



**Ganpat
University**

॥ विद्यया समाजोत्कर्षः ॥

**Institute of
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Sub: EADC (Enterprise Application Development for Cloud)

Branch: CBA

Batch:61

-----PRACTICAL 15-----

❖ **AIM :**

Securing a web application with single sign-on using NodeJS.

1. Create AppID service instance through IBM cloud.
2. Customize the AppID instance according to requirements.
3. Bind application with AppID service.

» **Question 1 : Create AppID service instance through IBM cloud.**

Navigate App ID service than create with name it and create.

IBM Cloud

Search resources and products...

Catalog Manage Tushar Panchal's Account

App ID

User Authentication and User Profiles for your apps.

Create About

Type Service

Provider IBM

Last updated 10/02/2023

Category Security

Compliance EU Supported Financial Services Validated HIPAA Enabled IAM-enabled

Location Sydney Frankfurt London Tokyo Washington DC Dallas

Select a location

London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features and capabilities	Pricing
Lite	1000 monthly events and 1000 authorized users. Authentication events occur when a token is issued. Tokens can be issued as a response to a sign-in request initiated by a user, or on behalf of the user by an app. Authenticated tokens last for 1 hour and anonymous tokens last for 30 days. Authorized users include any unique users that log in by using your service, including anonymous users. Example: If a user logs in with Facebook and later logs in by using Google, they are considered two separate authorized users.	Free

Financial Services Validated

Summary

App ID

Location: London

Plan: Lite

Service name: App ID-cv

Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

As we can see in below screenshot that service is created

IBM Cloud

Search resources and products...

Catalog Manage Tushar Panchal's Account

Resource list / App ID-Tushar Active Add tags

Details Actions...

Overview

Manage Authentication

Cloud Directory

Identity Providers

Profiles and roles

Login Customization

Applications

Service credentials

Plan

Welcome to App ID

Begin building secure and engaging digital applications with App ID authentication by following this step-by-step walkthrough. Get started with a working sample.

Download sample

Already have an application? Learn how to add App ID.

★ Explore App ID

- Getting started? Explore related links and samples to learn more about App ID.
- Catch up with the latest news from App ID. View the release notes.
- Learn how to get the most out of App ID. Go to our docs page.
- Protect your Node.js front-end web applications with App ID. Get started with a simple authentication flow in less than 20 minutes by following this guide.
- Ensure the security of your Liberty for Java back-end applications with App ID. In less than 20 minutes, get a simple authentication flow up and running by using this guide.
- Harness the power of user attributes with App ID. Learn how to customize your user experience with this step-by-step guide.

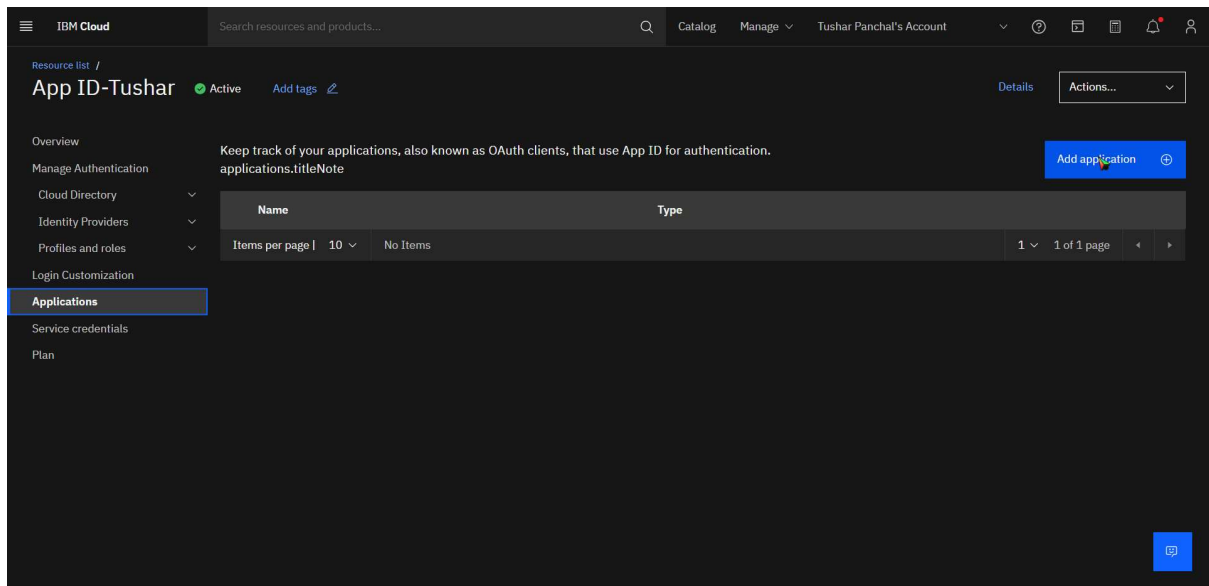
Watch tutorials

Check out the tutorials on our Youtube channel.

