# SETUP GUIDE

WildRydes is a simple web application that enables users to request unicorn rides. The application presents users with an HTML based user interface for indicating the location where they would like to be picked up and will interface on the backend with a RESTful web service to submit the request and dispatch a nearby unicorn. The application will also provide facilities for users to register with the service and log in before requesting rides.
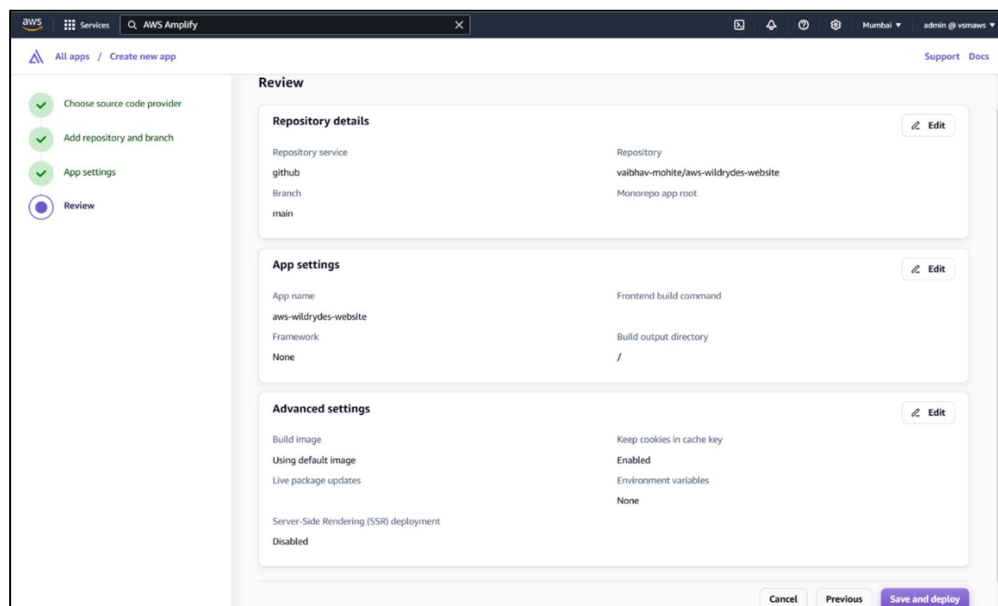
ARCHITECTURE DIAGRAM
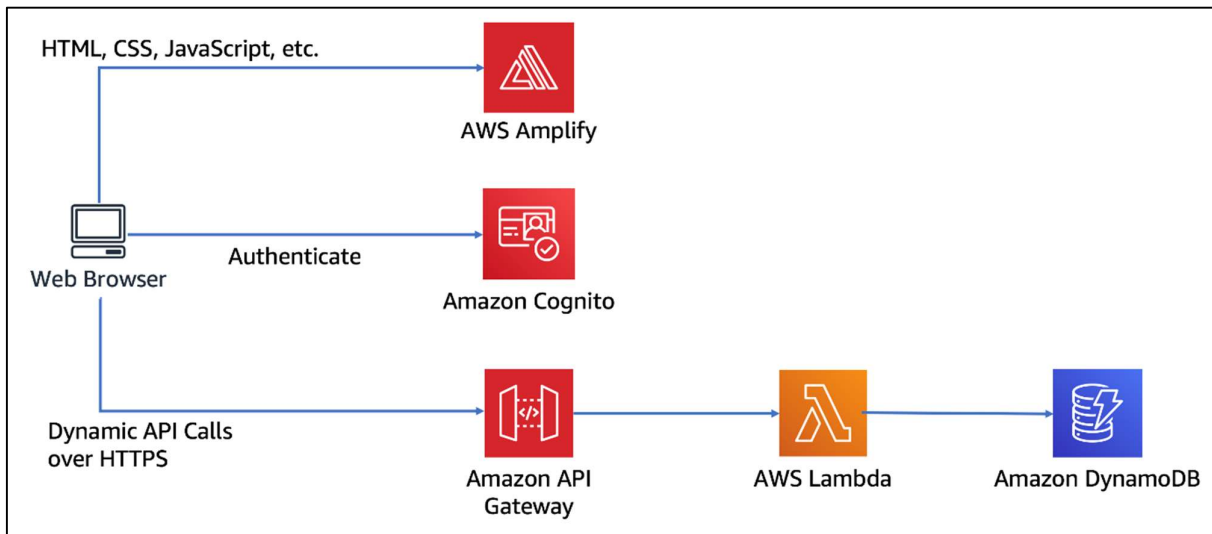
GIT REPOSITORY

