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import boto3

import datetime


dynamodb = boto3.resource('dynamodb')

table = dynamodb.Table('my_url_shortner') # Replace with your DynamoDB table name


def lambda_handler(event, context):
    print(event)

    shortkey = event['pathParameters']['shortURL'] # Extract short key from the request


    # Look up short key in DynamoDB
    response = table.get_item(Key={'shortkey': shortkey})

    if 'Item' in response:
        current_timestamp = int((datetime.datetime.now()).timestamp())
        print(current_timestamp)

        ExpirationDate= response['Item']['ExpirationDate']
        print(ExpirationDate)

        if ExpirationDate<current_timestamp:

            return {
                'statusCode': 404,
                'body': 'Short URL is expired'
            }

        long_url = response['Item']['longURL']
        print(long_url)

        # Redirect to the long URL
        return {
            'statusCode': 301, # 301 Moved Permanently
            'headers': {
                'Location': long_url
            }
        }
    else:
        return {
            'statusCode': 404,
            'body': 'Short URL not found'
        }

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}
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}
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else:

# Handle the case where short key is not found (e.g., return a 404 Not Found response)

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return {
```

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    'statusCode': 404,
```

```
    'body': 'Short URL not found'
```

```
}
```