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In this chapter, we will authenticate users with Firebase Facebook authentication.

## Step 1 - Enable Facebook Auth

We need to open Firebase dashboard and click **Auth** in side menu. Next, we need to choose **SIGN-IN-METHOD** in tab bar. We will enable Facebook auth and leave this open since we need to add **App ID** and **App Secret** when we finish step 2.

## Step 2 - Create Facebook App

To enable Facebook authentication, we need to create the Facebook app. Click on this link to start. Once the app is created, we need to copy **App ID** and **App Secret** to the Firebase page, which we left open in step 1. We also need to copy **OAuth Redirect URI** from this window into the Facebook app. You can find **+ Add Product** inside side menu of the Facebook app dashboard.

Choose **Facebook Login** and it will appear in the side menu. You will find input field **Valid OAuth redirect URIs** where you need to copy the **OAuth Redirect URI** from Firebase.

## Step 3 - Connect to Facebook SDK

Copy the following code at the beginning of the **body** tag in **index.html**. Be sure to replace the '**APP\_ID**' to your app id from Facebook dashboard.

### Example

Let us consider the following example.

```
<script>
window.fbAsyncInit = function() {
  FB.init ({
    appId      : 'APP_ID',
    xfbml      : true,
    version     : 'v2.6'
  });
};

(function(d, s, id) {
  var js, fjs = d.getElementsByTagName(s)[0];
  if (d.getElementById(id)) {return;}
  js = d.createElement(s); js.id = id;
  js.src = "//connect.facebook.net/en_US/sdk.js";
  fjs.parentNode.insertBefore(js, fjs);
} (document, 'script', 'facebook-jssdk'));

</script>
```

## Step 4 - Create Buttons

We set everything in first three steps, now we can create two buttons for login and logout.

index.html

```
<button onclick = "facebookSignIn()">Facebook SignIn</button>
<button onclick = "facebookSignout()">Facebook Signout</button>
```

## Step 5 - Create Auth Functions

This is the last step. Open **index.js** and copy the following code.

index.js

```
var provider = new firebase.auth.FacebookAuthProvider();

function facebookSignIn() {
  firebase.auth().signInWithPopup(provider)
```

```
.then(function(result) {  
  var token = result.credential.accessToken;  
  var user = result.user;  
  
  console.log(token)  
  console.log(user)  
}).catch(function(error) {  
  console.log(error.code);  
  console.log(error.message);  
});  
}  
  
function facebookSignout() {  
  firebase.auth().signOut()  
  
  .then(function() {  
    console.log('Signout successful!')  
  }, function(error) {  
    console.log('Signout failed')  
  });  
}
```

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