Working With Dynamo

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

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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***)

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Workshop Steps

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

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