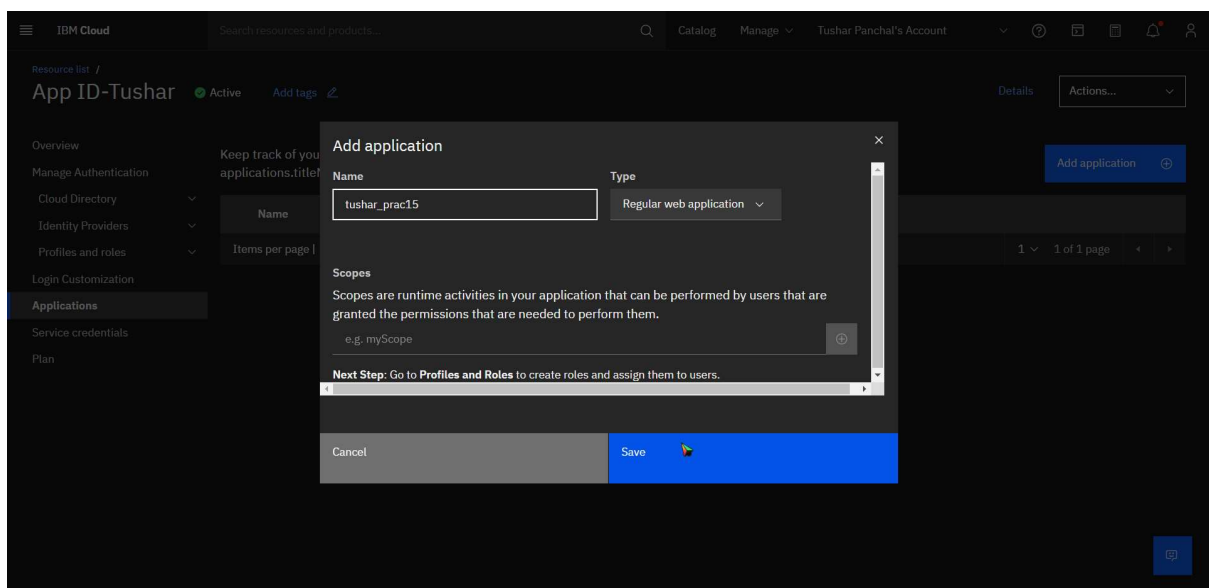
White Paper

The App ID Whitepaper covers a range of topics, including an overview of the App ID service, our development and operations principles, App ID usage

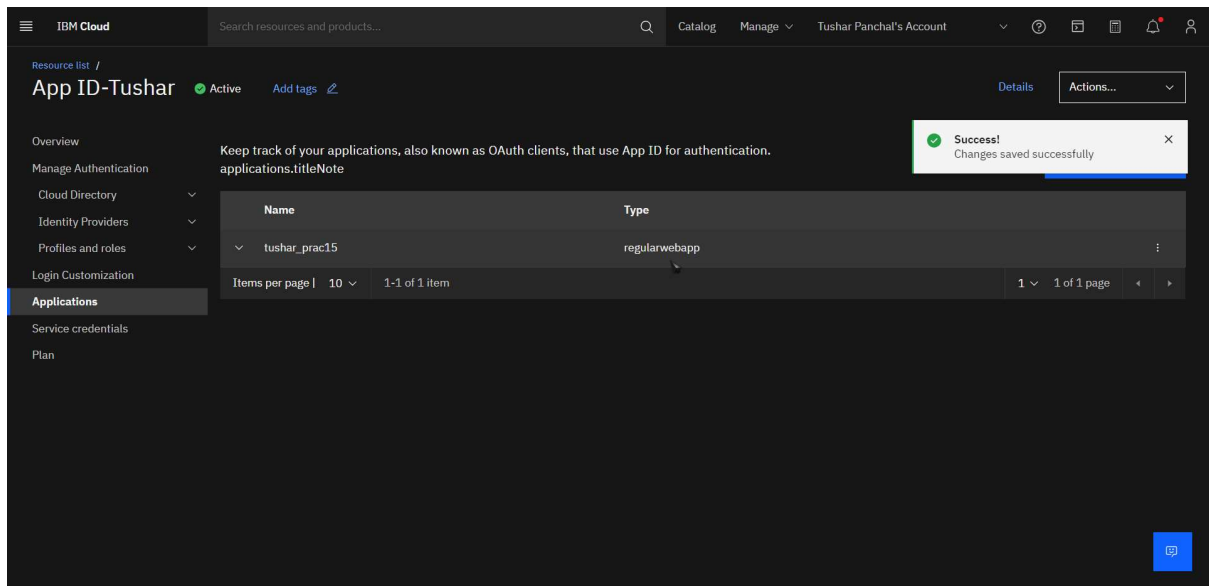
Now go open application and click on “Add application”



Give application name “tushar_prac15” and set type :- “regular web application”