1. The repository can be found at https://github.com/vaibhav-mohite/aws-wildrydes-website

AMPLIFY

1. Launch the Amplify Console
2. Click on Deploy an App
3. Select GitHub as Git provider

4. Connect your GitHub Account to AWS. Select the GitHub Repository.
5. Give App name as per your choice and click Save and Deploy
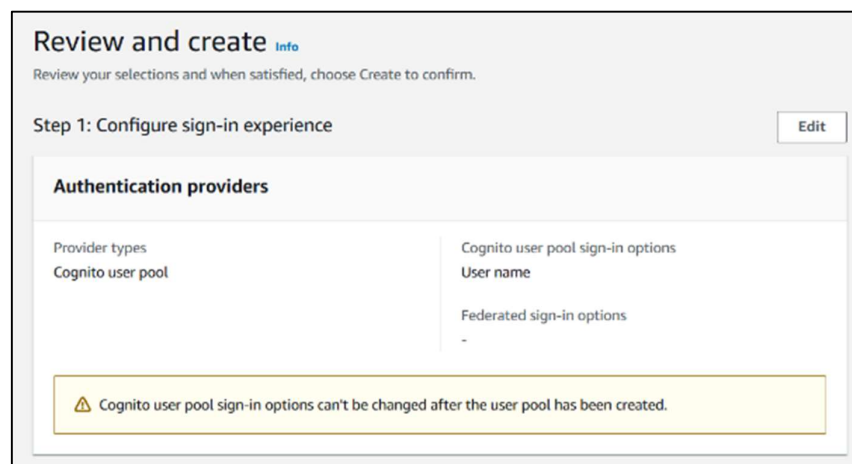6. Application will be Deployed.
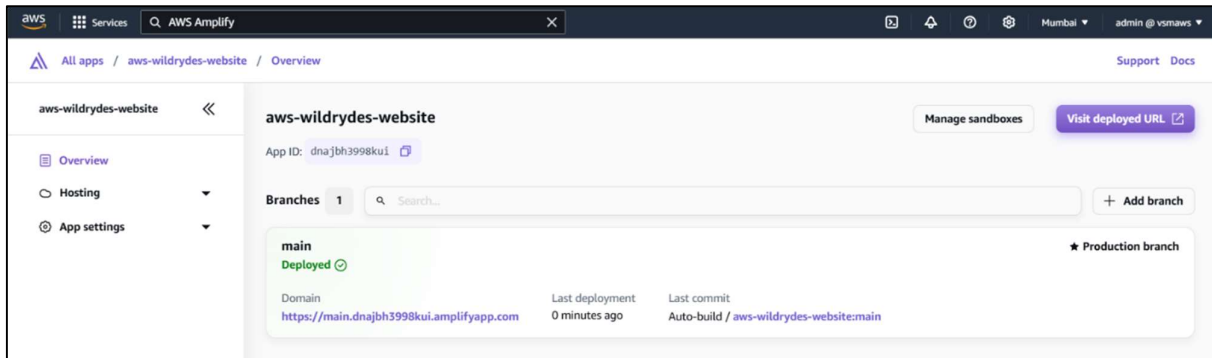
7. Click on Domain to open the website.

