

# BUILDING END-TO-END SERVERLESS WEB APPLICATION

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## 1. Create IAM User named “testuser” and open in incognito tab with given console

Create user | IAM | Global

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/users/create

Step 3  
Review and create

Step 4  
Retrieve password

User name  
testuser  
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and +, =, @, \_ (hyphen)

☒ Provide user access to the AWS Management Console - optional  
If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

**Are you providing console access to a person?**

User type

☐ Specify a user in Identity Center - Recommended  
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

☒ I want to create an IAM user  
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

☒ Autogenerated password  
You can view the password after you create the user.

☐ Custom password  
Enter a custom password for the user.

☐ Show password

☐ Users must create a new password at next sign-in - Recommended  
Users automatically get the `IAMUserChangePassword` policy to allow them to change their own password.

CloudShell Feedback

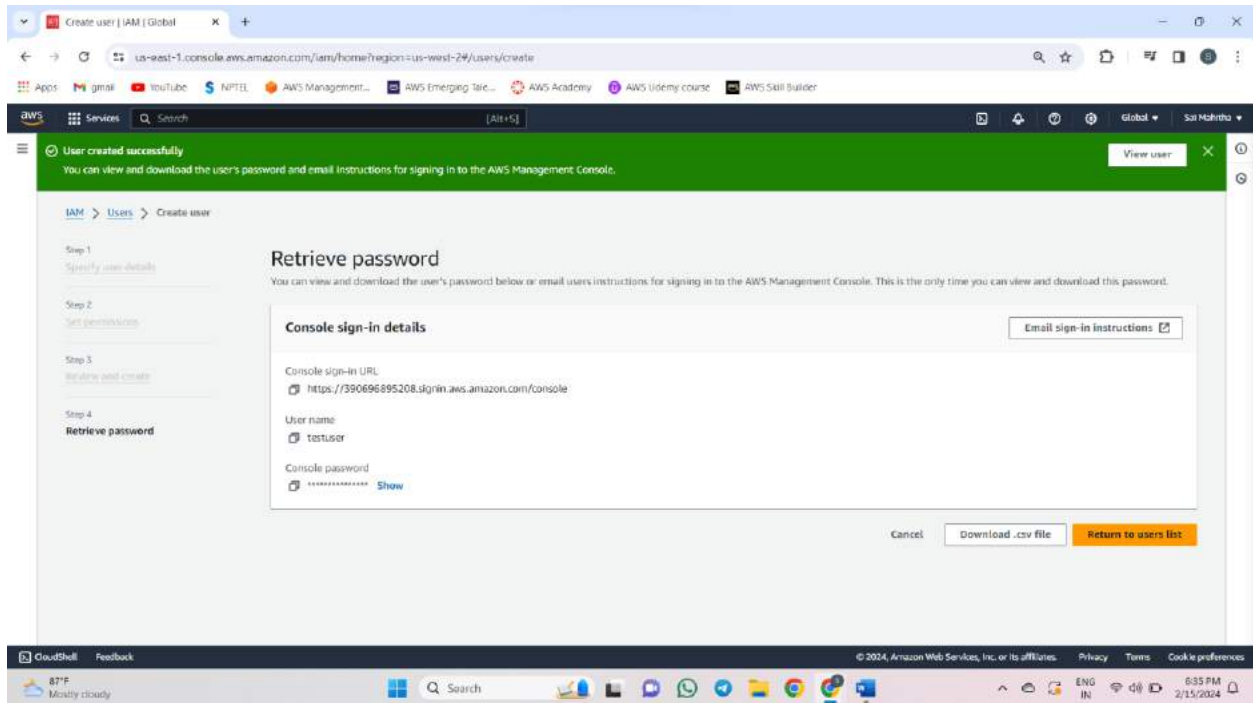
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87°F Mostly cloudy

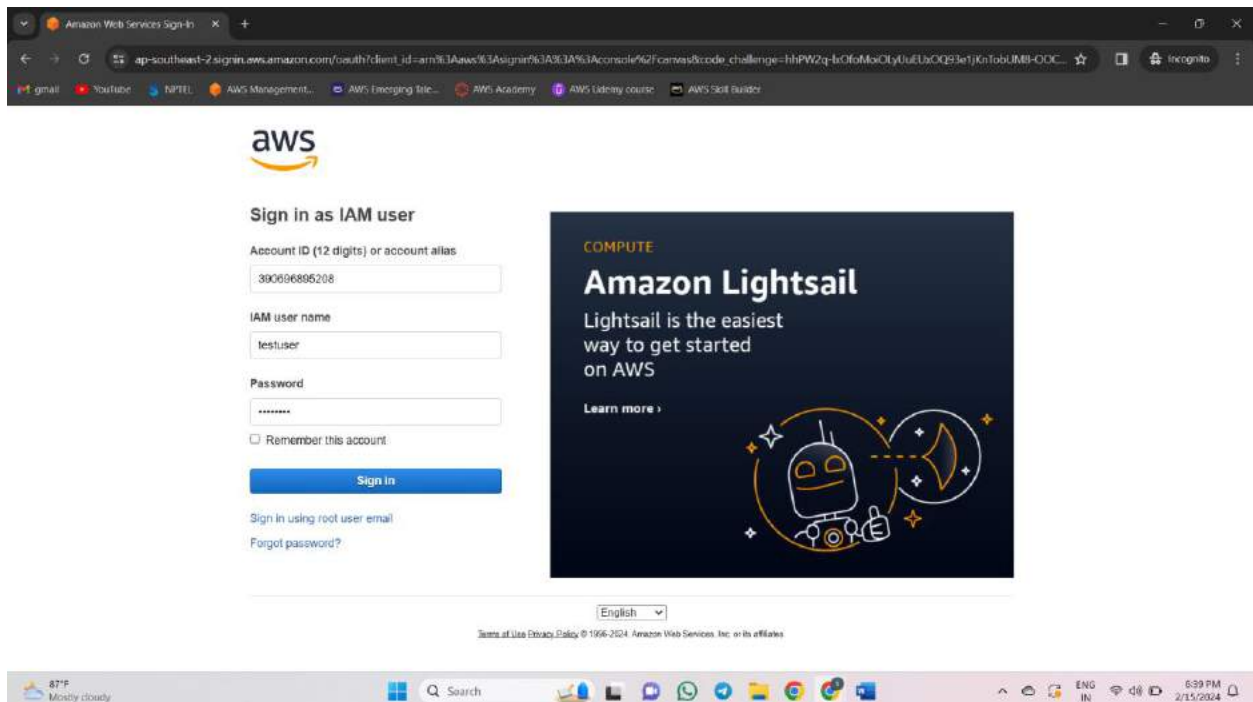
Search

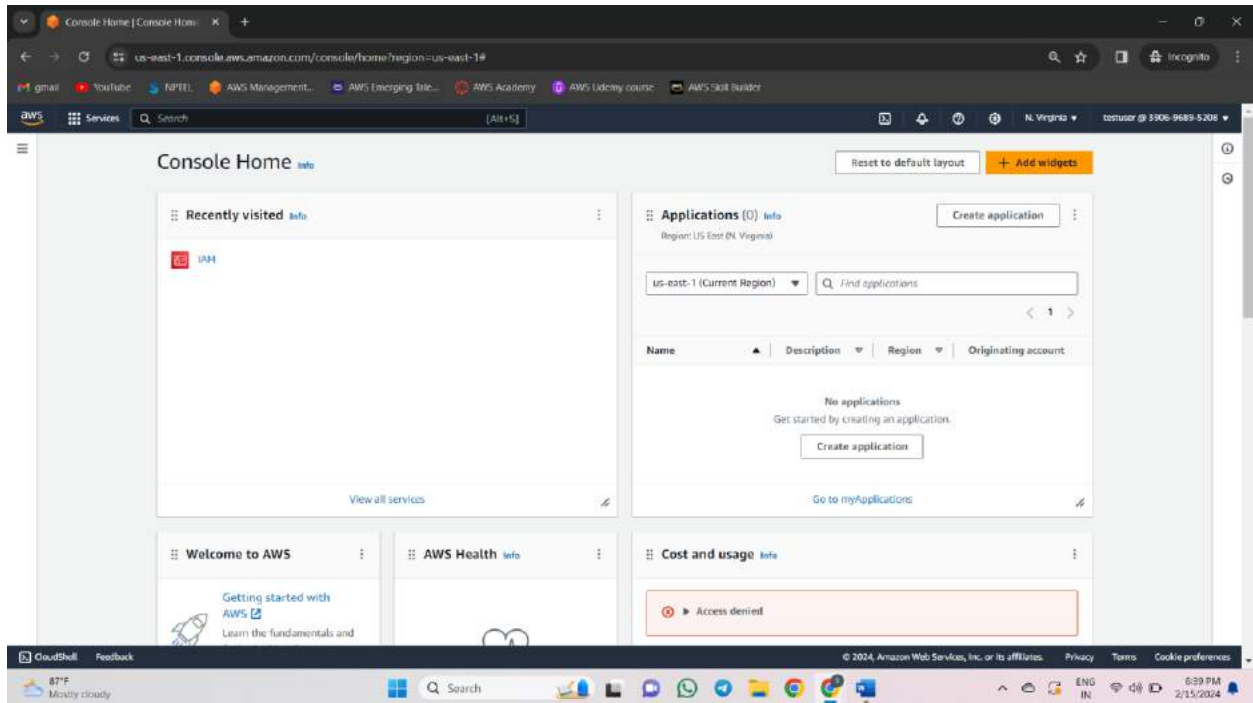
ENG IN

6:32 PM 2/15/2024

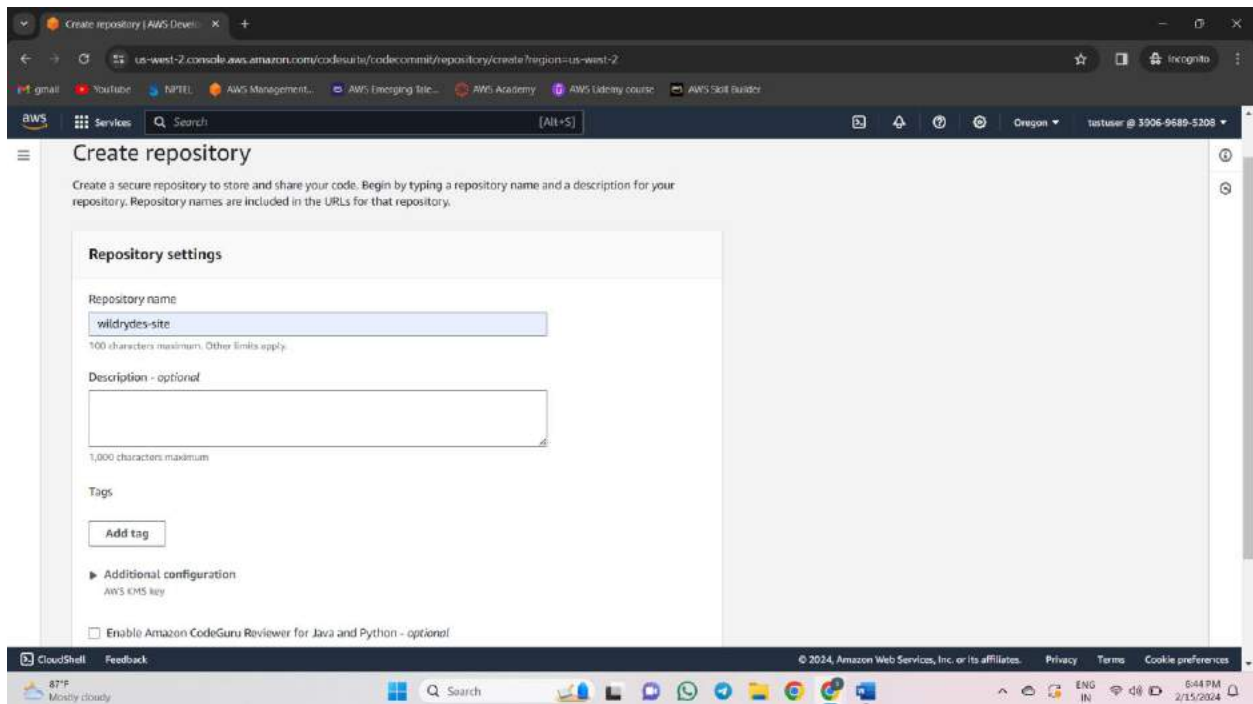


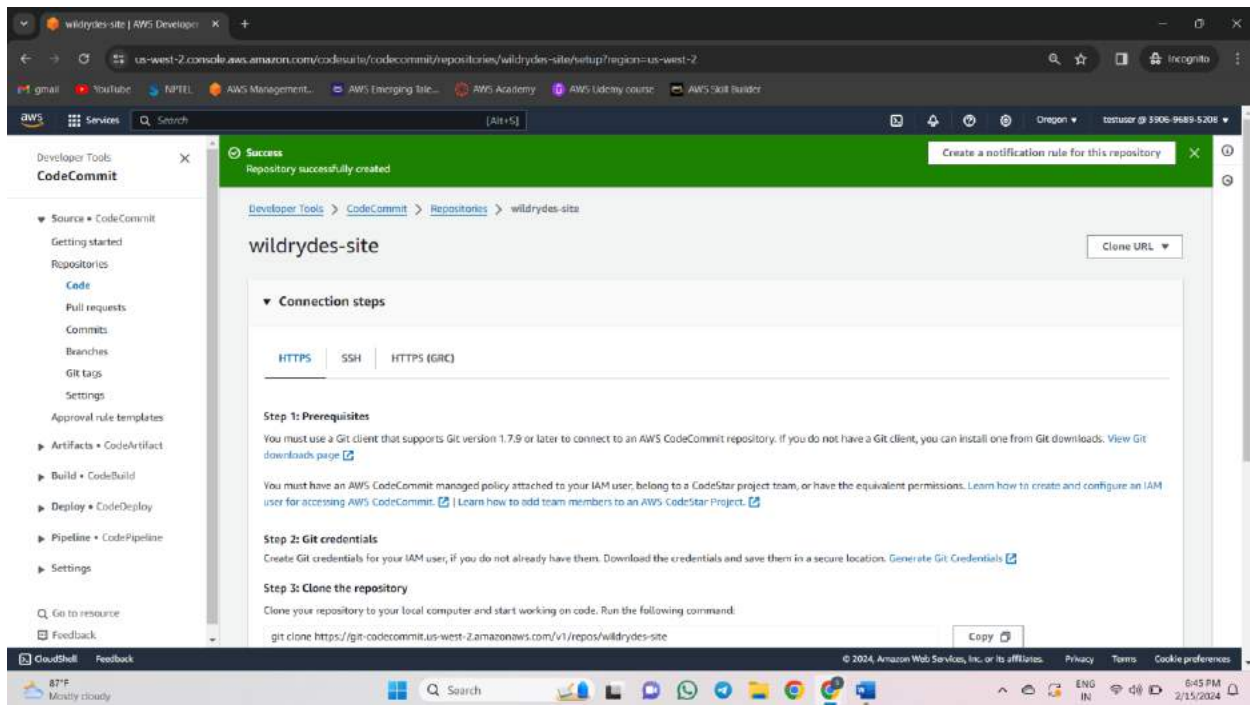
## 2. Open AWS IAM user account using the credentials