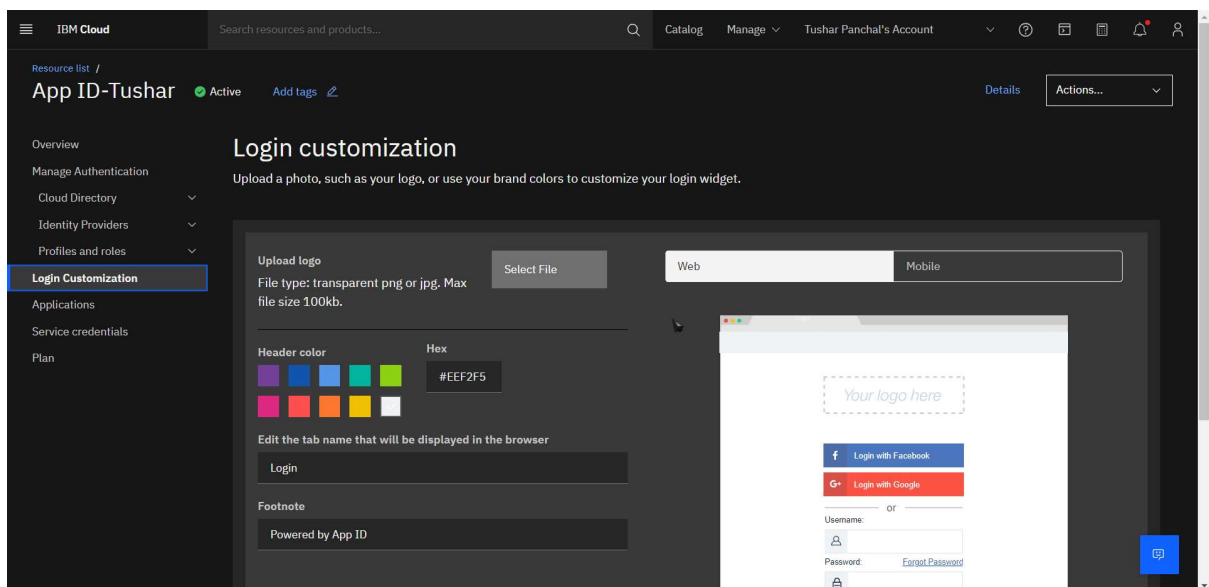


As we can see application is created

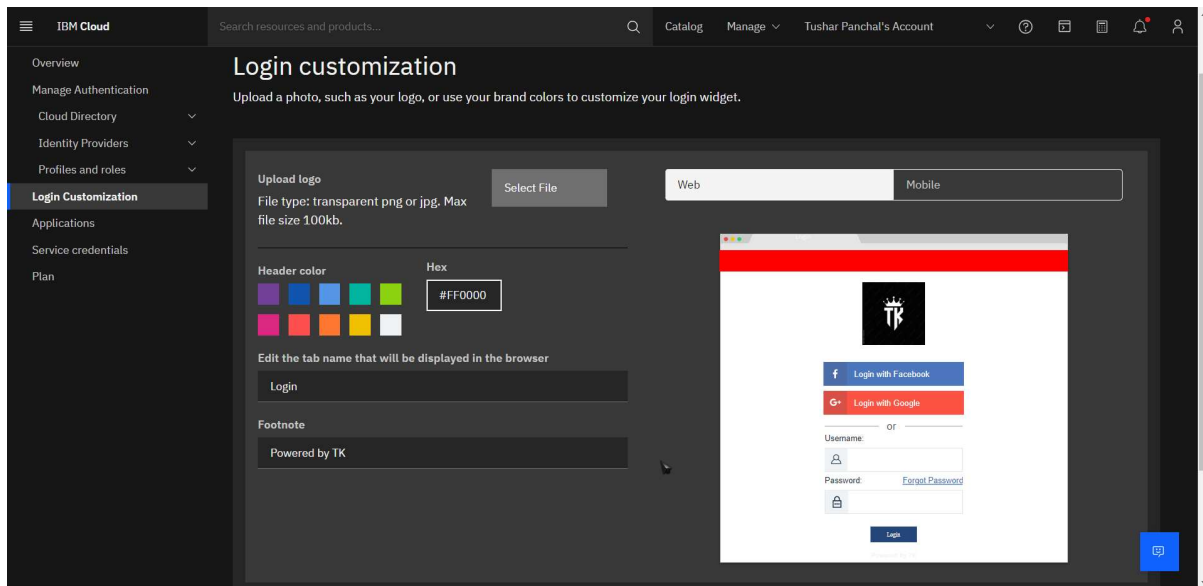


» Question 2 : Customize the AppID instance according to requirements.

