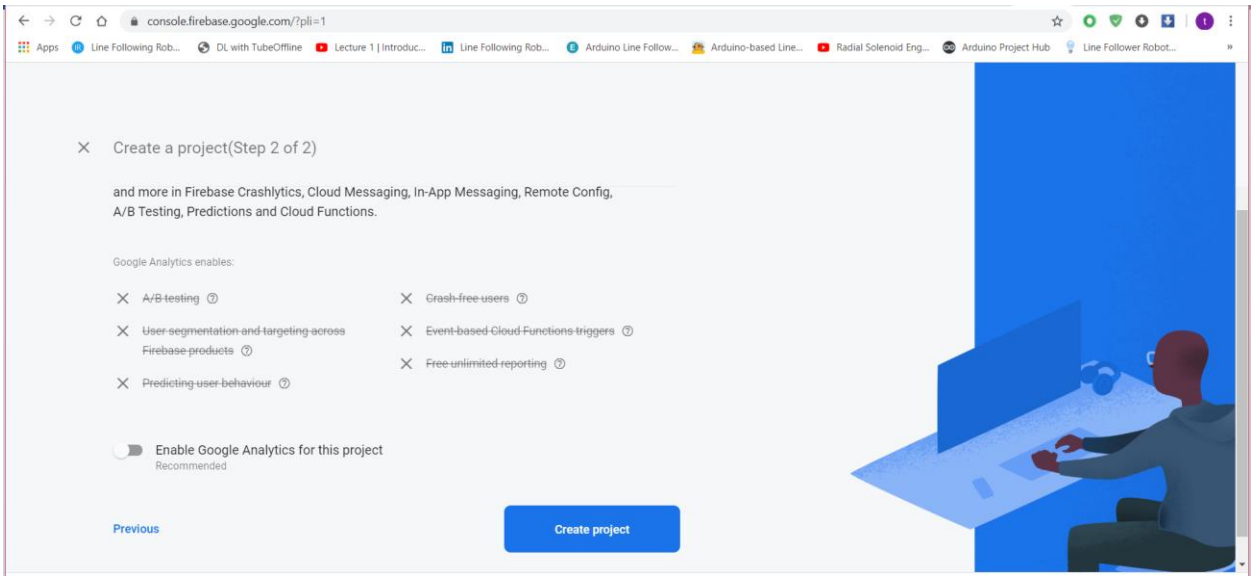


Click on create a project

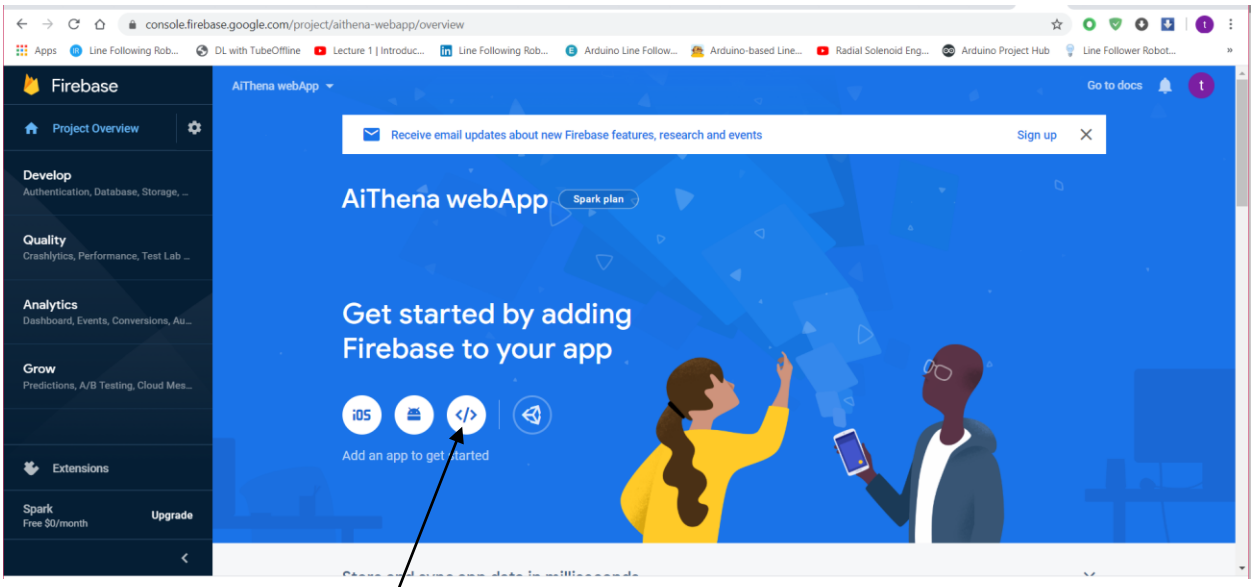


Type your project name and continue

You can enable or disable google analics according to your prefer. Here I have disabled. And give create project.