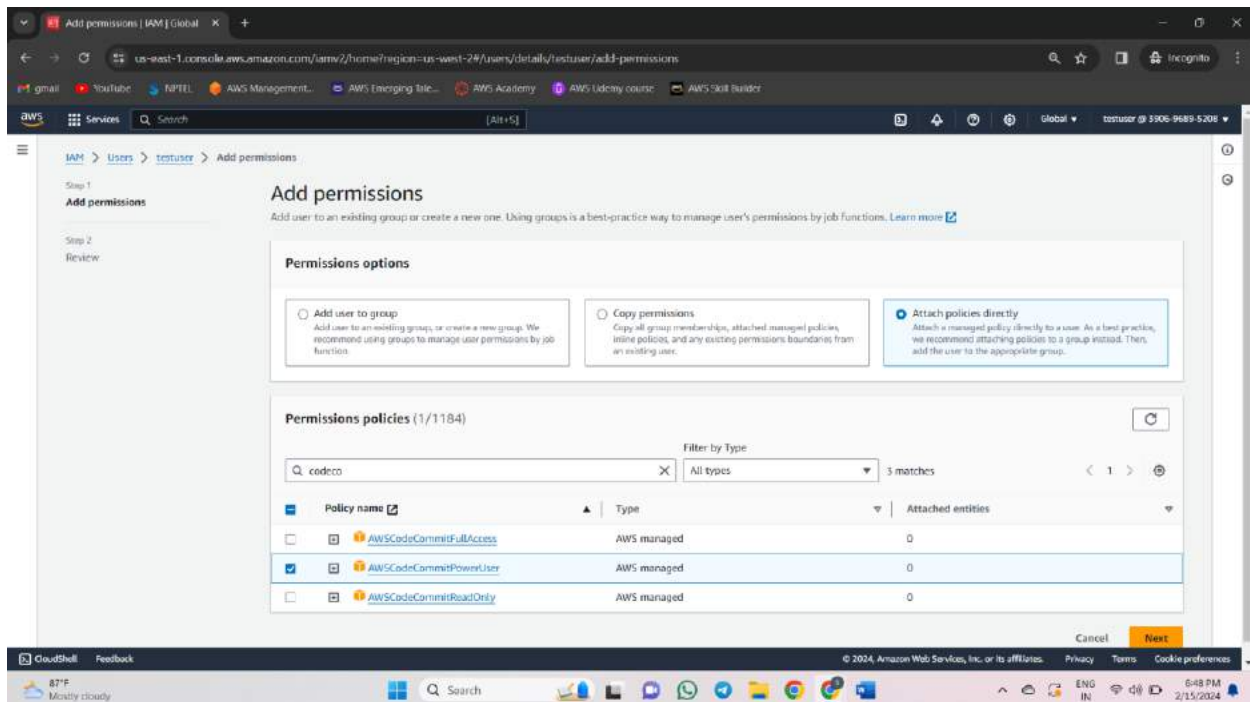


### 3. Create a repository in CodeCommit named “wildrydes-site”

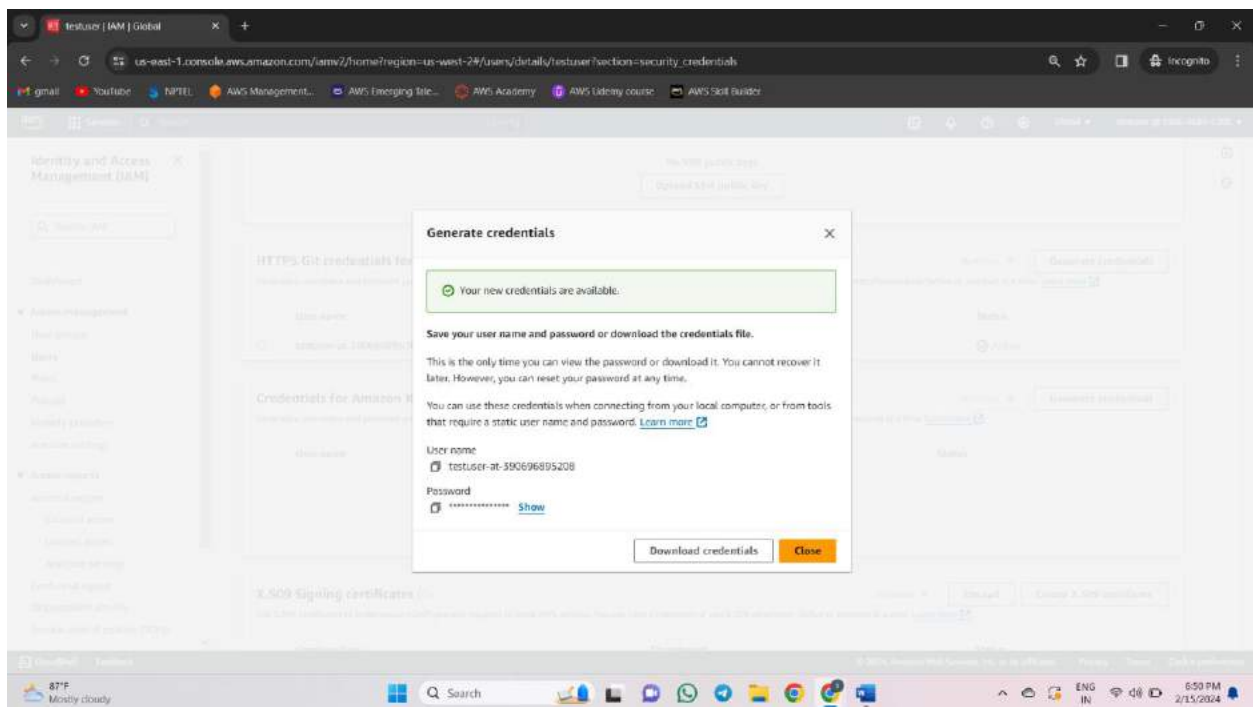




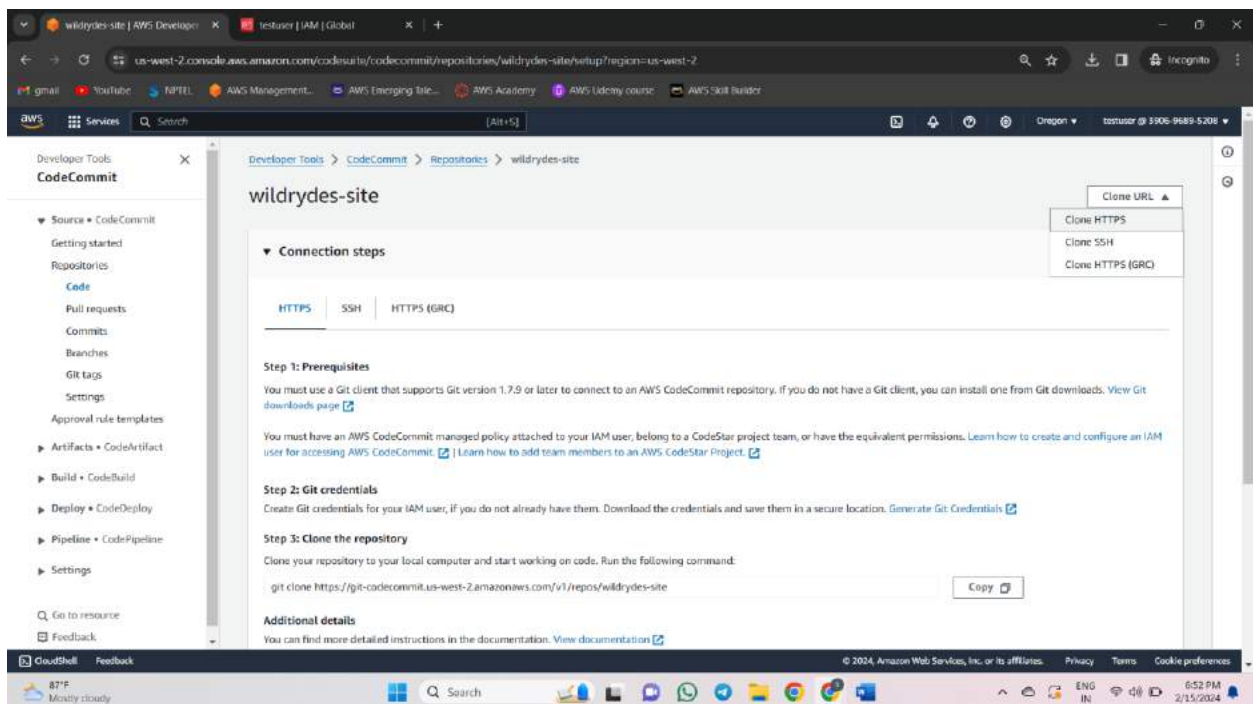
#### 4. Add a policy to your IAM user "testuser"



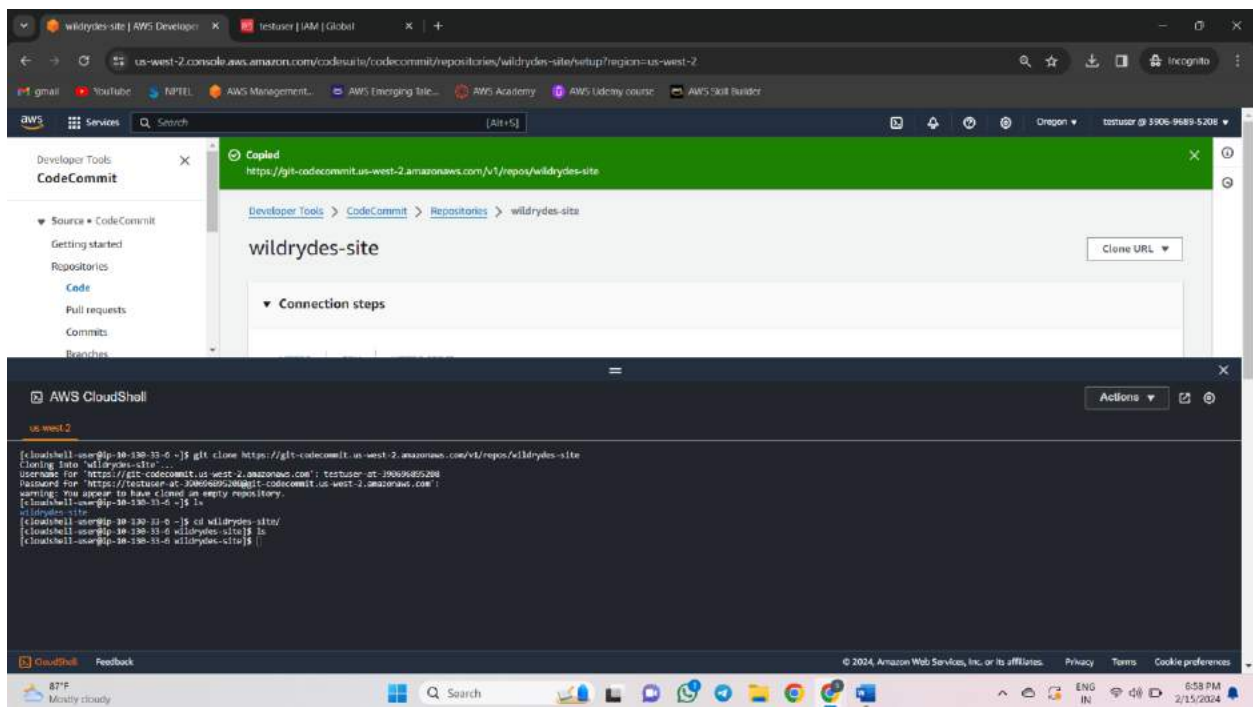
## 5. Go to security credentials and generate credentials



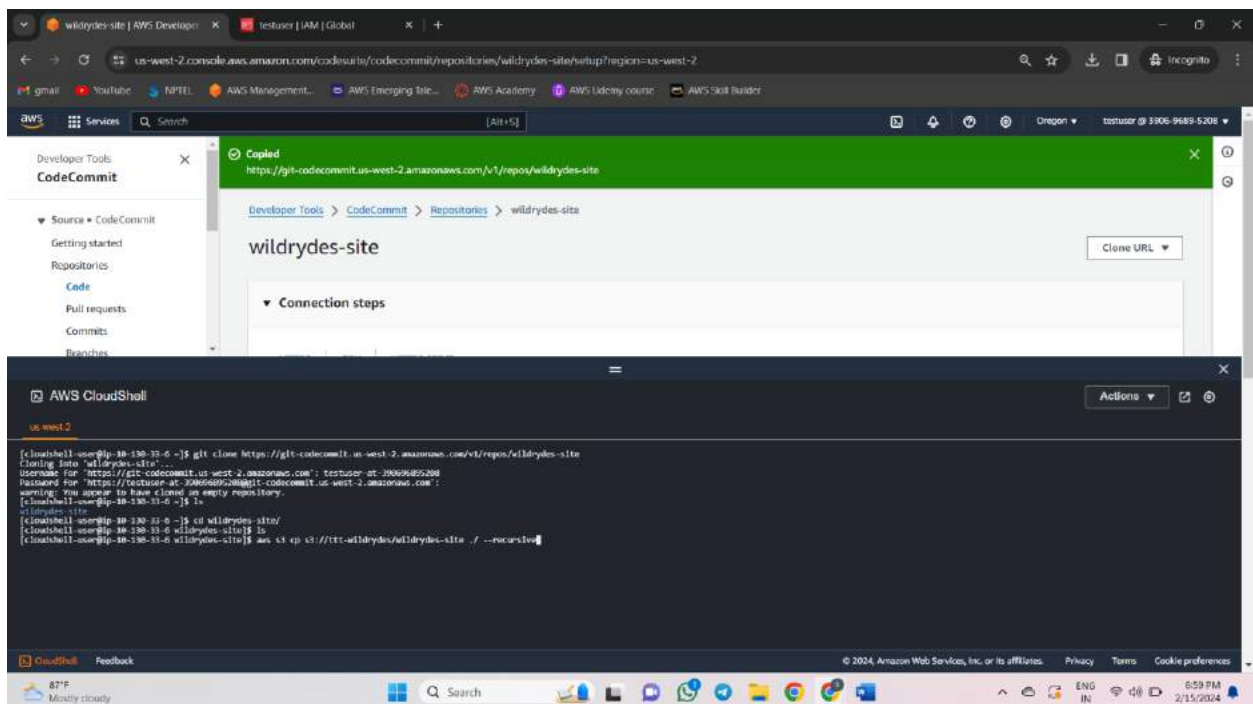
## 6. Clone the url in CodeCommit



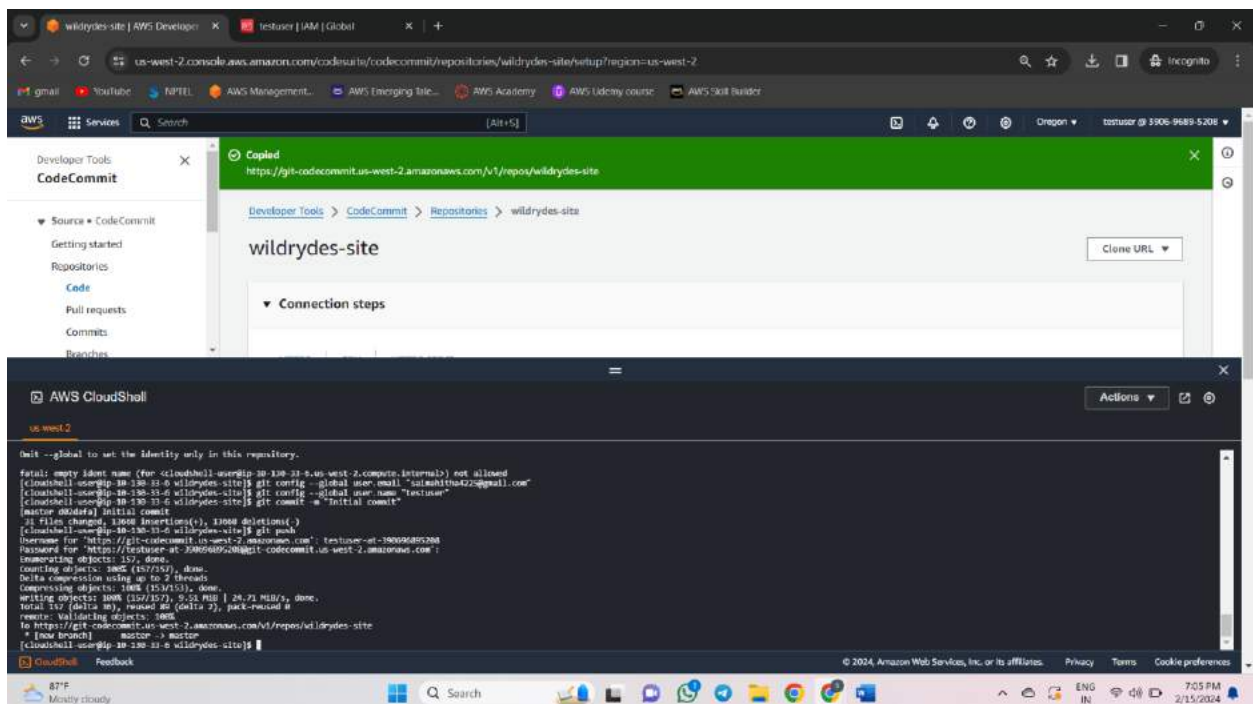
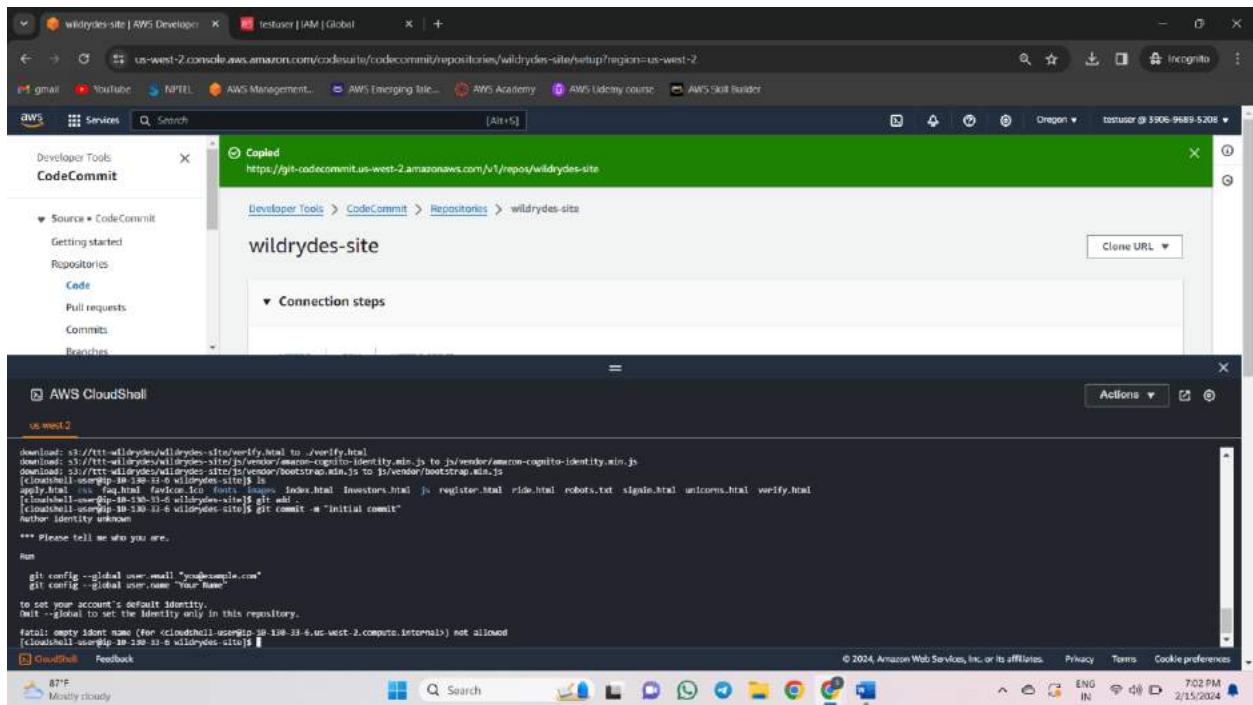
## 7. Open cloud shell and clone an empty repository



