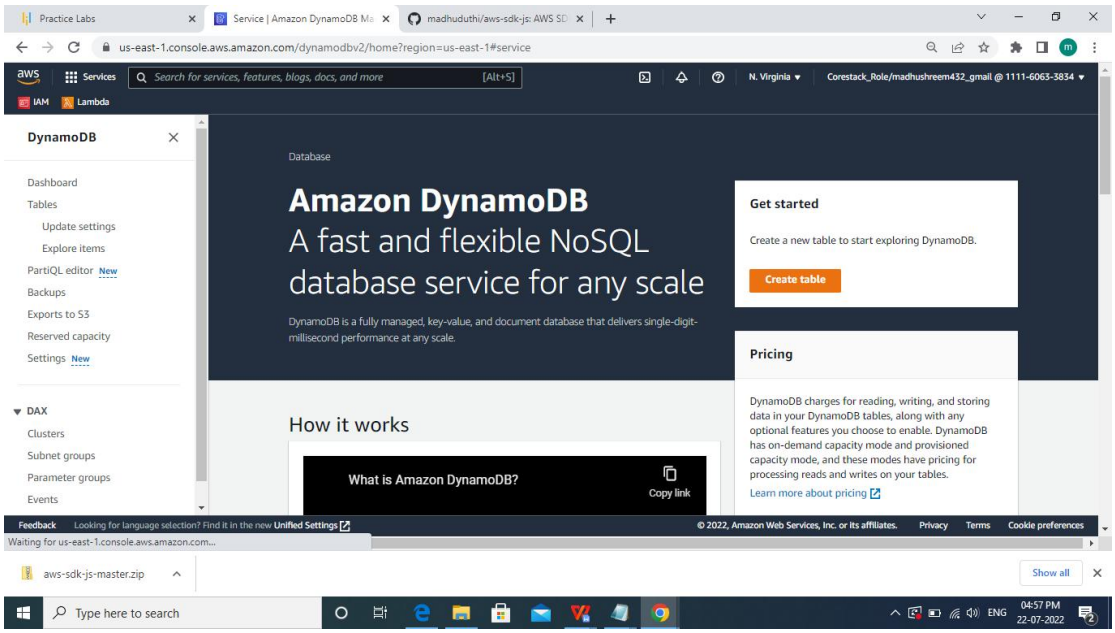
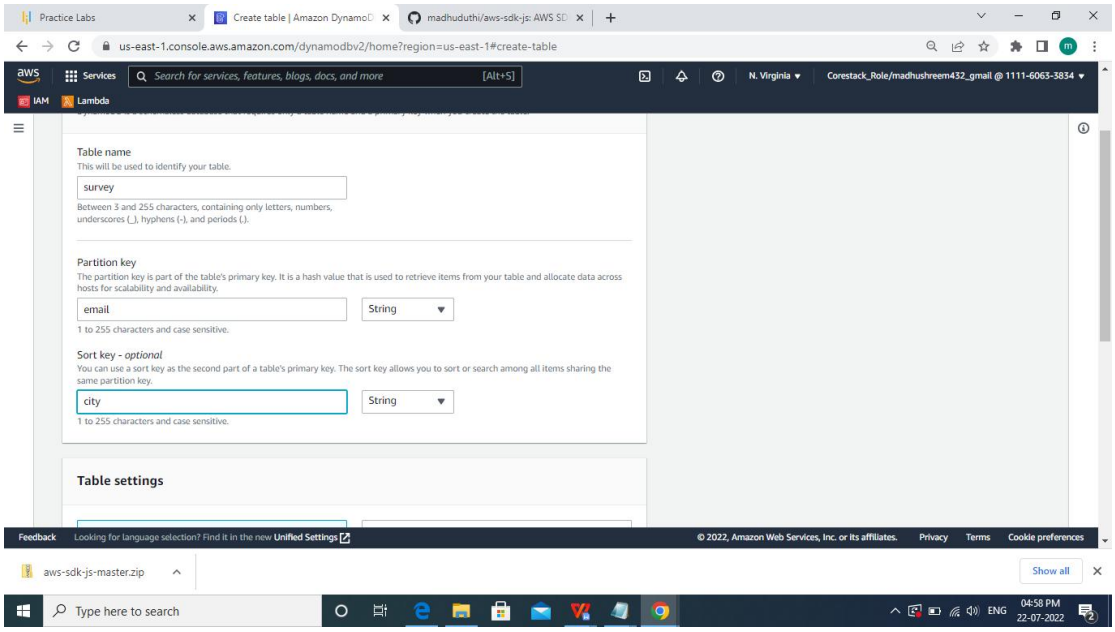
Course End Project-2

Architecting a website using the Serverless Technology

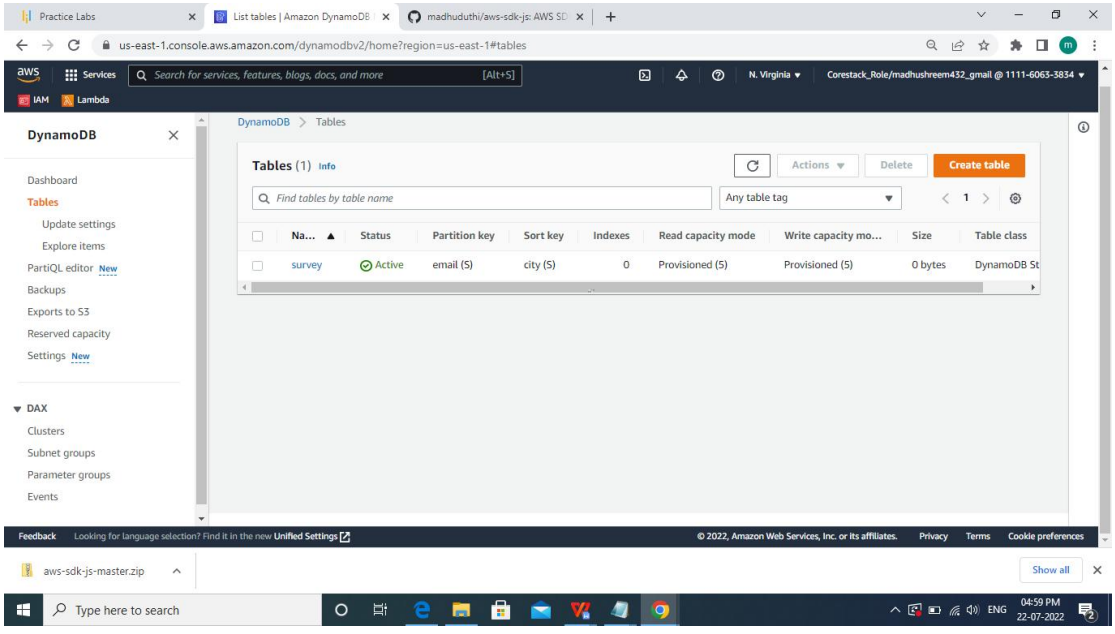
Step1: Navigate to the DynamoDB Management Console and click on `Create  table`.



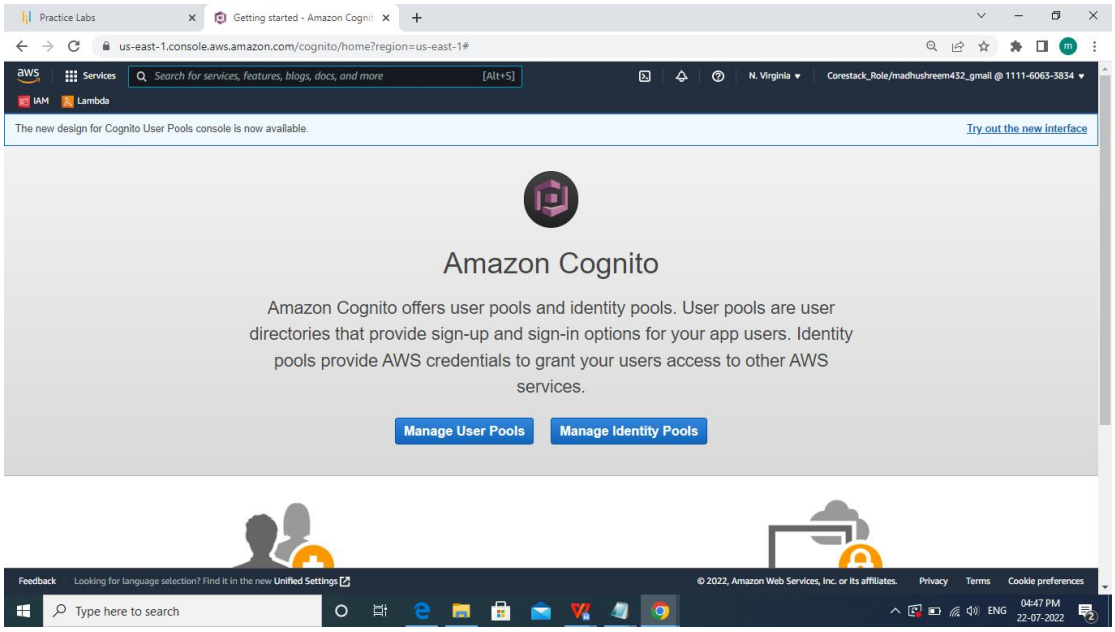
Step2: Enter the Table name as `survey`, Partition key as `email` and the Sort key as `city`. Click on `Create`.



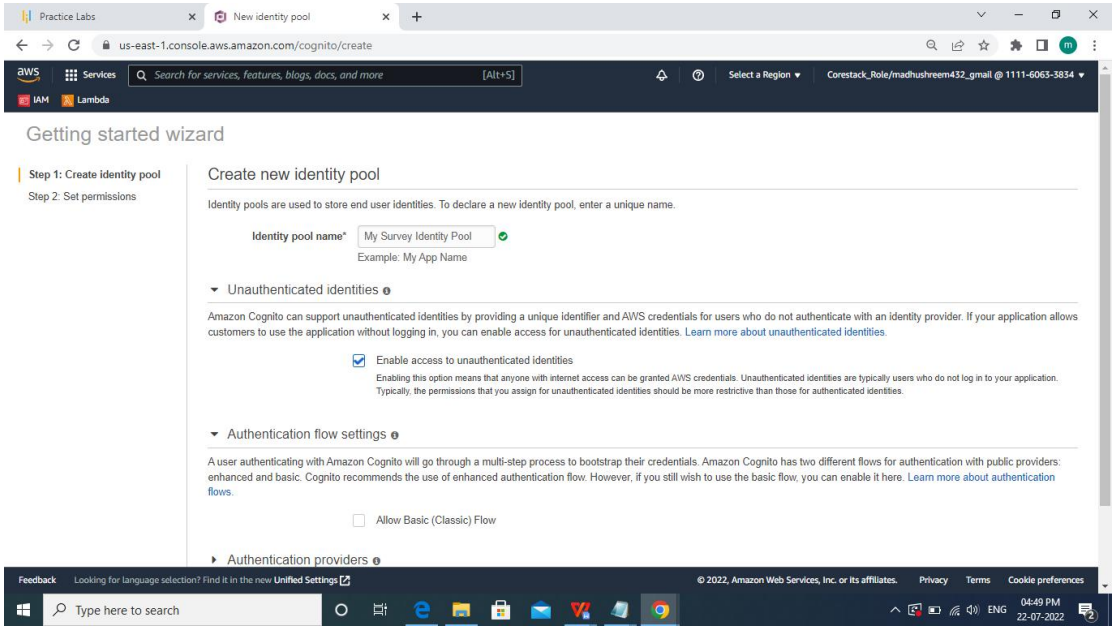
Step 3: A table would be created in DynamoDB as shown below with no items.



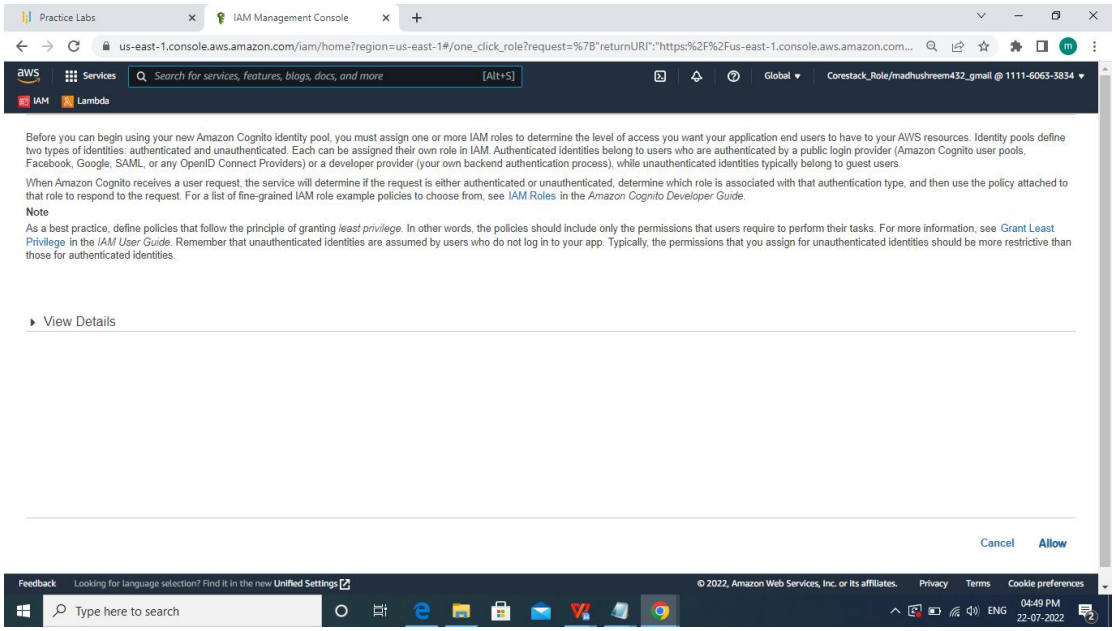
Step 4: Navigate to the `Amazon Cognito` Management Console and click on `Manage Identity Pools`.



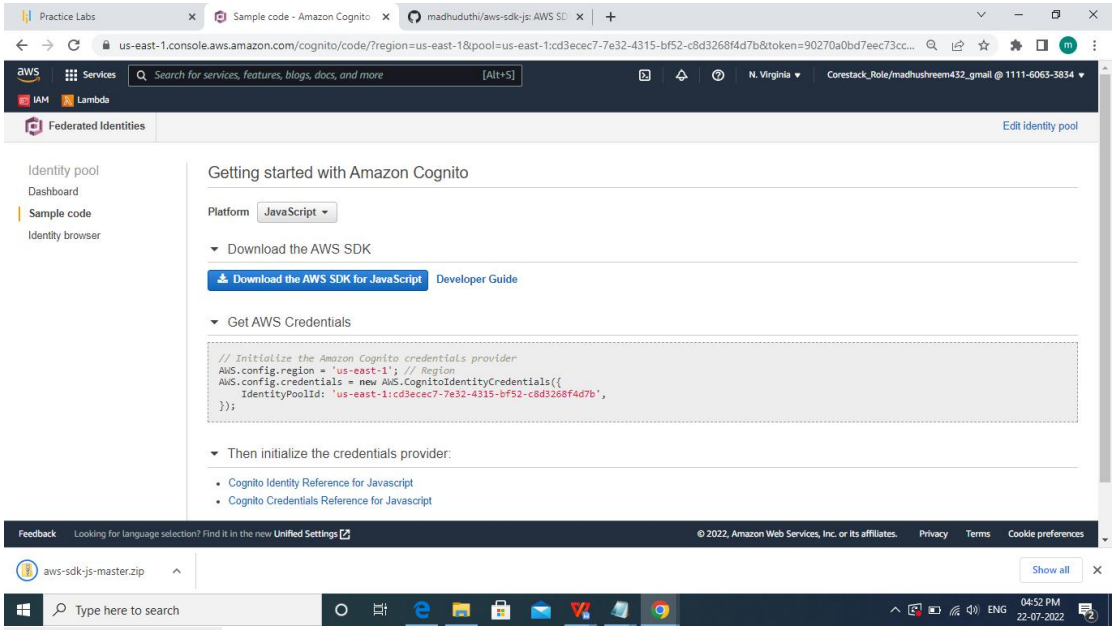
Step 5: Enter the pool name and check `Enable access to unauthorized identities` and click on `Create Pool`.



Step 6: Click on `Allow`.



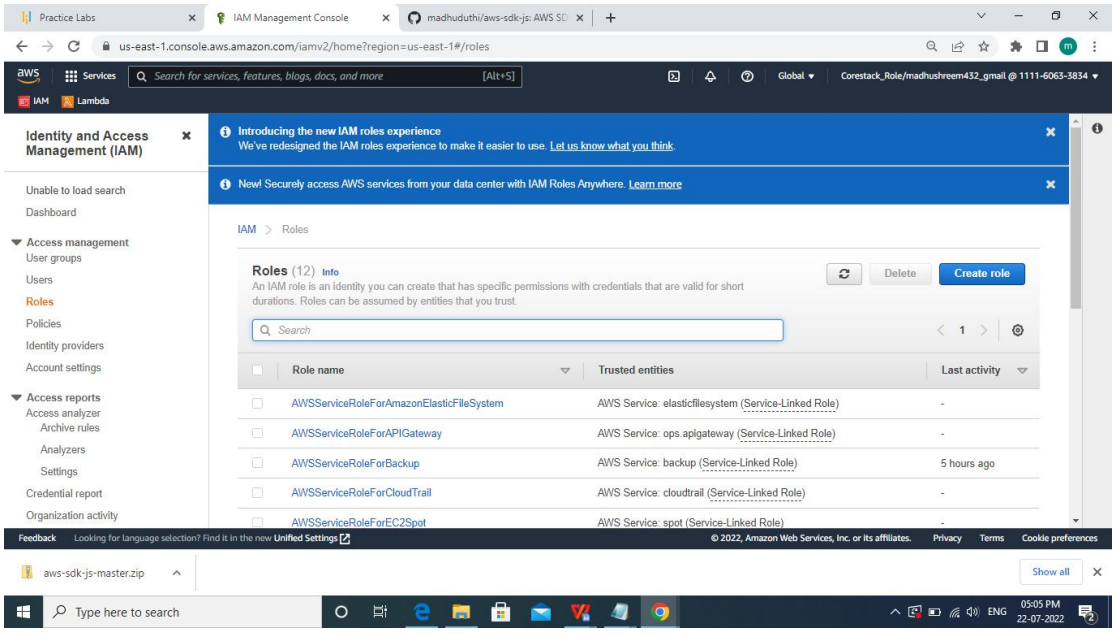
Step 7: Change the platform to JavaScript, note down the `IdentityPoolId`.

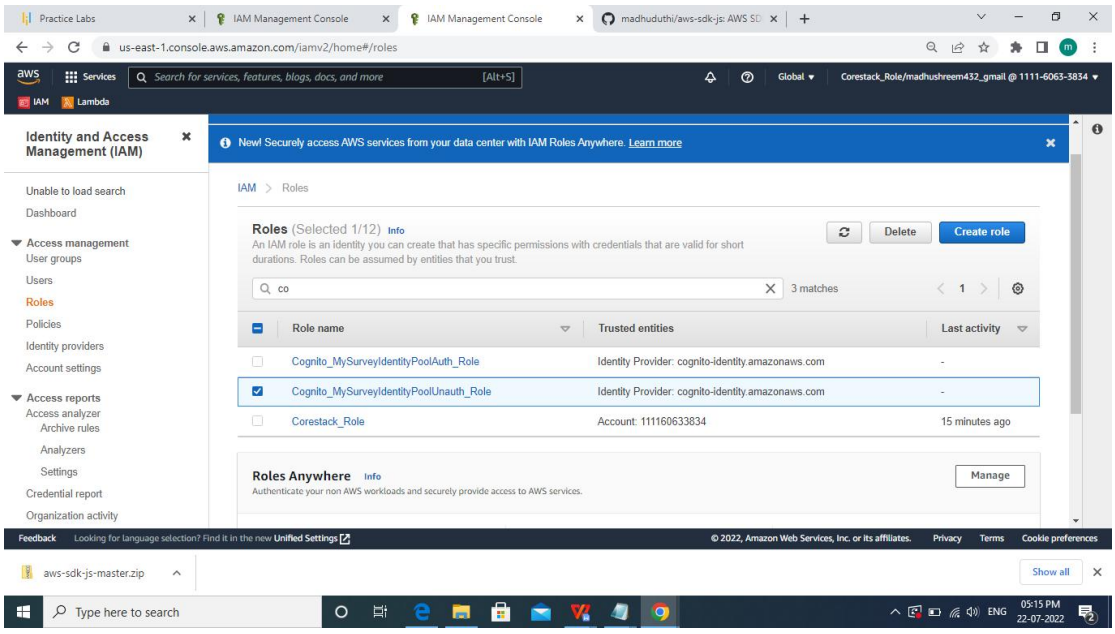


IdentityPoolId: 'us-east-1:cd3ecec7-7e32-4315-bf52-c8d3268f4d7b'

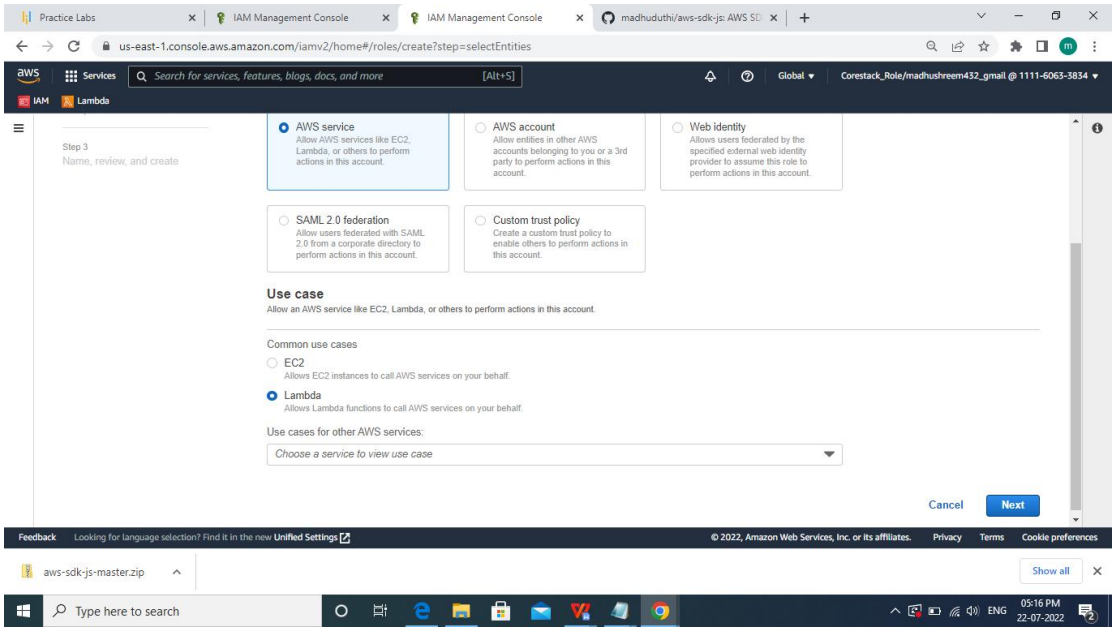
us-east-1:cd3ecec7-7e32-4315-bf52-c8d3268f4d7b

Step 8: Navigate to the IAM Management Console and click on Roles tab. Filter for the Cognito rules and click on the Role which ends with `PoolUnauth_Role`.





Step 9: Click on `Attach policies`.


Practice Labs
IAM Management Console
IAM Management Console
madhuduthi/aws-sdk-js: AWS SD
us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?step=selectEntities
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Corestack_Role/madhushreem432_gmail @ 1111-6063-3834
IAM
Lambda
Step 3
Name, review, and create
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Common use cases
EC2
Allows EC2 instances to call AWS services on your behalf.
Lambda
Allows Lambda functions to call AWS services on your behalf.
Use cases for other AWS services:
Choose a service to view use case
Cancel
Next
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
aws-sdk-js-master.zip
Show all
Type here to search
ENG
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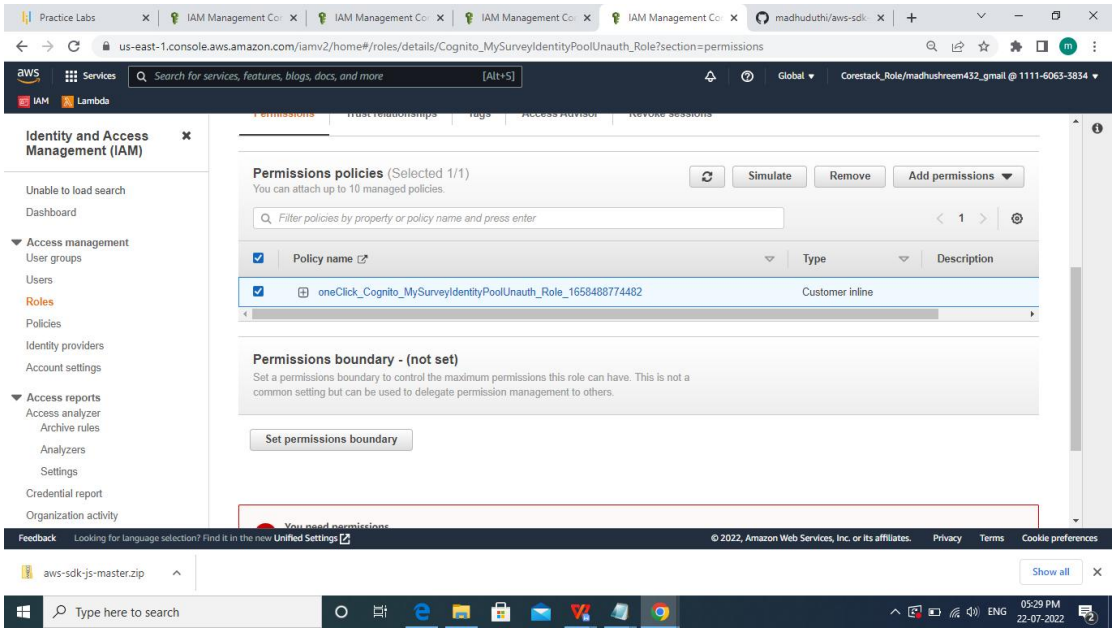
22-07-2022


Practice Labs
IAM Management Co
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madhuduthi/aws-sdk
us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/Cognito_MySurveyIdentityPoolUnauth_Role?section=permissions
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Corestack_Role/madhushreem432_gmail @ 1111-6063-3834
IAM
Lambda
Identity and Access Management (IAM)
Unable to load search
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Permissions policies (Selected 1/1)
You can attach up to 10 managed policies.
Simulate
Remove
Add permissions
Filter policies by property or policy name and press enter
1
Policy name
Type
Description
oneClick_Cognito_MySurveyIdentityPoolUnauth_Role_1658488774482
Customer inline
Permissions boundary - (not set)
Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.
Set permissions boundary
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
aws-sdk-js-master.zip
Show all
Type here to search
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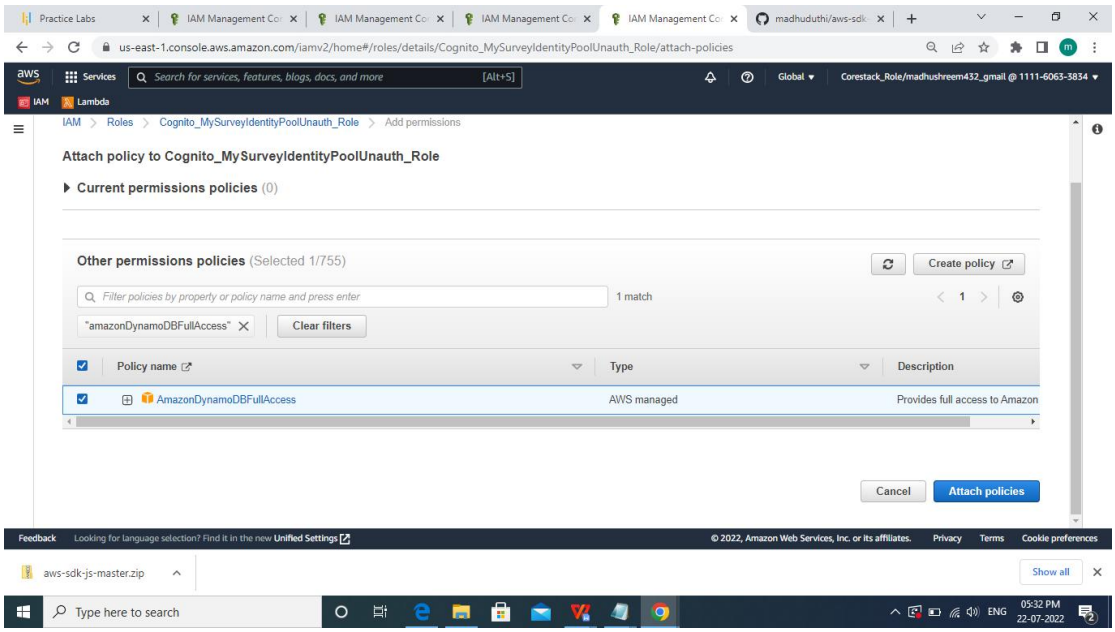
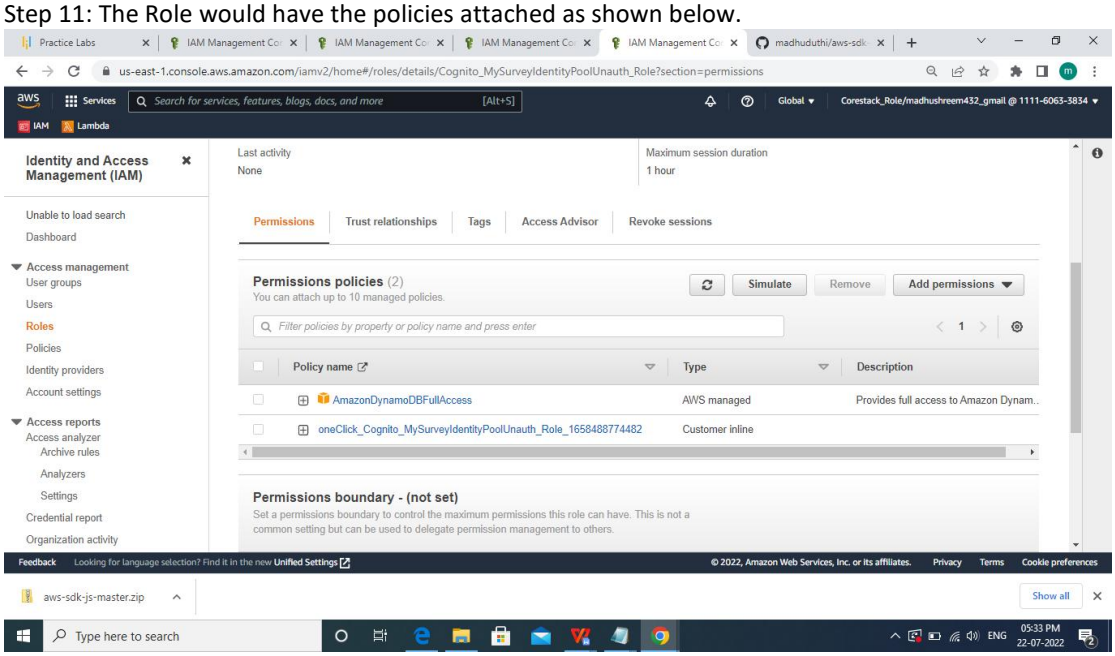
Step 10: Select the `AmazonDynamoDBFullAccess` Policy and click on `Attach policy`.

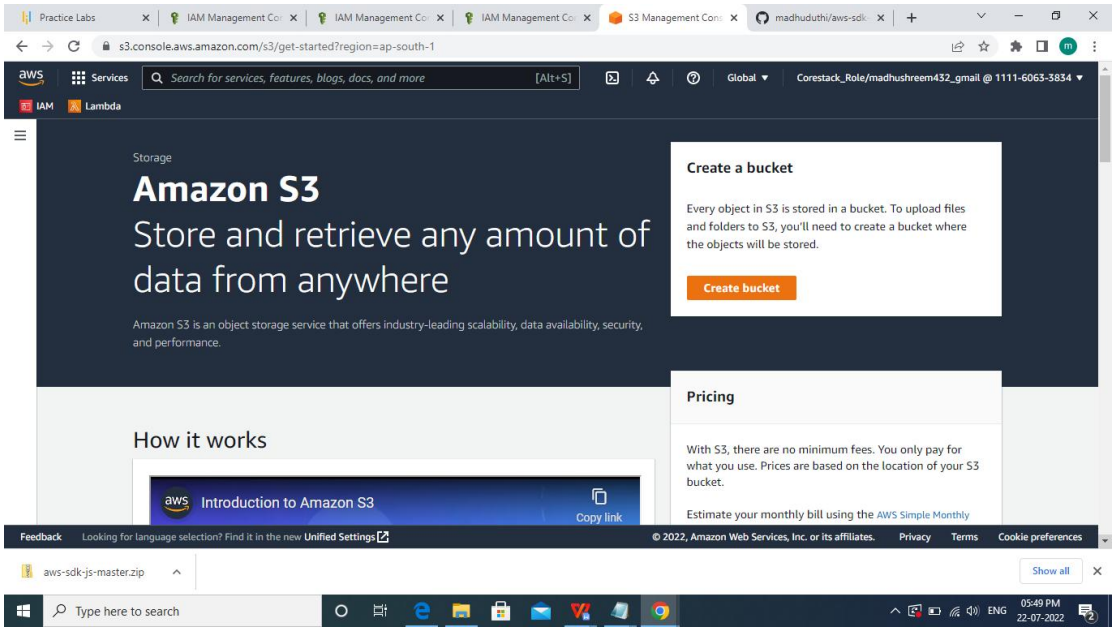


Step 11: The Role would have the policies attached as shown below.



arn:aws:iam::111160633834:role/Cognito_MySurveyIdentityPoolUnauth_Role

Step12: Navigate to S3 Management Console and create a Bucket


Practice Labs
IAM Management Co
IAM Management Co
IAM Management Co
S3 Management Cons
madhuduthi/aws-sdk
s3.console.aws.amazon.com/s3/get-started?region=ap-south-1
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Corestack_Role/madhushreem432_gmail @ 1111-6063-3834
IAM
Lambda
Storage
Amazon S3
Store and retrieve any amount of data from anywhere
Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.
Create a bucket
Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.
Create bucket
Pricing
With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.
Estimate your monthly bill using the AWS Simple Monthly
How it works
Introduction to Amazon S3
Copy link
Feedback
Looking for language selection? Find it in the new Unified Settings
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Privacy
Terms
Cookie preferences
aws-sdk-js-master.zip
Show all
Type here to search
ENG
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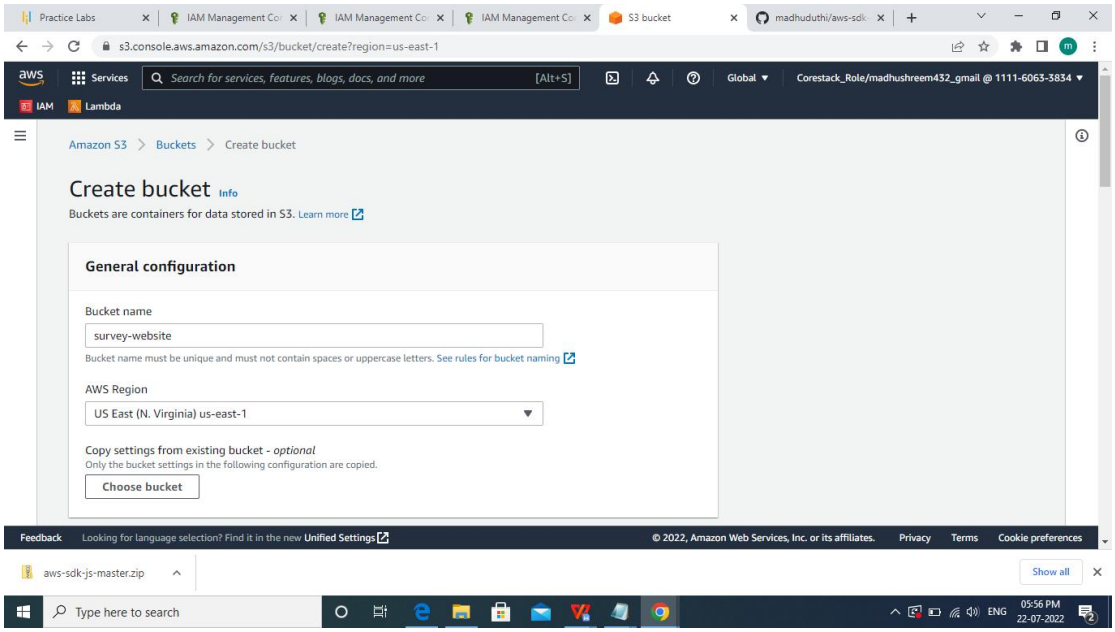
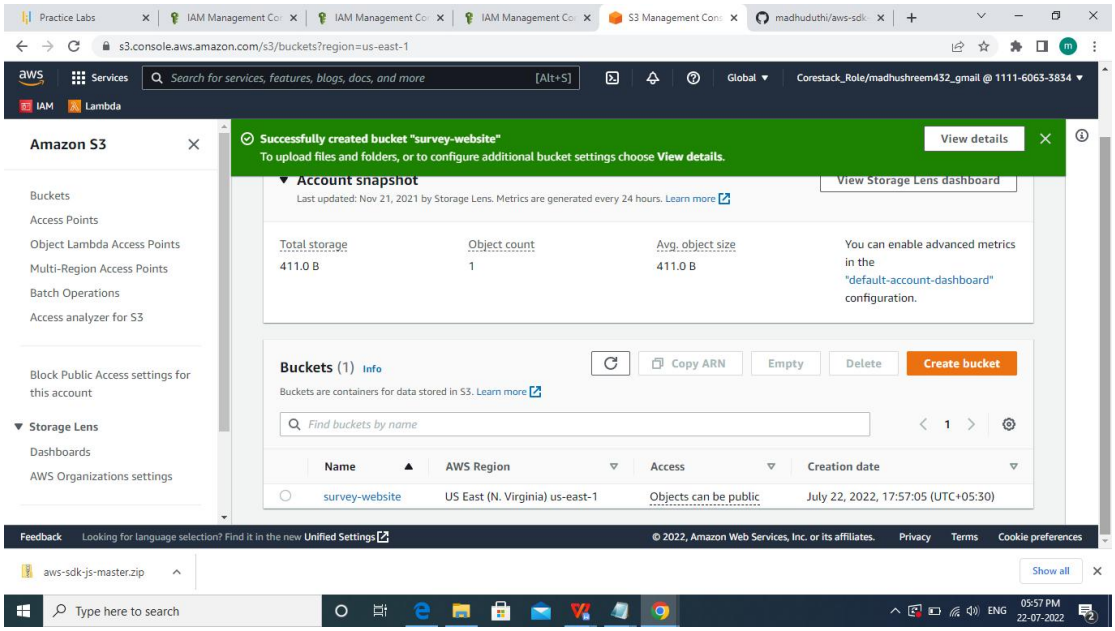
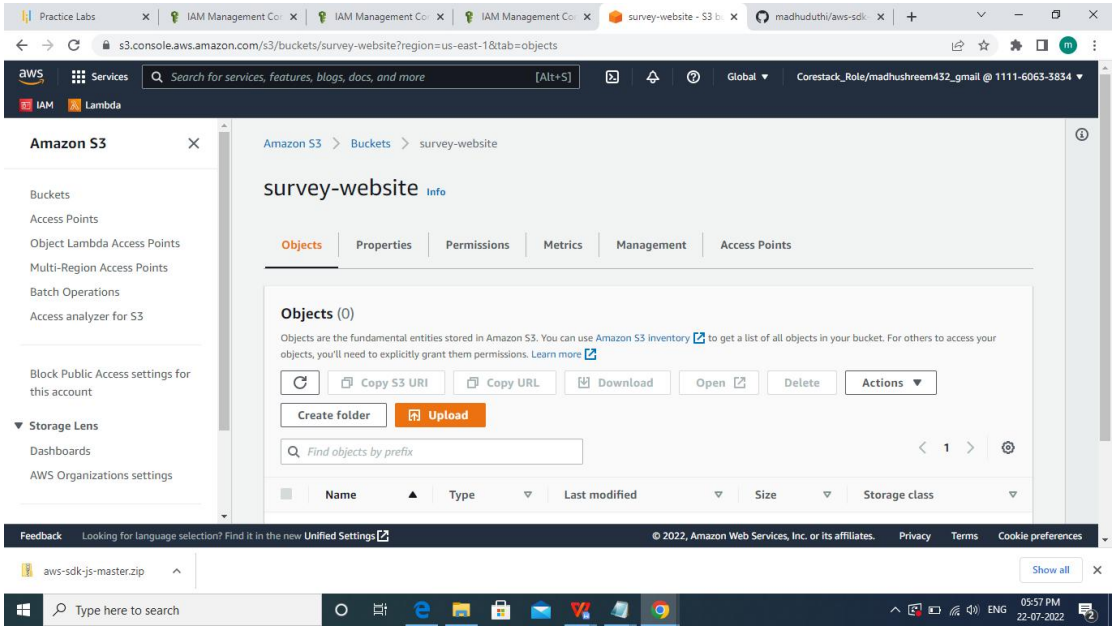
22-07-2022

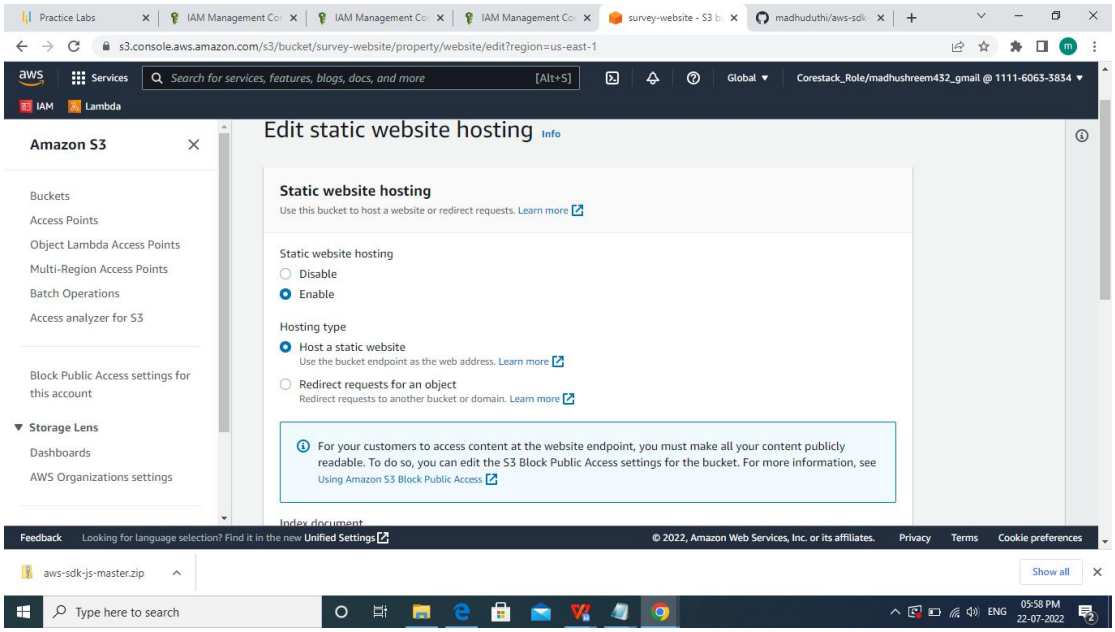

Practice Labs
IAM Management Co
IAM Management Co
IAM Management Co
S3 bucket
madhuduthi/aws-sdk
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Corestack_Role/madhushreem432_gmail @ 1111-6063-3834
IAM
Lambda
Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3. Learn more
General configuration
Bucket name
survey-website
Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming
AWS Region
US East (N. Virginia) us-east-1
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
aws-sdk-js-master.zip
Show all
Type here to search
ENG
05:56 PM
22-07-2022



Step 13: Go to the `Properties` tab.

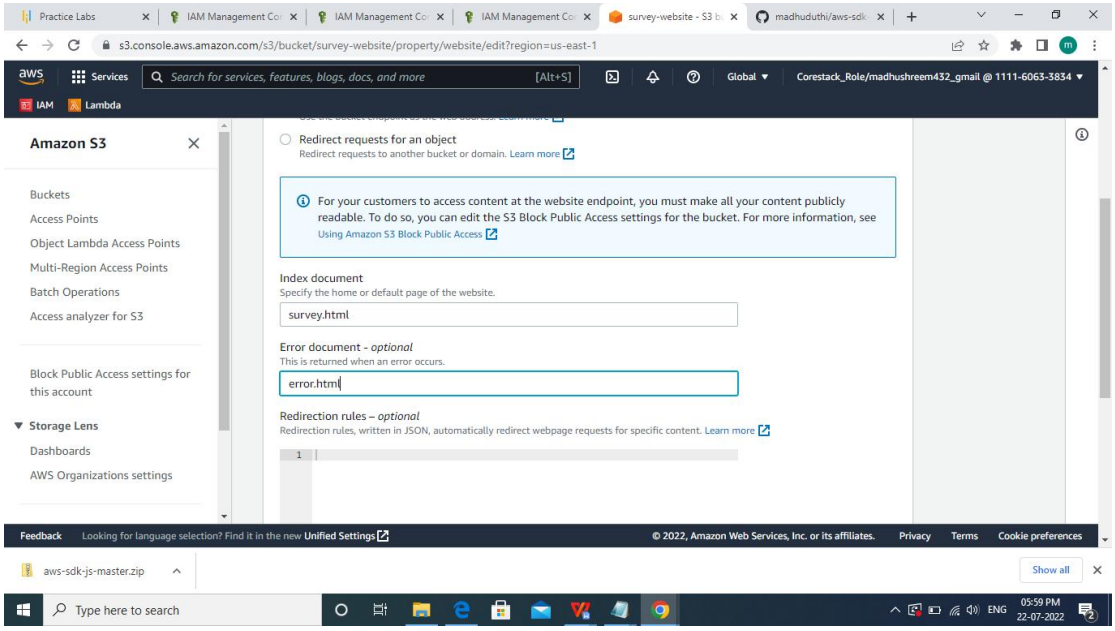


Step 14: Towards the end of the page click on Edit for `Static website hosting`.

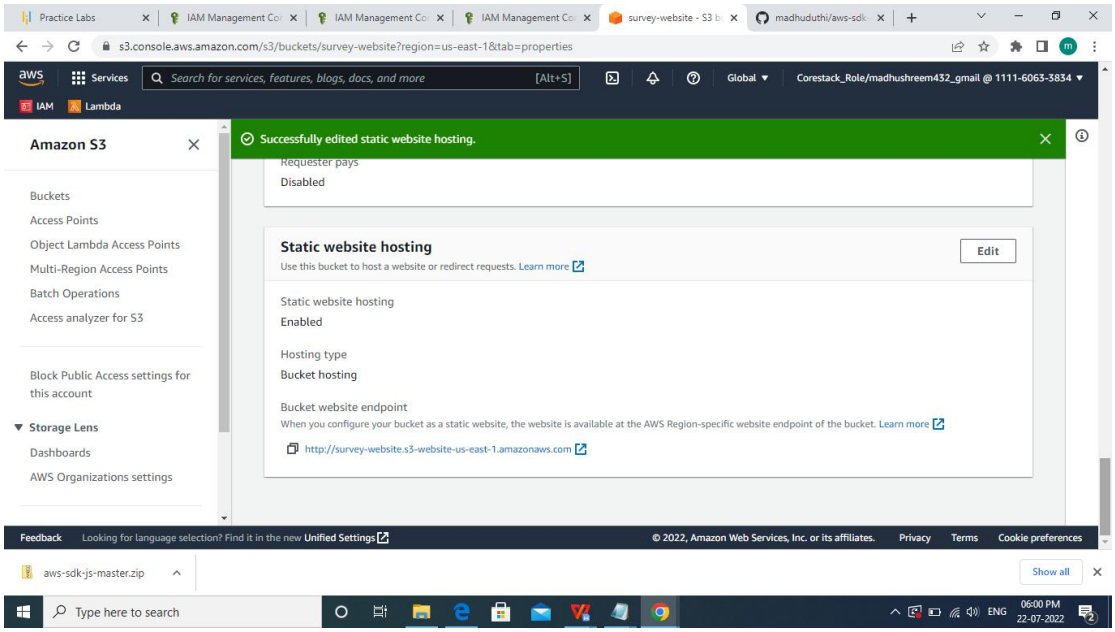


Step 15: Select Enable for `Static website hosting`. For the `Index document` enter `survey.html` and for the Error document` enter `error.html`.

Step 16: Click on `Save changes`.

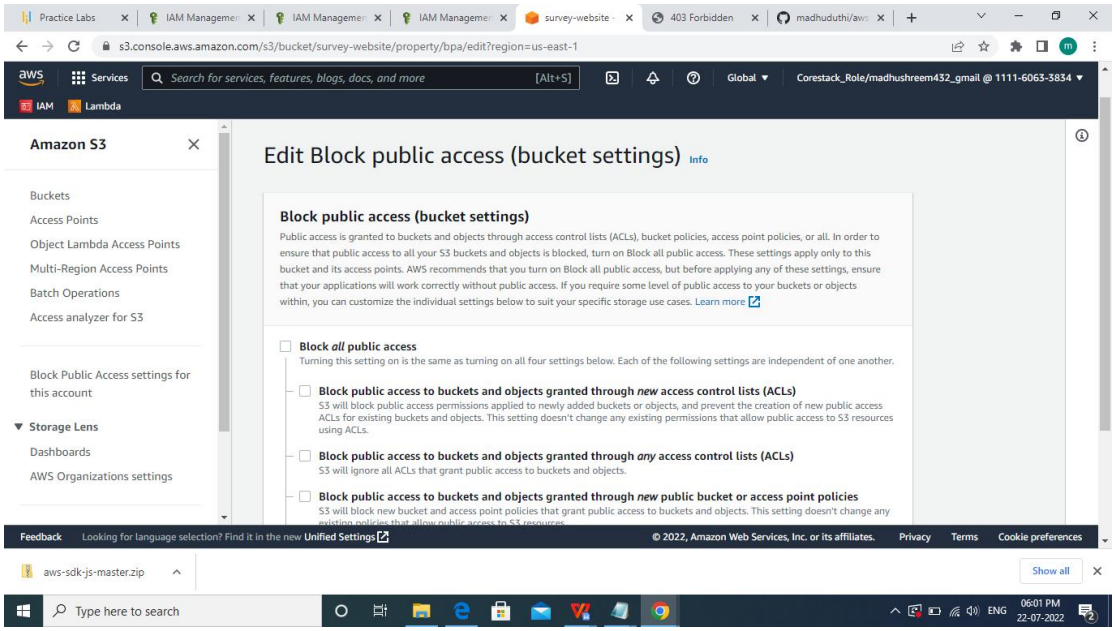


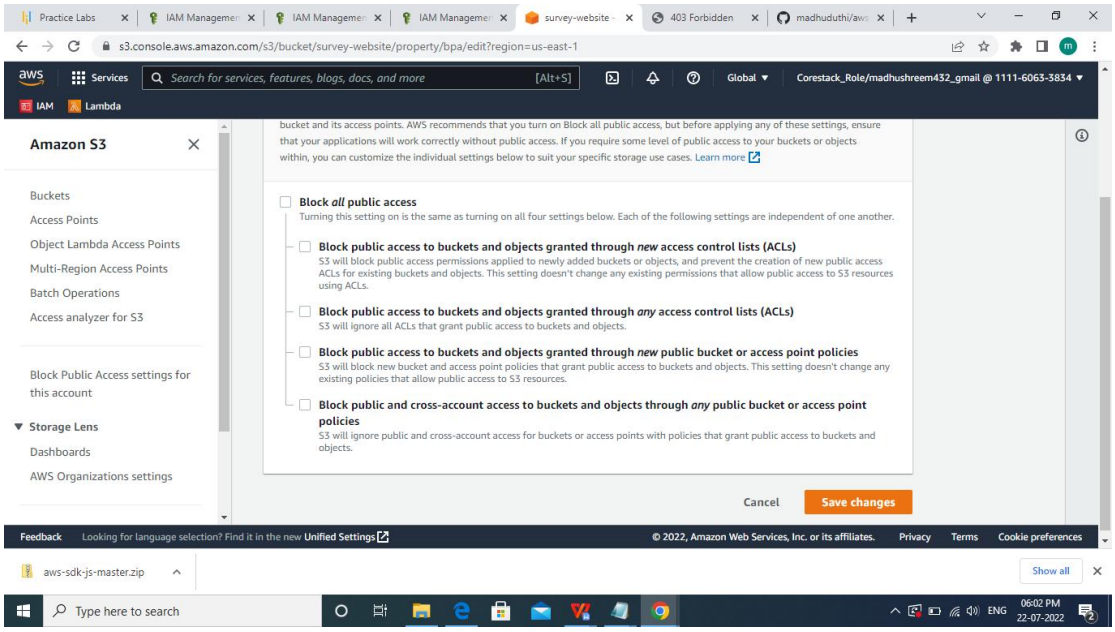
Step 17: Note down the URL at the end. We would be using this to access the web pages in S3 via the browser later.



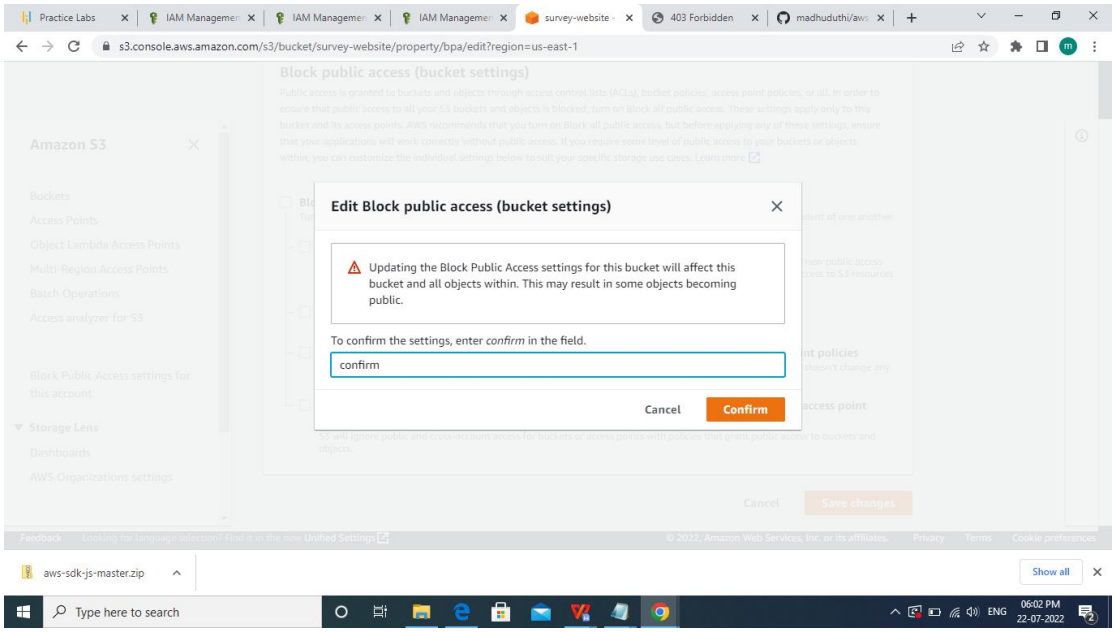
http://survey-website.s3-website-us-east-1.amazonaws.com

Step 18: Go to the `Permissions` tab. Click on Edit for Block public access (bucket settings).
Step 19: Uncheck all the options as shown below and click on `Save changes`.

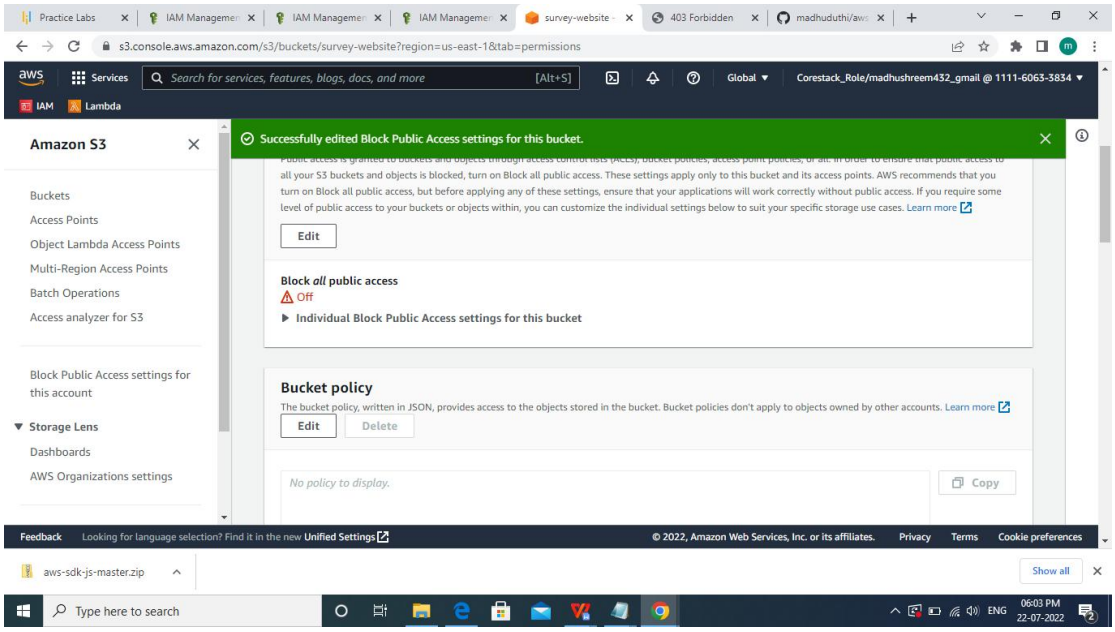




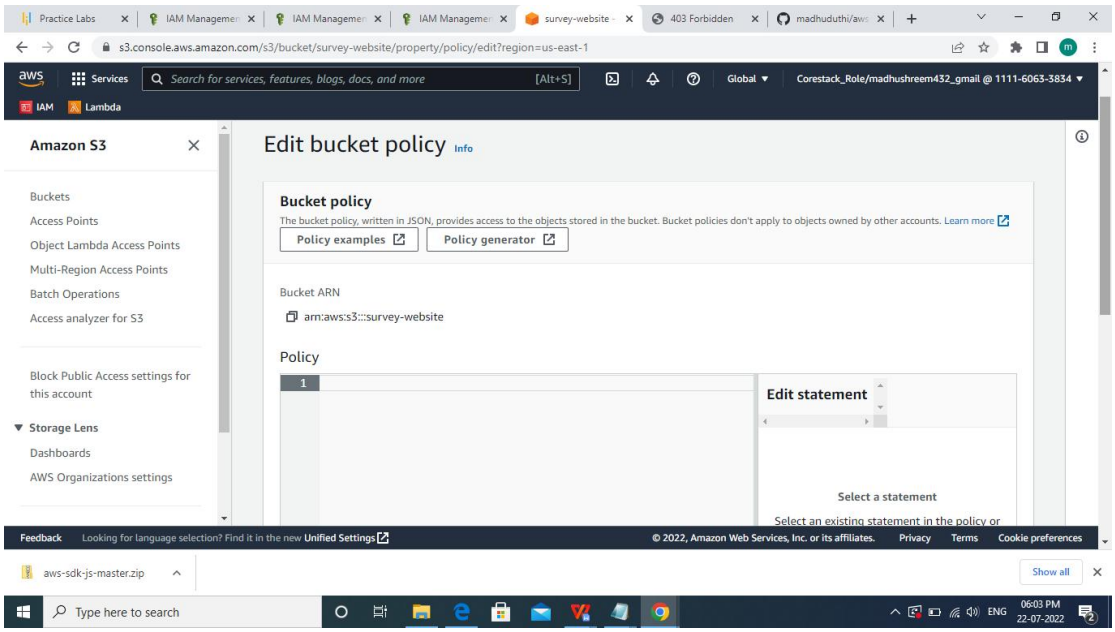
Step 20: Enter `confirm` for the sake of confirmation.

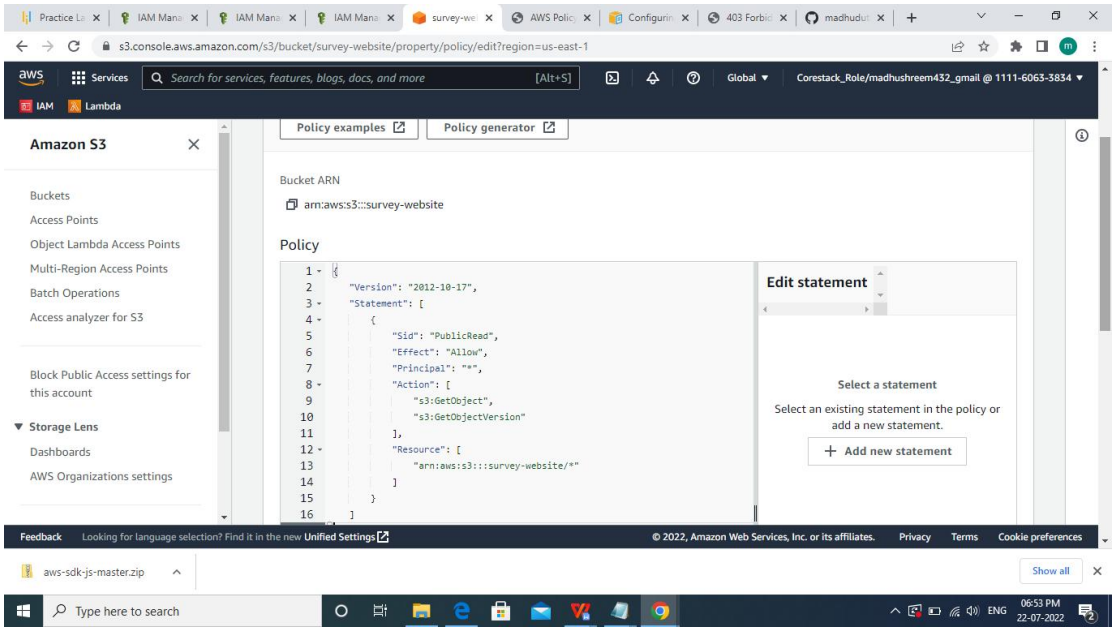


Step 21: In the same page, click on Edit for the `Bucket policy`.



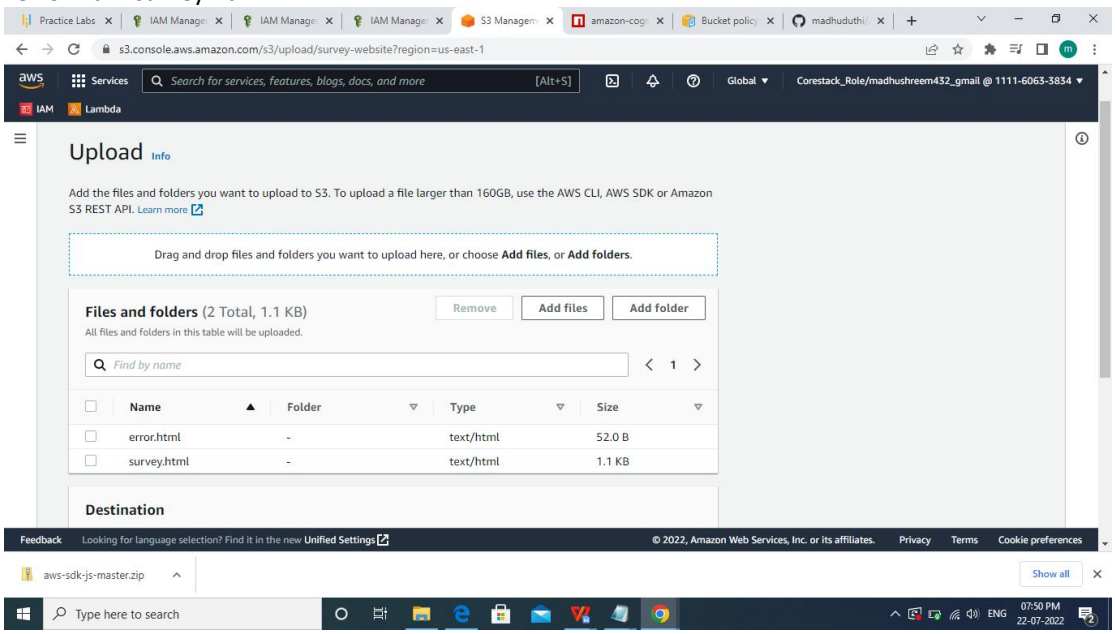
Step 22: Enter the JSON from the attached file into the policy. Make sure to replace the S3 bucket name with the bucket name created in one of the previous step.
bucket-policy.json



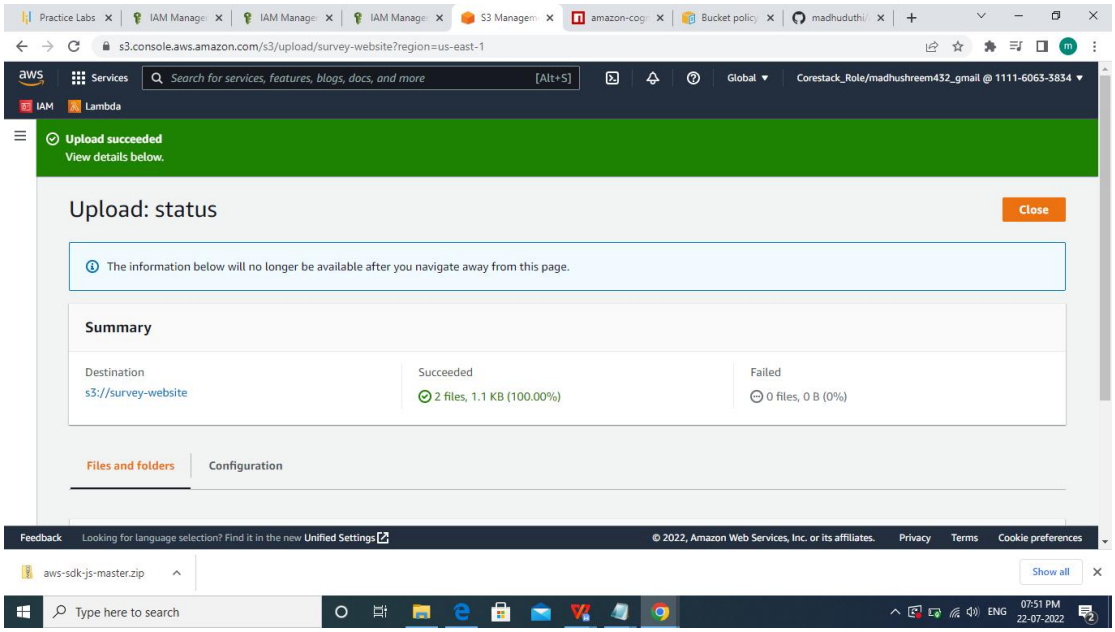


Step 23: Click on the Objects tab. Upload the survey.html and the error.html to the S3 bucket. Make sure the `IdentityPoolId` is modified in the survey.html. Use the one got from the Cognito Console while creating the Identity pool.

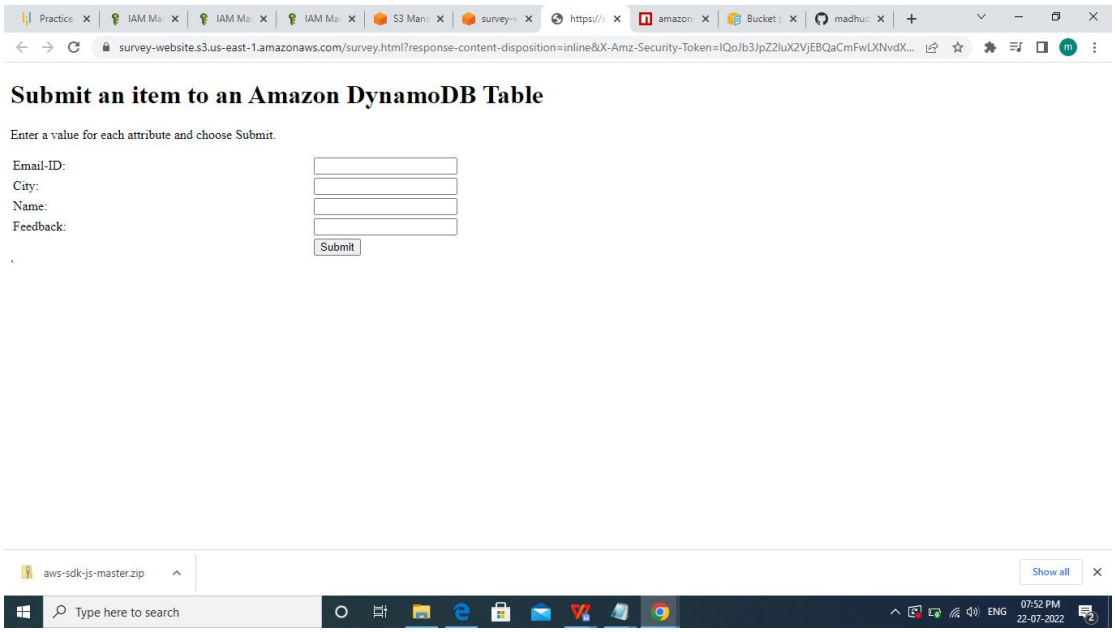
error.html survey.html

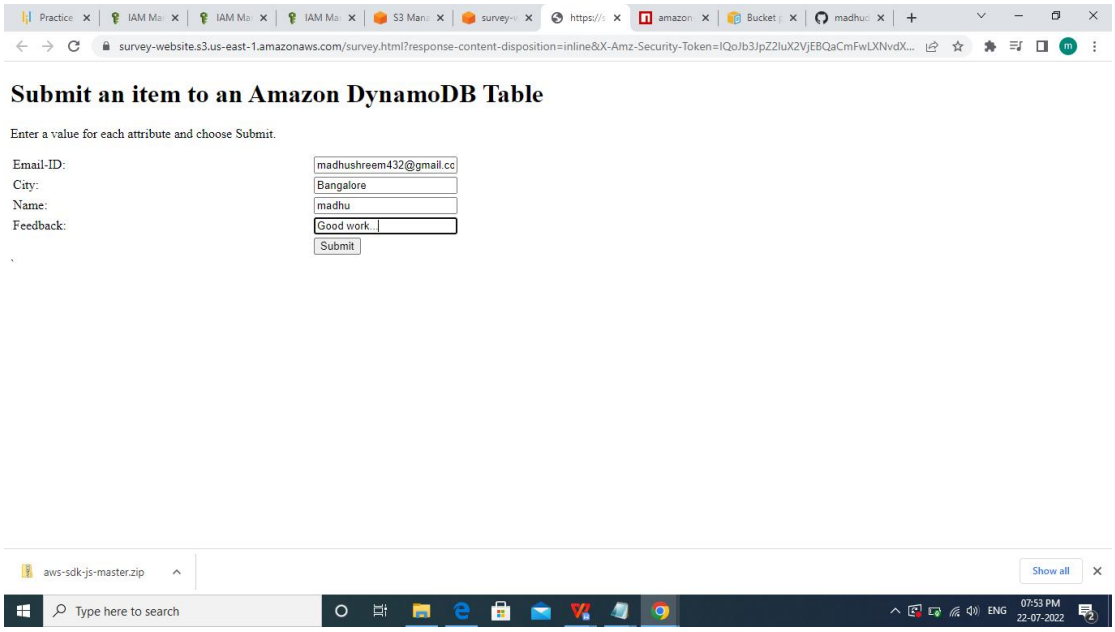


Step 24: Use the browser and navigate to the URL which was got from the S3 Management Console. Enter the email, City and feedback. Click on Submit.

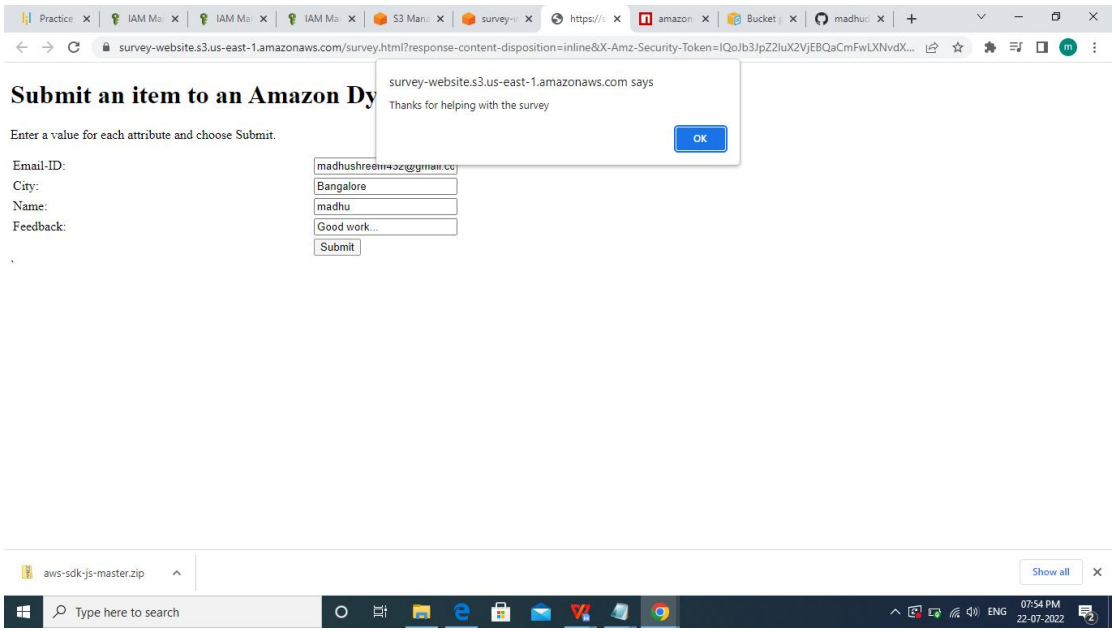


Step 24: Use the browser and navigate to the URL which was got from the S3 Management Console. Enter the email, City and feedback. Click on Submit.

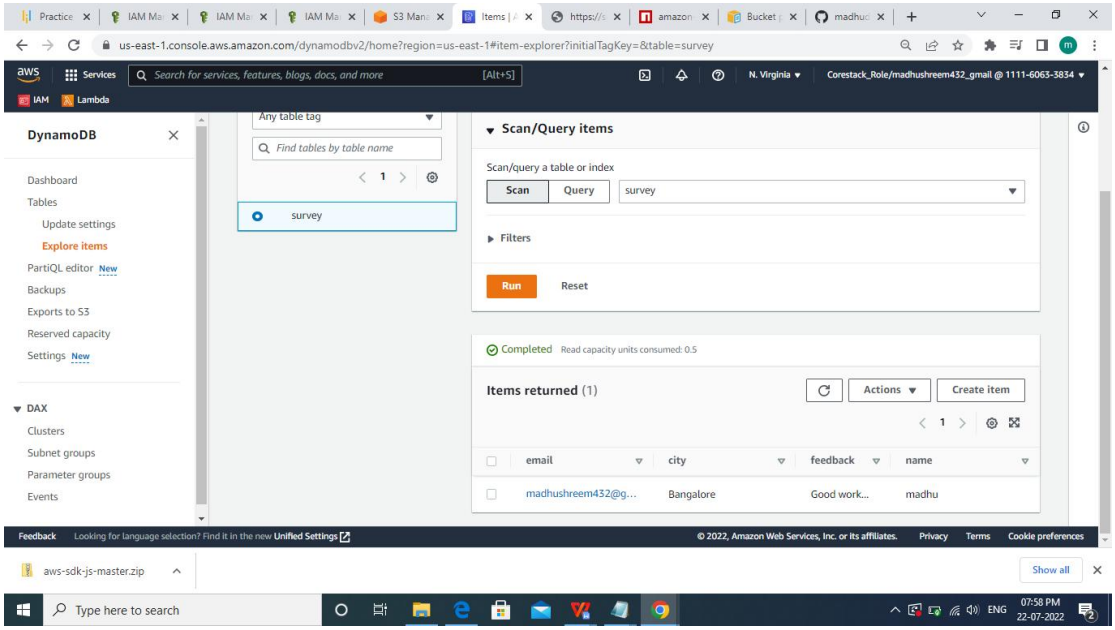




Step 25: If everything works fine, then the message `Thanks for helping with the survey` should be displayed.



Step 26: Navigate to the DynamoDB Management Console and check for the new Item under the Items tab as shown below. If for some reason the Item doesn't appear click on the Refresh button. The survey which we have entered in the feedback form should appear in the DynamoDB for further processing.



Conclusion

We have observed how to use the Serverless technologies to create a feedback form, storing the results in DynamoDB for further analysis.