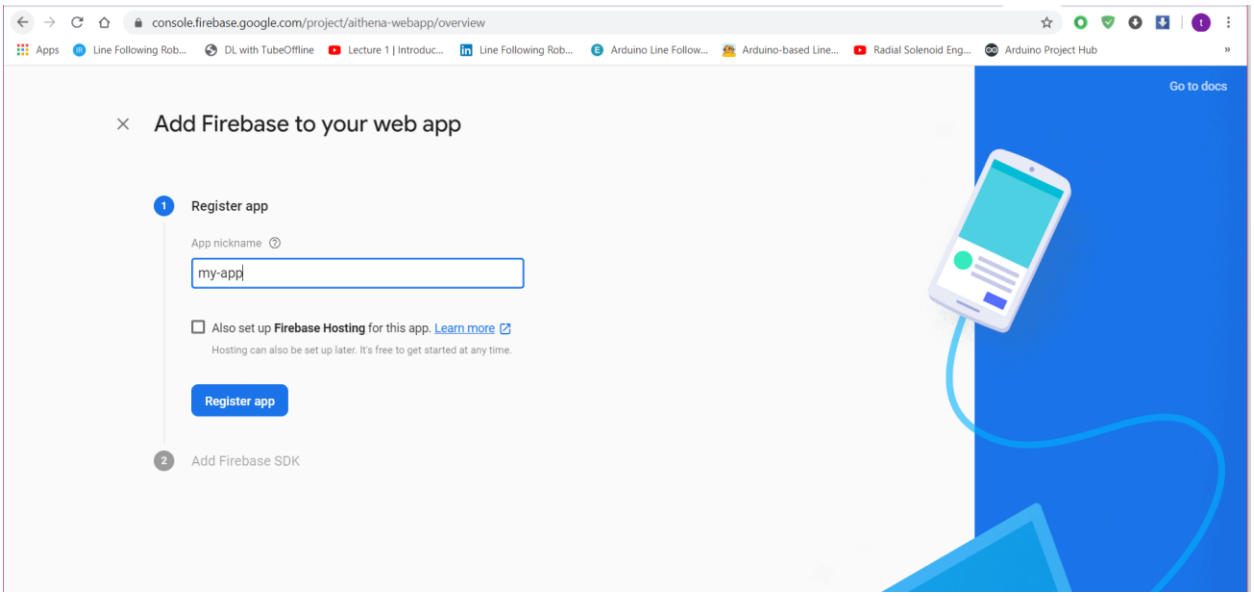


Then you will bring you to the new project. Here it is going to create a web app. So click on the icon web app.



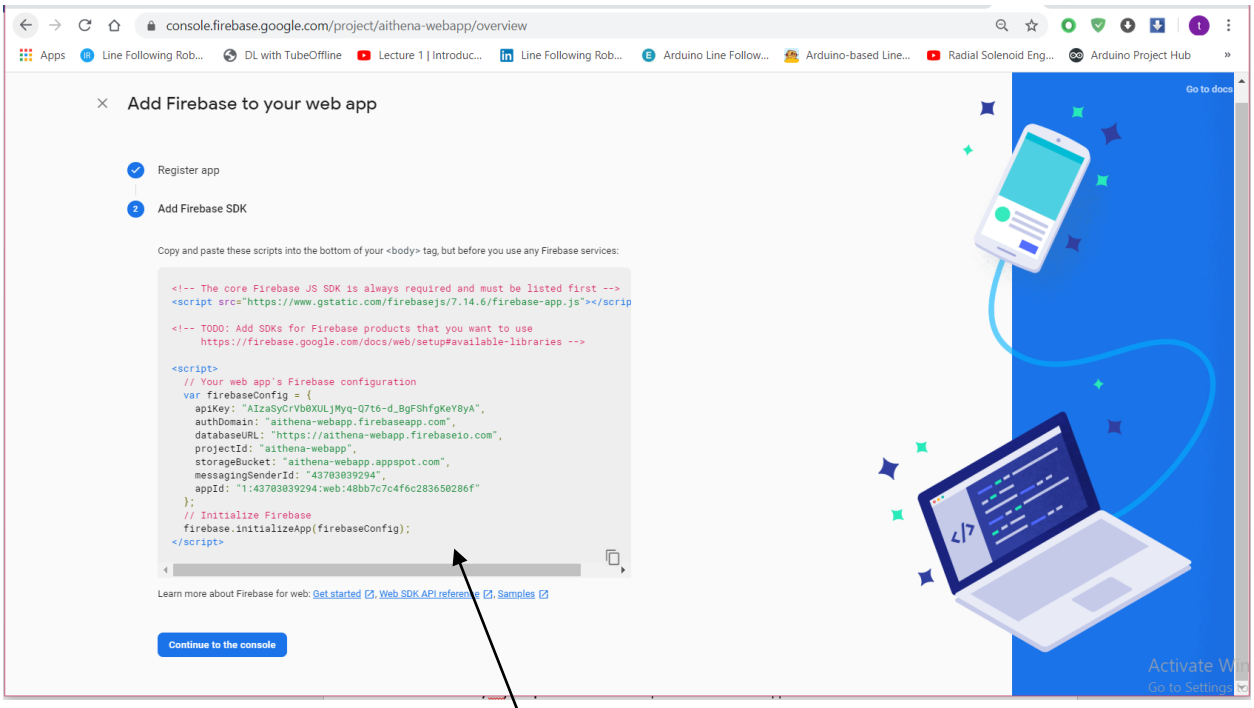
Web app icon

Next the following page will displayed and here you can register your new app.



Here is the configuration details of the firebase. You can copy the **var firebaseConfig={ }** and paste in to the **./src/firebase/config.js** file in the source code.