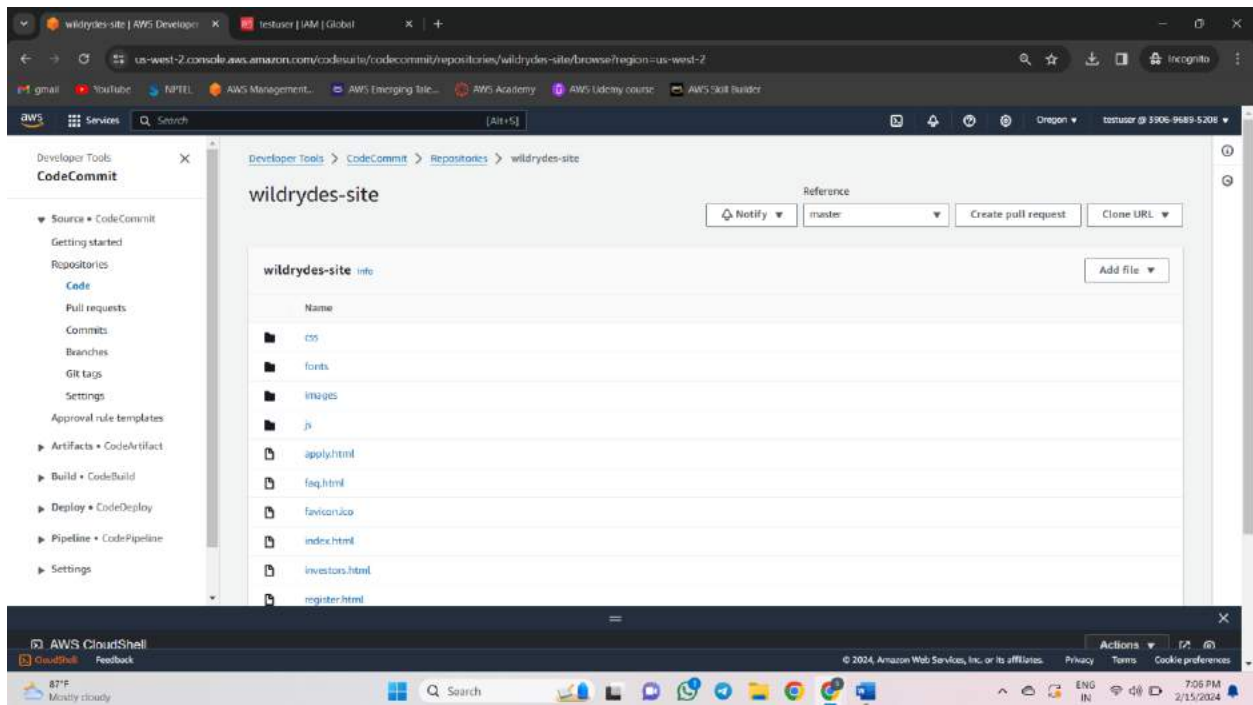
## 8. Copy project code from s3 bucket



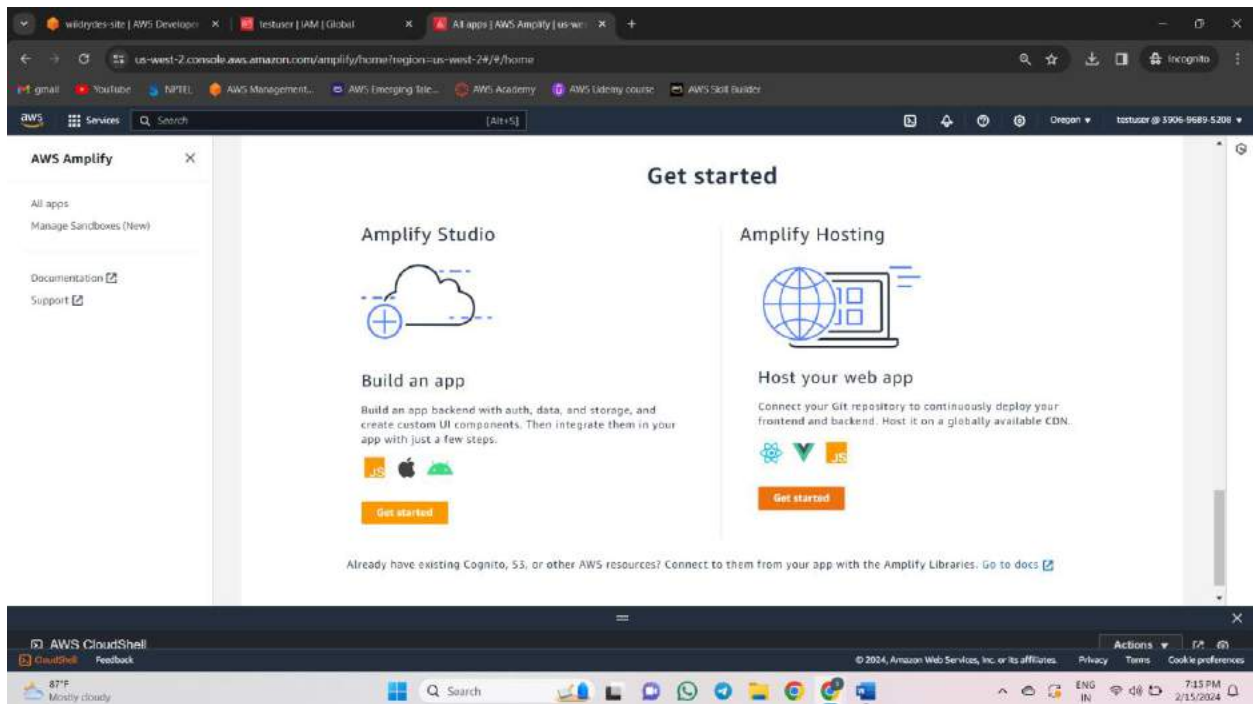




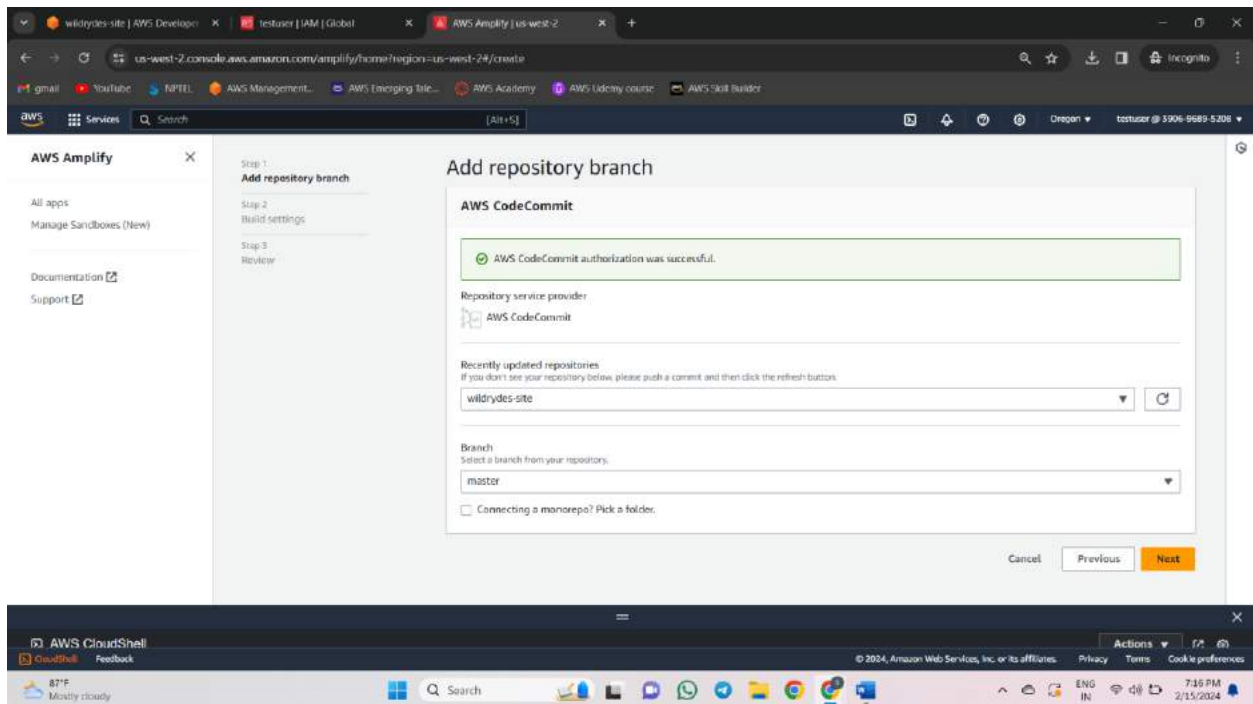
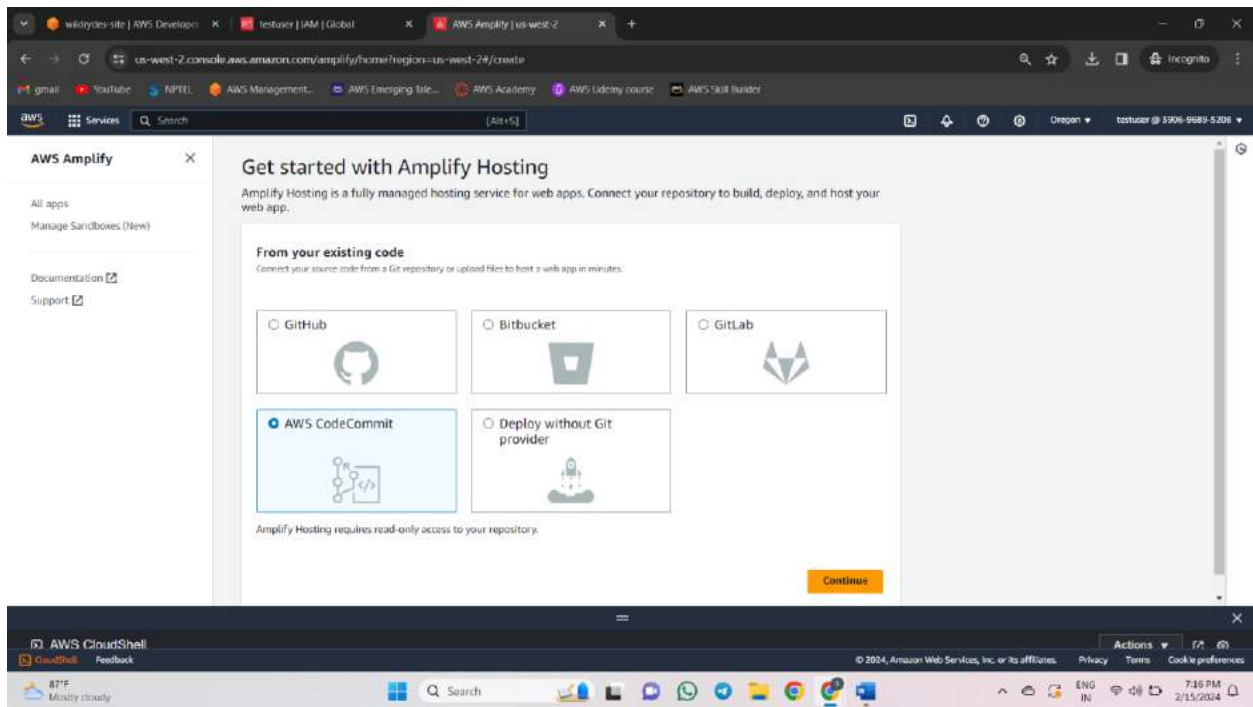
## 9. Check the files copied from s3

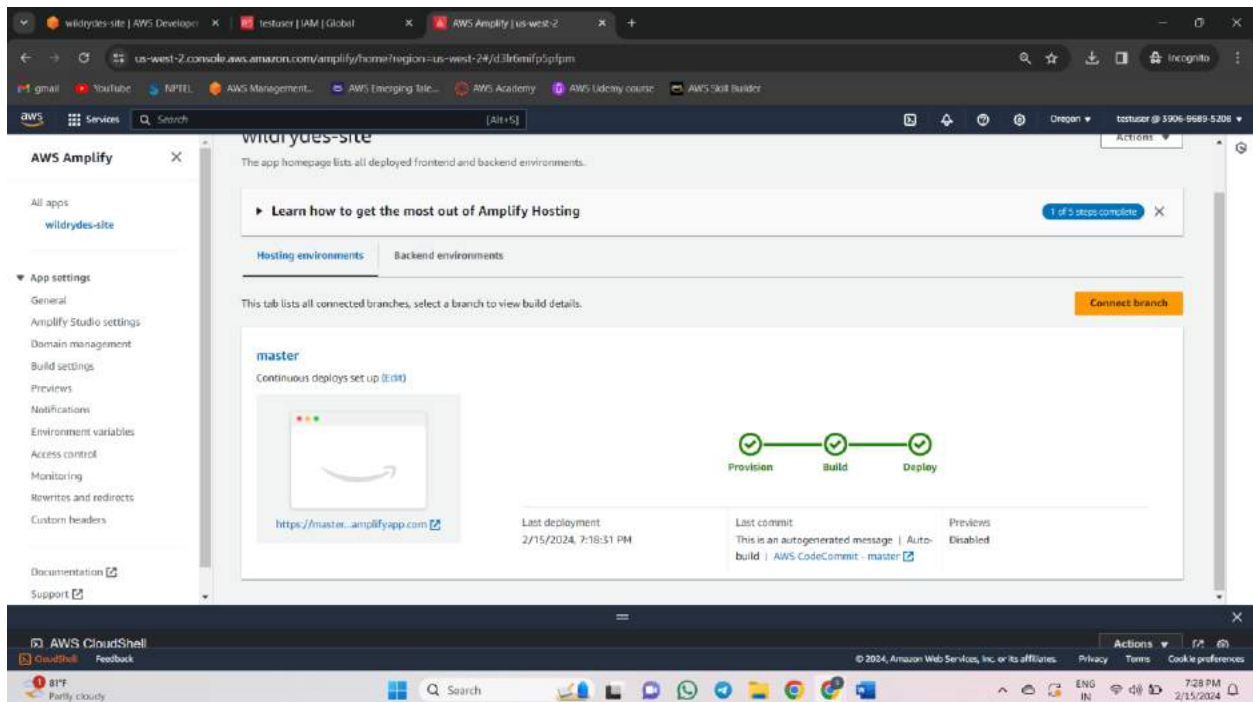
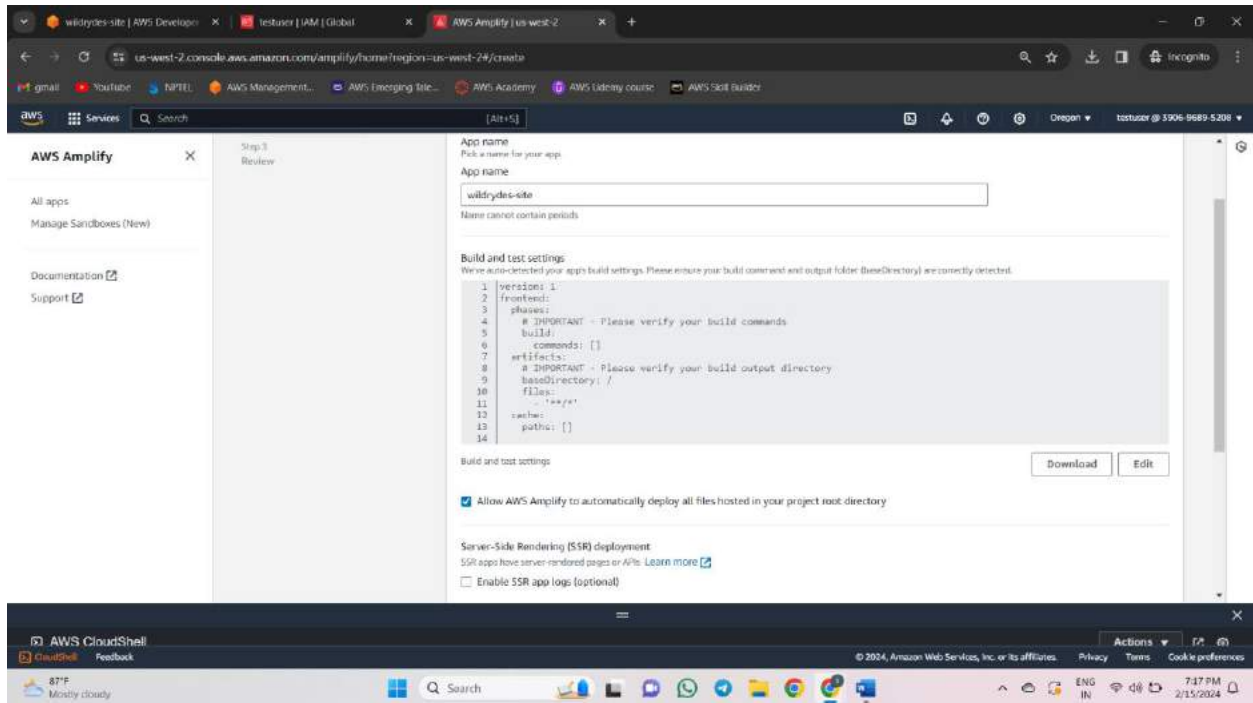