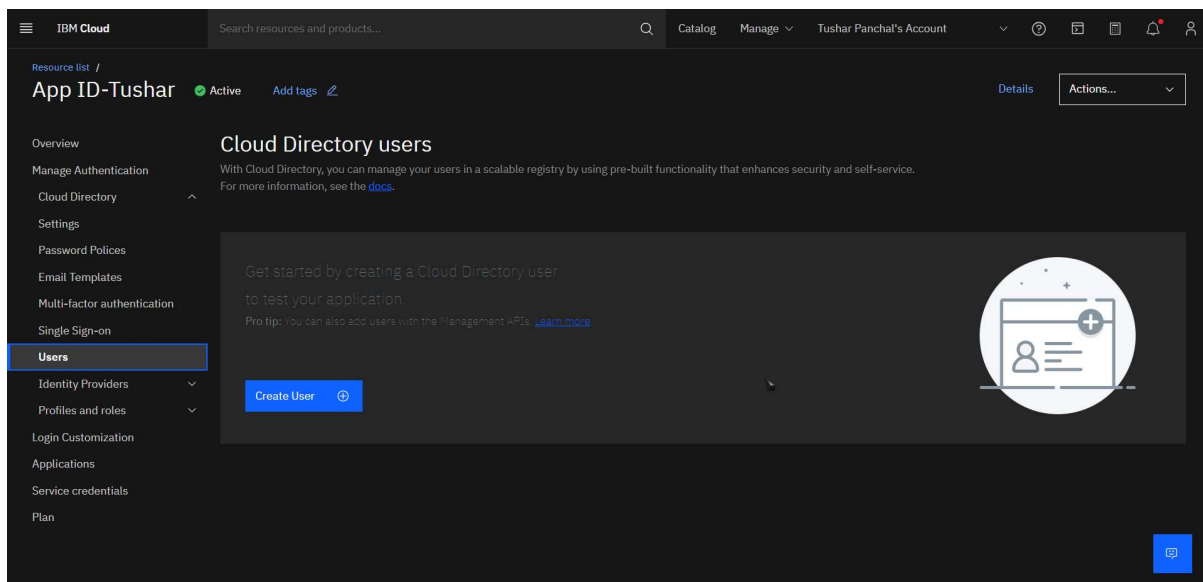
Now open login customization to do customization for web page



I added profile pic and change Header color :- "red" than save changes



Now go users and click on “create user”



Then set user “first name”, “last name”, “email” and “password” for test the application then click on save

IBM Cloud

Search resources and products...

App ID-Tushar

Cloud Directory

Overview

Manage Authentication

Cloud Directory

Settings

Password Policies

Email Templates

Multi-factor authentication

Single Sign-on

Users

Identity Providers

Profiles and roles

Login Customization

Applications

Service credentials

Plan

Add a user to test your application

First Name: Tushar

Last Name: Panchal

Email: tusharpanchal21@gnu.ac.in

Password:

Re-enter Password:

Show password

Note: Users created in the dashboard are signed up and validated when they are added. They do not receive an email verification.

Cancel Save

Cloud directory users is created

IBM Cloud

Search resources and products...

App ID-Tushar

Cloud Directory users

With Cloud Directory, you can manage your users in a scalable registry by using pre-built functionality that enhances security and self-service. For more information, see the [docs](#).

Total numbers of Cloud Directory users: 1

Enter complete email

Last refreshed: April 27, 2024 10:38 PM

Create User

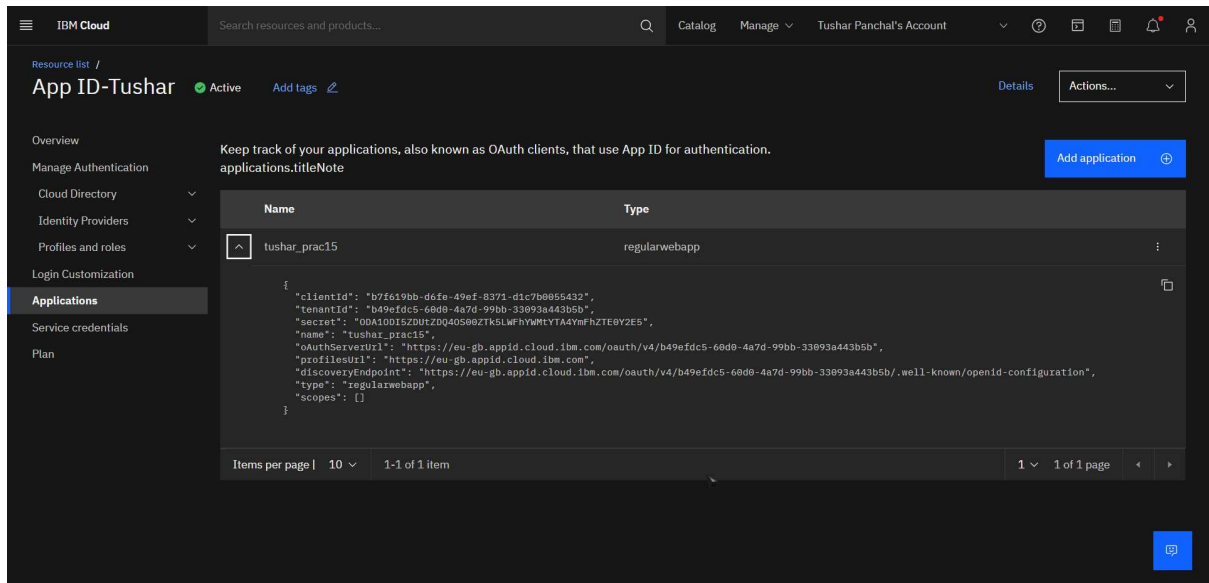
Email	First Name	Last Name	Last Login	Status
tusharpanchal21@gnu.ac.in	Tushar	Panchal	Verified	Verified