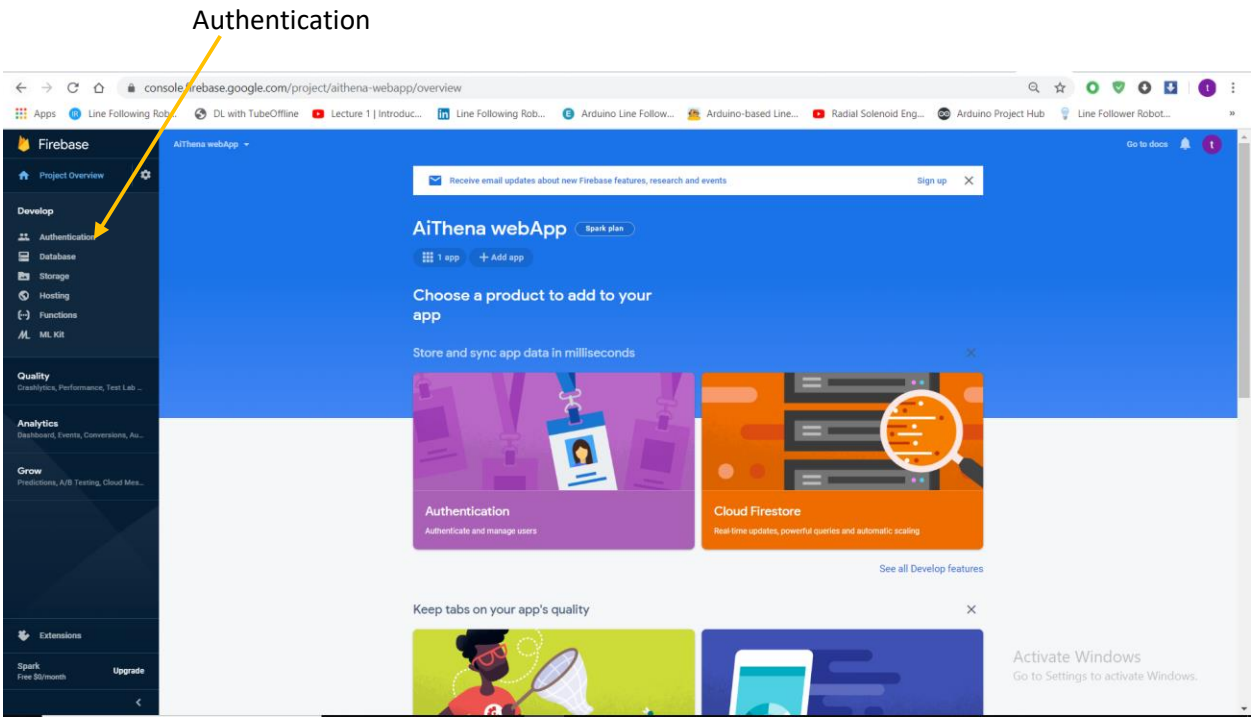
Click on the button continue to the console.