## 10. Go to Amplify and host web app

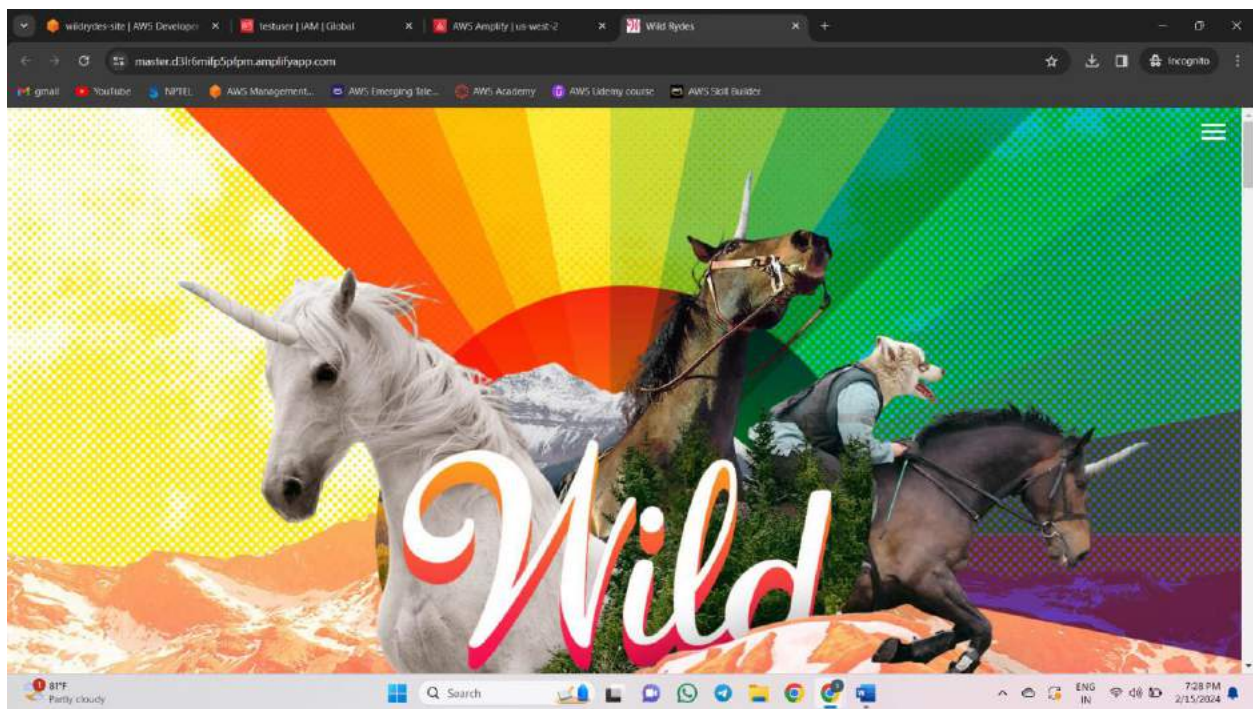




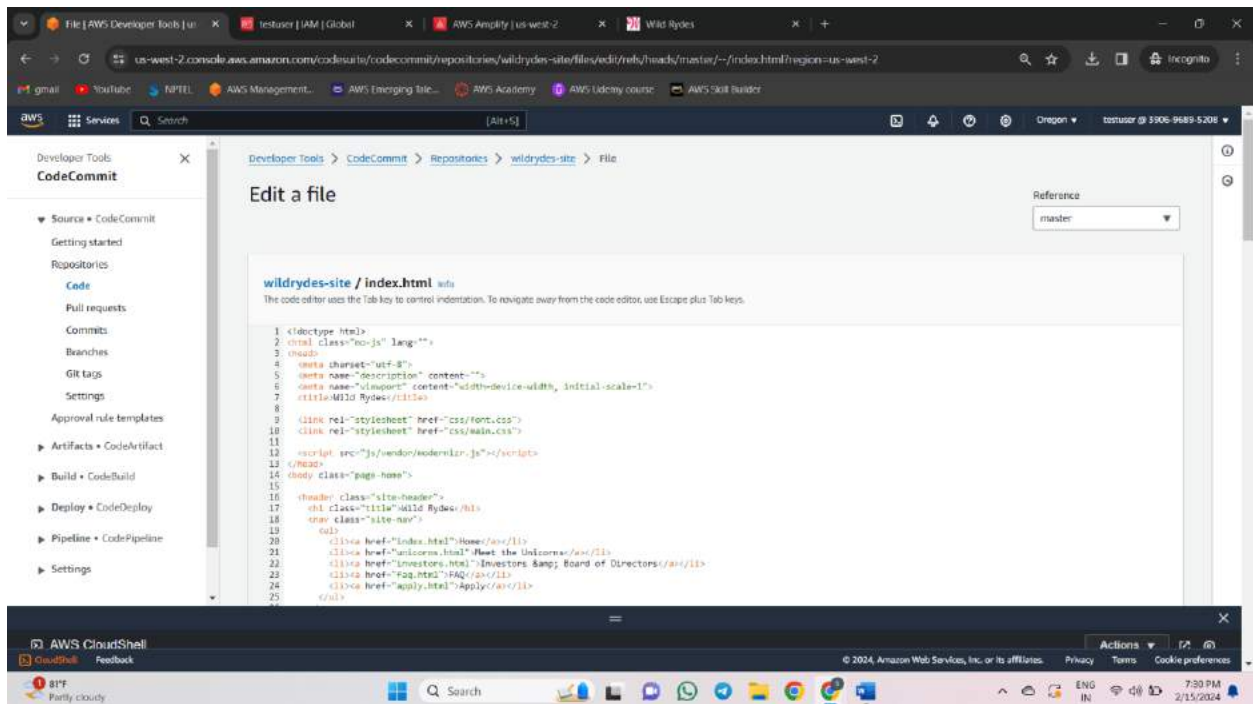


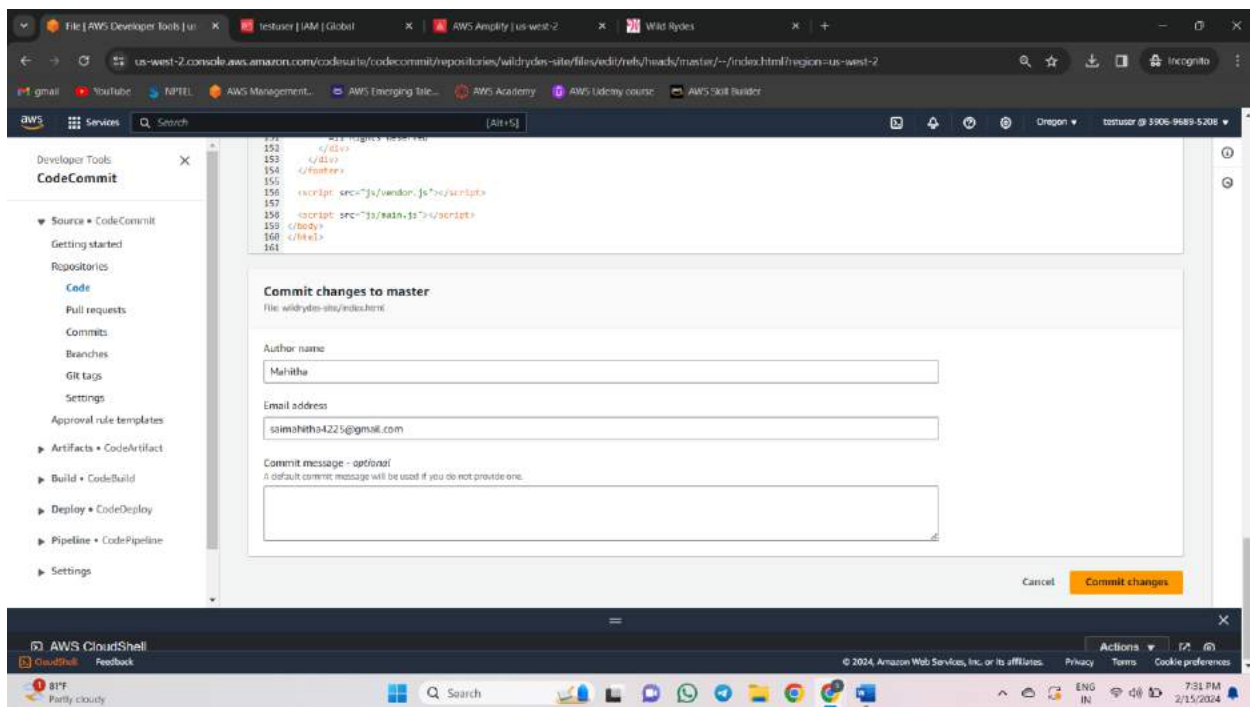


## 11. Open the url

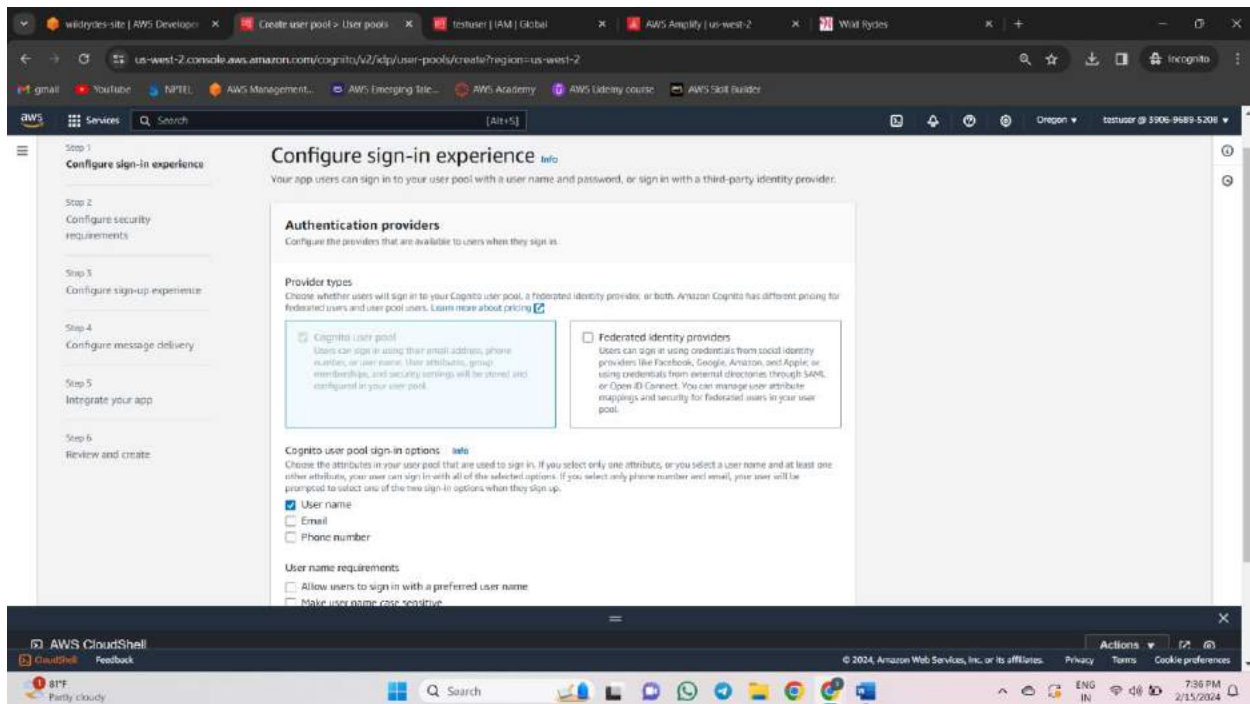


## 12. Edit the index.html in repository and check in Amplify

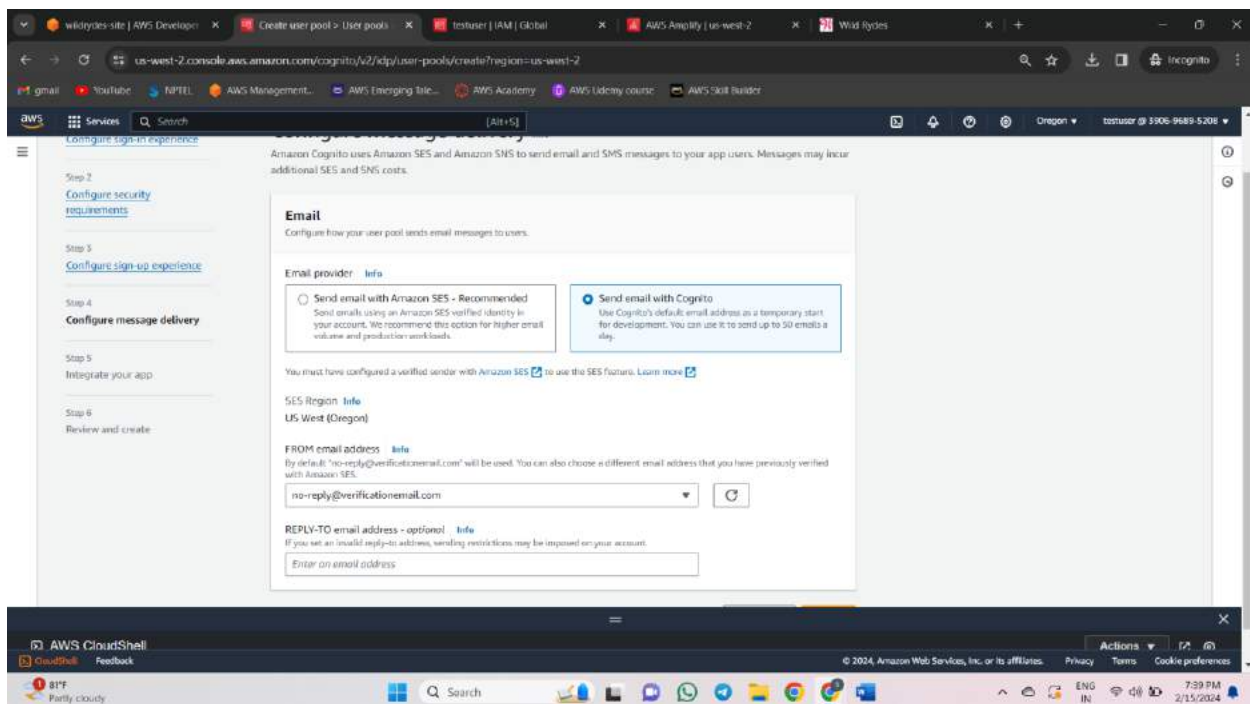
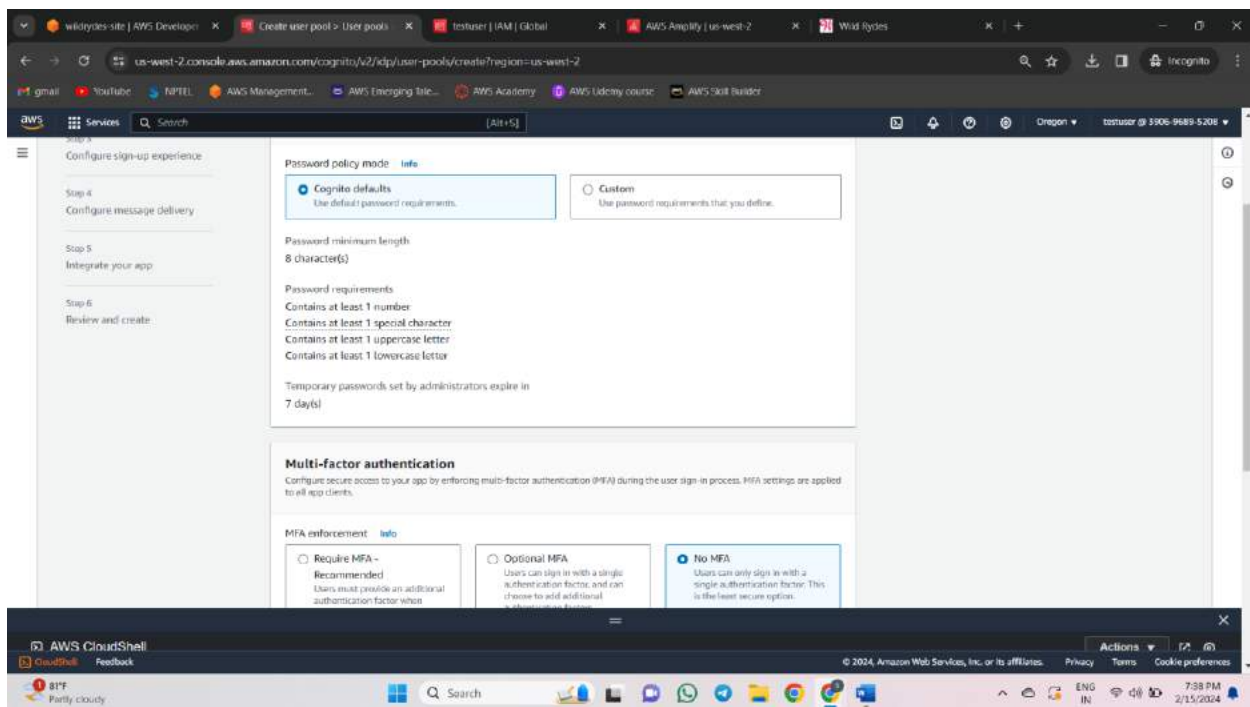


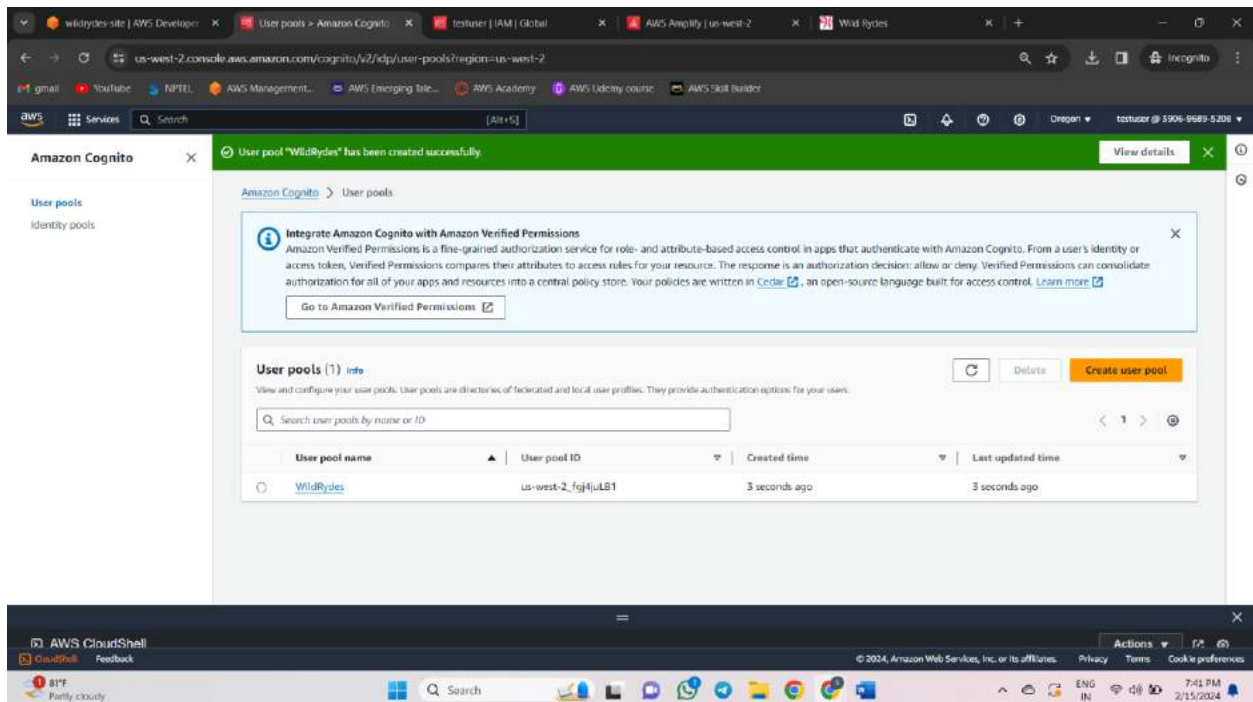
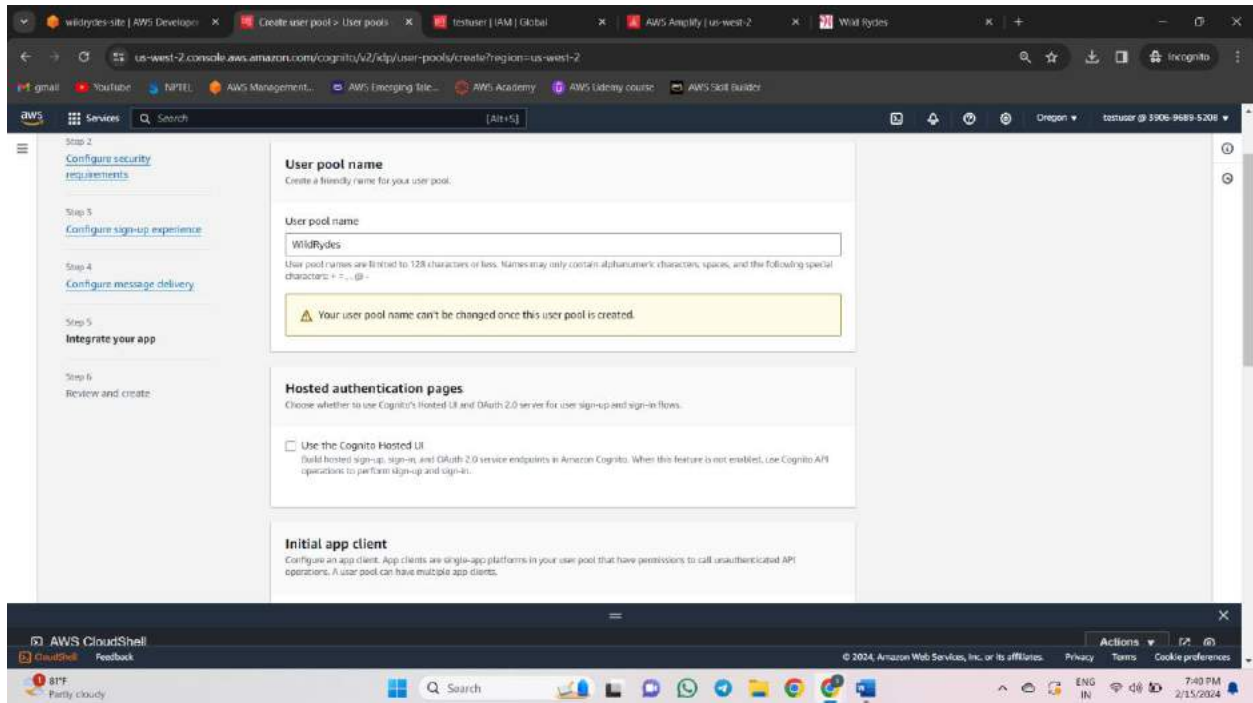


