Xerris Bootcamp Series

Microservices and DynamoDB

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DotNet DynamoDB SDK

Amazon AWS DotNet SDK
- Provides a client library for DynamoDB (NuGet)
  Install-Package AWSSDK.DynamoDBv2

AmazonDynamoDBClient Class
- Provides connectivity to Dynamo
- Used in conjunction with the DynamoDBContext

DynamoDBContext
- Used for create/read/update/delete (CRUD) operations

DynamoDB Data Model Attributes
- Attributes decorate the “Domain Object” for persistence.

DynamoDB Sequence

Here is the sequence for any DynamoDB interaction

- Create a AmazonDynamoDBClient
- Using AmazonDynamoDBConfig to establish the RegionEndpoint and any other config values
- Create the DynamoDBContext
- Invoke the method on the Context
- Context.SaveAsync(*itemToSave*)

DynamoDB Workshop Steps

Create a DotNet Lambda solution that allows you to add Songs to your Song DynamoDB table

1. Create **Song** Domain Object
2. Create the Service call for AddSong
3. Create the Music Repository to Add a Song
4. Create Lambda Endpoint for AddSong
5. Create the WebAPI Endpoint for AddSong
6. Using Postman/Insomnia to test your WebAPI endpoint
    1. Set the AWS environment variables
    2. Dotnet run in the WebApi project folder