Firebase configuration details

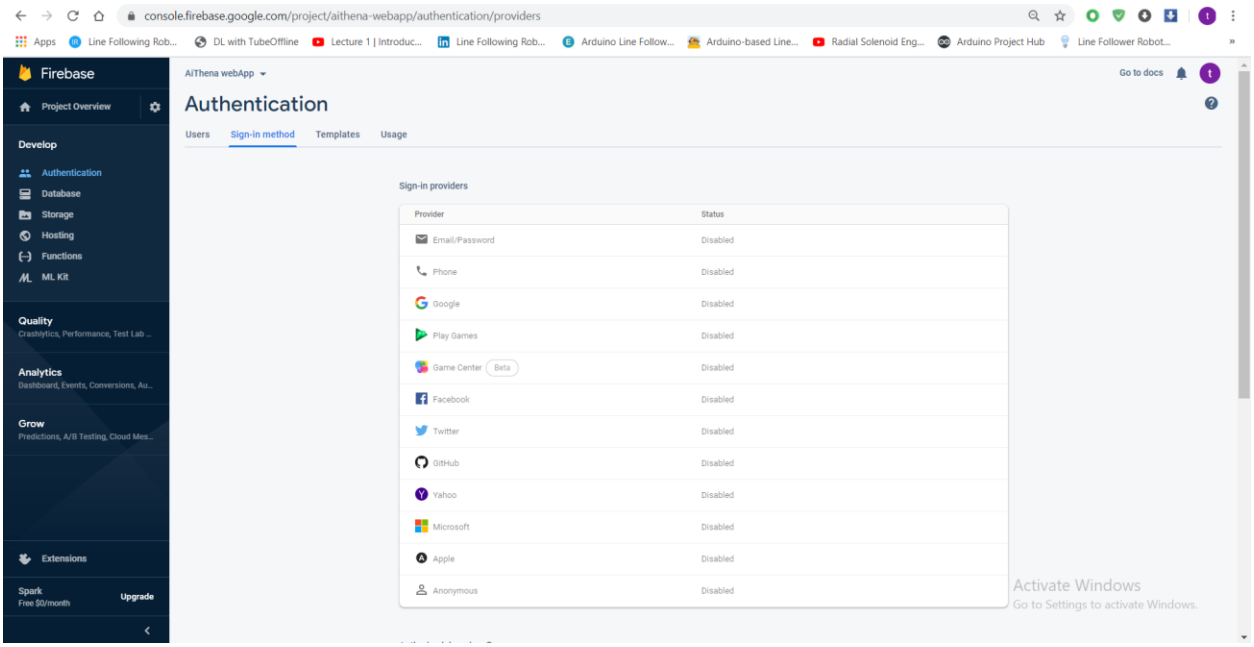
SET UP AUTHENTICATION SERVICE

Go to authentication under develop section



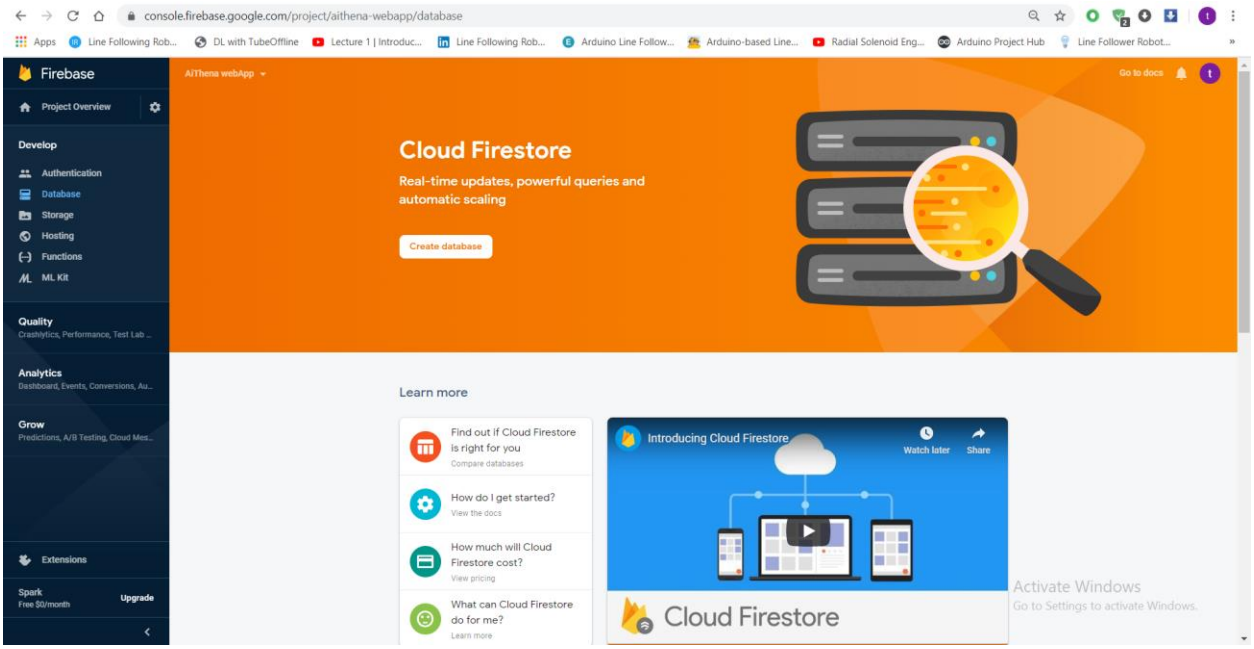
Authentication⟶ Sign-in-method

And the required signed in methods can be select here. Here Email/password method and Google sign in methods are enabled and saved.

