Build a Basic Web Application

Steps:

1. [Create Web App](https://aws.amazon.com/getting-started/hands-on/build-web-app-s3-lambda-api-gateway-dynamodb/module-one/?e=gs2020&p=build-a-web-app-intro) :Deploy static resources for your web application using the AWS Amplify Console.

->use deploy without git provider(create html file and zip the file)

->check by clicking url after creating app

1. [Build Serverless Function](https://aws.amazon.com/getting-started/hands-on/build-web-app-s3-lambda-api-gateway-dynamodb/module-two/?e=gs2020&p=build-a-web-app-intro) : Build a serverless function using AWS Lambda.

->create a lambda function

->deploy the changes and click on test and select Configure test event and replace JSON object will below.

1. [Link Serverless Function to Web App](https://aws.amazon.com/getting-started/hands-on/build-web-app-s3-lambda-api-gateway-dynamodb/module-three/?e=gs2020&p=build-a-web-app-intro) : Deploy your serverless function with API Gateway.

-> Create a new API using API Gateway

->Define HTTP methods on your API

->Trigger a Lambda function from an API

Ex : <https://e4vai4pyt3.execute-api.us-east-1.amazonaws.com/dev> copy the

url which will be used further

->Enable cross-origin resource sharing (CORS) on an API so you can consume resources from a different origin (domain)

->Test an API created with API Gateway from the AWS Management Console

1. [Create Data Table](https://aws.amazon.com/getting-started/hands-on/build-web-app-s3-lambda-api-gateway-dynamodb/module-four/?e=gs2020&p=build-a-web-app-intro) : Persist data in an Amazon DynamoDB table.

->Create a DynamoDB table using the AWS Management Console

Partition key =ID

Copy the arn url

Ex: arn:aws:dynamodb:us-east-1:588777031681:table/HelloWorldDatabase

->Create a role and manage permissions with IAM

Lambda function->Configure->rolename below link to add permissions.

JSON:

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "VisualEditor0",

"Effect": "Allow",

"Action": [

"dynamodb:PutItem",

"dynamodb:DeleteItem",

"dynamodb:GetItem",

"dynamodb:Scan",

"dynamodb:Query",

"dynamodb:UpdateItem"

],

"Resource": "YOUR-TABLE-ARN" //arn given in above example

}

]

}

->Write to a DynamoDB table using the AWS SDK (Python, JavaScript, or Java)

1. [Add Interactivity to Web App](https://aws.amazon.com/getting-started/hands-on/build-web-app-s3-lambda-api-gateway-dynamodb/module-five/?e=gs2020&p=build-a-web-app-intro) : Modify your web app to invoke your API.

->Call an API Gateway API from an HTML page

-> Update the html in amplify

->Upload a new version of a web app to the Amplify console

**Work Flow:**