COGNITO

1. Launch Cognito Console
2. Click on "Create User Pool"
3. Select "Cognito user pool sign-in options" as Username

4. Select No MFA in Multi-factor authentication
5. Select Email Provider as "Send email with Cognito"

6. Keep rest options as default and Create Userpool
7. Once the Userpool is created, note down User pool ID and App Client ID. App Client ID can be found at User Pool → App integration → App client list

8. Open GitHub Repo. Navigate to js → vendor → config.js
9. Edit UserPoolId, UserPoolClientId and region with the values copied in Step 7 of Cognito.
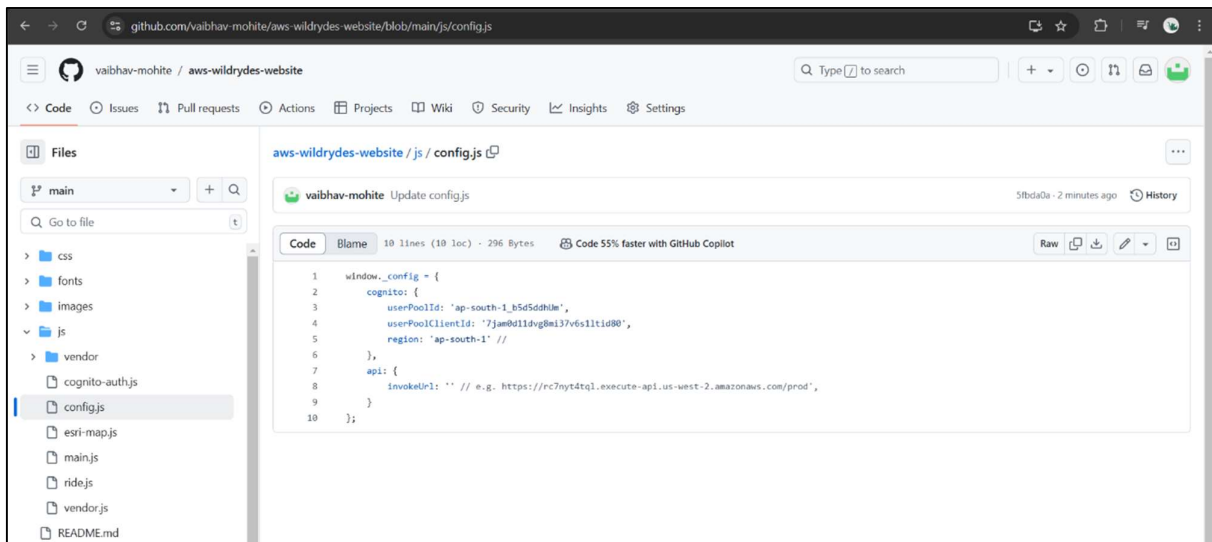
10. Commit the changes. This will start a new Deployment.