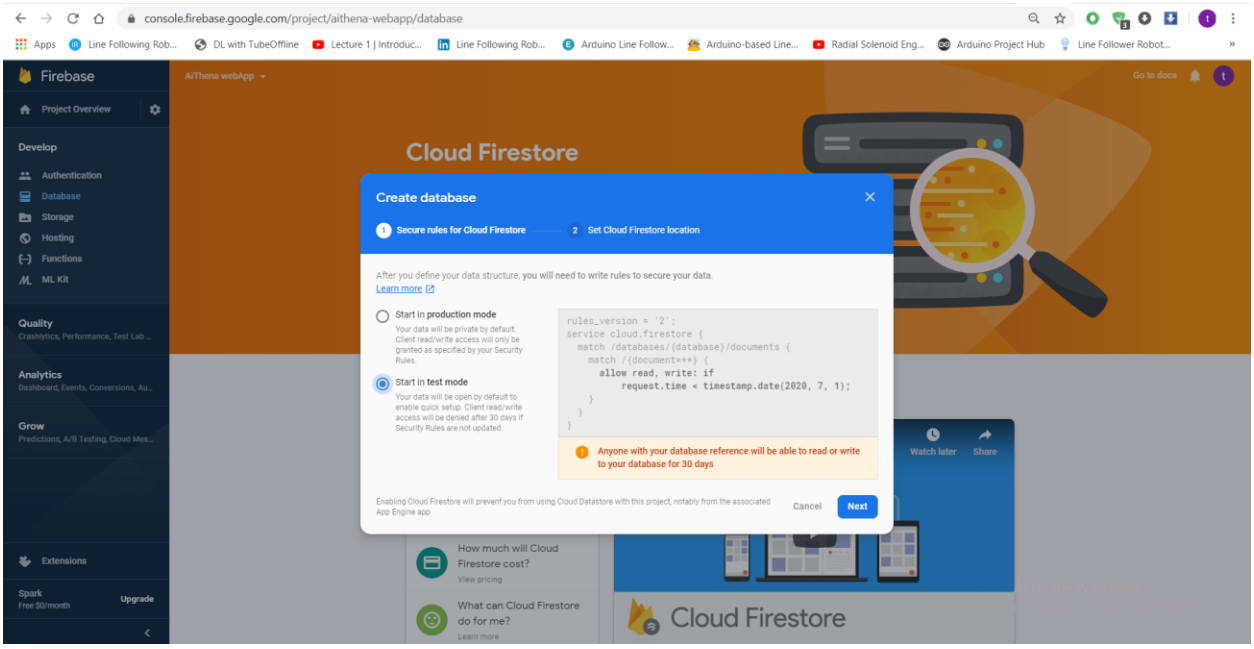


SETUP DATABASE

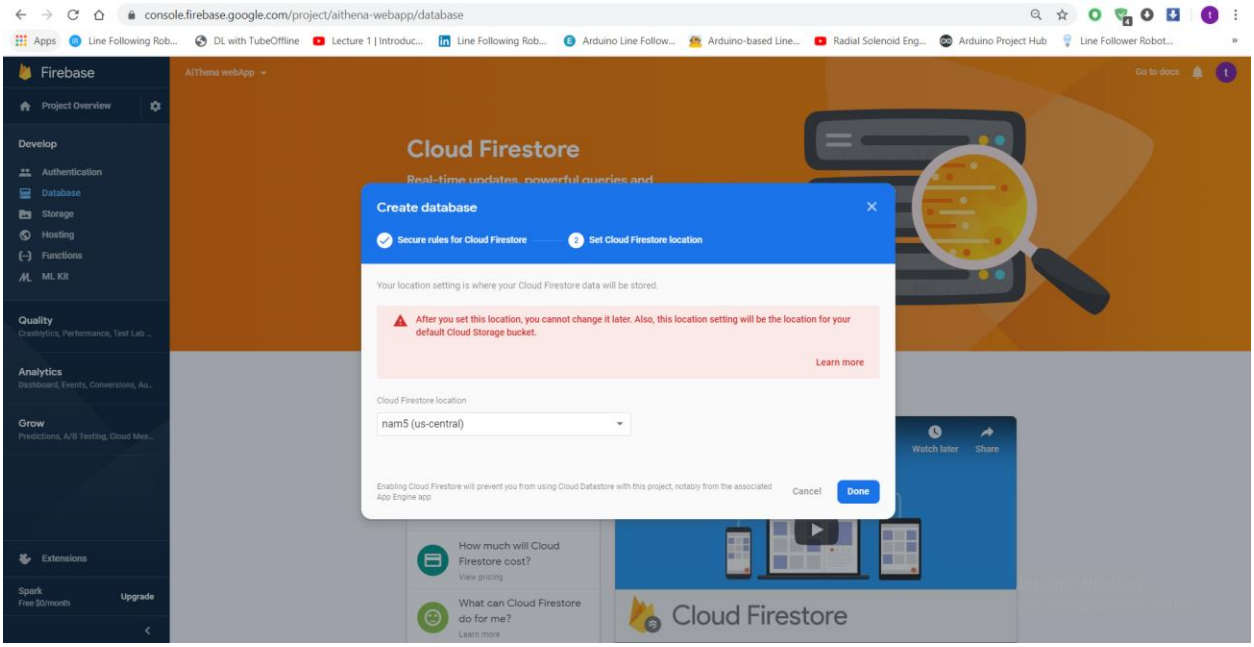
Go to Database and create database



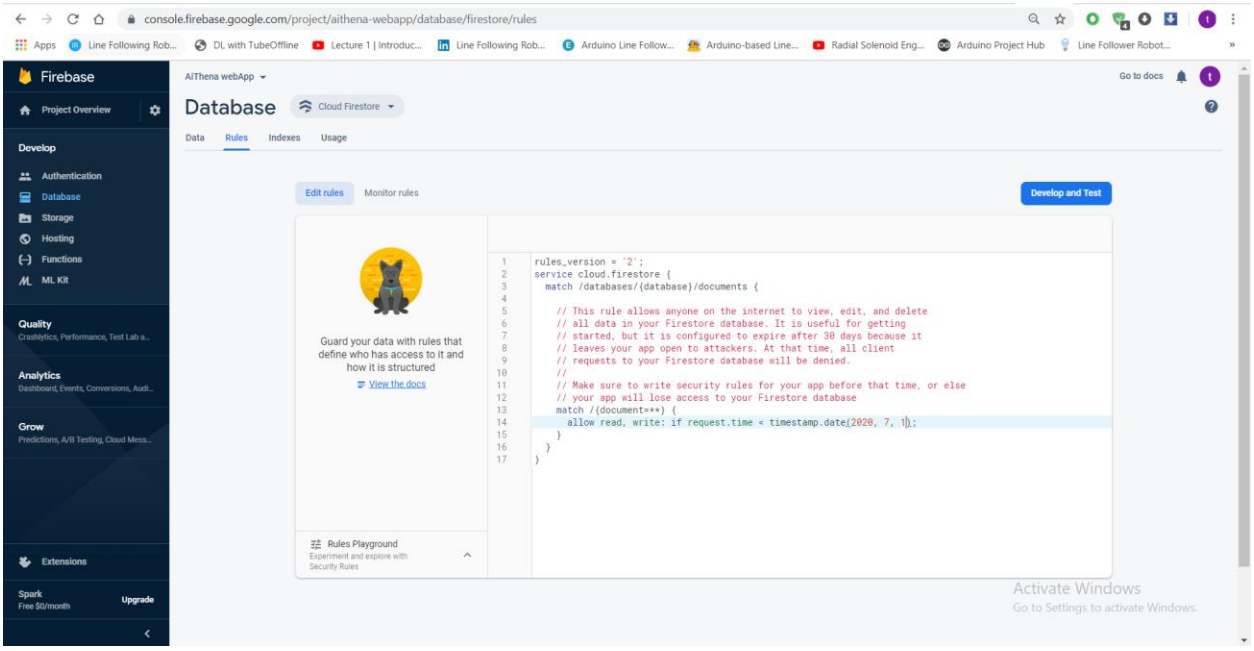
Set Start in test mode



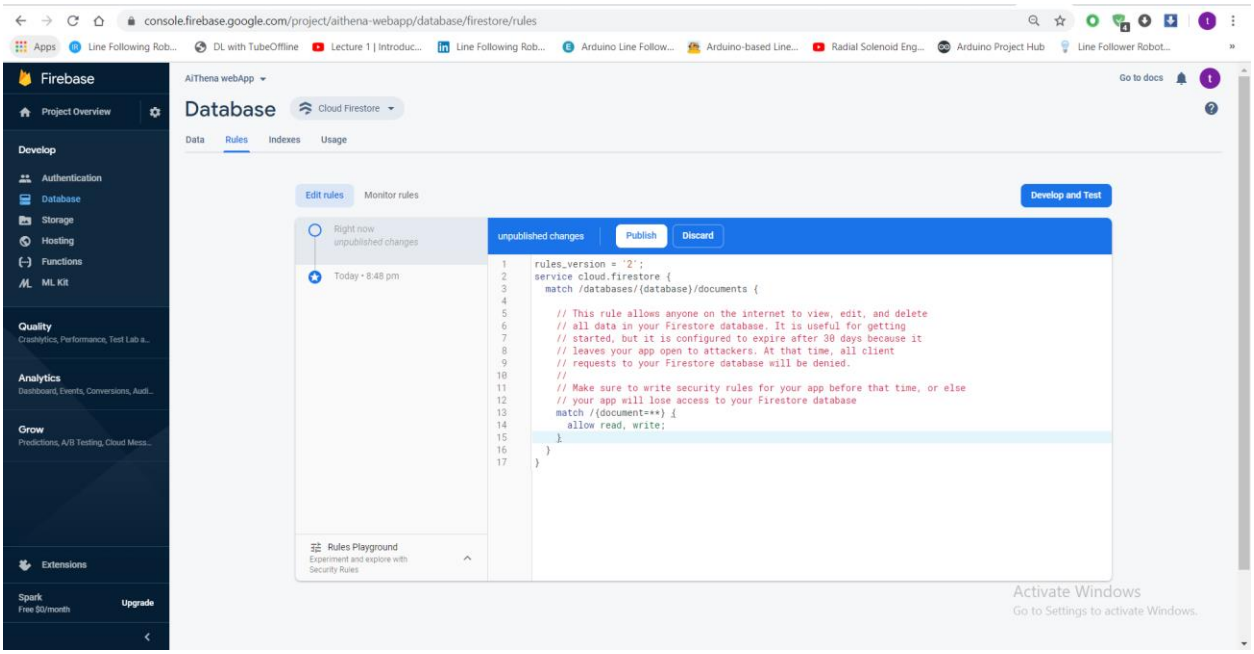
Set cloud firestore location and done



Go to rules in cloud firestore.



Change the rules and publish.

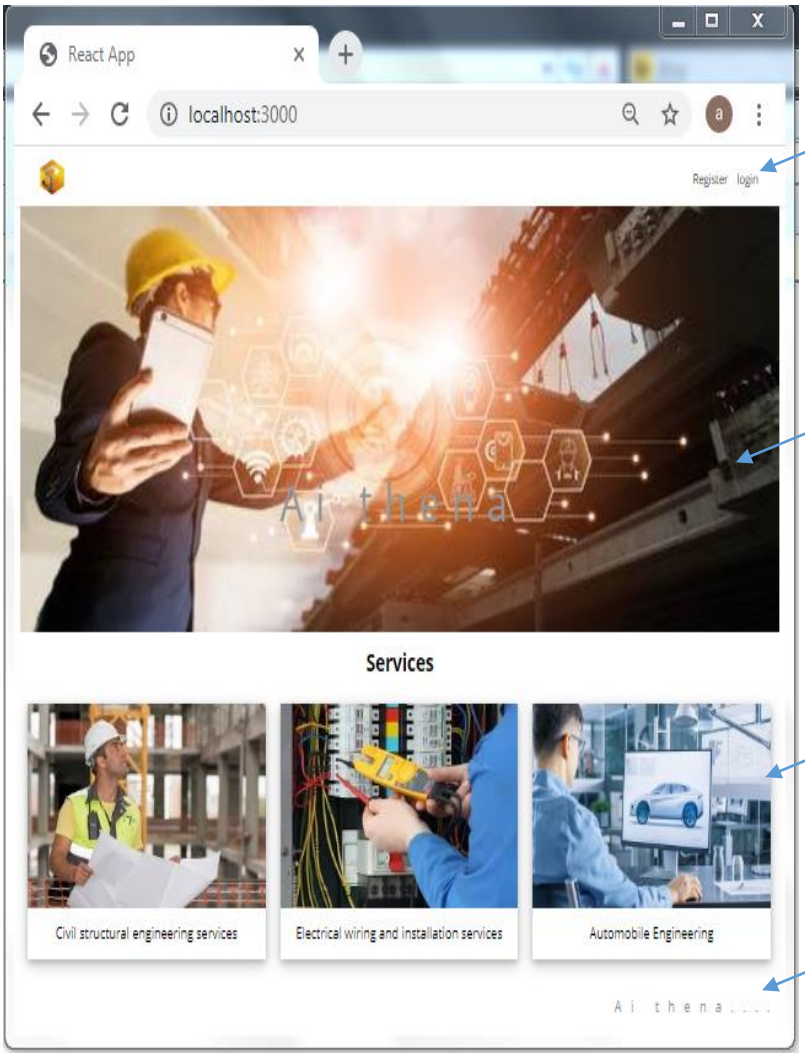


FILE STRUCTURE-FOLDERS

1. **./src -**all java script files are stored here
2. **./src/assets** – all the images are in this directory
3. **./src/components –**all the components used in this app
4. **./src/firebase/config.js-** Firebase configuration file
5. **./src/firebase/utils.js-** It contains all the functions that needed for user authentication and sign in with google
6. **./src/pages-** it contains .js files of all the pages

PAGES AND COMPONENTS

1. **Home page- .src/pages/Homepage**



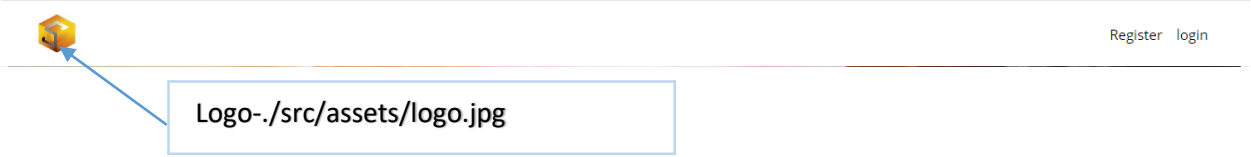
Header component- ./src/components/Header