### 13. Create user pool in Cognito for authentication



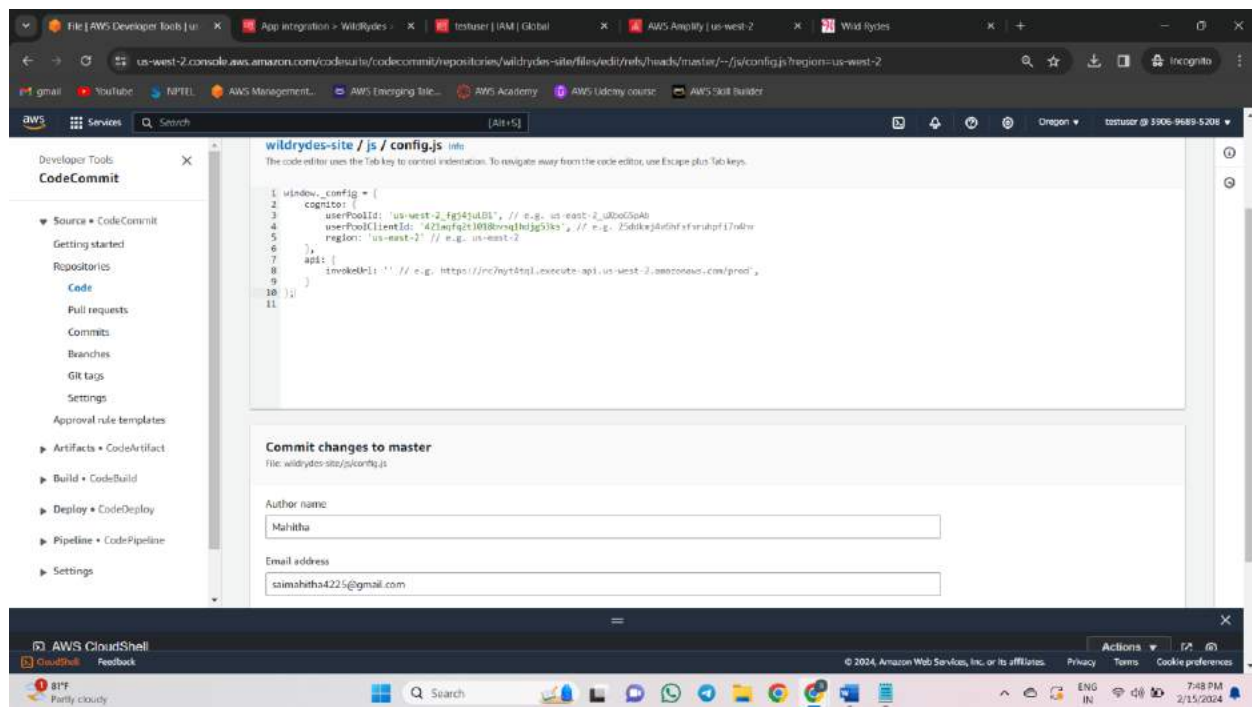




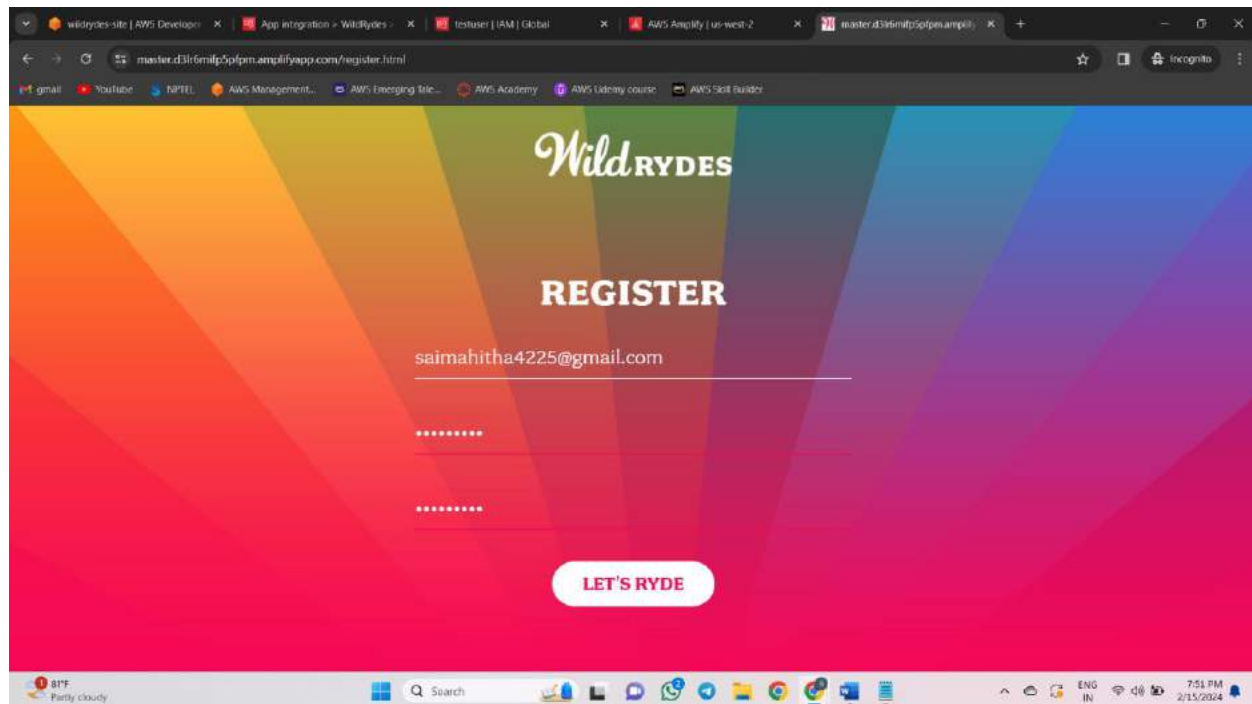


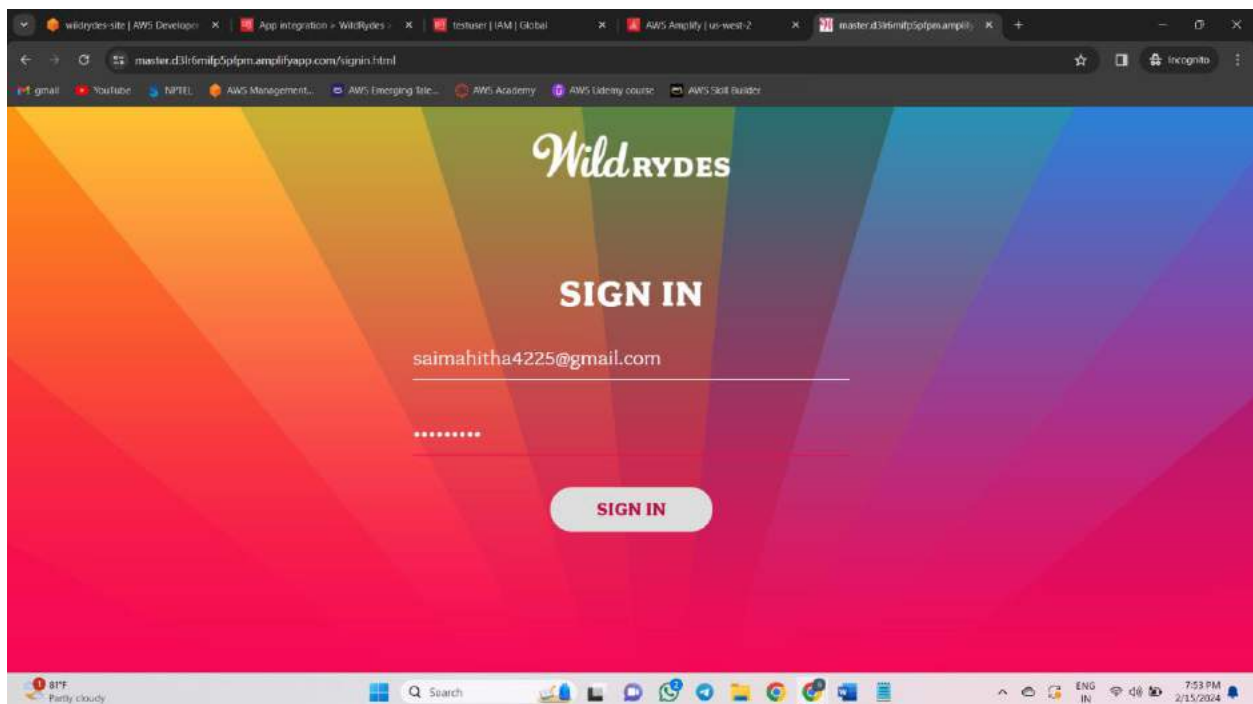
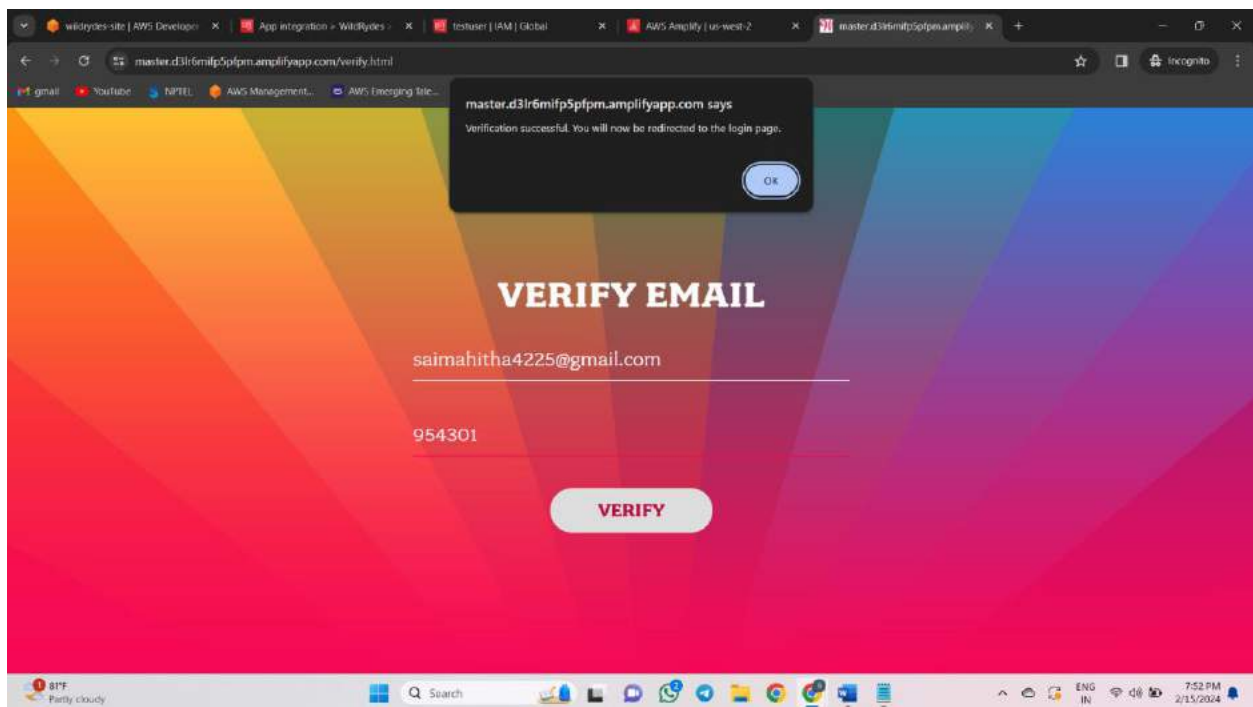


#### 14. Copy the user pool id and client id in js/config.js in repository

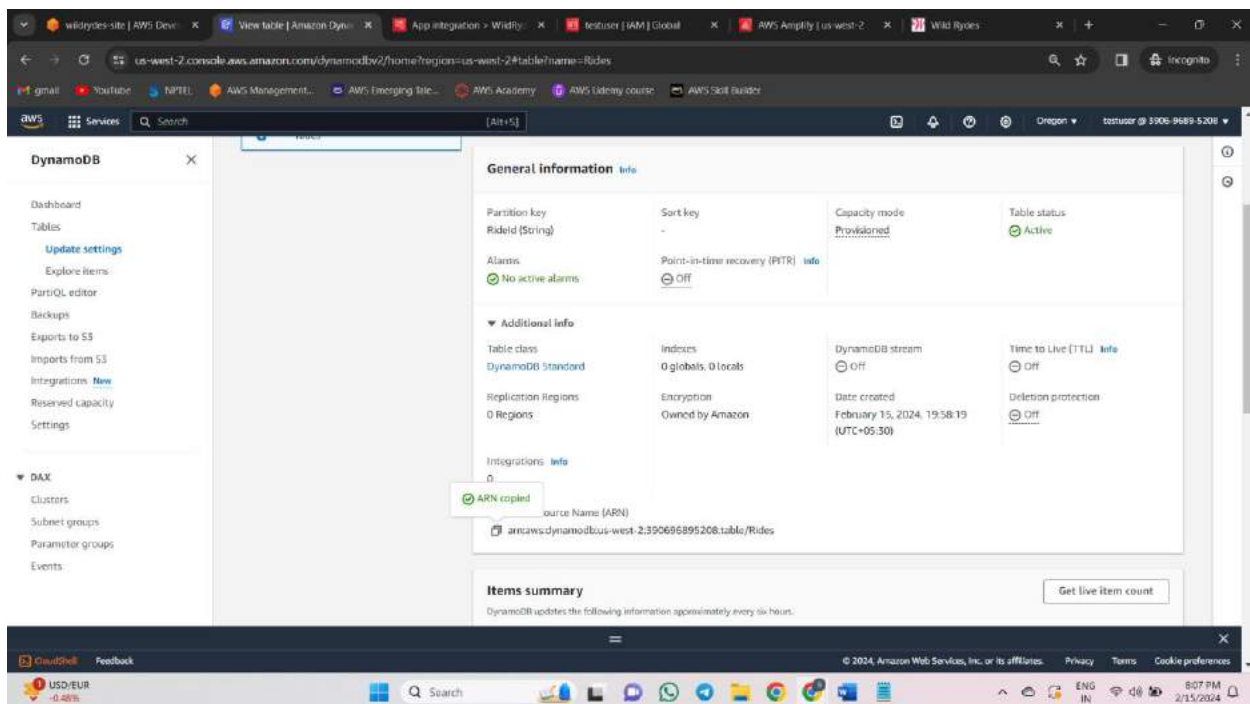
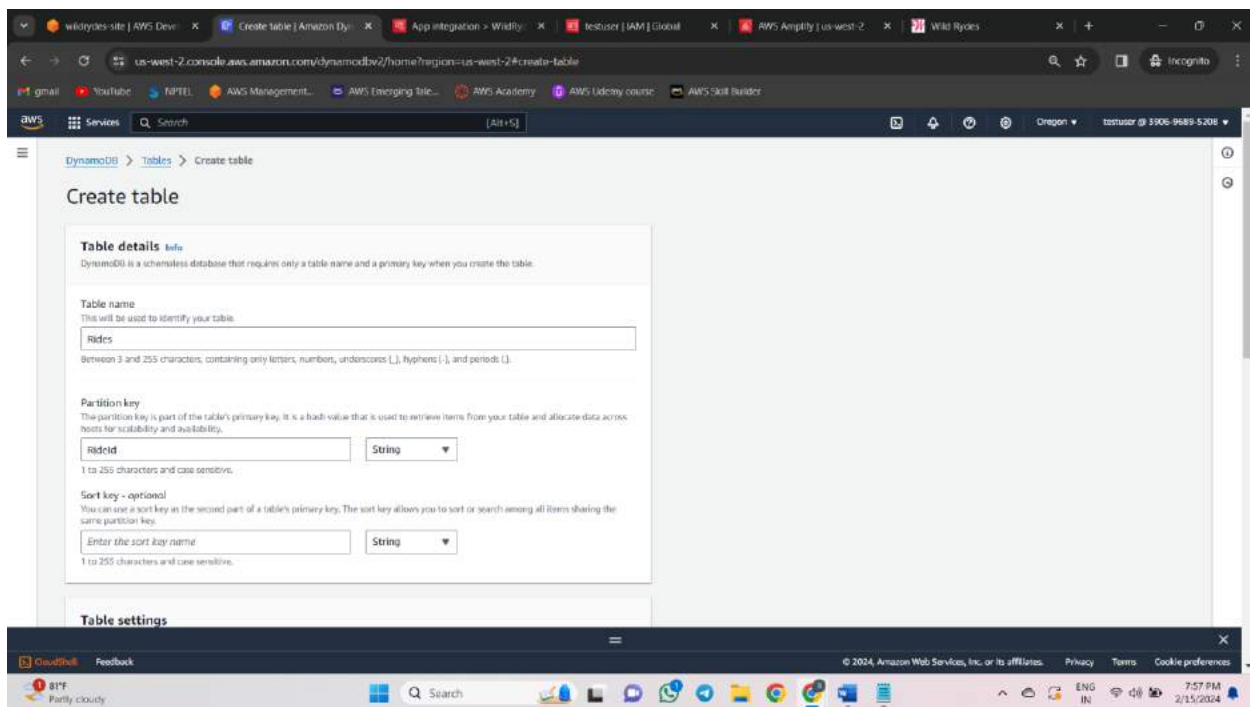


#### 15. Register in the web giving your email with verification code

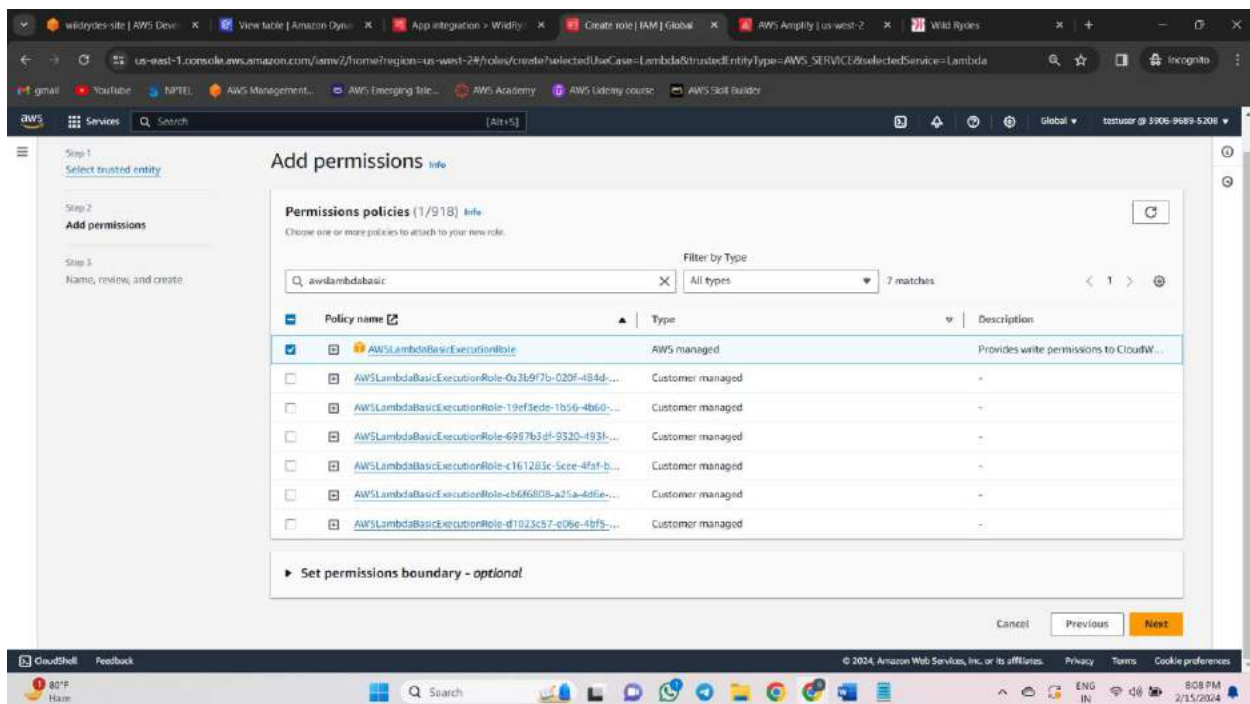
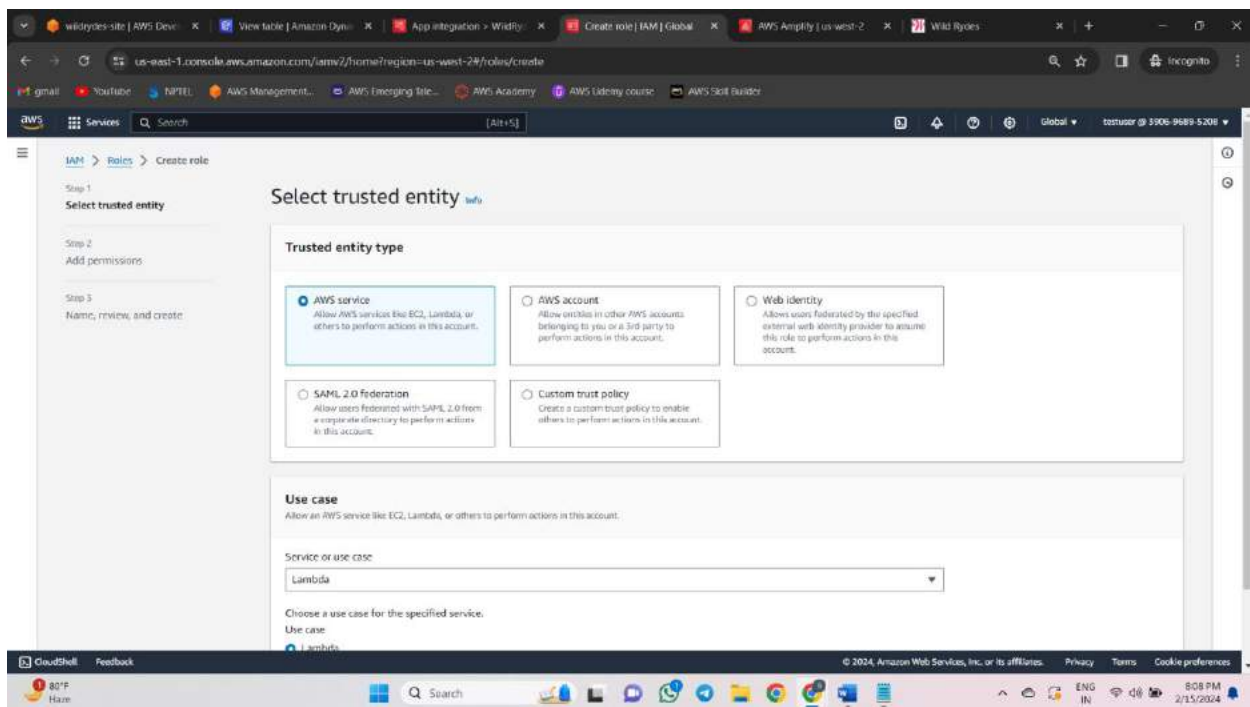