11. Once App is Deployed. Open the site. Click on Giddy Up to register a new user. Enter Email ID and Password and verify the same.
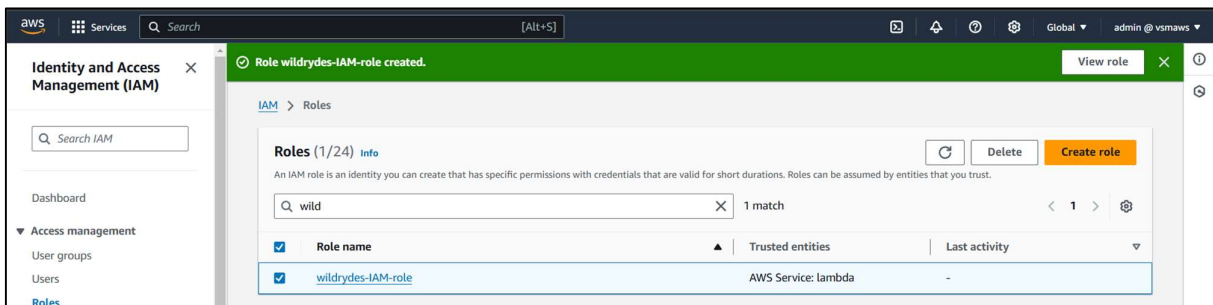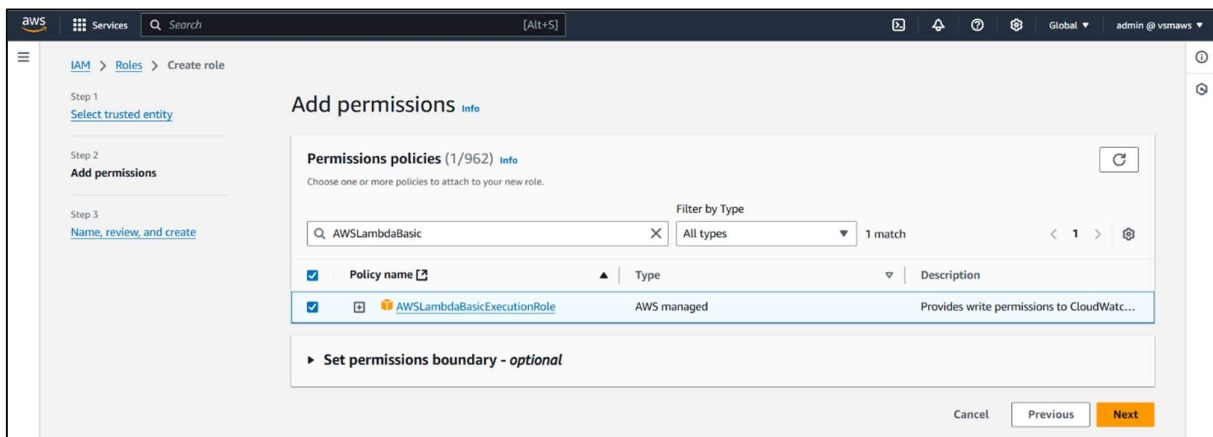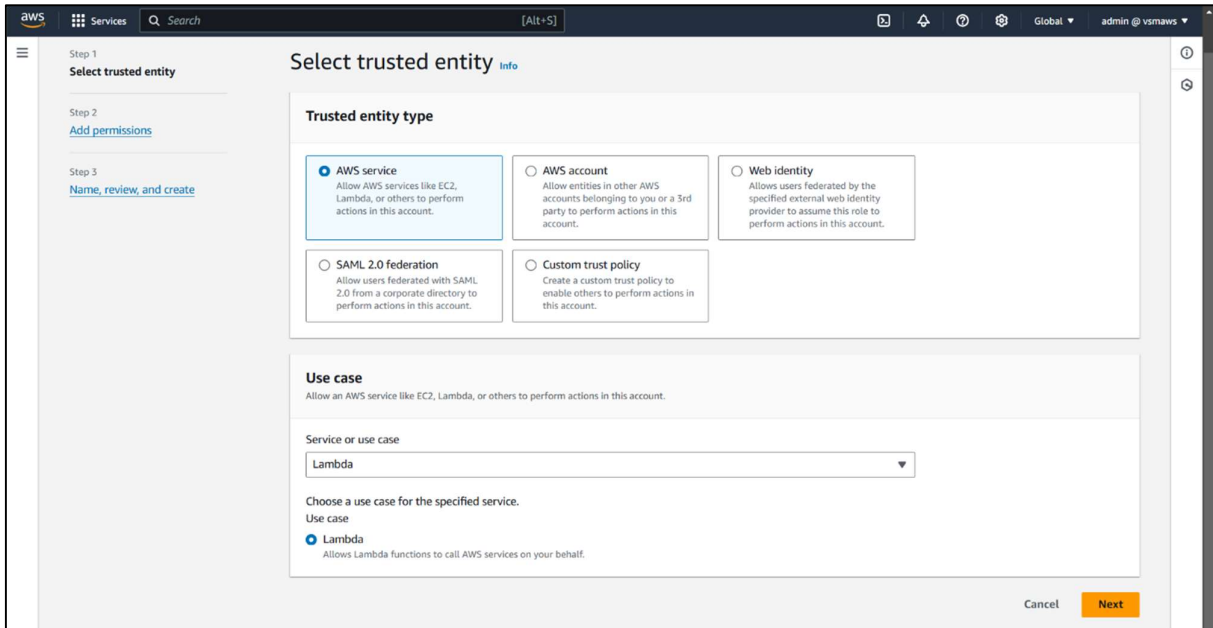12. Login in again. Copy the auth code. It will be used later.
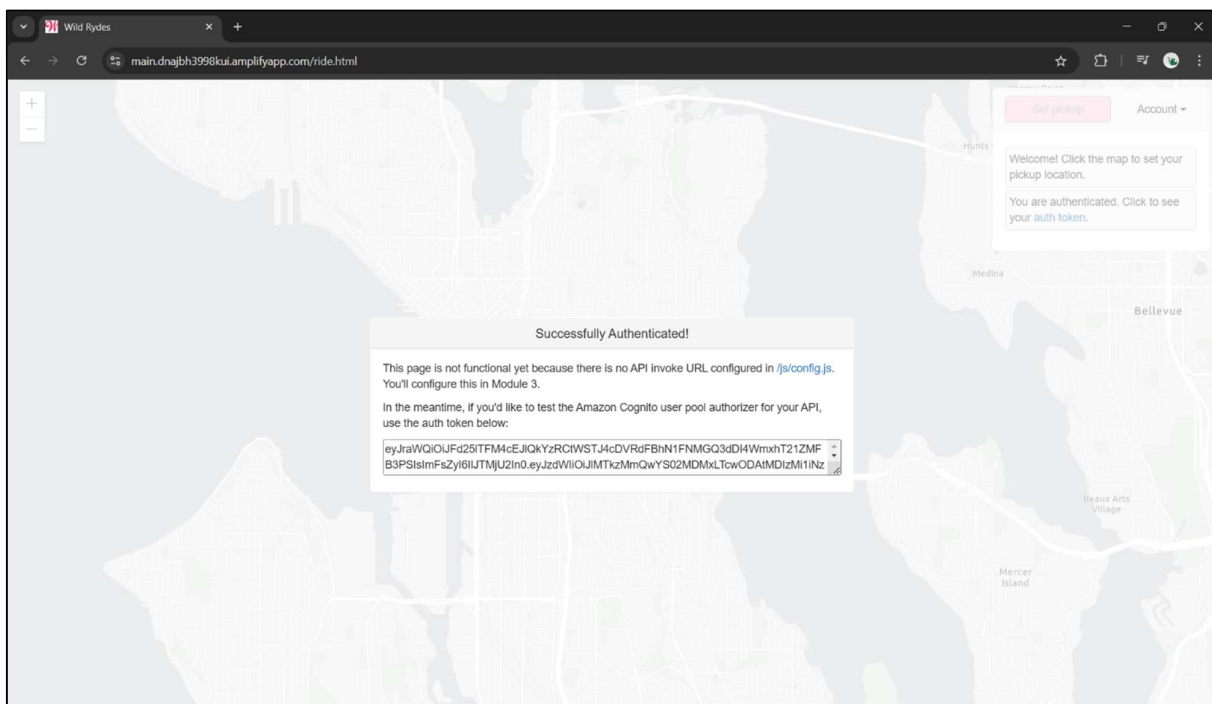
DYNAMODB

1. Launch DynamoDB Console
2. Create a new Table.
3. Table Name   : wildrydes-dynamodb-table
    Partition Key   : RideID (String)
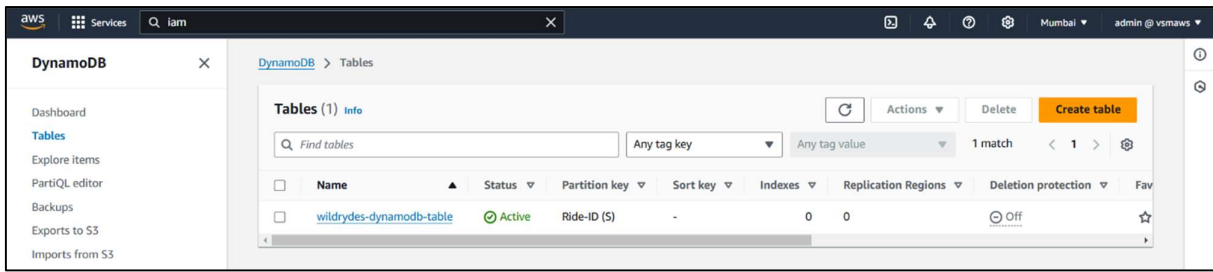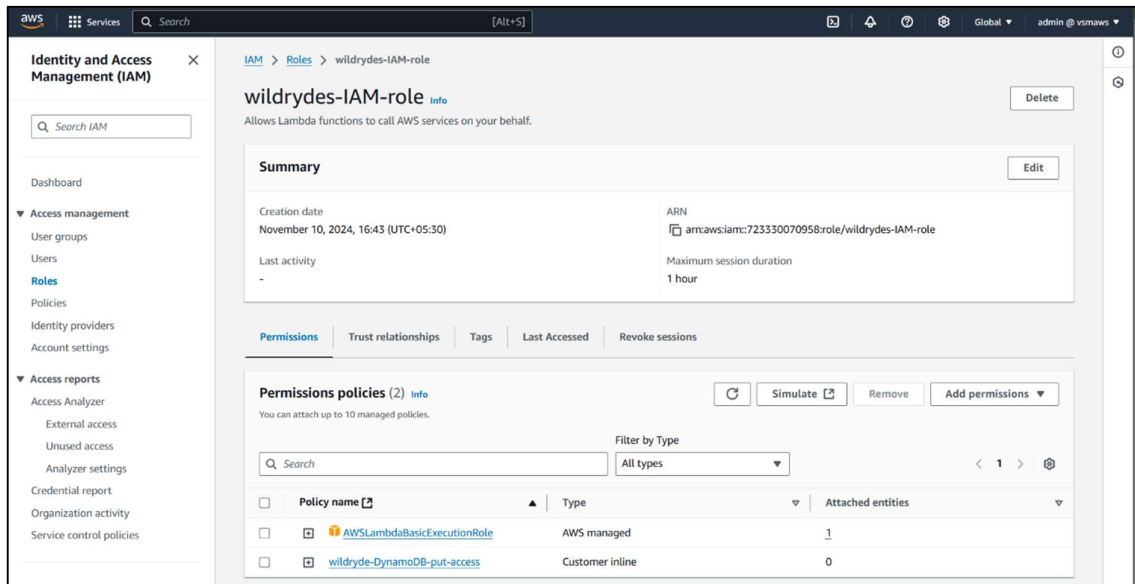
IAM

1. Create New Role as seen in Images below.
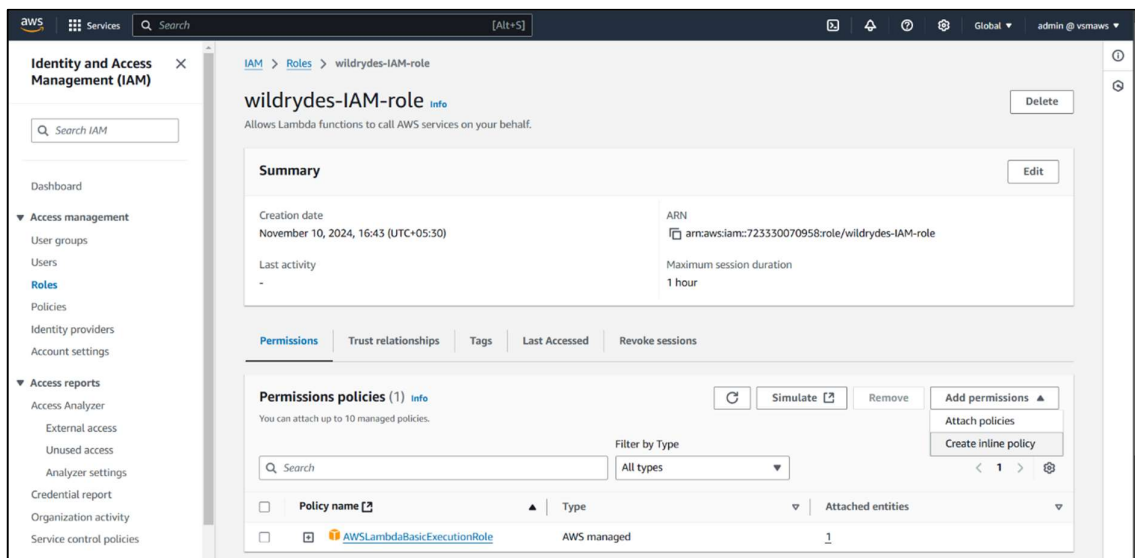
2. Once role is created, add DynamoDB Put Item permission in the IAM Role.