Items per page | 10 | 1-1 of 1 item

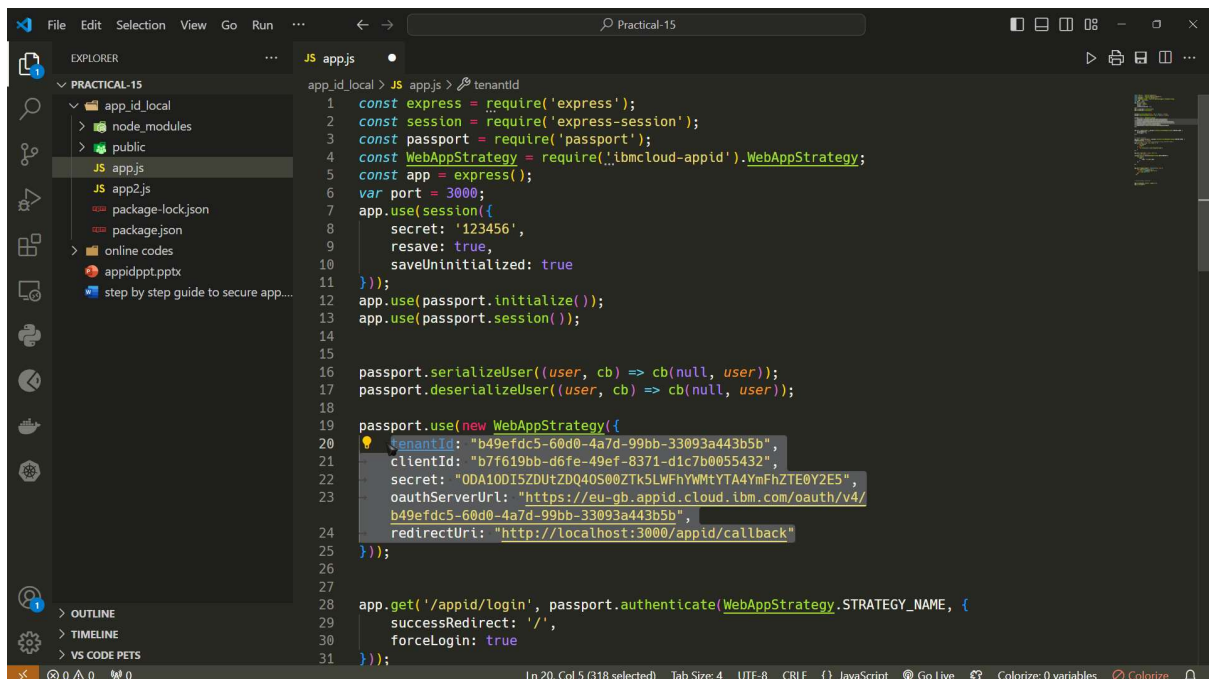
1 | 1 of 1 page

» Question 3 : Bind application with AppID service.

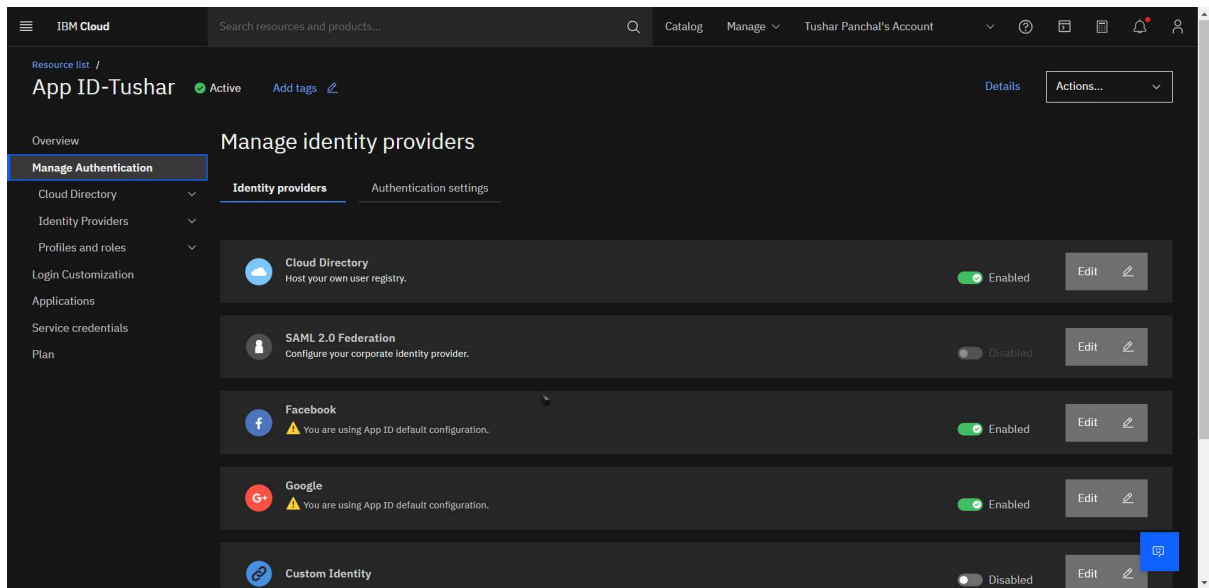
Now to bind the application go on AppID



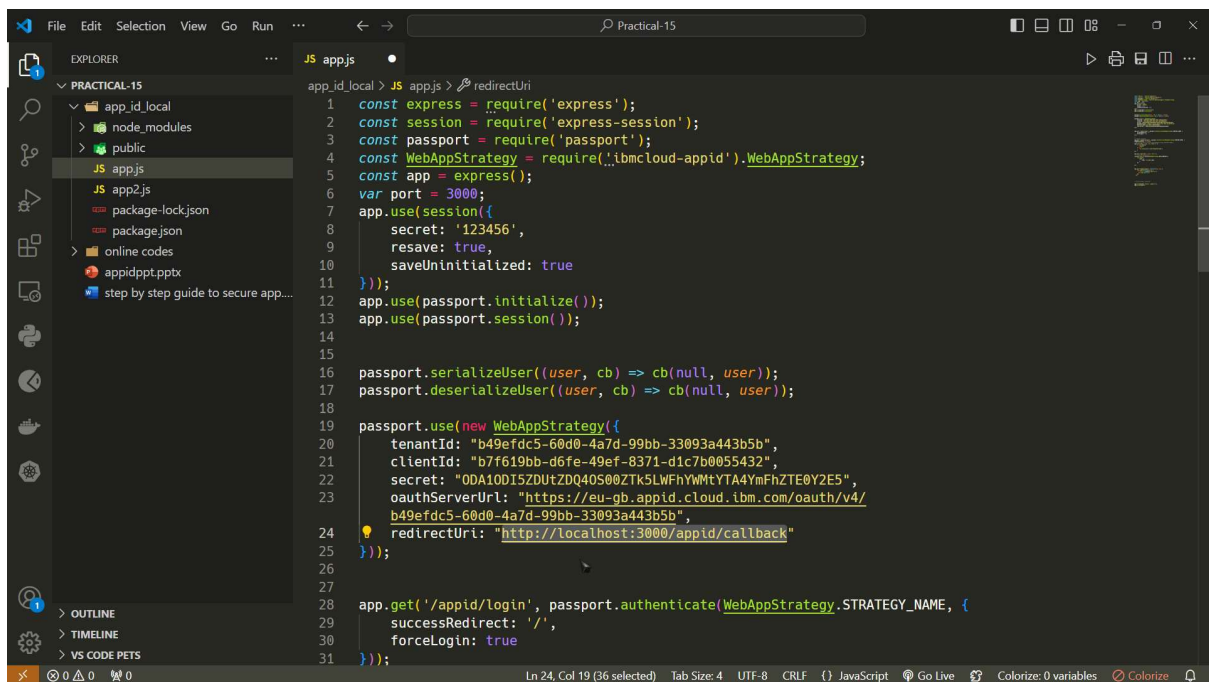
Now open code of practical-15 and change app.js "tenantID", "clientId", "secret", "oauthServerUrl" from application that we created in AppID