Directory component- ./src/components/Directory

Services component- ./src/components/Services

footer component- ./src/components/Footer

Header components- ./src/components/Header



Logo-./src/assets/logo.jpg

Directory components- ./src/components/Directory

Image-
./src/assets/eng.jpg

Services component-./src/components/Services

Services

Civil structural engineering services

Electrical wiring and installation services

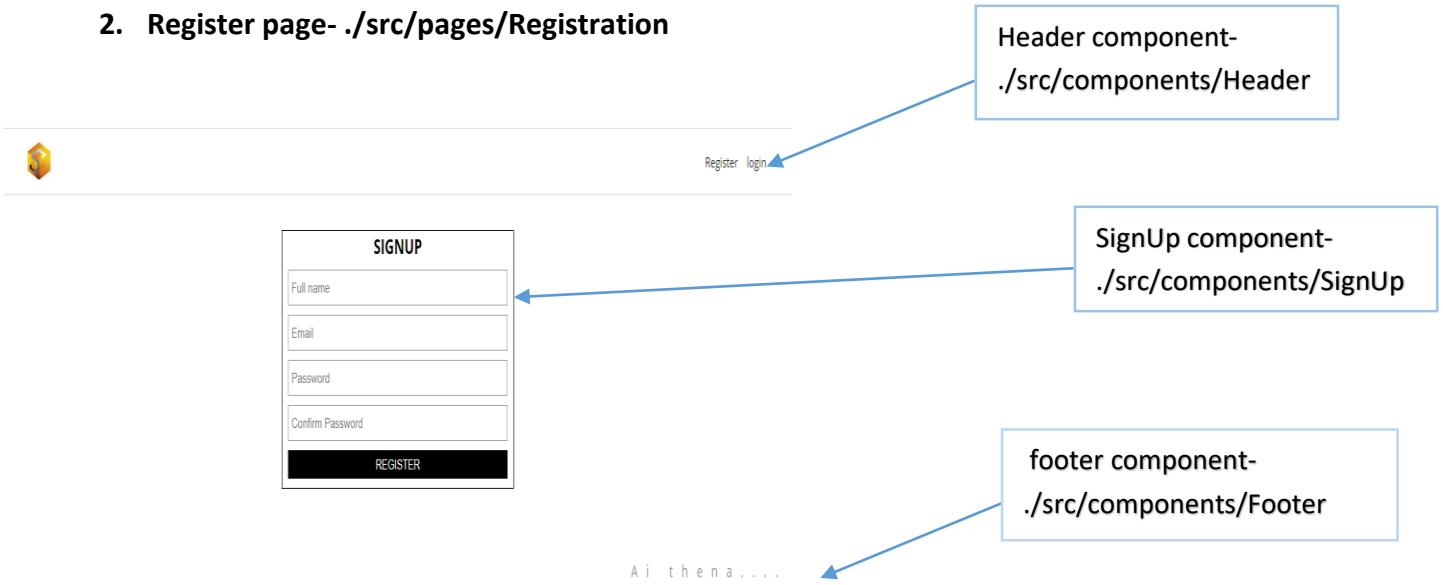