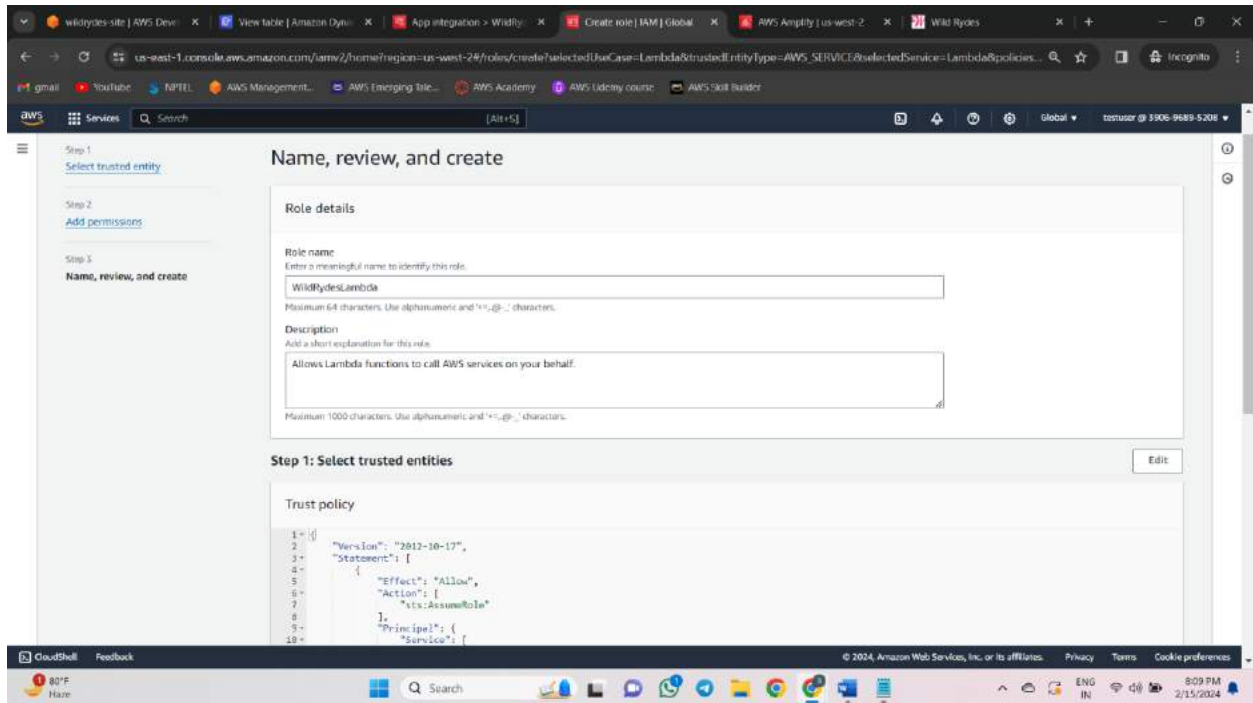


## 16. Create table in DynamoDB

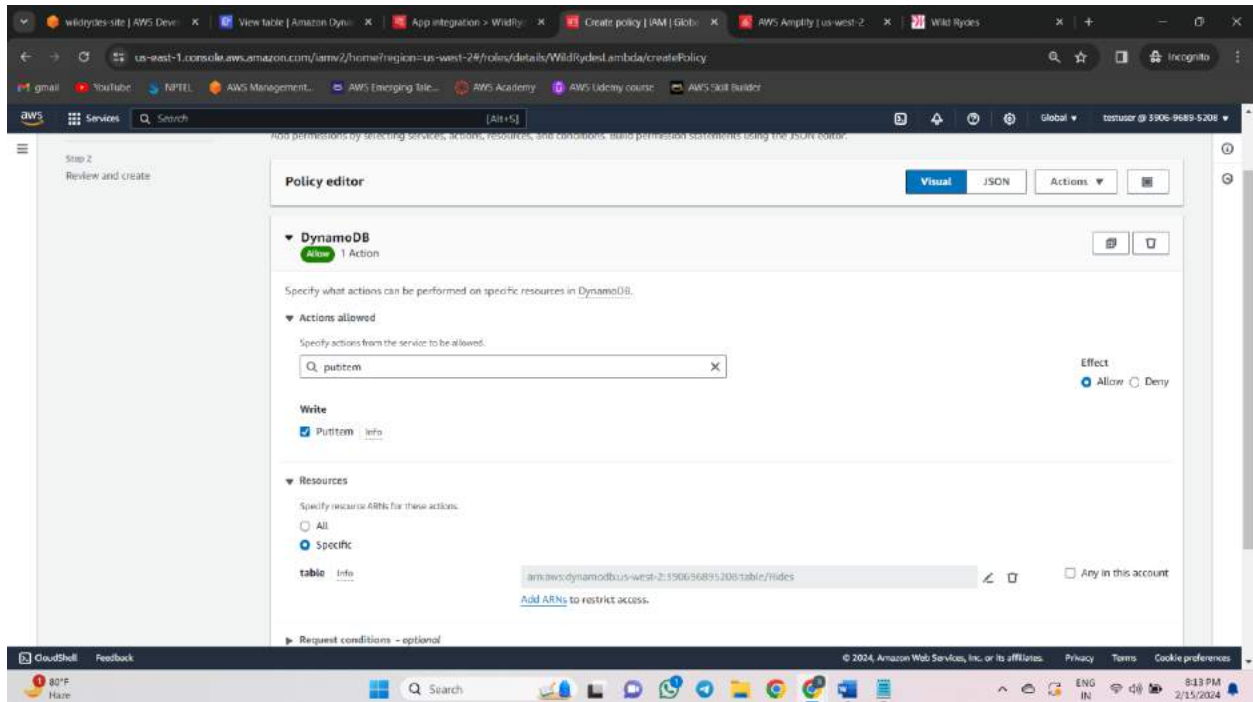


## 17. Create a role in IAM

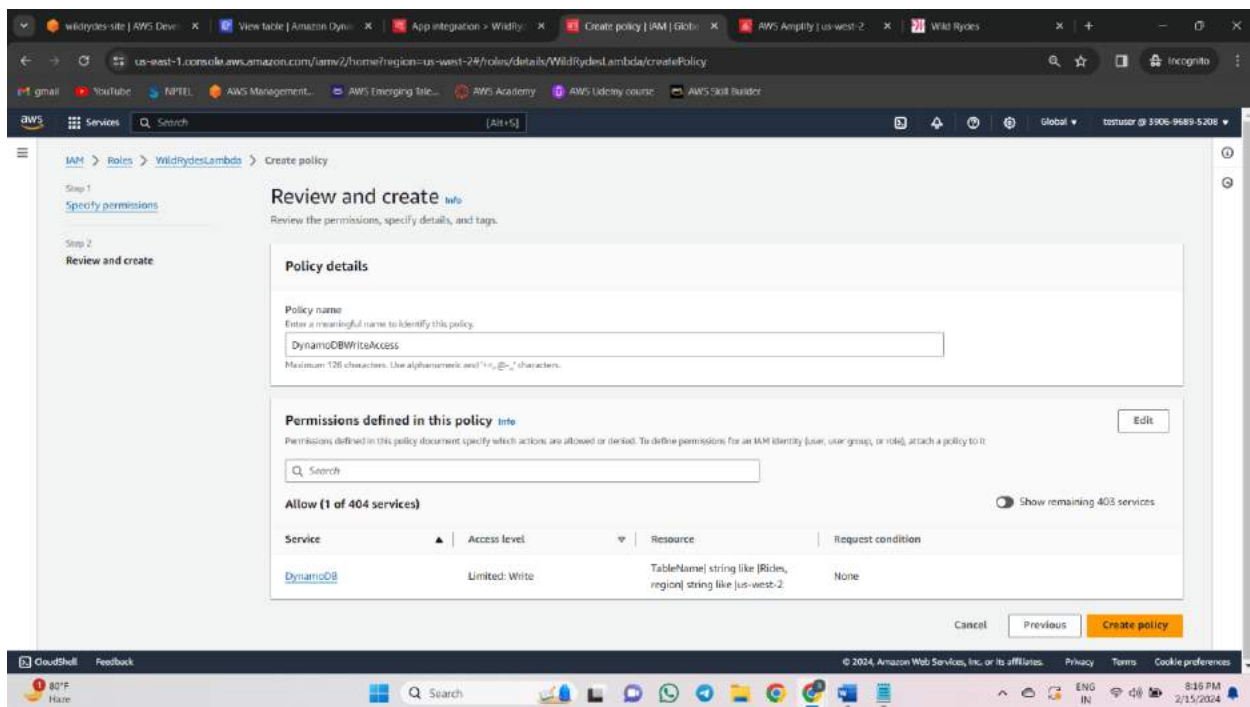




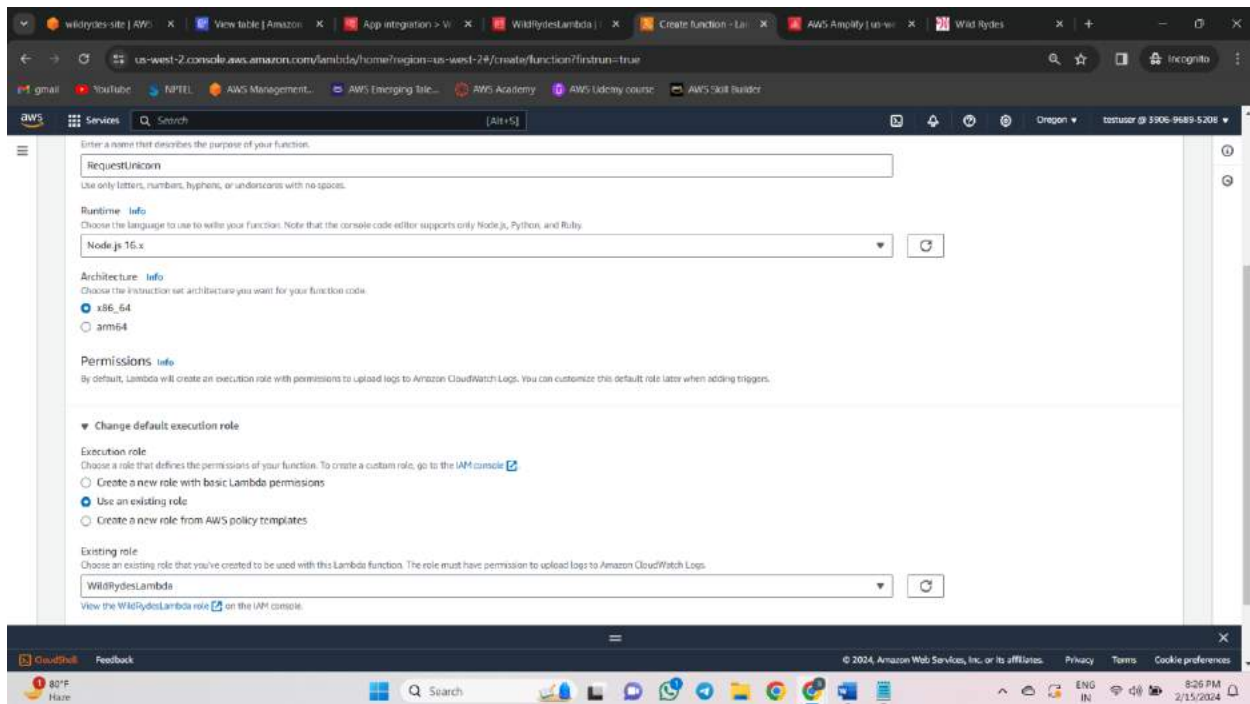
## 18. Create inline policy to that Role



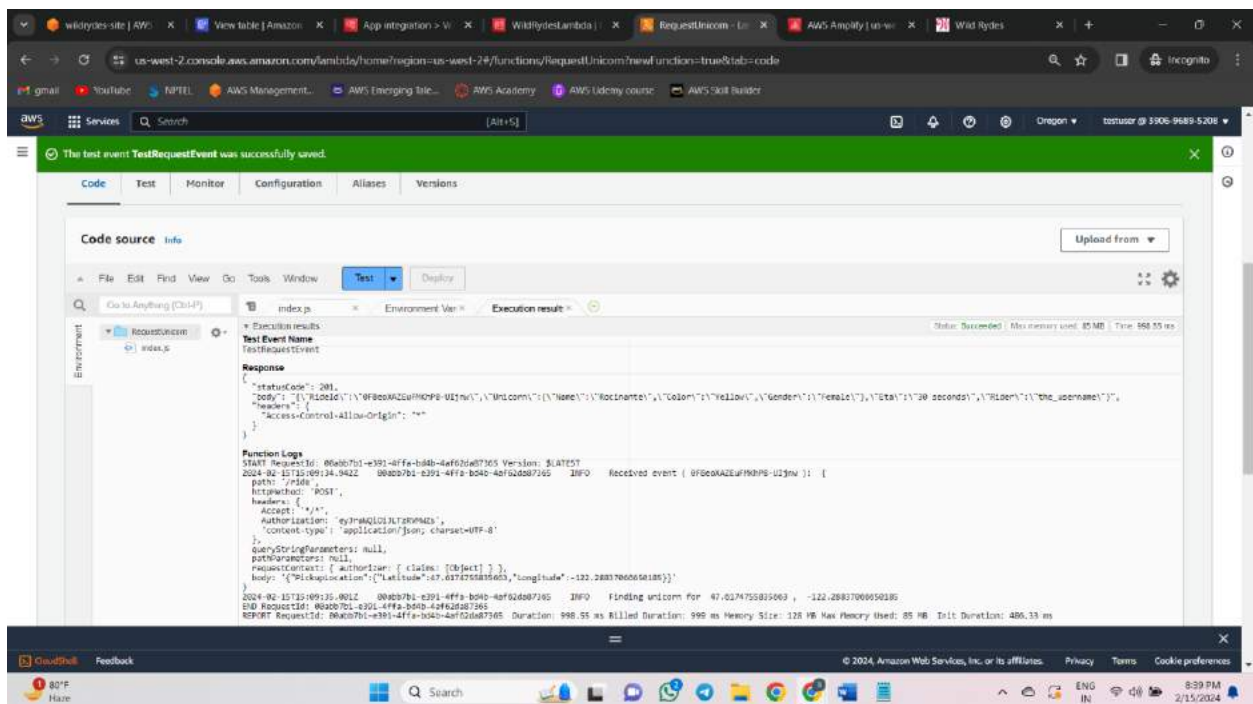
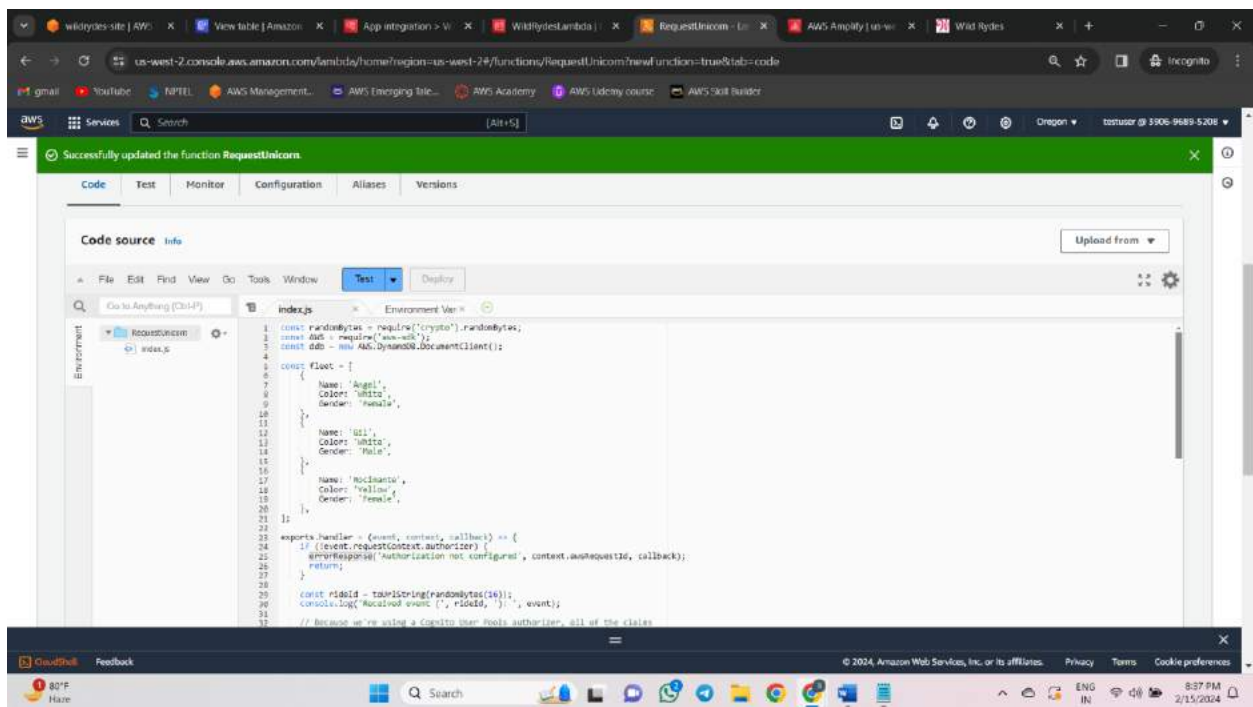


