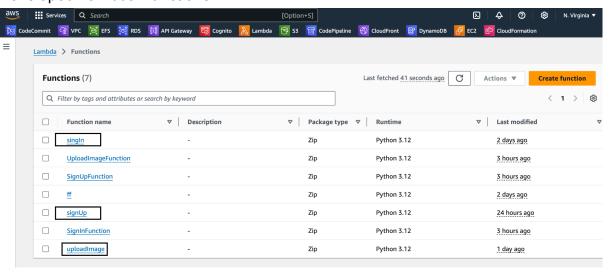
AWS App Development and Deployment

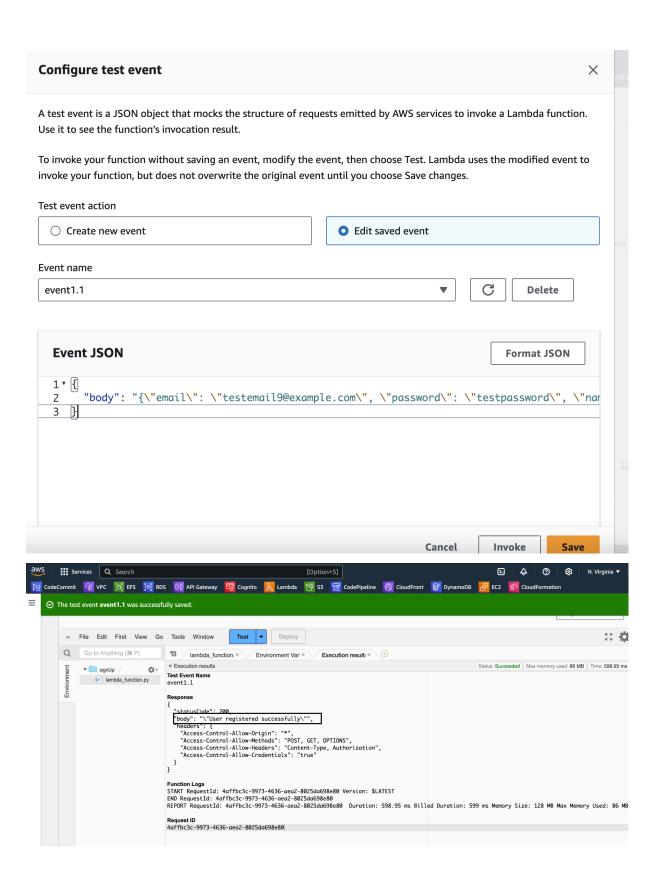
Mayssa Elloumi melloumi@miu.edu

Step 1: Manual Development and Testing:

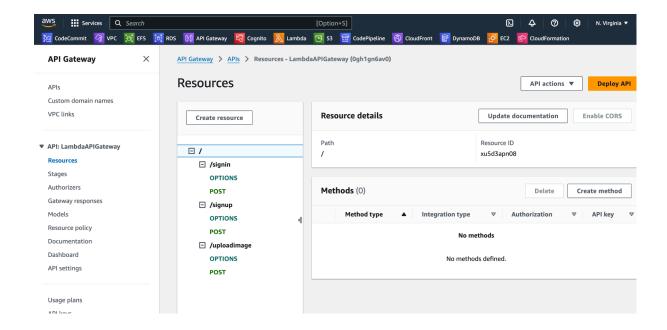
Developed Lambda Functions:



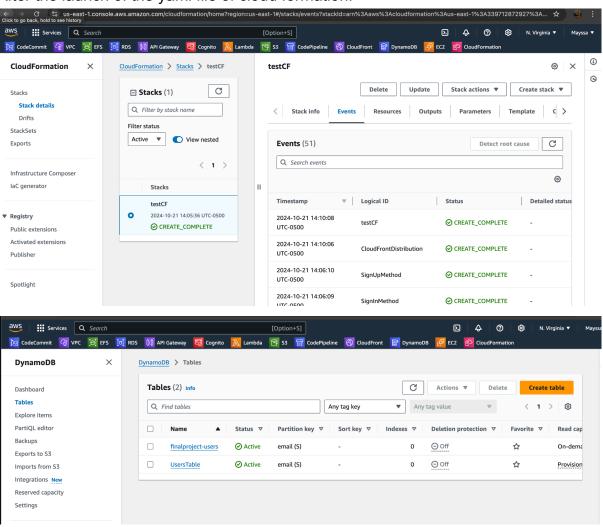
test case : lambda signup:

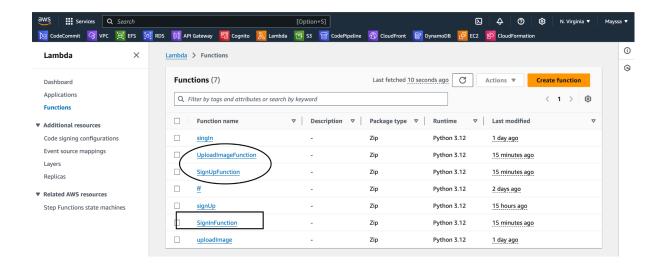


API gateway development:



After the launch of the yaml file of cloud formation:



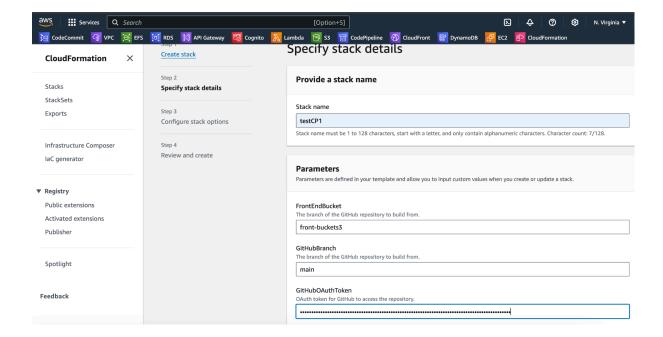


Post YAML file of cloud pipelines:

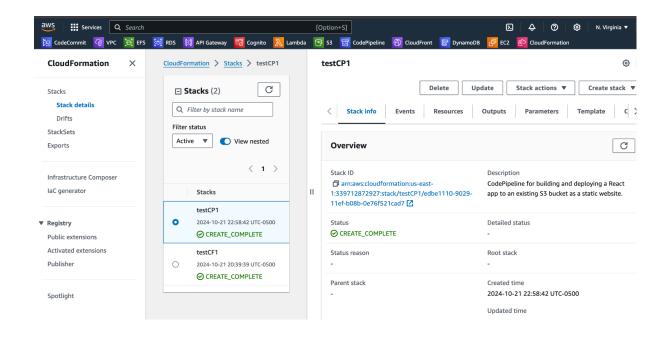
 Upload Auth token for the Github account (In this case, my account has been hardcoded in the configuration. Can be parameterized if necessary):

Auth Token:

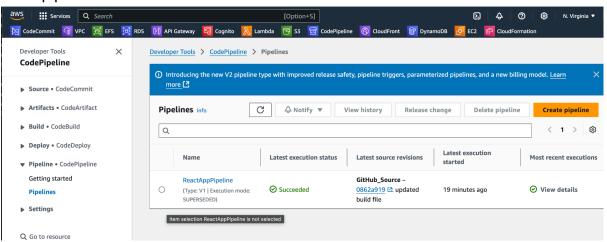
 $github_pat_11BIK437Q0 ivulE8 jnereC_S2nXfLl9Tnl9t1Bi8zYZlwN62urjom52s00bBAewH1xl3KZND4DSy9y89tY$



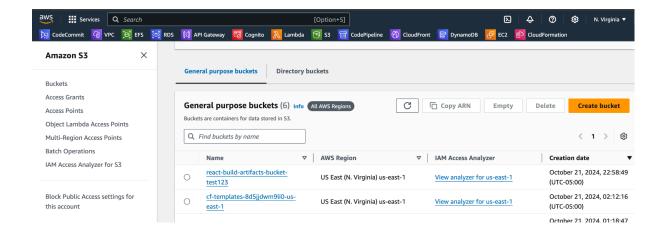
Post Run



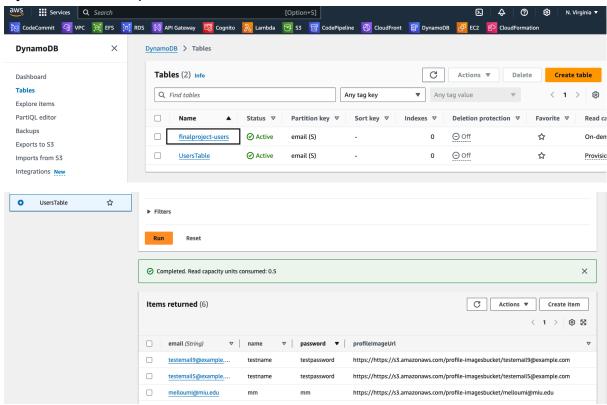
Code pipeline dev:



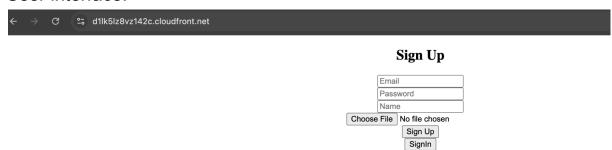
Deployment buckets:



DynamoDB setup:

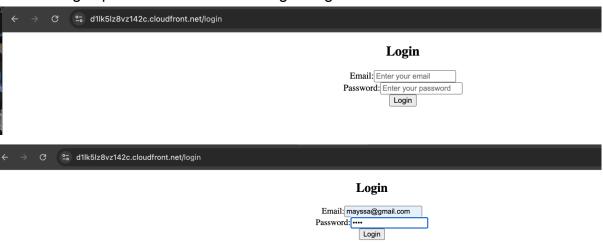


User interface:



+	\rightarrow	G	0-0	d1lk5lz8vz142c.cloudfront.net	
				Sign Up)
				mayssa@gmail.co	om
				mayssa	
				Choose File MainAfter.we	ebp
				Sign Up SignIn	

Click on SignUp to be directed to the Login Page:



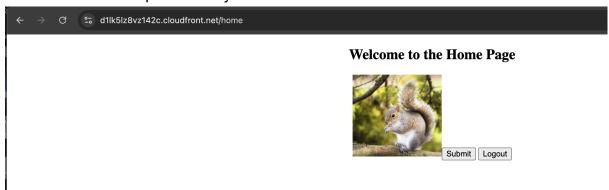
Click on the Login button to move to Home page:

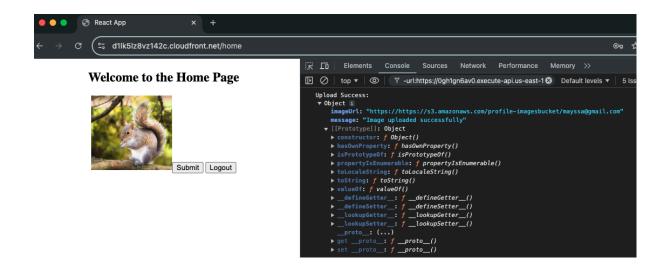


Welcome to the Home Page



Click on Submit to update on DynamoDB:





Click on Logout to move to SignIn Page:

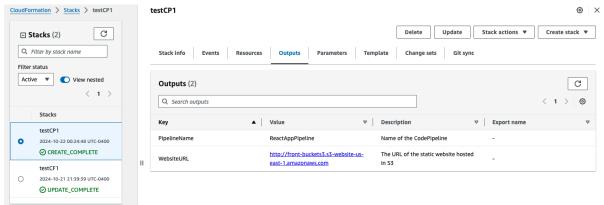


Welcome to the Home Page

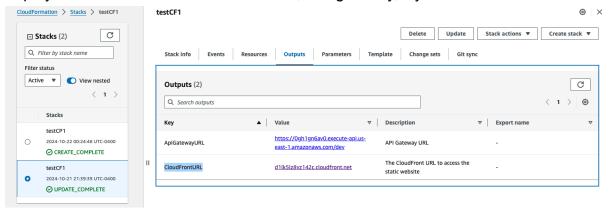


Step 2: Cloud Formation Resource Deployment:

Cloud Pipeline based Frontend React CI/CD:



Deployment of backend lambda functions, API gateway, DynamoDB:

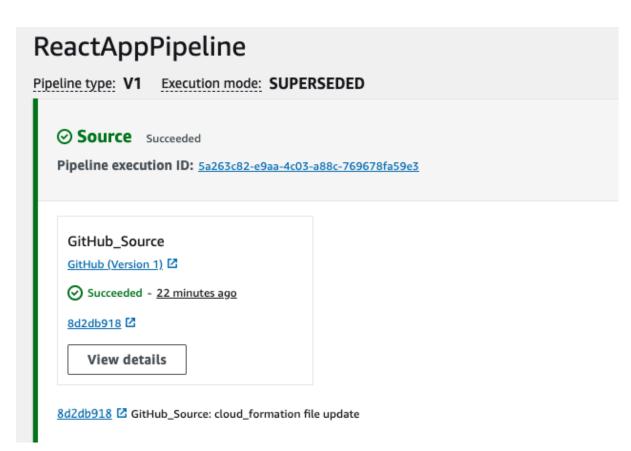


Note: All IAM roles are policies are also included in the YAML template file.