LAMBDA

1. Create a New Lambda Function.

2. Select IAM Role created earlier.

3. Edit the Lambda Code and replace it with Lambda Function Code which could be found out in Readme File of GitHub Repo.

API GATEWAY

1. Click on Create API
2. Select REST API
3. Create a New API named "wildrydes-REST-Api"

4. Click on Authorizers in Left Pane of API Gateway.
5. Click on Create Authorizer
6. Select Authorizer Type as Cognito. Select "wildrydes-cognito-userpool" userPool which was created earlier.
7. Type Token Source as Authorization.

8. To test if authorizer is working as expected, click on newly created Authorizer and paste the token Value which was copied in Step 12 of Cognito.
9. Test the authorizer. The result should output 200 Code.

10. Click on Resources Tab in Left Pan11. Click on Create Resource. Enable CORS.

13. One resource is created, click on "Create Method"
14. Select Method type as POST. Select Lambda Function created earlier.

15. Create Method

16. Edit Method Request
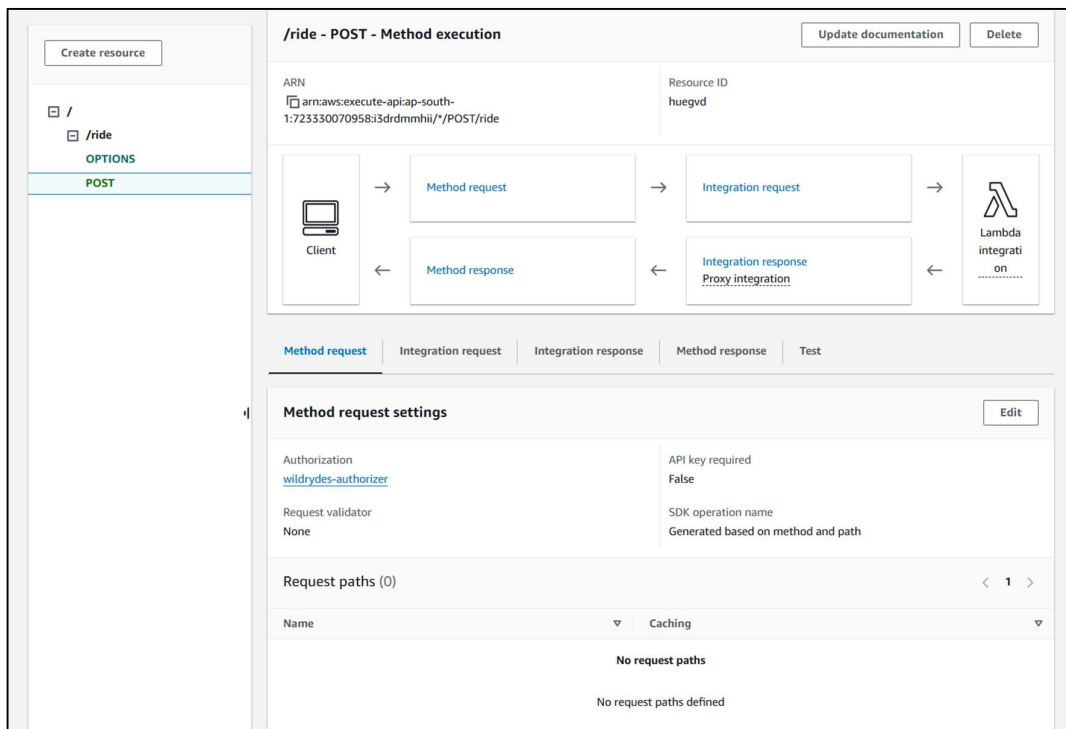
17. Select Authorization as Cognito User Pool Authorizers
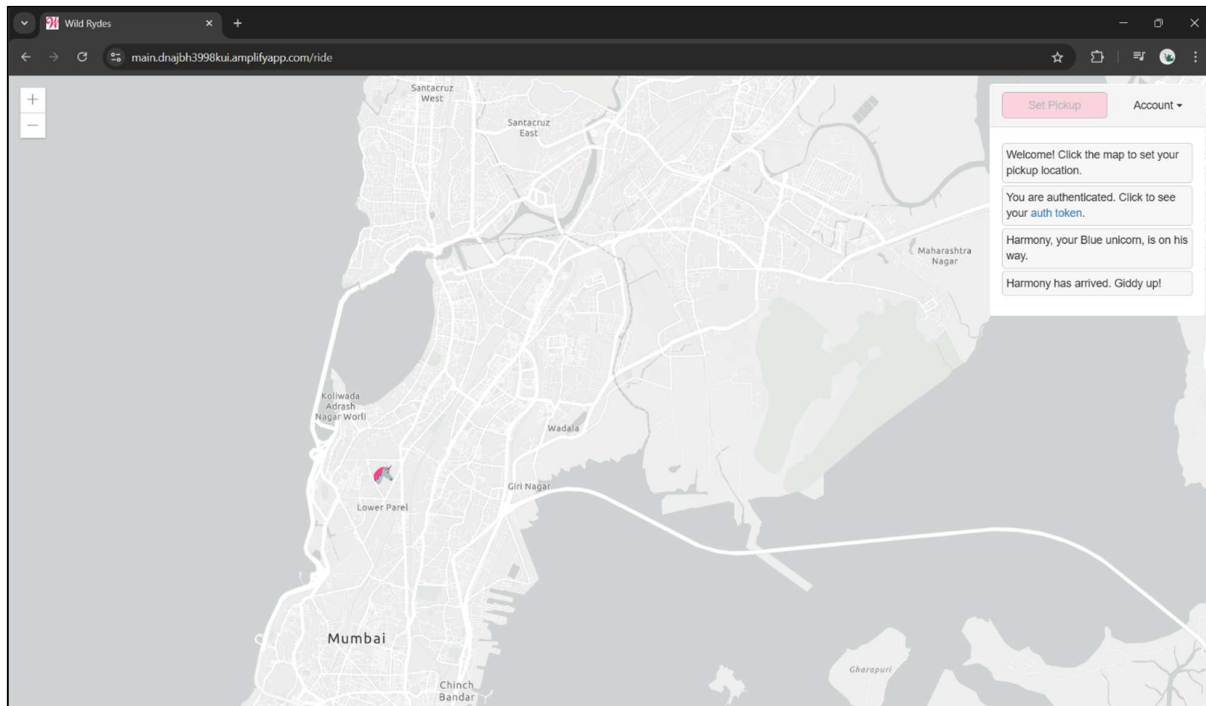
18. Save and Deploy the API

19. Copy the Invoke API and Paste it in GitHub Repo → js → vendor → config.js and paste it in invokeUrl. Commit Changes. These changes will trigger new deployment.

WEBSITE

1. Add /ride.html to the Domain url. This will load the APP. Click on Any Place on the Map and request the unicorn.

Please check "final-website-images" Folder in GitHub Repo for more Images of the Application