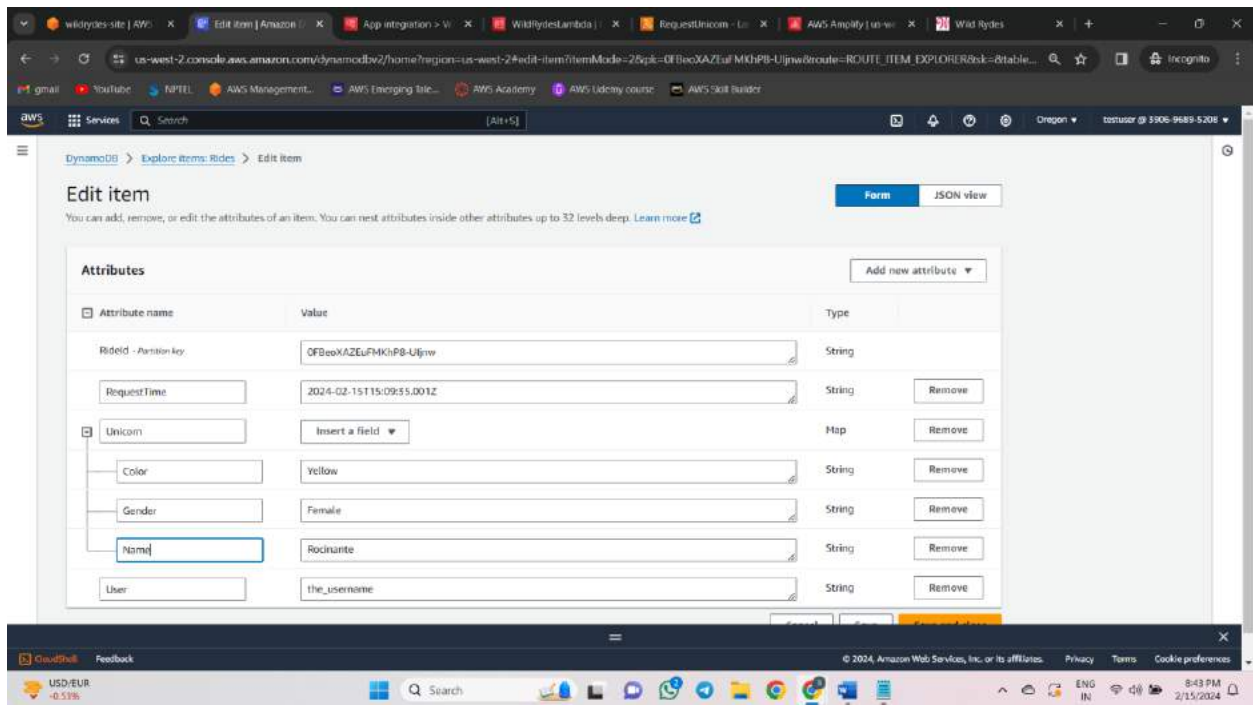


## 19. Create a lambda function "RequestUnicorn"

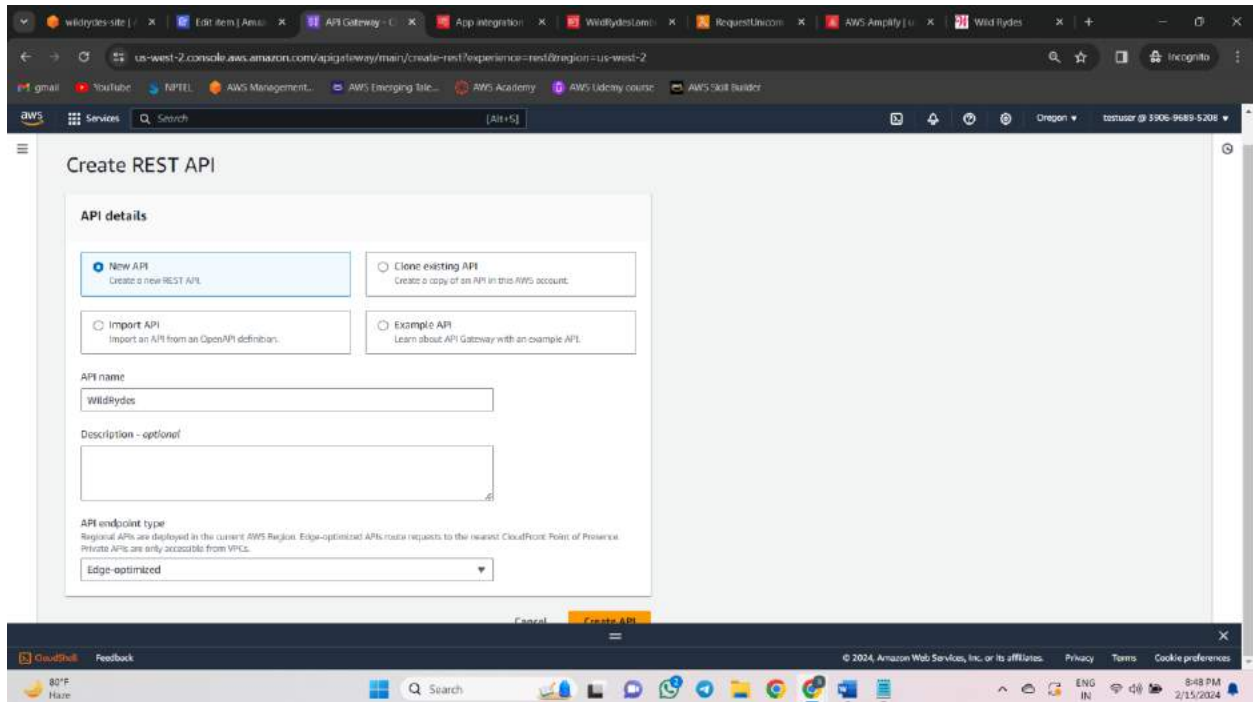


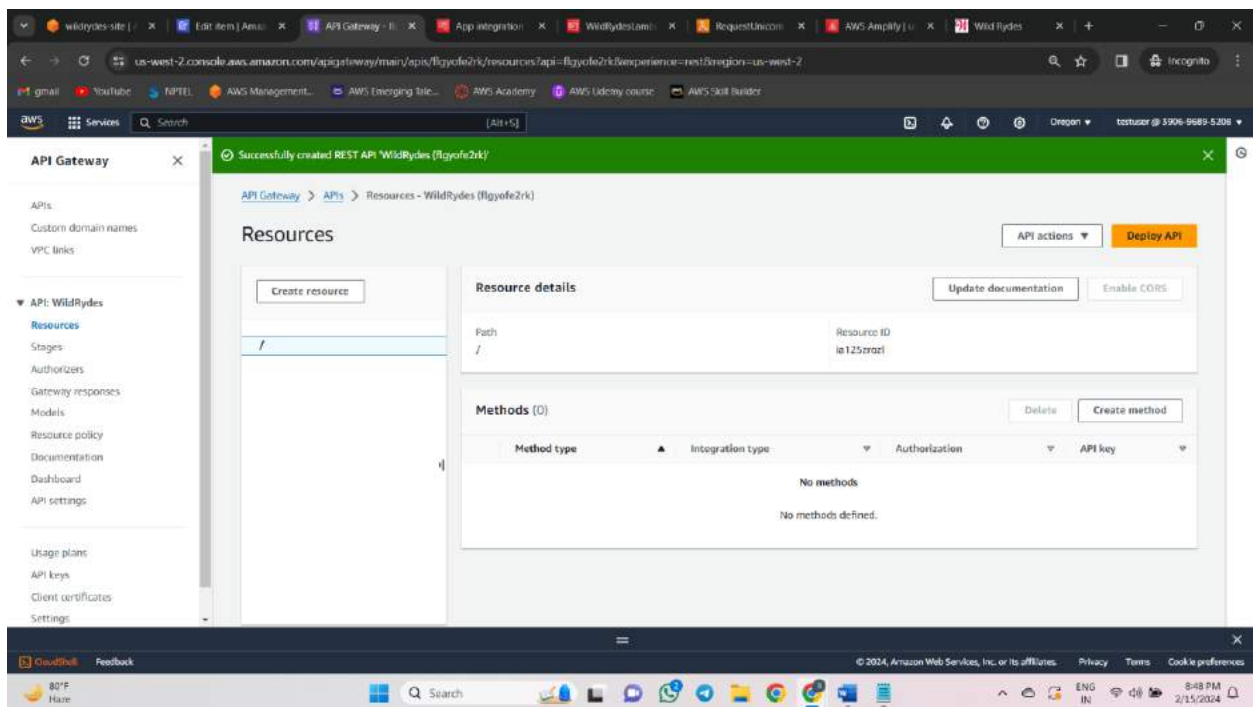




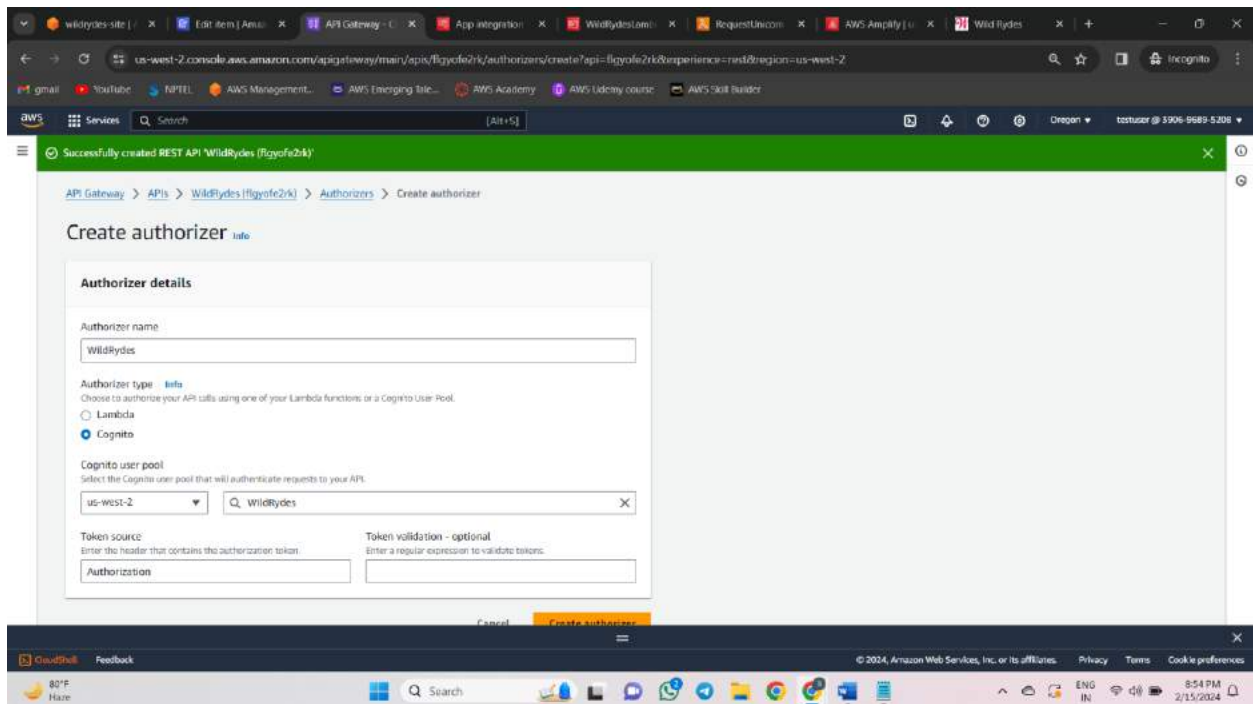


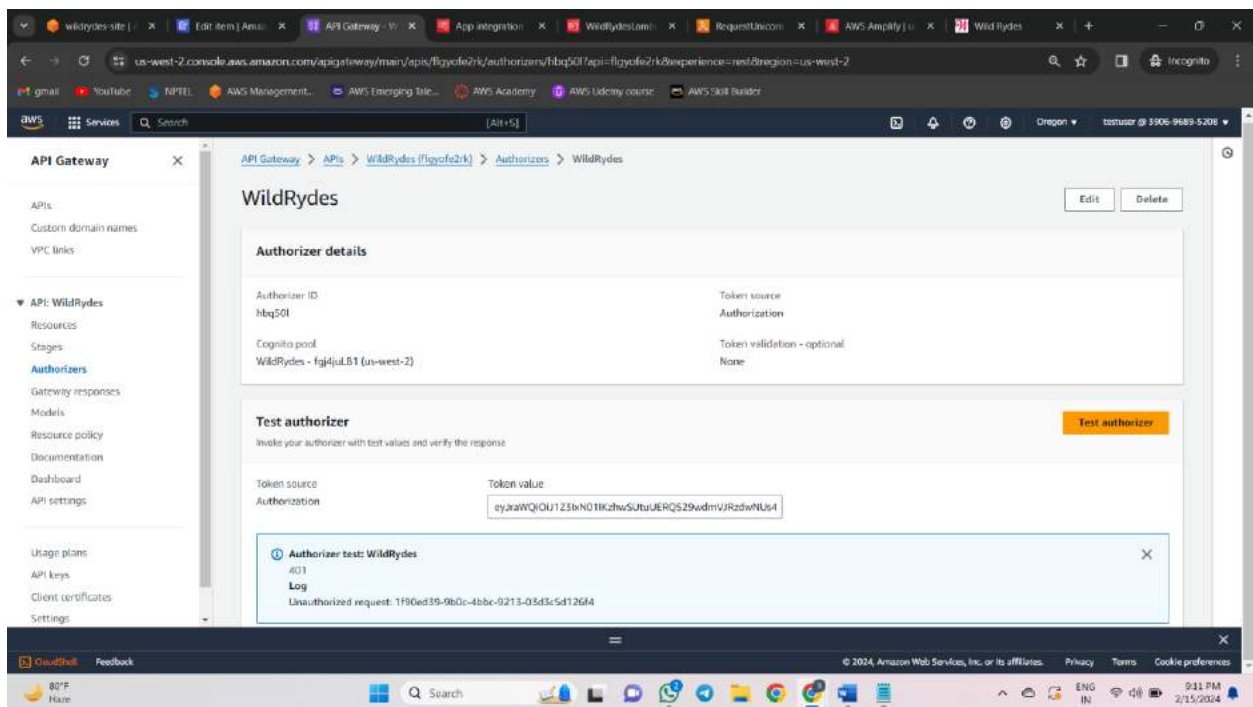
## 20. Create API Gateway



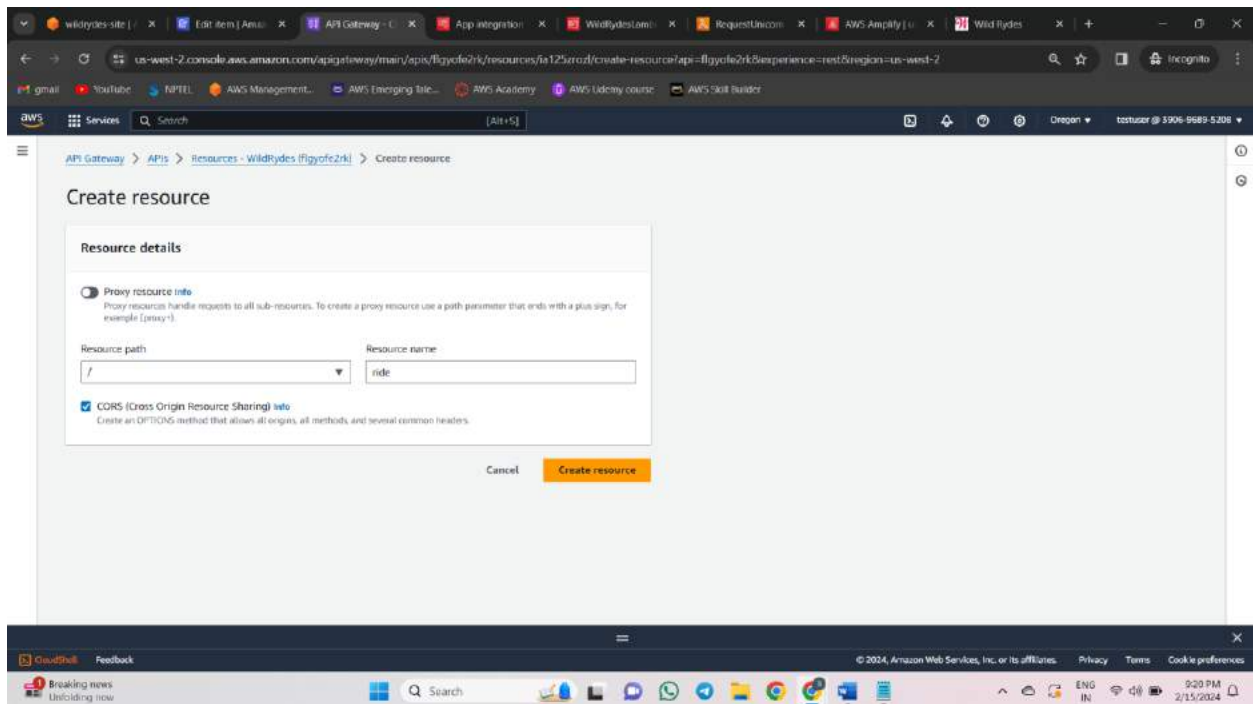


## 21. Create authorizer named “WildRydes” and test authorizer

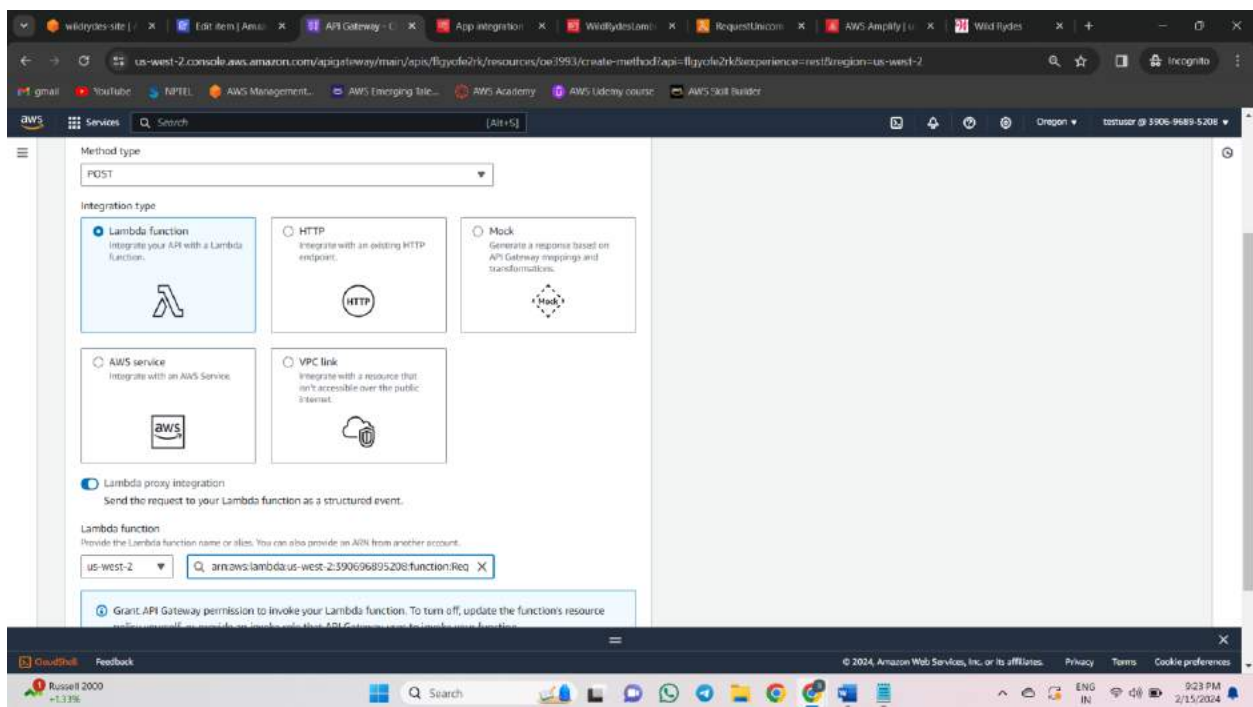




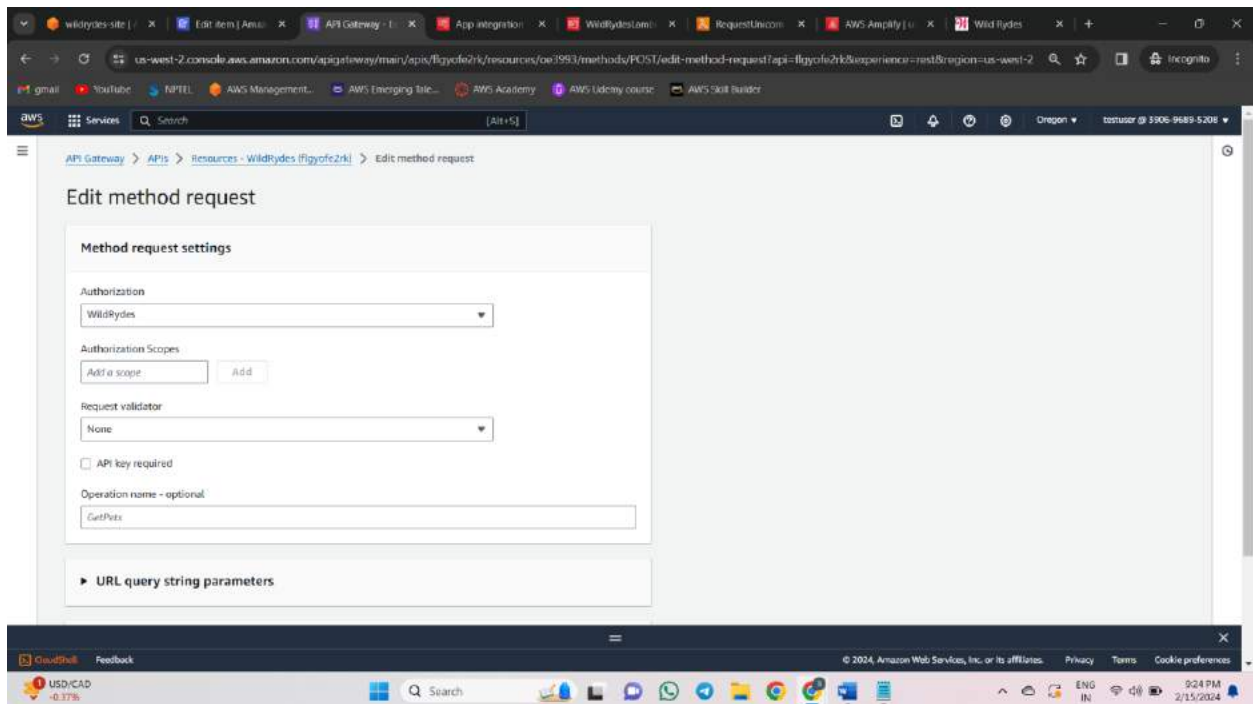
## 22. Create resource in API named “/ride”

