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| **Ex.No : 7** | **Implementation of Identification as a Service** |
| **09.05.2022** |

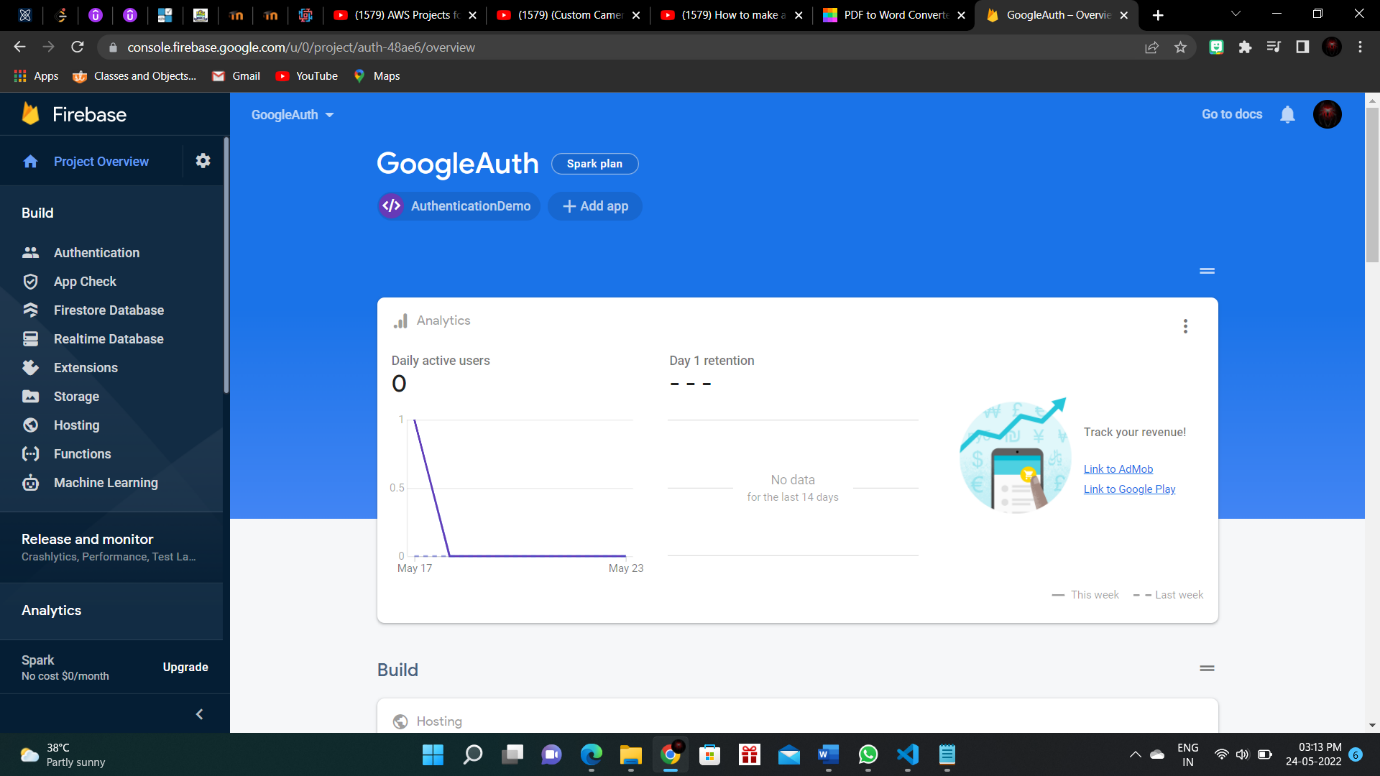
**Aim:**

To implement Identification as a Service using firebase.

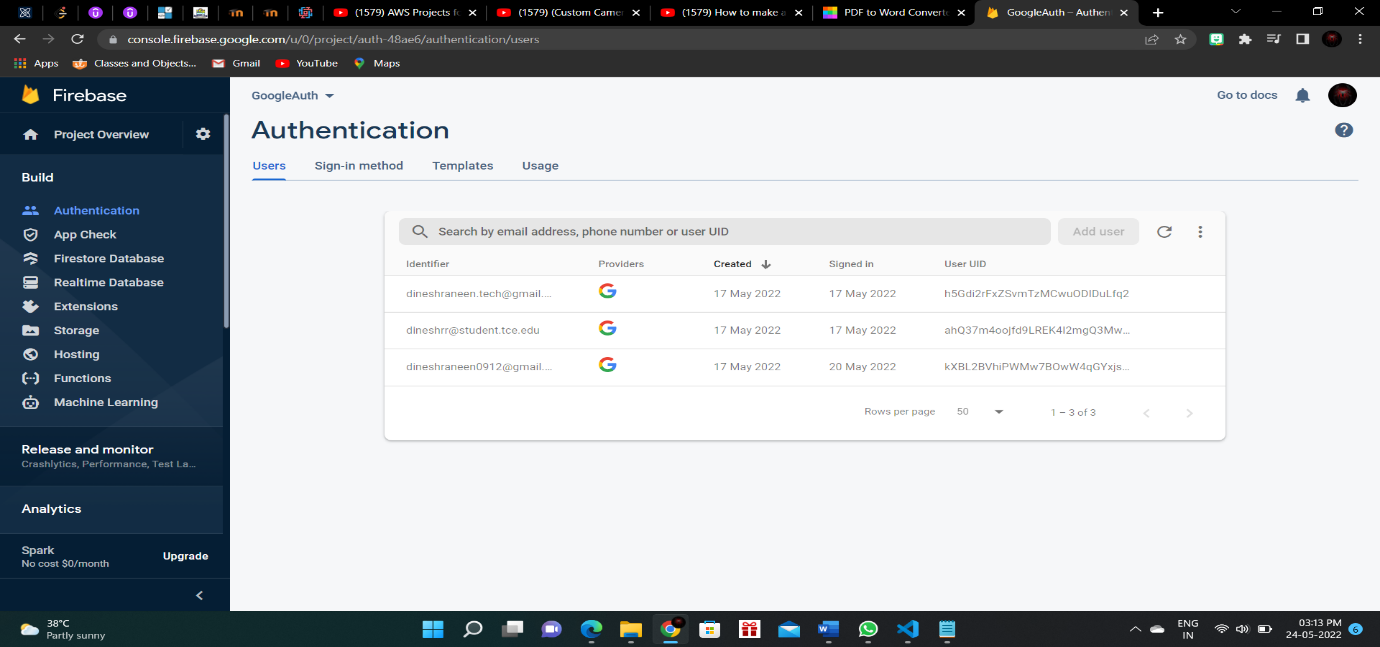
**Procedure:**

**Step 1:** Go to firebase console and create a new project and add a new web application to the project.

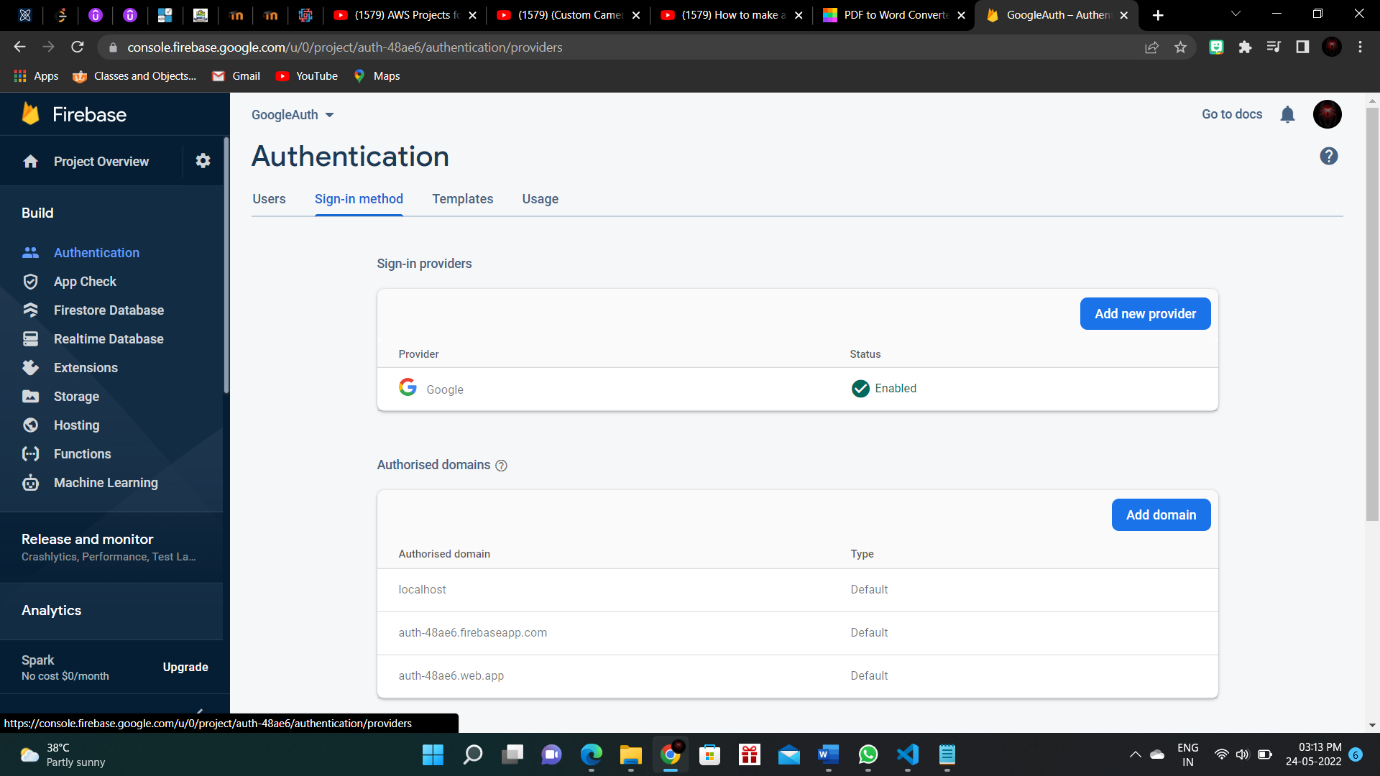
**Step 2:** Open the new project.



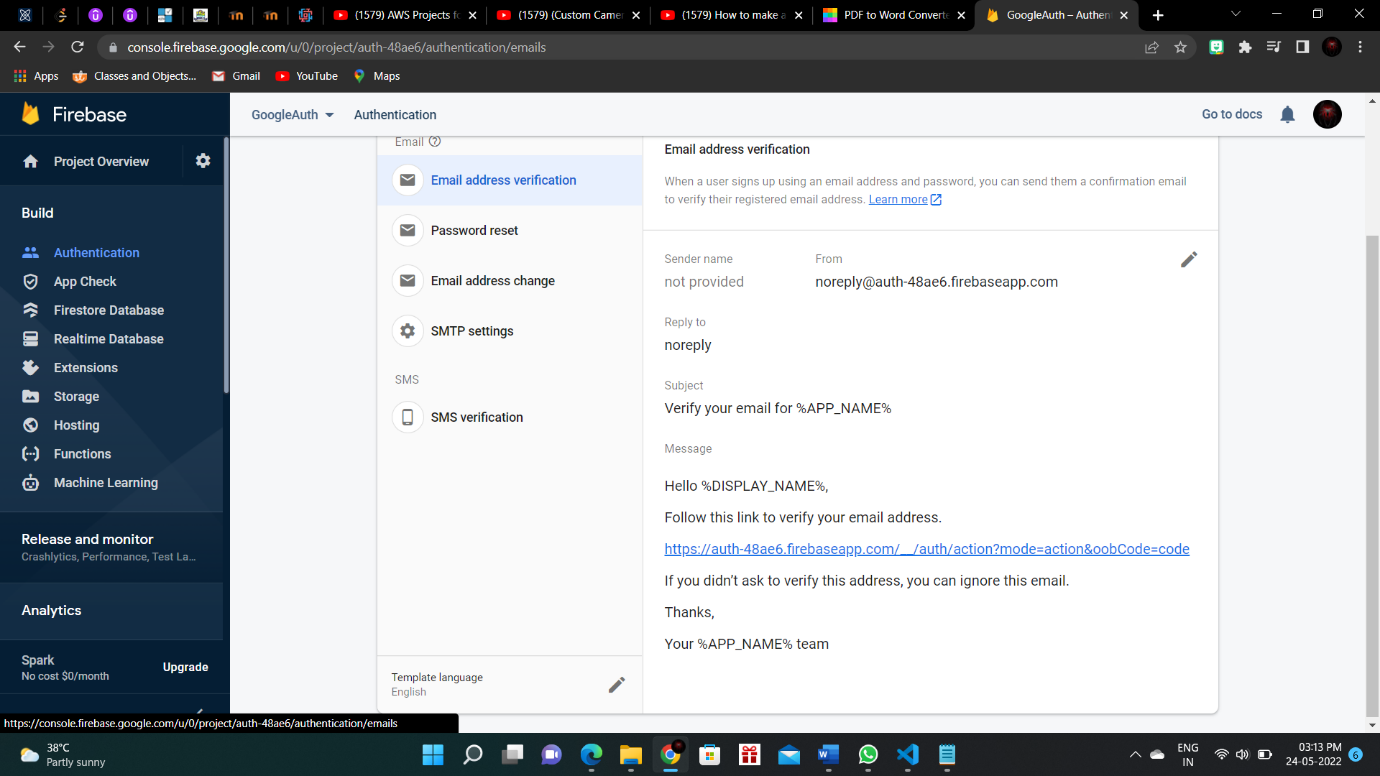
**Step 3:** Open Authentication.



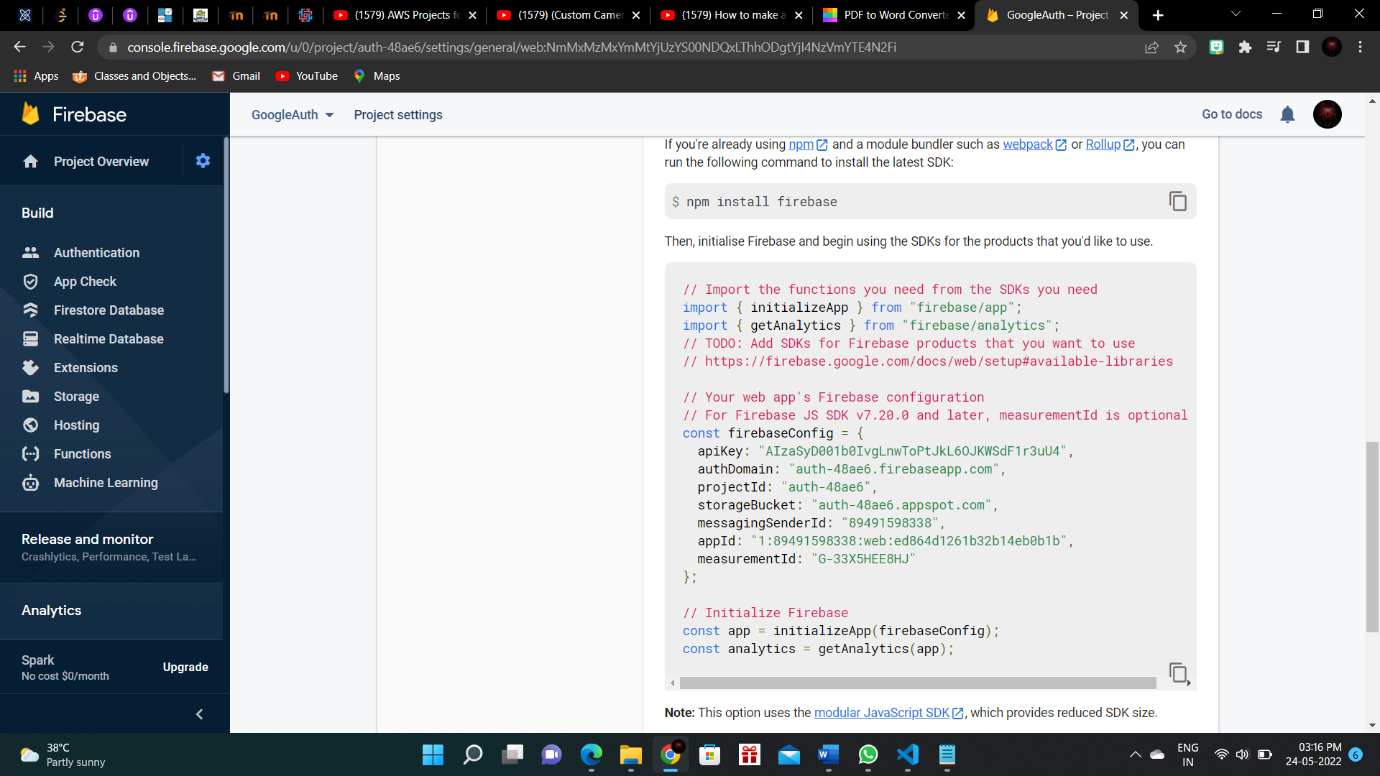
**Step 4:** Go to Sign-in method tab and enable Google’s Single sign-on.



**Step 5:** Go to templates tab and configure the settings as below.

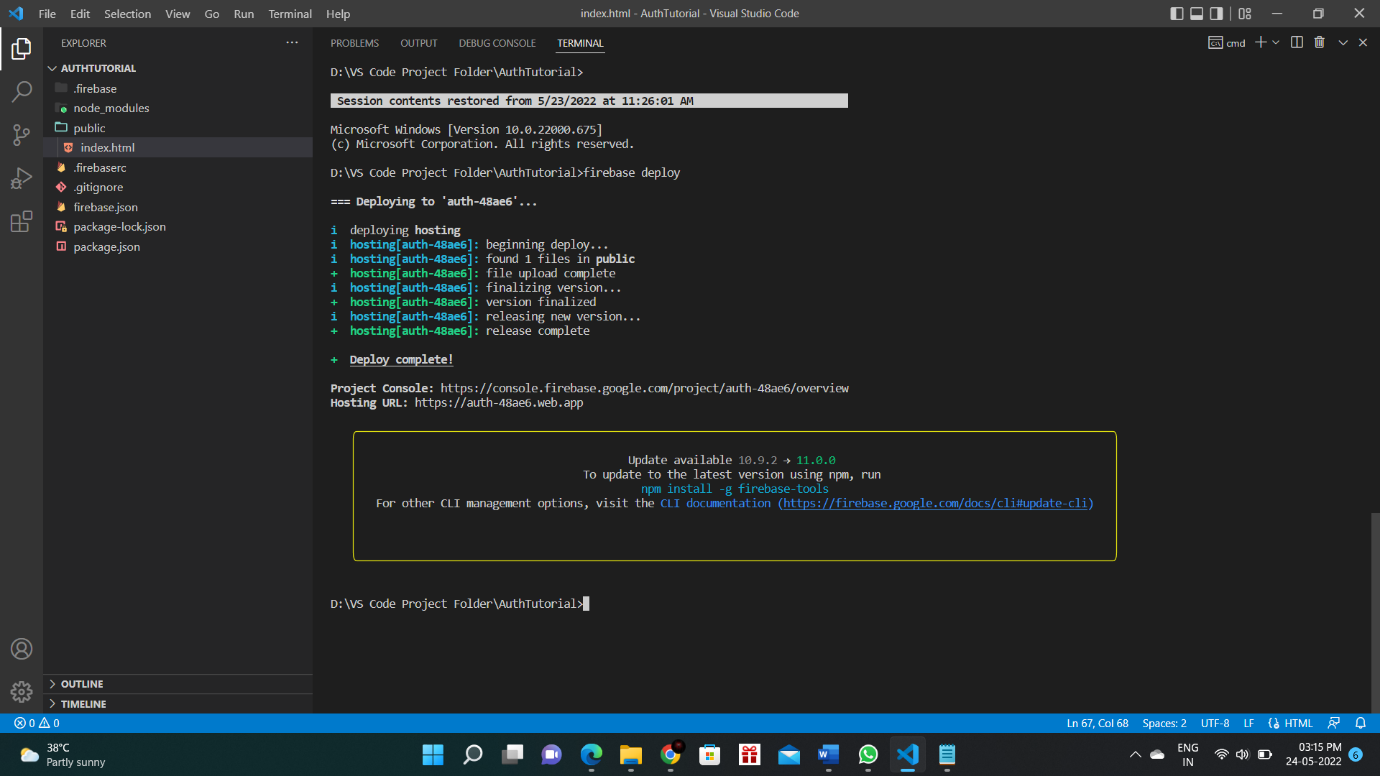


**Step 6:** Go to the web application in the firebase console and copy paste the npm javascritpt codes into the project.



**Step 7:** Use “firebase init” command to enable the firebase services into the project.

**Step 8:** Use “firebase deploy” command to deploy the web application.



**Program codes:**

**Index.html:**

<!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>Document</title>

</head>

<body>

<h1>Authentication as a Service</h1>

<div id="LoginScreen">

<button id="login">Login with Google</button>

</div>

<div id="dashboard">

<div id="userDetails"></div>

<button id="logout">Logout</button>

</div>

<script src="https://www.gstatic.com/firebasejs/8.0.1/firebase-app.js"></script>

<script src="https://www.gstatic.com/firebasejs/8.0.0/firebase-auth.js"></script>

<script type="module">

// Import the functions you need from the SDKs you need

// import { initializeApp } from "https://www.gstatic.com/firebasejs/9.8.1/firebase-app.js";

// import { getAnalytics } from "https://www.gstatic.com/firebasejs/9.8.1/firebase-analytics.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

// For Firebase JS SDK v7.20.0 and later, measurementId is optional

const firebaseConfig = {

apiKey: "AIzaSyD001b0IvgLnwToPtJkL6OJKWSdF1r3uU4",

authDomain: "auth-48ae6.firebaseapp.com",

projectId: "auth-48ae6",

storageBucket: "auth-48ae6.appspot.com",

messagingSenderId: "89491598338",

appId: "1:89491598338:web:ed864d1261b32b14eb0b1b",

measurementId: "G-33X5HEE8HJ"

};

// Initialize Firebase

firebase.initializeApp(firebaseConfig);

// const analytics = getAnalytics(app);

let provider = new firebase.auth.GoogleAuthProvider();

document.getElementById("dashboard").style.display = "none";

document.getElementById("login").addEventListener("click", GoogleLogin);

document.getElementById("logout").addEventListener("click", LogoutUser);

function GoogleLogin() {

console.log("Login");

firebase.auth().signInWithPopup(provider).then(res => {

console.log(res.user);

document.getElementById("LoginScreen").style.display = "none";

document.getElementById("dashboard").style.display = "block";

showUserDetails(res.user);

}).catch(e => {

console.log(e);

})

}

function LogoutUser() {

console.log("Logout");

document.getElementById("LoginScreen").style.display = "block";

document.getElementById("dashboard").style.display = "none";

}

function showUserDetails(user) {

document.getElementById("userDetails").innerHTML = `

<img src="${user.photoURL}" style="width:10%">

<p>Name: ${user.displayName}</p>

<p>Email: ${user.email}</p>

`

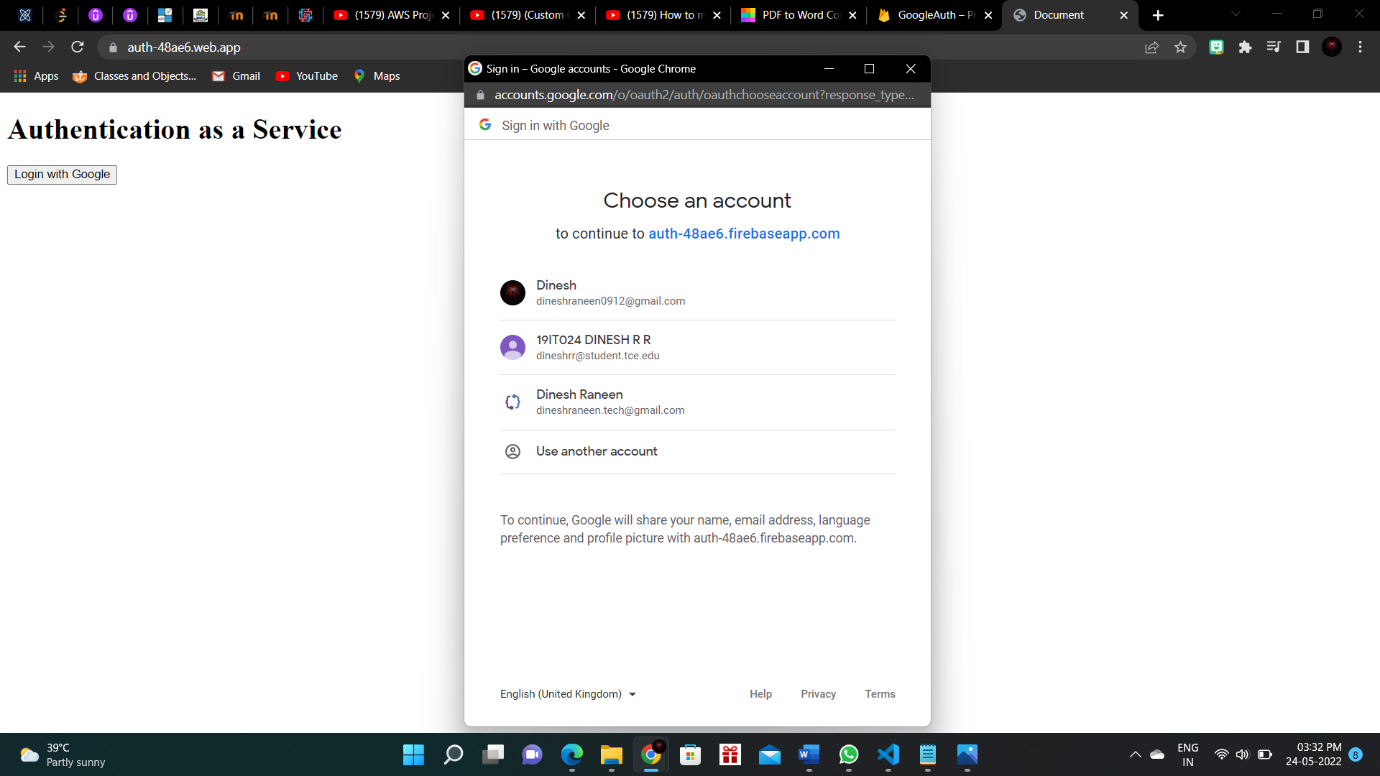
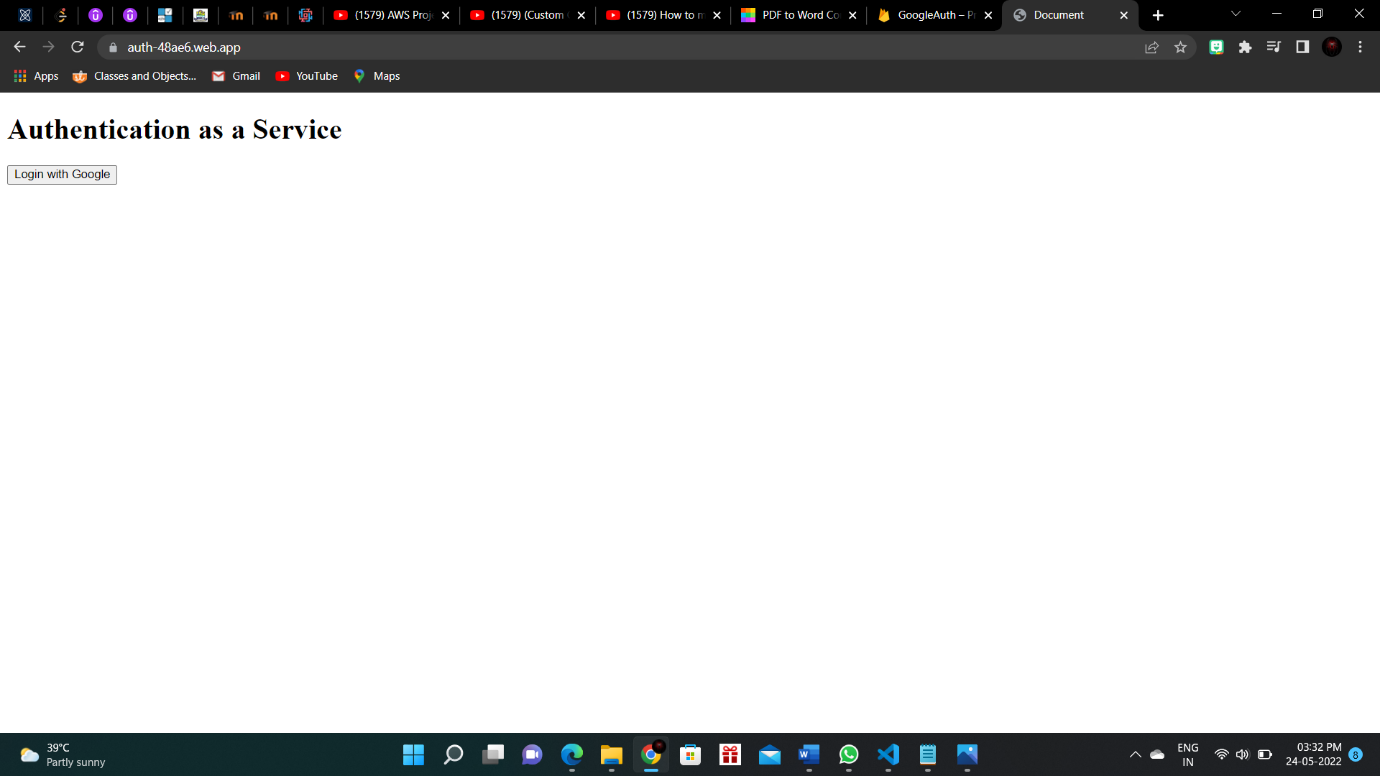
}