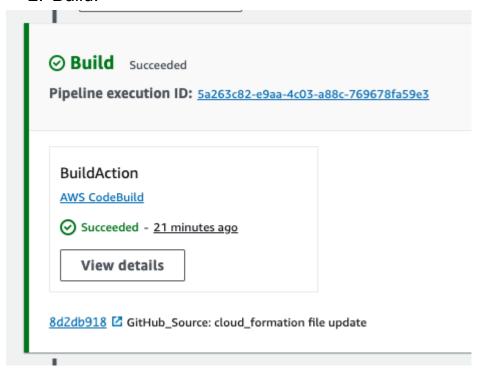
Step 3: CICD Implementation:

Stages:

1. Source:



2. Build:



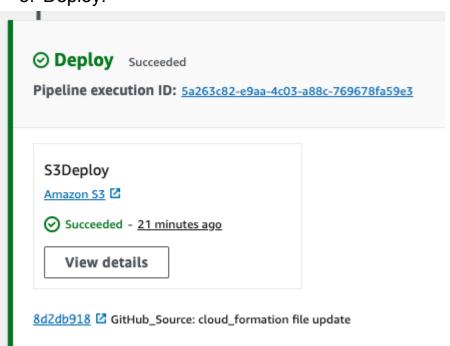
Execution Logs:

Action execution details

Action name: BuildAction Status: Succeeded

```
DO TOU CUIT CONCLOTE UTES WELL THE HOMEPUGE FEETU EN YOUR PUCKUGE, JOHN.
 92 The build folder is ready to be deployed.
 93 You may serve it with a static server:
 94
 95
      npm install -g serve
 96
       serve -s build
 97
 98 Find out more about deployment here:
 99
100
      https://cra.link/deployment
101
102
103 [Container] 2024/10/22 16:11:11.361190 Phase complete: BUILD State: SUCCEEDED
104 [Container] 2024/10/22 16:11:11.361209 Phase context status code: Message:
105 [Container] 2024/10/22 16:11:11.394612 Entering phase POST_BUILD 106 [Container] 2024/10/22 16:11:11.396951 Phase complete: POST_BUILD State: SUCCEEDED
107 [Container] 2024/10/22 16:11:11.396966 Phase context status code: Message:
108 [Container] 2024/10/22 16:11:11.481767 Expanding base directory path: build
109 [Container] 2024/10/22 16:11:11.483796 Assembling file list
110 [Container] 2024/10/22 16:11:11.483810 Expanding build
111 [Container] 2024/10/22 16:11:11.485568 Expanding file paths for base directory build
112 [Container] 2024/10/22 16:11:11.485579 Assembling file list
113 [Container] 2024/10/22 16:11:11.485583 Expanding **/*
114 [Container] 2024/10/22 16:11:11.487453 Found 7 file(s)
115 [Container] 2024/10/22 16:11:11.523718 Set report auto-discover timeout to 5 seconds
116 [Container] 2024/10/22 16:11:11.523780 Expanding base directory path: .
117 [Container] 2024/10/22 16:11:11.525658 Assembling file list 118 [Container] 2024/10/22 16:11:11.525674 Expanding .
119 [Container] 2024/10/22 16:11:11.527407 Expanding file paths for base directory .
120 [Container] 2024/10/22 16:11:11.527418 Assembling file list
121 [Container] 2024/10/22 16:11:11.527422 Expanding **/*
122 [Container] 2024/10/22 16:11:11.691645 Found 11 file(s)
123 [Container] 2024/10/22 16:11:11.691695 Report auto-discover file discovery took 0.167977 seconds
124 [Container] 2024/10/22 16:11:11.692366 Phase complete: UPLOAD_ARTIFACTS State: SUCCEEDED 125 [Container] 2024/10/22 16:11:11.692380 Phase context status code: Message:
126
```

3. Deploy:



Deployed frontend:

