

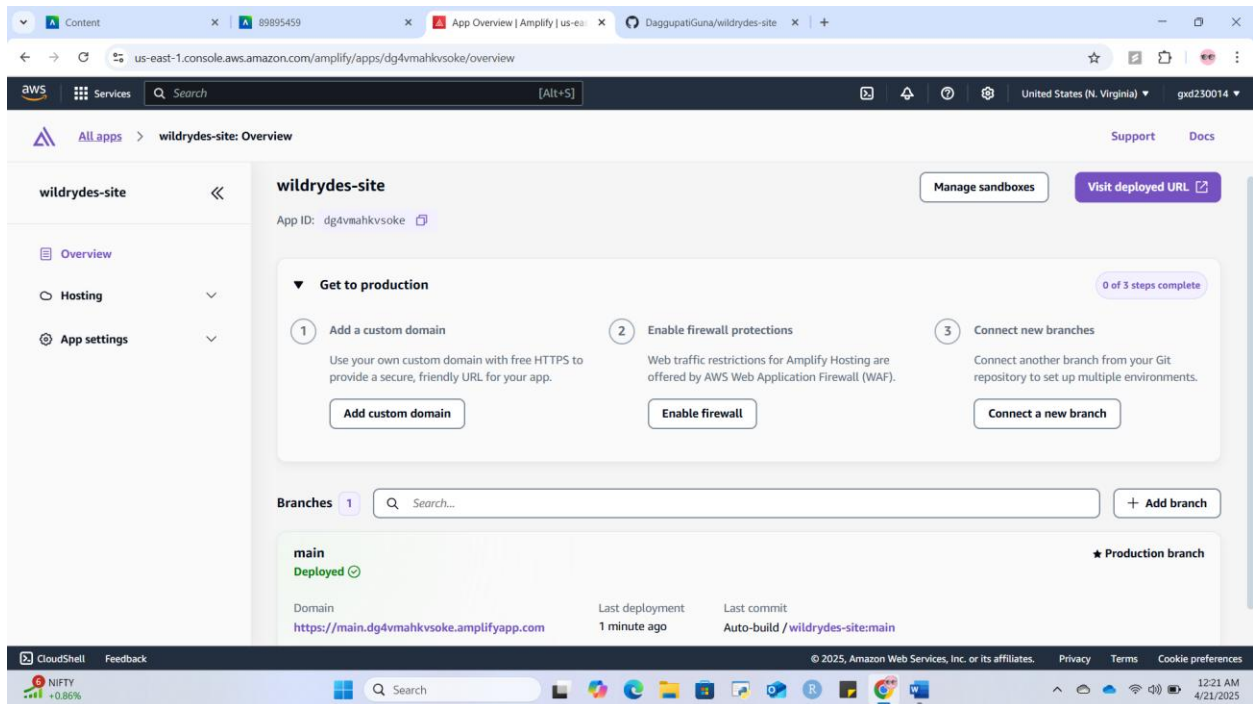
Guna Shekar Daggupati

Gxd230014

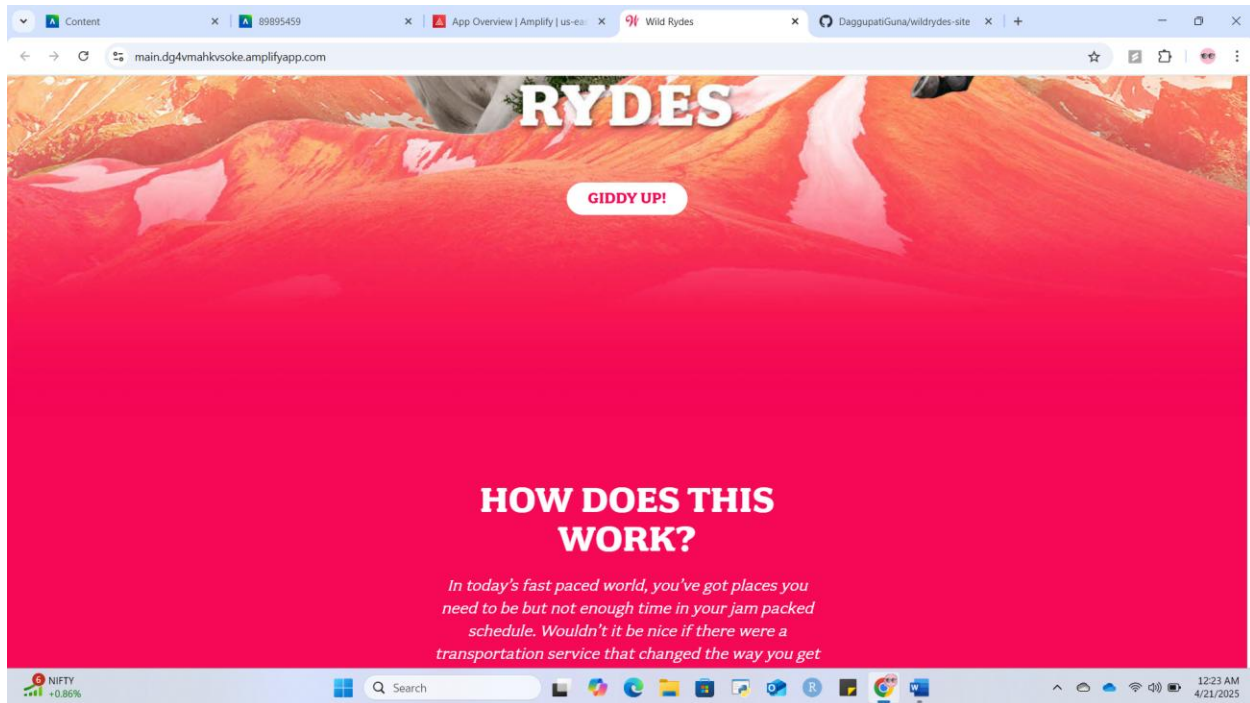
Lab08.Building a Web Application on AWS

Wild Ryde's Application

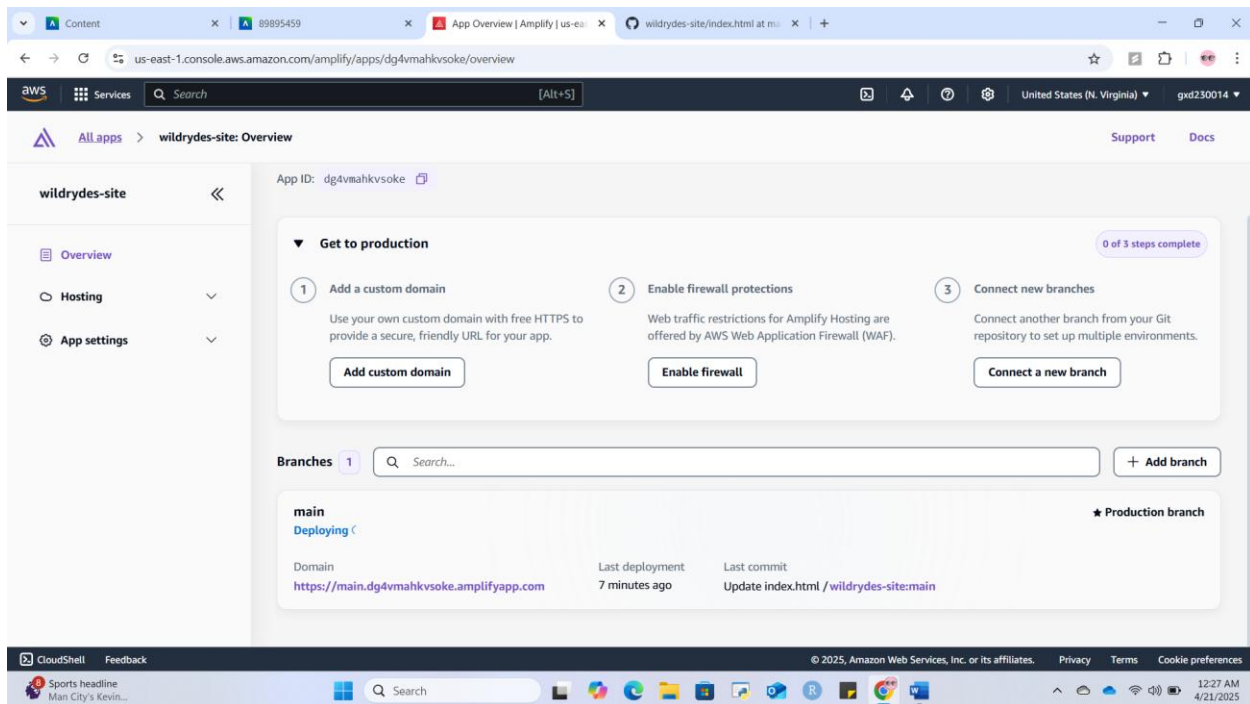
i. Creating a new app for hosting in AWS Amplify



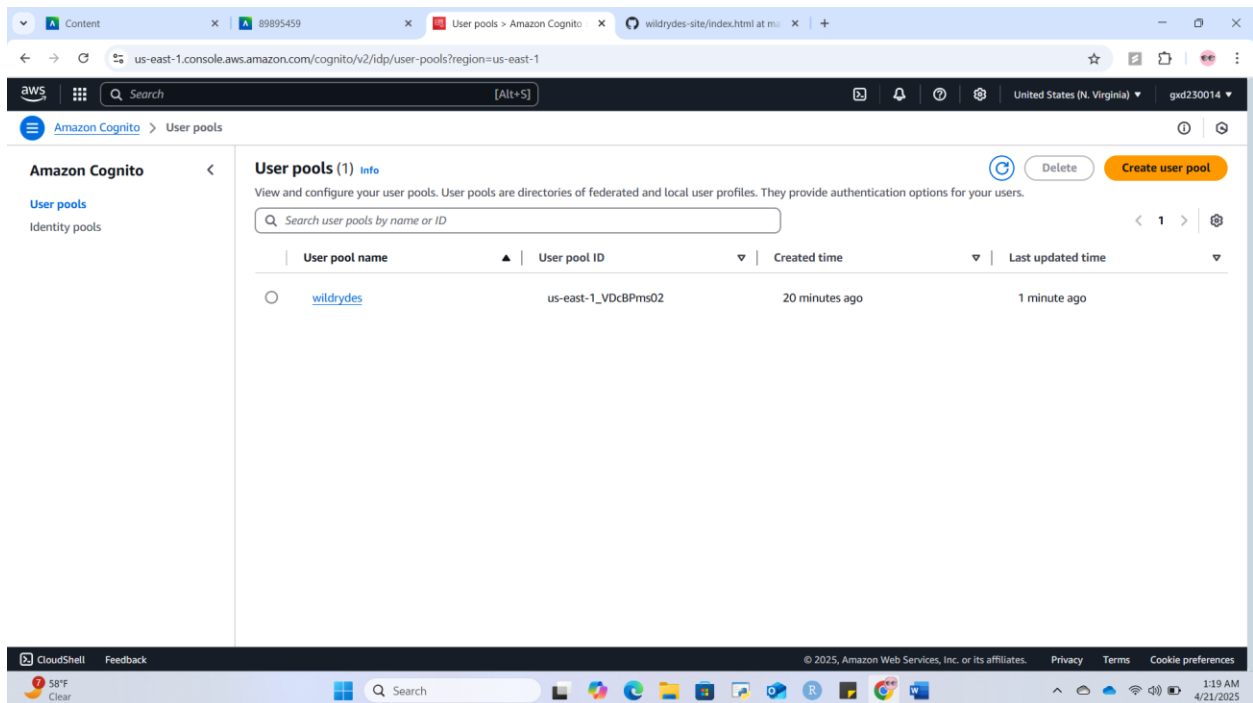
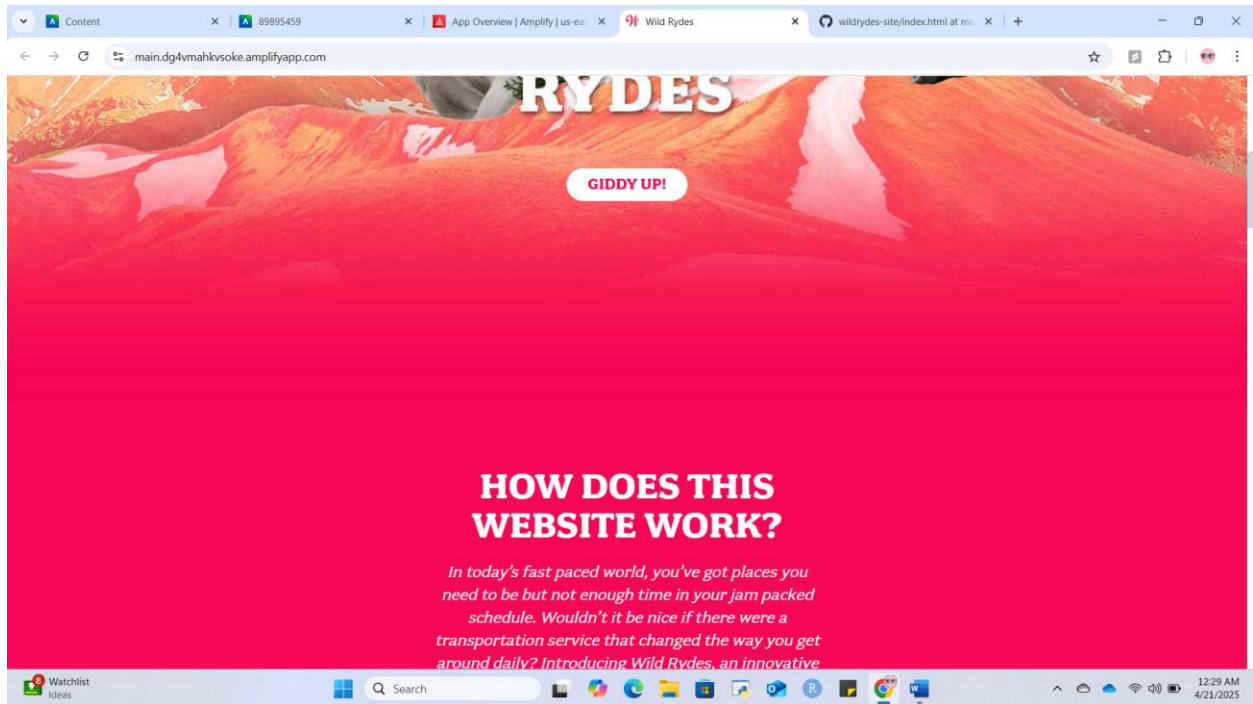
This is the wildydes website with “ how does this Work”



ii. Setting up Amazon Cognito for user authentication

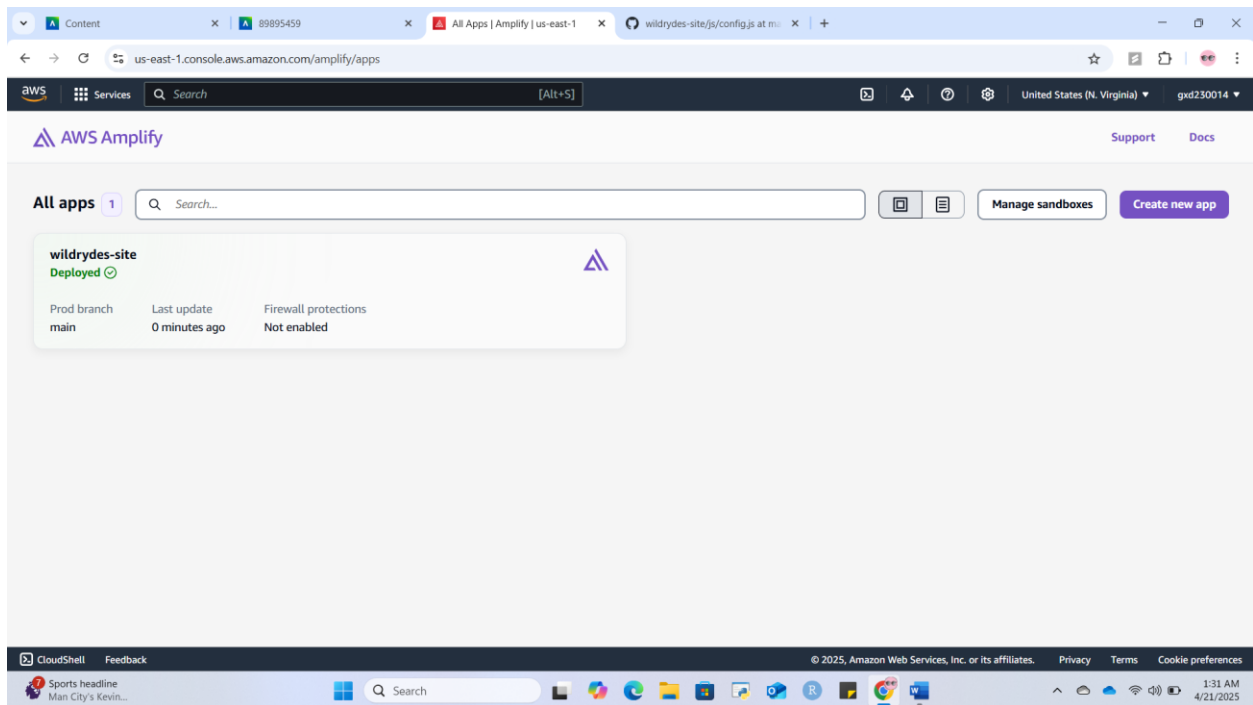
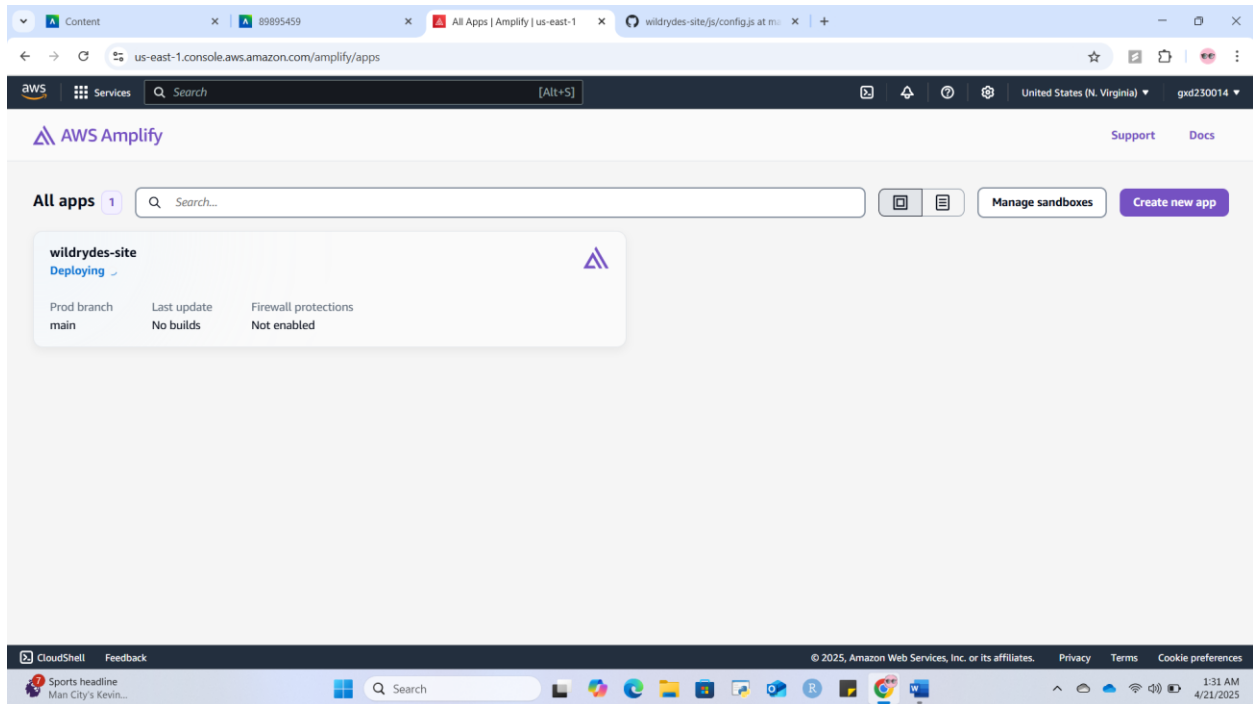


Changed the text to “ how does this website work” in github

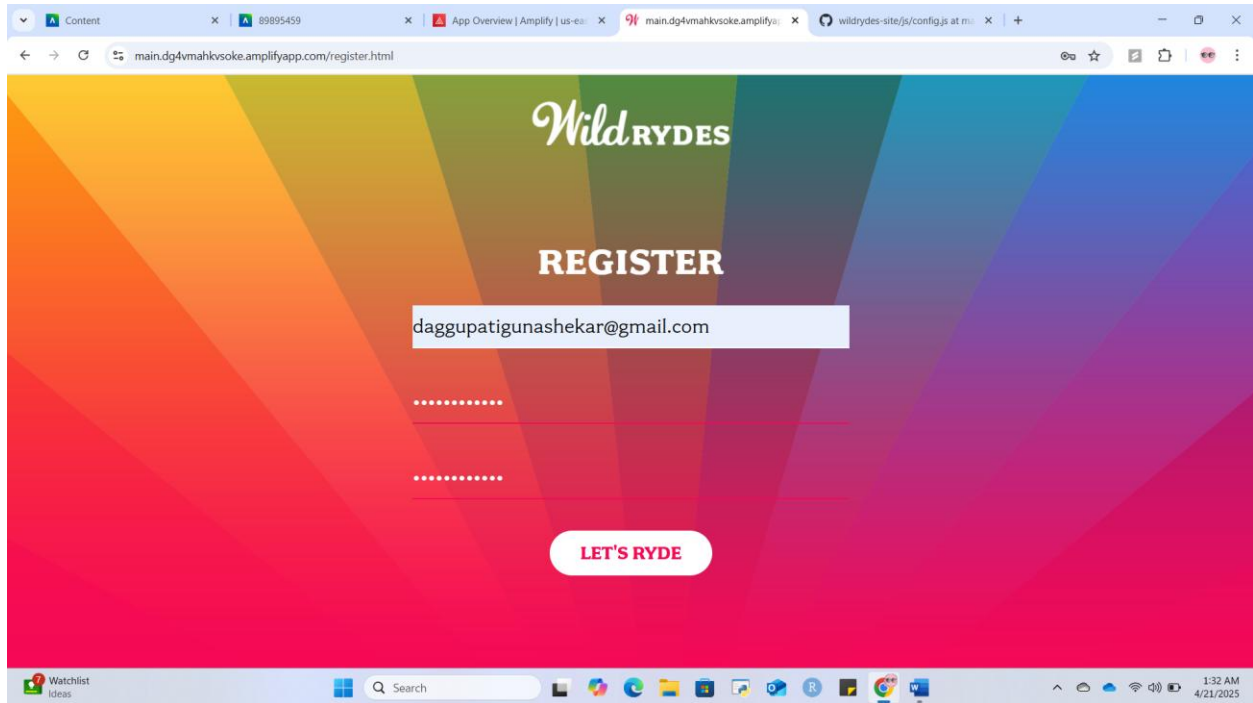
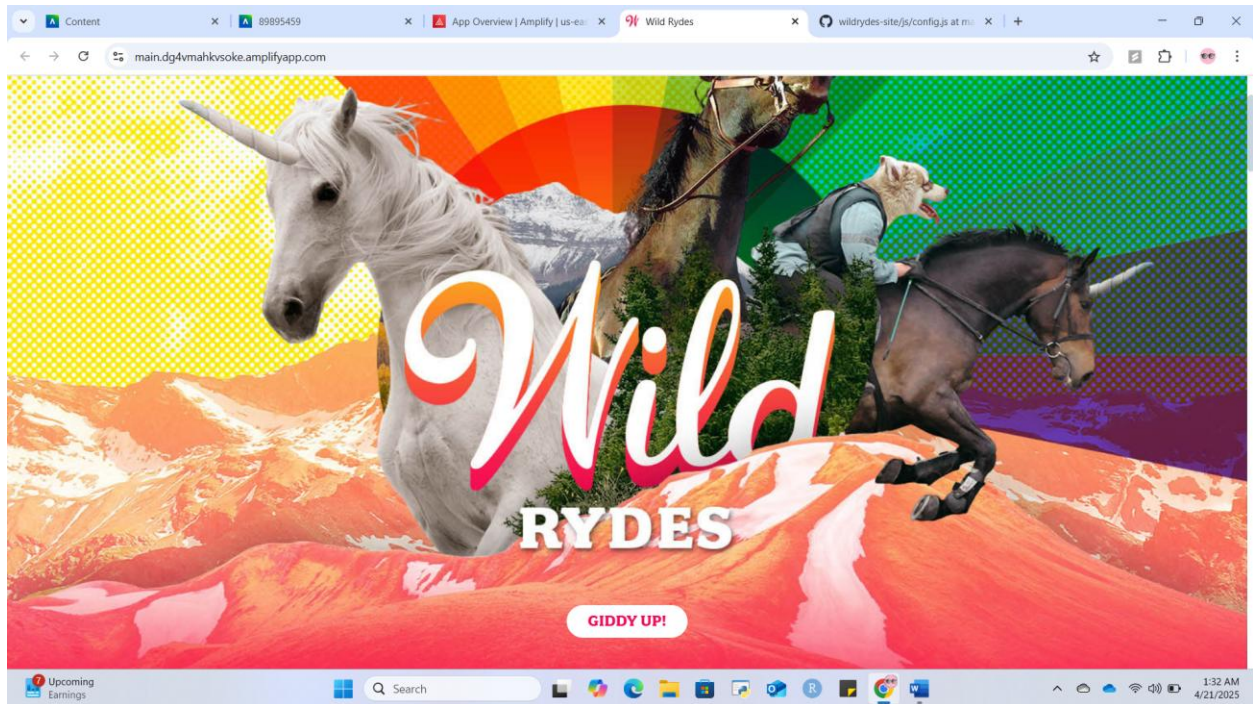


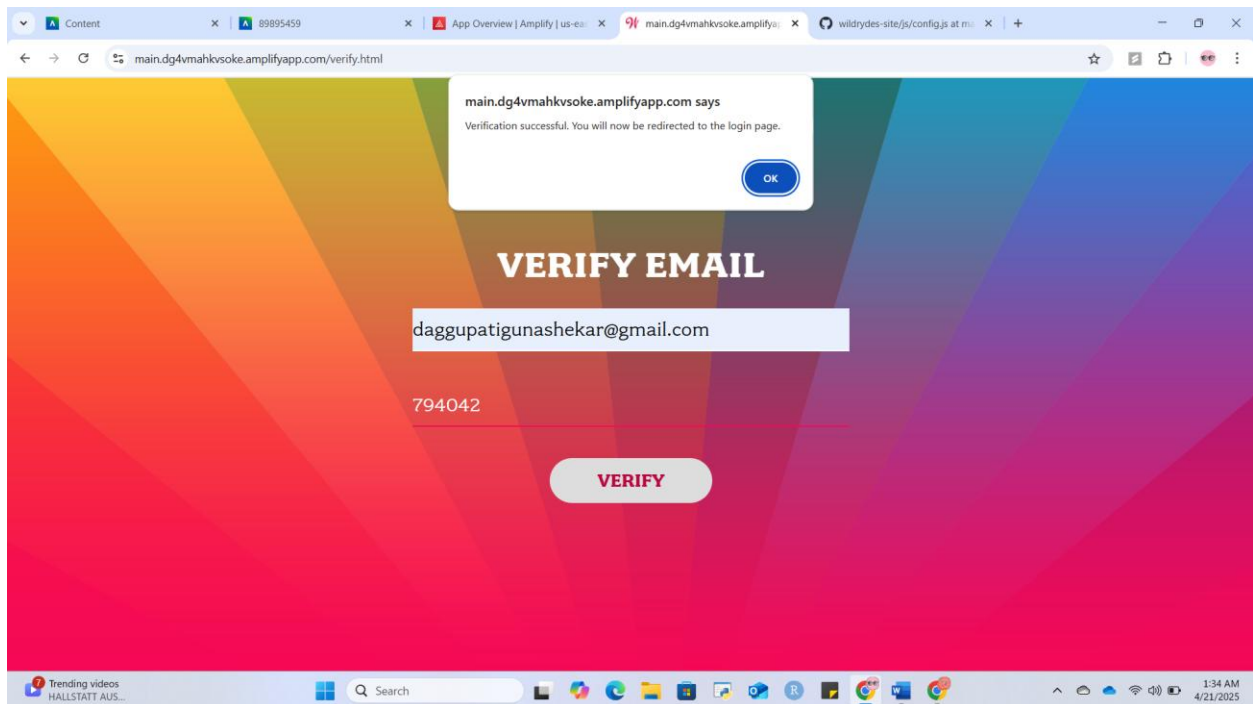
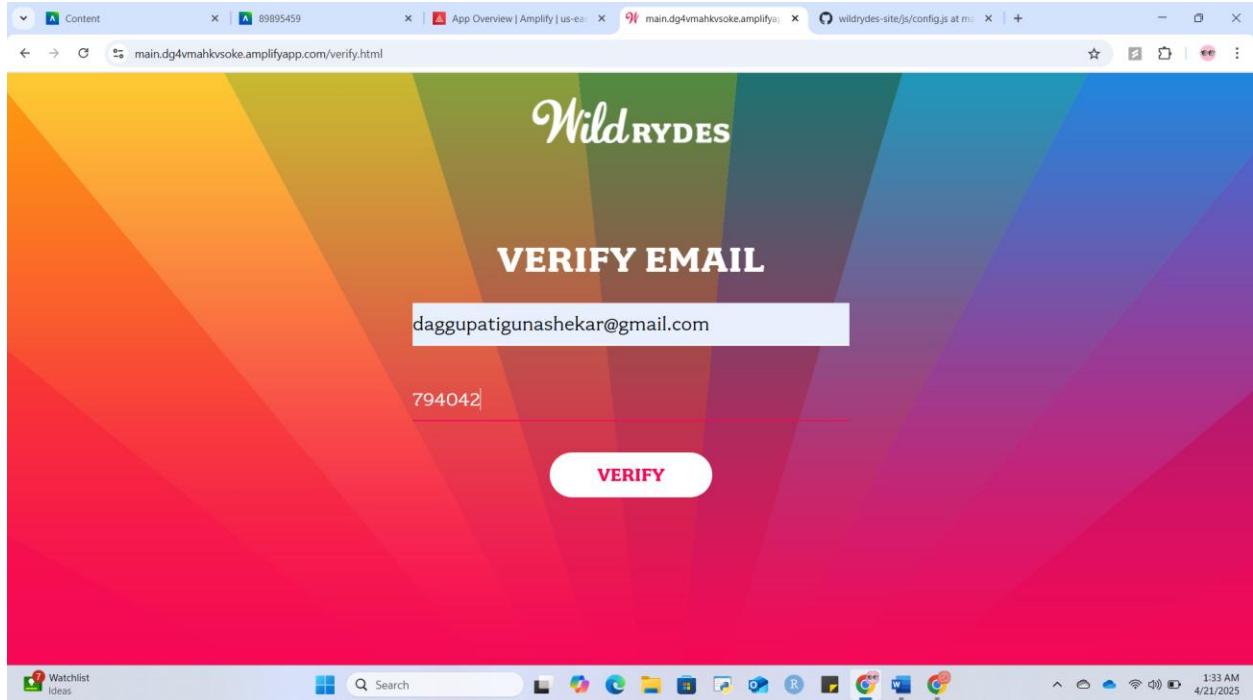
User pool id : us-east-1_VDcBPms02

Client id: 6rtnu9rrndqlv3eh5ubpaom9on

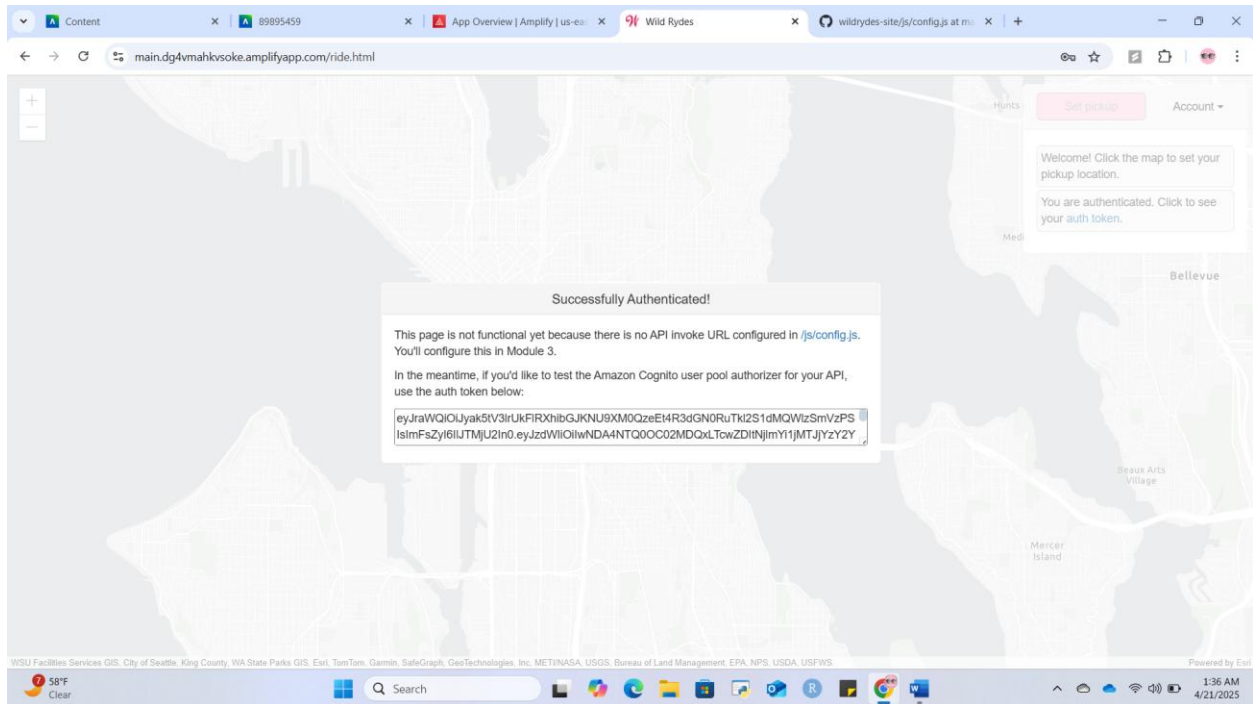


Created a login page for the Wild Rydes Application using AWS Cognito.

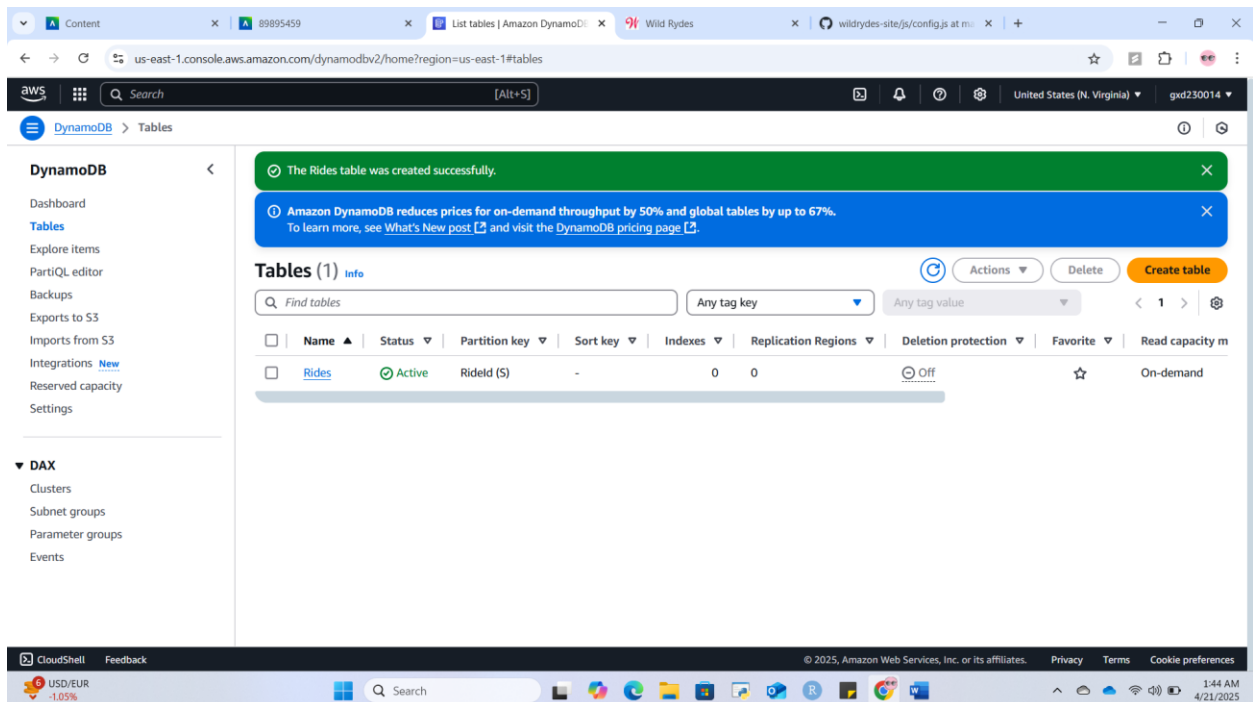




Successfully signed in and generated token.



Created a DynamoDB table



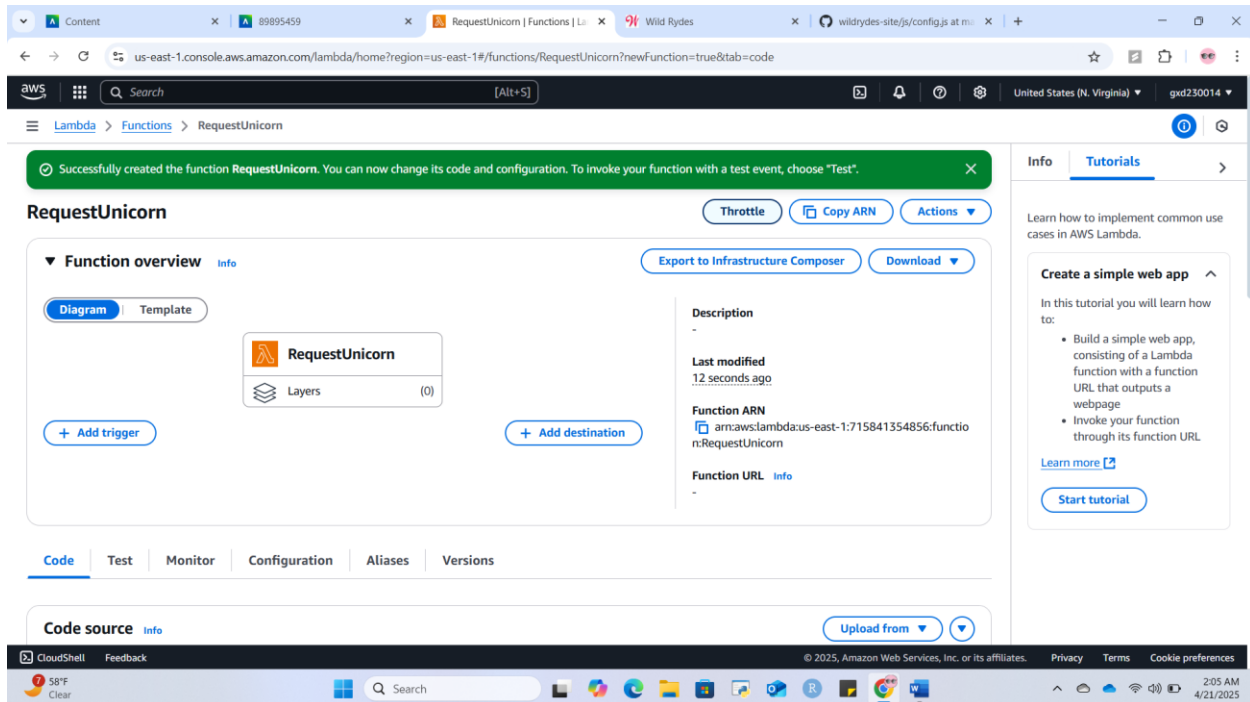
In the table rides we have copied the ARN

arn:aws:dynamodb:us-east-1:715841354856:table/Rides

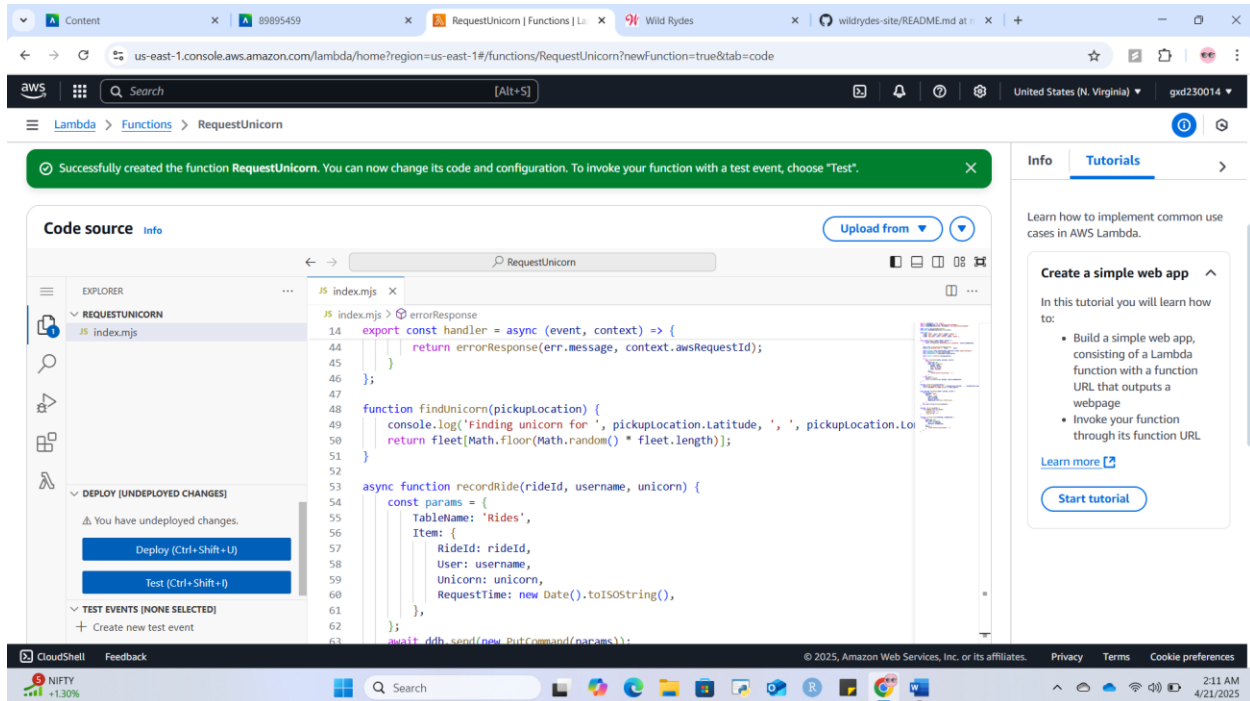
The screenshot shows the AWS Management Console for the 'Rides' table in Amazon DynamoDB. The left sidebar contains navigation links for 'DynamoDB' (Dashboard, Tables, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Integrations, Reserved capacity, Settings) and 'DAX' (Clusters, Subnet groups, Parameter groups, Events). The main content area is titled 'Rides' and includes tabs for 'Settings', 'Indexes', 'Monitor', 'Global tables', 'Backups', 'Exports and streams', and 'Permissions'. The 'Settings' tab is active, displaying 'General information' and 'Read/write capacity'. The 'General information' section shows: Partition key 'Rideld (String)', Sort key '-', Capacity mode 'On-demand', Table status 'Active', Alarms 'No active alarms', Point-in-time recovery (PITR) 'Off', Average item size '0 bytes', Resource-based policy 'Not active', and Amazon Resource Name (ARN) 'arn:aws:dynamodb:us-east-1:715841354856:table/Rides'. The 'Read/write capacity' section is also visible. The bottom of the console shows the AWS CloudShell and a Windows taskbar with the date 4/21/2025.

The screenshot shows the AWS Management Console for the 'WildRydesLambda' role in IAM. The left sidebar contains navigation links for 'Identity and Access Management (IAM)' (Dashboard, Access management: User groups, Users, Roles, Policies, Identity providers, Account settings, Root access management, Access reports: Access Analyzer, External access, Unused access, Analyzer settings, Credential report, Organization activity) and 'Access management'. The main content area is titled 'WildRydesLambda' and includes tabs for 'Permissions', 'Trust relationships', 'Tags', 'Last Accessed', and 'Revoke sessions'. The 'Permissions' tab is active, displaying a notification 'Policy DynamoDBWriteAccess created.' and a table of 'Permissions policies (2)'. The table has columns for 'Policy name', 'Type', and 'Attached entities'. The policies listed are 'AWSLambdaBasicExecutionRole' (AWS managed, 1 attached entity) and 'DynamoDBWriteAccess' (Customer inline, 0 attached entities). The 'Permissions boundary' is noted as '(not set)'. The bottom of the console shows the AWS CloudShell and a Windows taskbar with the date 4/21/2025.

Created lambda Function



Inserted the lambda code



Created a test event and checked it, it was successful.

The screenshot shows the AWS Lambda console for the 'Request Unicorn' function. A green notification banner at the top states: 'The test event "TestRequestEvent" was successfully saved.' The left sidebar shows the 'TEST EVENTS (SELECTED: TESTREQUESTEVENT)' section with a 'Test (Ctrl+Shift+I)' button. The main area displays the function code, which includes a 'try' block with an 'await recordRide' call. The 'Execution Results' tab shows a 'Status: Succeeded' and a 'Response' object with a 'statusCode' of 201 and a 'body' containing ride details. The right sidebar shows the 'Info' tab with a 'Tutorials' link and a 'Create a simple web app' tutorial card.

Checking the DynamoDB table to see wheater the items we created or not

The screenshot shows the AWS DynamoDB console for the 'Rides' table. The left sidebar shows the 'DynamoDB' section with a 'Explore items' link. The main area shows the 'Table: Rides - Items returned (1)' section. A green notification banner at the top states: 'Completed - Items returned: 1 - Items scanned: 1 - Efficiency: 100% - RCUs consumed: 2'. The table shows one item with the following attributes: 'RideId' (String), 'RequestTime' (String), 'Unicorn' (String), and 'User' (String). The 'RideId' value is '2IG9ljh7HXnHkUHRfYz1fW...' and the 'User' value is 'the_username'.

It successfully passed

API Gateway > APIs > WildRydes (rrwoefh4d) > Authorizers > WildRydes

Test authorizer

Test your authorizer with a simulated invocation request. You can modify the request parameters and stage variables, but you can't change the simulated context variables.

Token source
Authorization

Token value
eyJraWQlOiJyak5tV3lrUkFIRXhibGJKNu9XM0QzeE4R

Authorizer test: WildRydes

200

Claims

```
{
  "aud": "6rtnu9rrndqlv3ehSubpaom9on",
  "auth_time": "1745223158",
  "cognito:username": "daggupatigunashekar-at-gmail.com",
  "email": "daggupatigunashekar@gmail.com",
  "email_verified": "true",
  "event_id": "621fadb2-27dd-49fa-93ce-3e9ba3113224",
  "exp": "Mon Apr 21 09:12:38 UTC 2025",
  "iat": "Mon Apr 21 08:12:38 UTC 2025",
  "iss": "https://cognito-idp.us-east-1.amazonaws.com/us-east-1_VDCBPms02",
  "jti": "c6bb0c9f-9b3a-41a7-a3b8-7bafed536d36",
  "origin_jti": "c5a15f43-e7ca-4086-9cb3-1f8f53387166",
  "sub": "04085448-6041-70d2-69fb-c12cc66b084a",
  "token_use": "id"
}
```

Created an api named dev

API Gateway > APIs > WildRydes (rrwoefh4d) > Stages

Stages

dev

Stage details

Stage name: dev

Rate: 10000

Cache cluster: Inactive

Burst: 5000

Default method-level caching: Inactive

Invoke URL: https://rrwoefh4d.execute-api.us-east-1.amazonaws.com/dev

Active deployment: 10oolc on April 21, 2025, 03:29 (UTC-05:00)

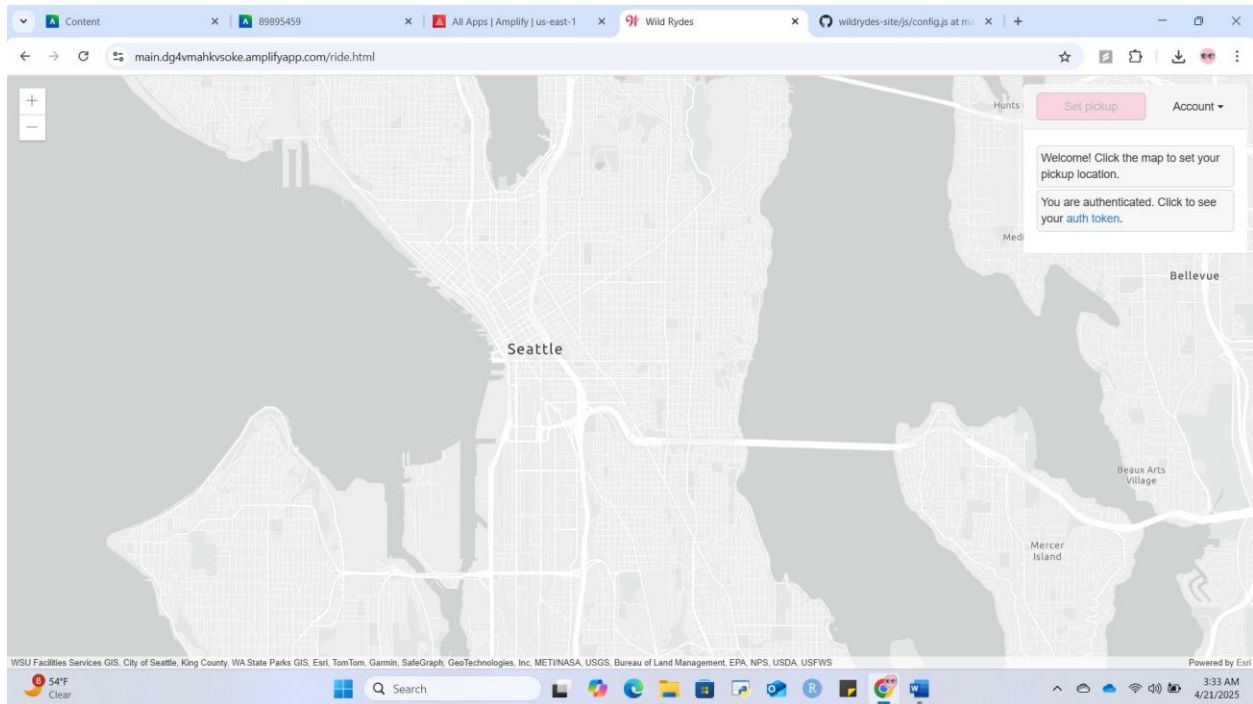
Logs and tracing

CloudWatch logs: Inactive

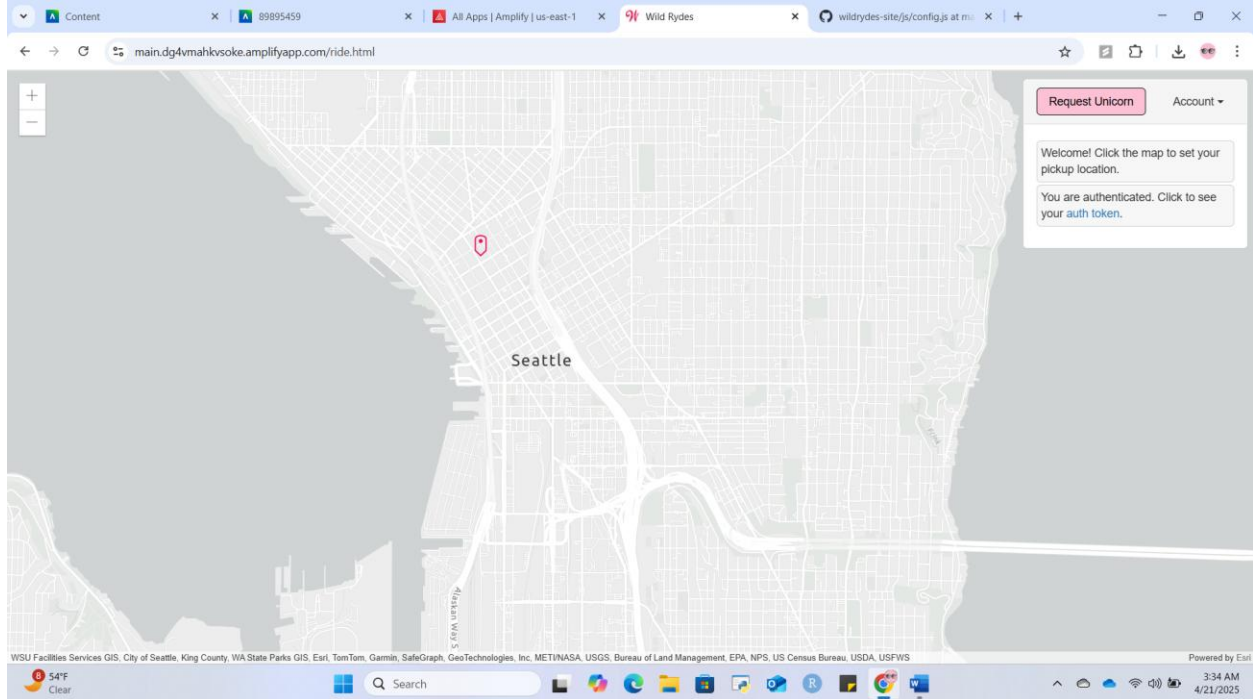
Detailed metrics: Inactive

Data tracing: Inactive

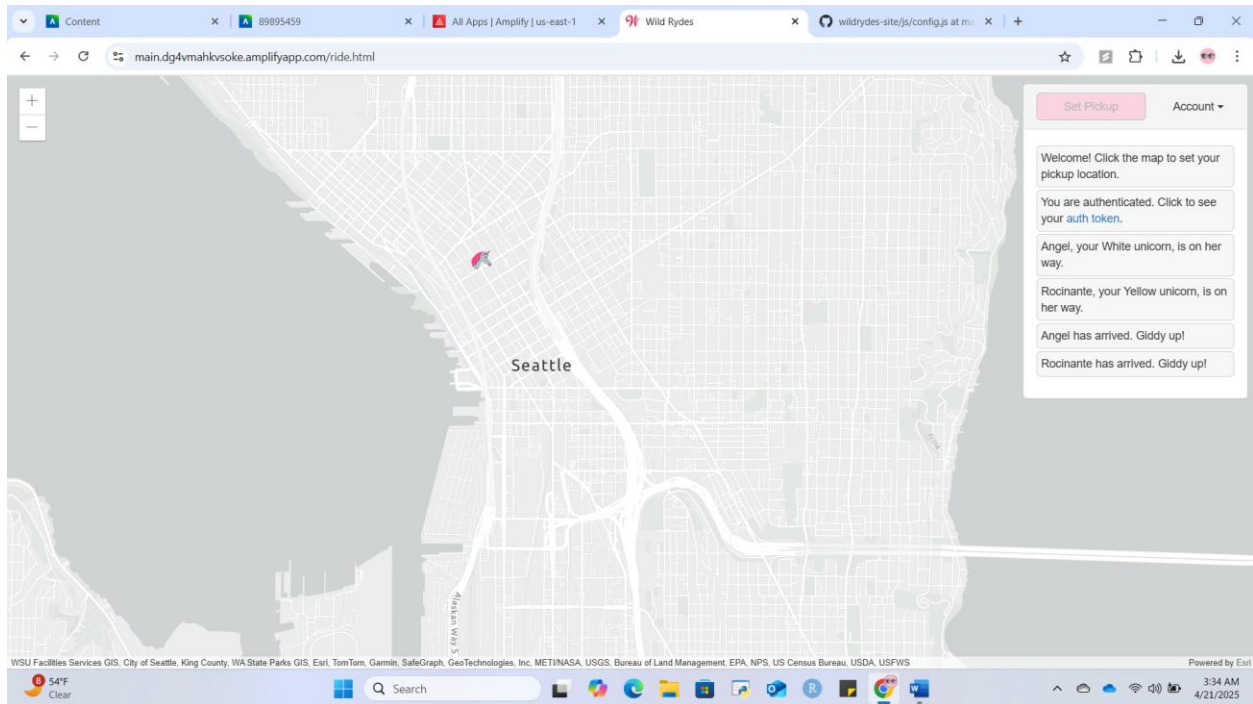
The page is working successfully logging me in and providing me service.



I have selected a location and requested for the unicorn



The unicorn ride as arrived the angel!!!



To checking my DynamoDB table weather the API calls are being registered and saved.