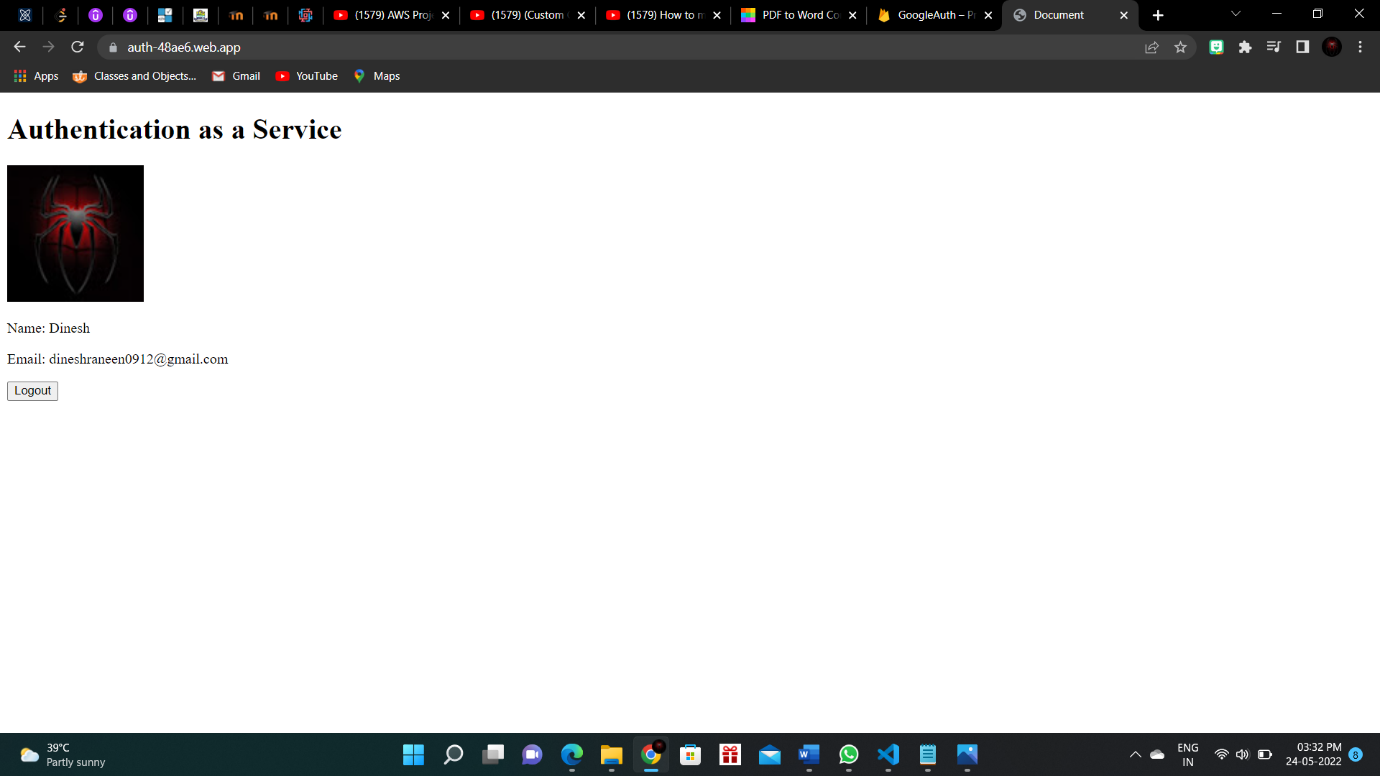
</script>

</body>

</html>

**Output Screenshots:**





**Result:**

Thus, Identification as a Service has been successfully enabled in nodejs application using firebase.