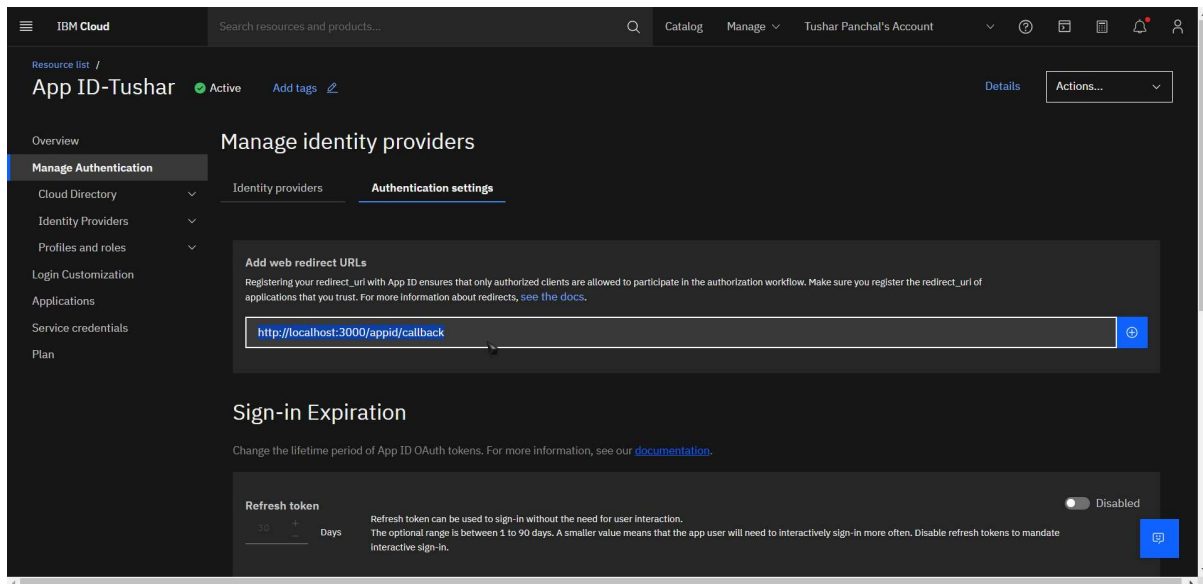


Now open manage authentication

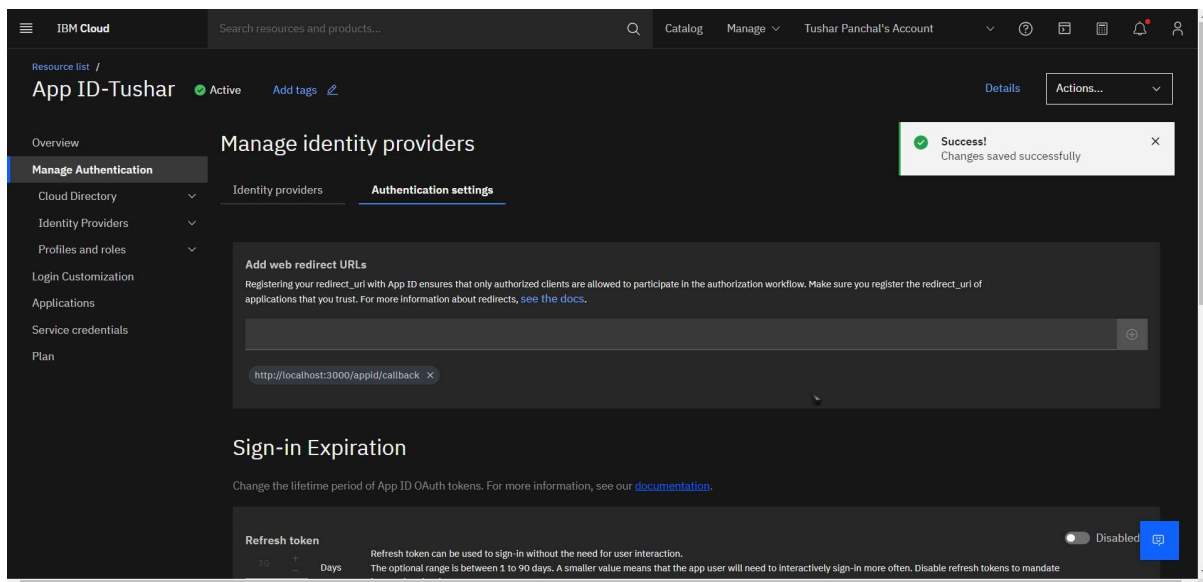


Then open code and add this “redirectUrl” to manage identity providers





Redirect url is added successfully

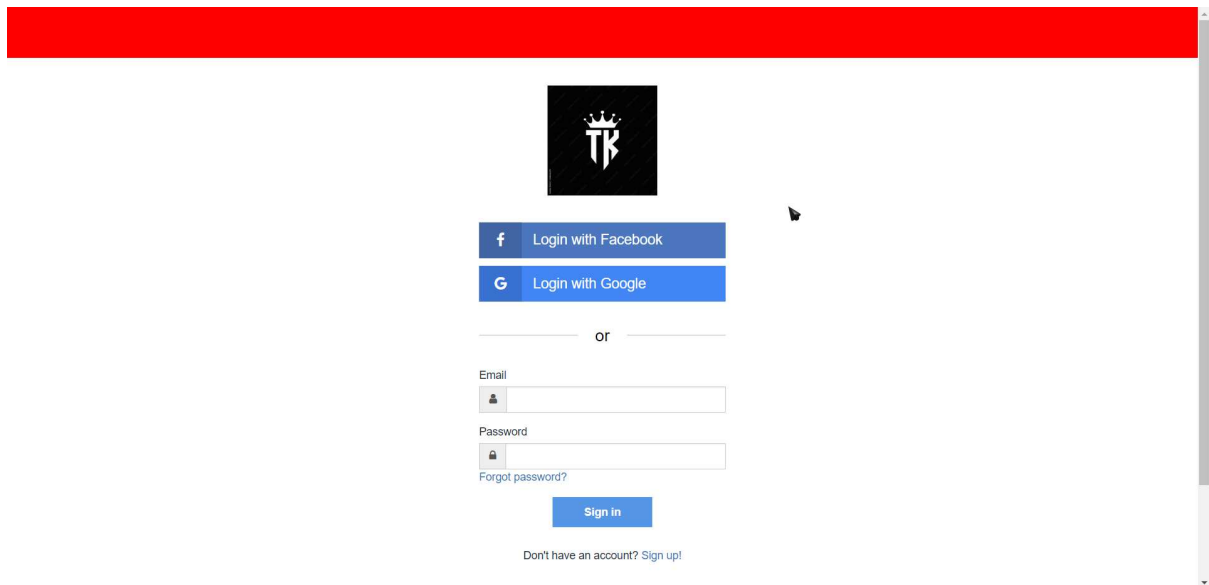


Now run the code of app.js command :- node app.js code is running on 3000 port

```

C:\Users\Tushar\Documents\SEM 6\EADC\Practical-15\app_id_local>node app.js
[2024-04-27T22:44:32.146] [INFO] appid-sdk - Initialized
[2024-04-27T22:44:32.269] [INFO] appid-WebAppStrategy-config - clientId b7f619bb-d6fe-49ef-8371-d1c7b0055432
[2024-04-27T22:44:32.269] [INFO] appid-WebAppStrategy-config - tenantId b49efdc5-60d0-4a7d-99bb-33093a443b5b
[2024-04-27T22:44:32.269] [INFO] appid-WebAppStrategy-config - secret [CANNOT LOG SECRET]