Automobile Engineering

Image-
./src/assets/civil.jpg

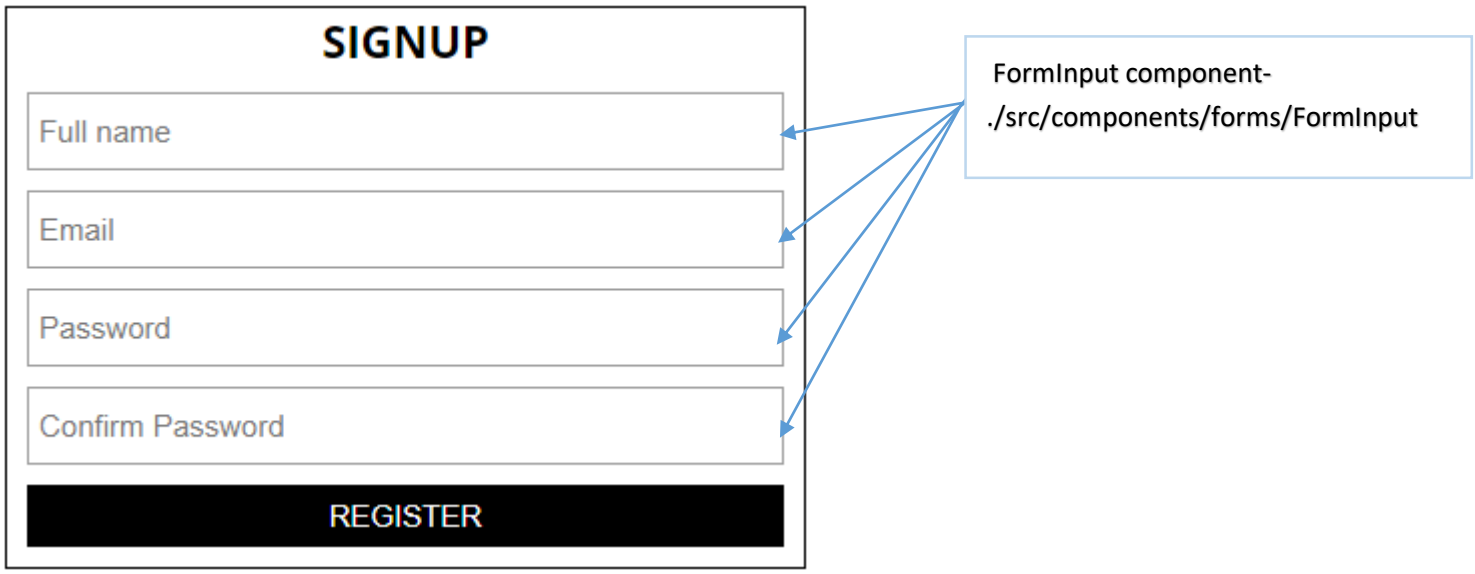
Image-
./src/assets/Elec.jpg

Image-
./src/assets/cover.jpg

2. **Register page- ./src/pages/Registration**

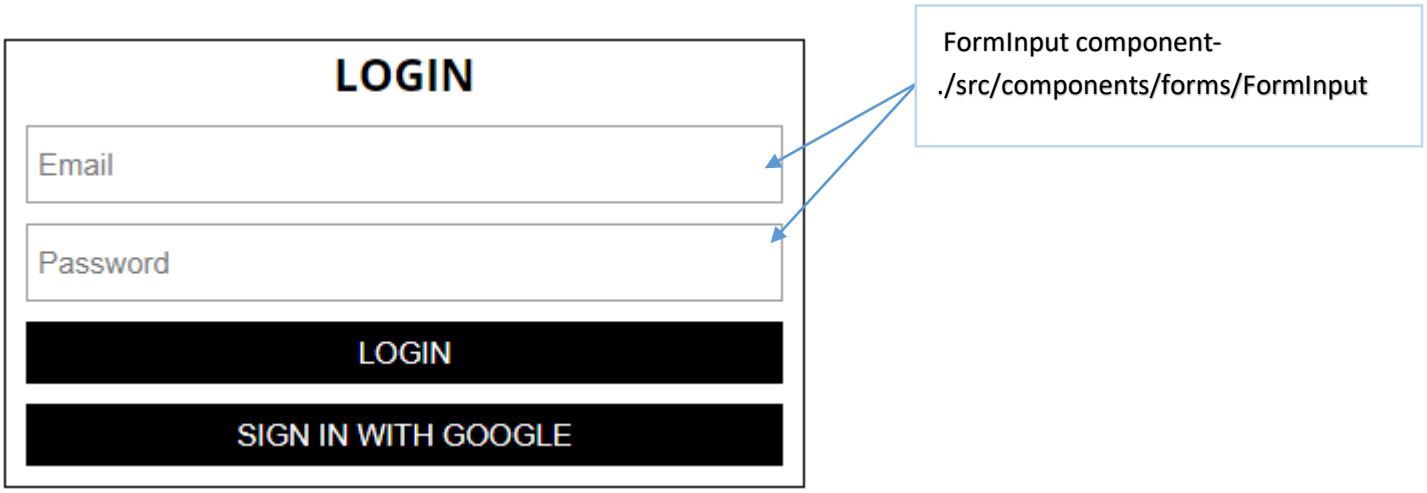


SignUp component- -./src/components/SignUp

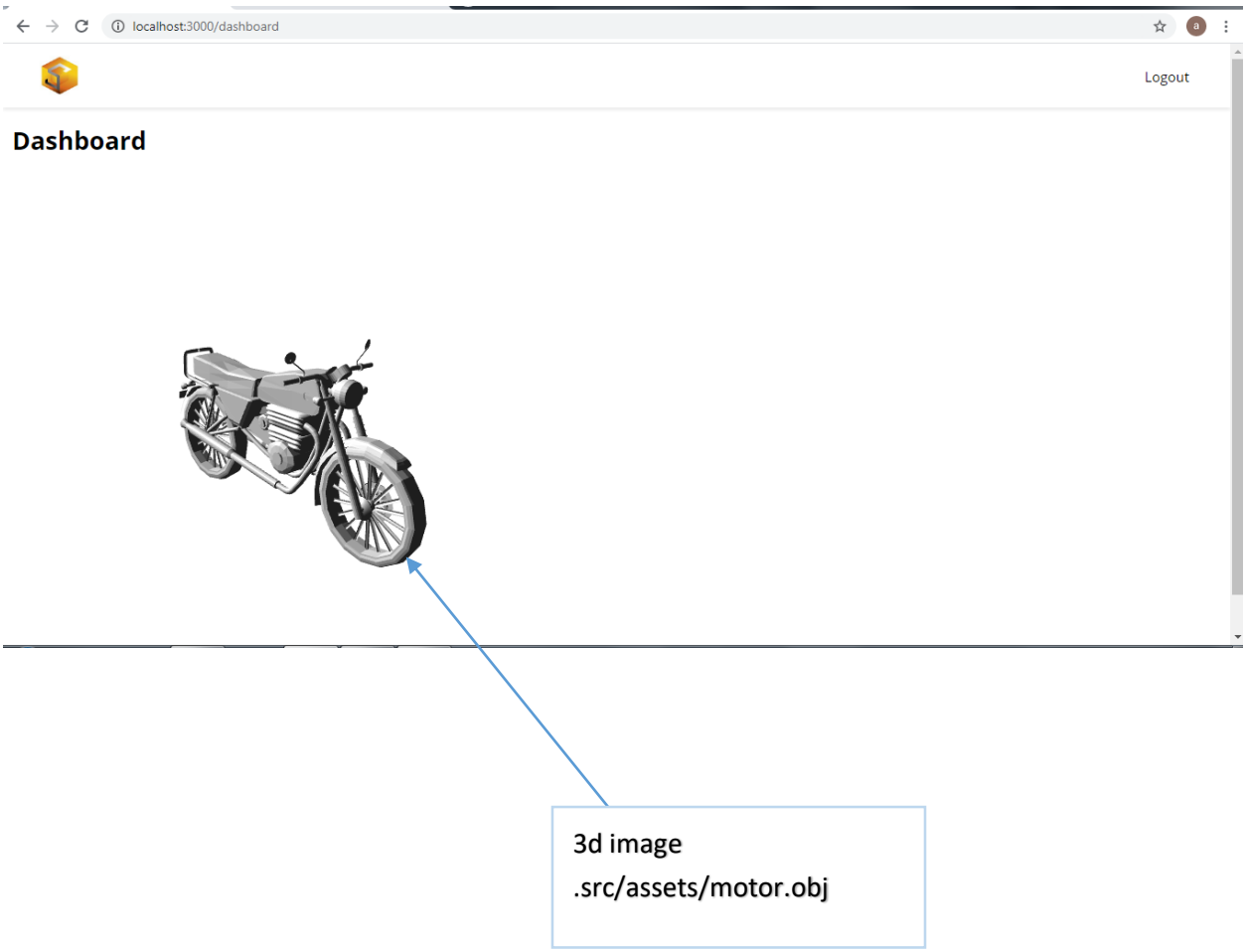


3. Login page- ./src/pages/Login

Signin component-./src/components/Signin



4. Dashboard page- ./src/pages/dashboard



PAGES ROUTING STRUCTURE