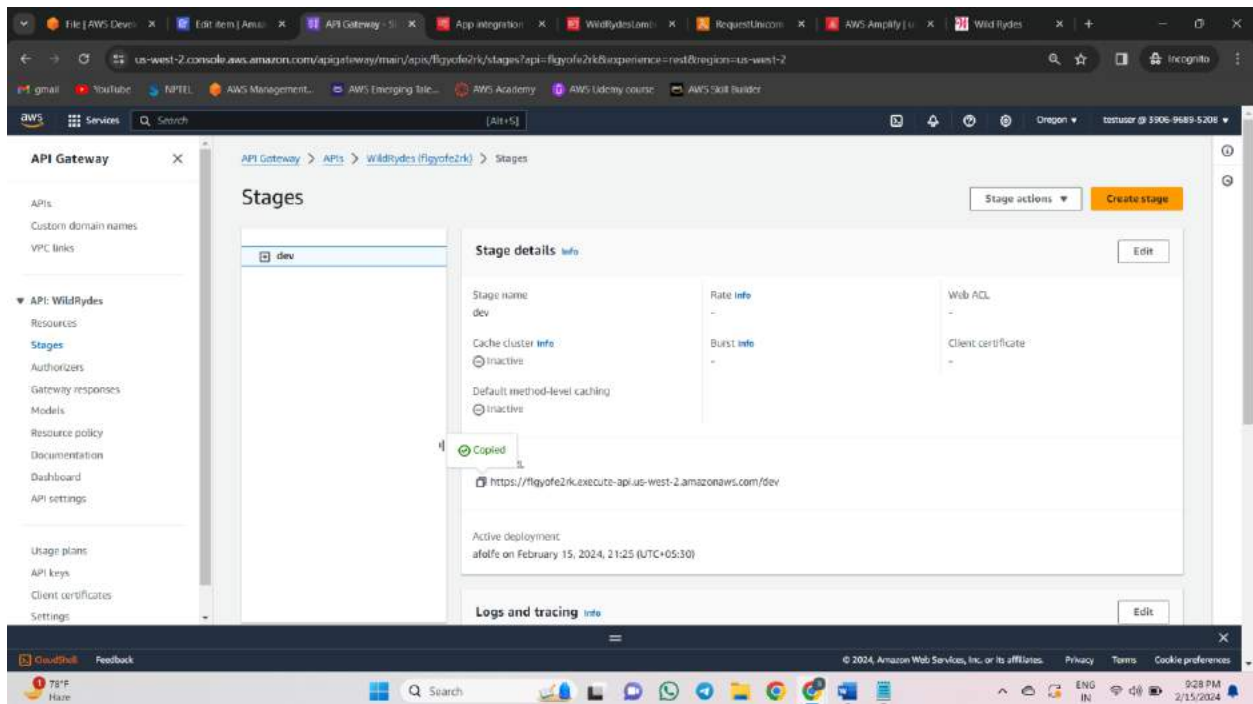
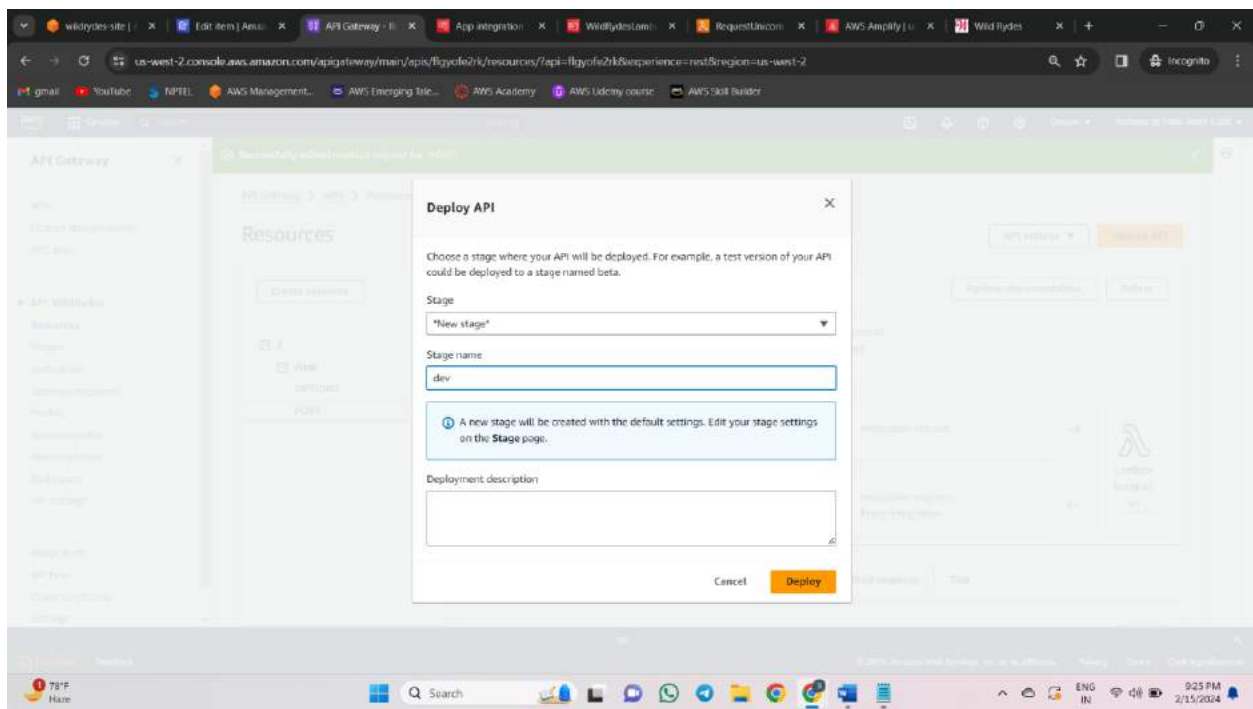


## 23. Create method in resource /ride



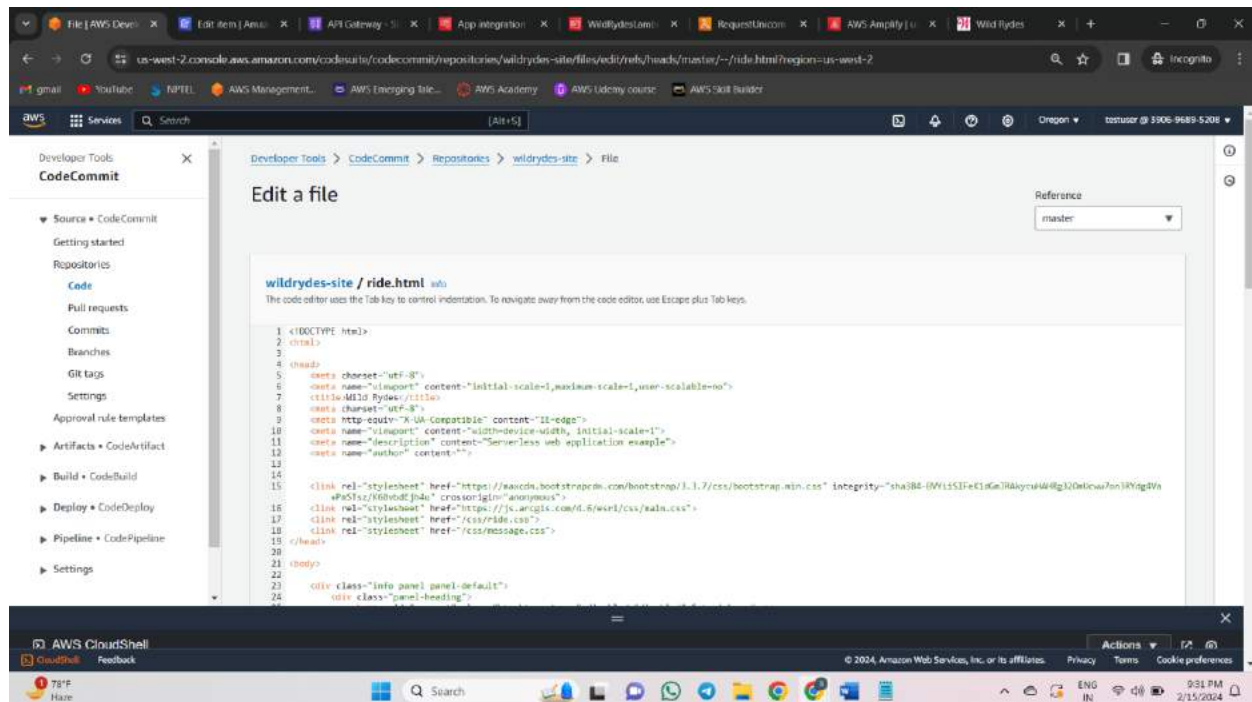
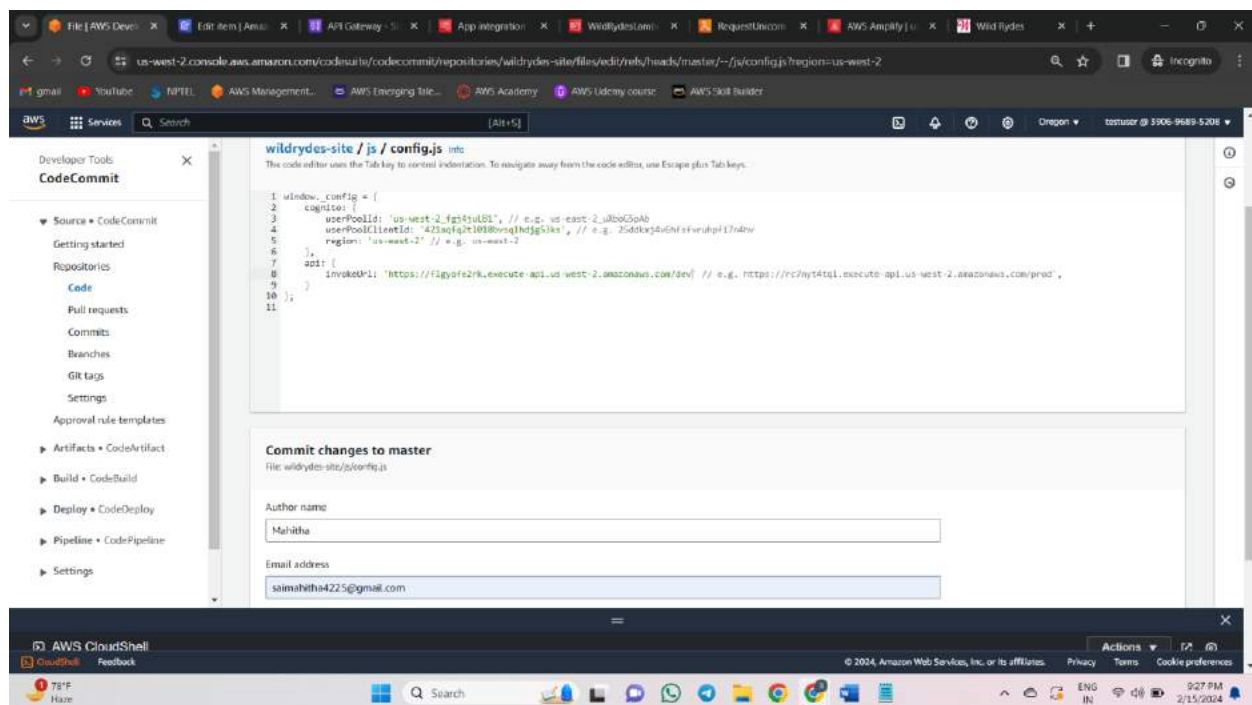
## 24. Edit the method request and deploy API



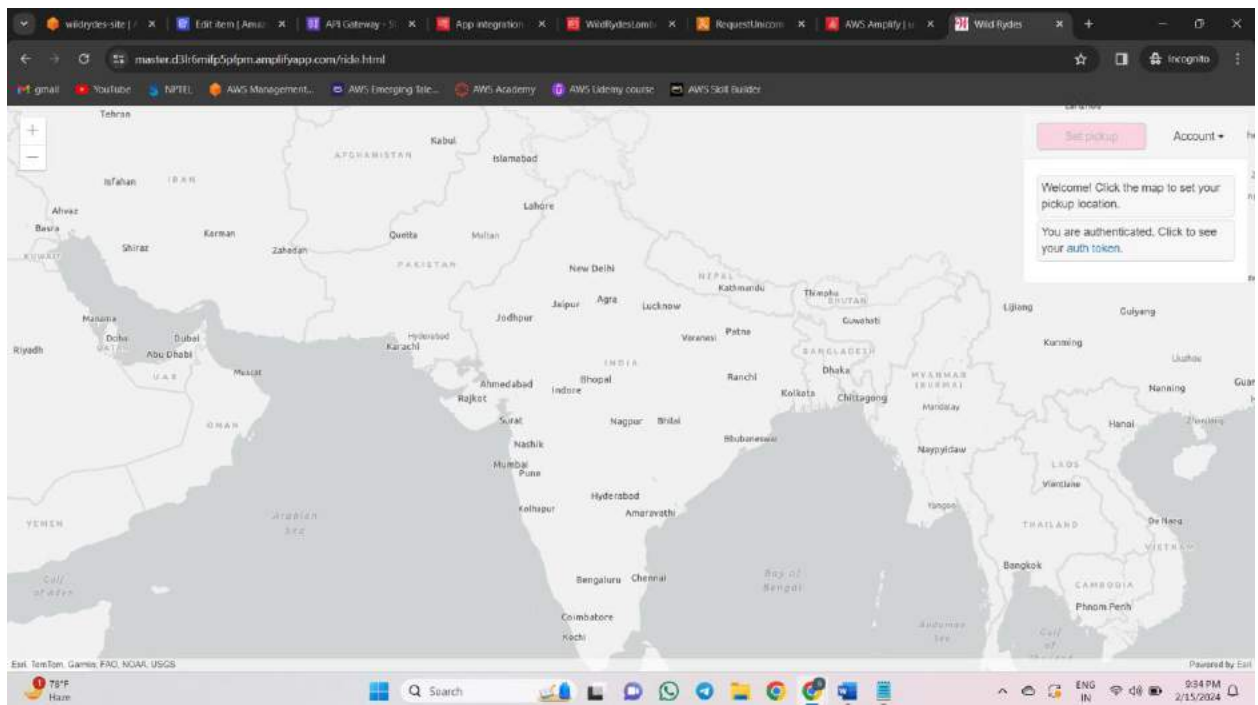




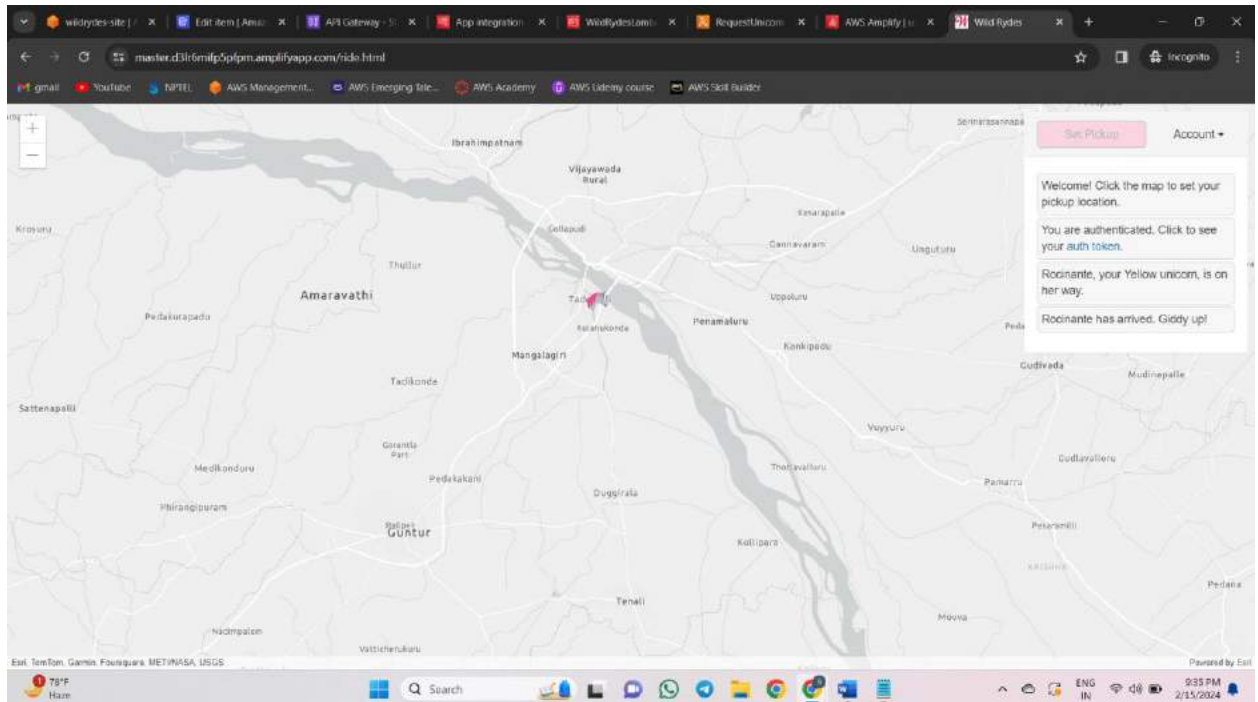
25. Copy the invoke url in `/js/config.js`, edit `ride.html` and check deployment in Amplify



Output:



Requesting a unicorn at some point



LINKS:

LinkedIn Article: <https://www.linkedin.com/pulse/building-end-to-end-serverless-web-application-using-aws-sai-mahitha-xjgzc/?trackingId=xlOsQPJkQuqGceTPSpcOrg%3D%3D>

YouTube Video: <https://youtu.be/p5yJ7XfMiEo>

Github Post: <https://github.com/SaiMahitha4225/Building-End-to-End-Serverless-Web-Application-using-AWS>