[2024-04-27T22:44:32.269] [INFO] appid-WebAppStrategy-config - oauthServerUrl https://eu-gb.appid.cloud.ibm.com/oauth/v4/b49efdc5-60d0-4a7d-99bb-33093a443b5b
[2024-04-27T22:44:32.269] [INFO] appid-WebAppStrategy-config - redirectUri http://localhost:3000/appid/callback
  
```

Now as we can see AppID site is working perfectly now "login with google"



10

TB

Login with Facebook

Login with Google

or

Email

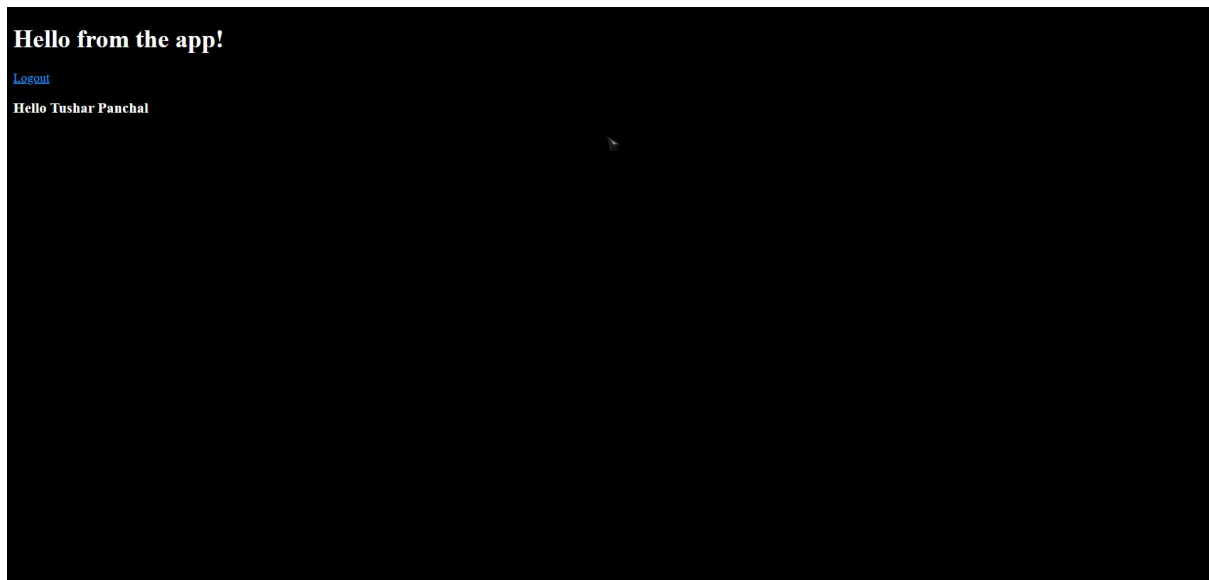
Password

[Forgot password?](#)

Sign in

[Don't have an account? Sign up!](#)

Click on login



As we can see in below screenshot that login successfully and it's gives me "hello TUSHAR PANCHAL"

Than see it's logout or not it's logout successful

Its login successfully

