Assignment 1: Part B - Report

1) Flow chart of Operation:

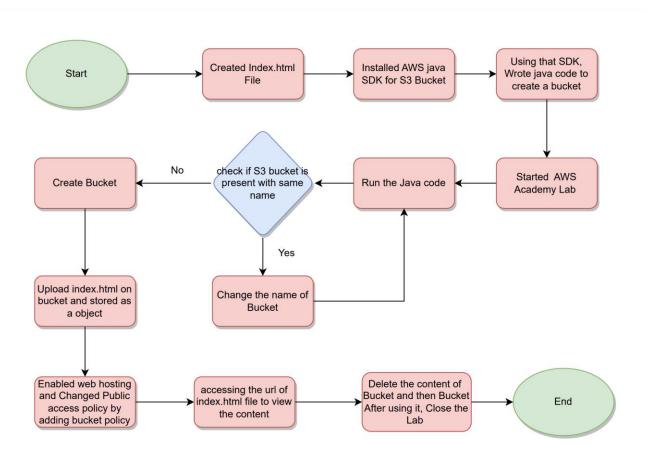


Fig 1: Flow chart of the operations

2) My Overall observation of the Java SDK:

I was particularly impressed by how simple it was to perform various operations on S3 buckets. Whether it was creating new buckets, uploading, or downloading files, or even setting policies and enabling website hosting, the SDK had everything I needed. Its user-friendly API made it super easy to incorporate these operations into my Java programs. The documentation provided by AWS was smooth to follow. It was well-written and organized, allowing me to quickly understand the different methods and classes available in the SDK. The code examples provided were especially helpful in illustrating how to use the SDK effectively. I felt supported every step of the way.

3) Screenshots of the S3 buckets and Operations:

> Index html file for My Profile

Fig 2: Index.html created.

Dependencies for AWS S3

Fig 3: Dependencies added for AWS S3

AWS Academy Lab started.

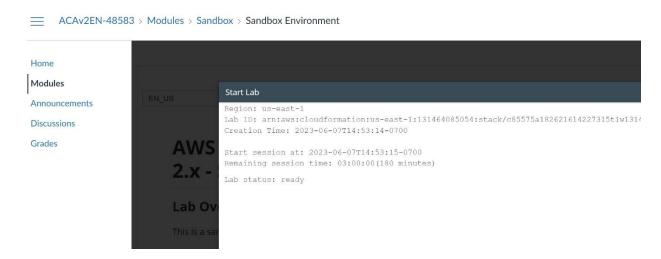


Fig 4: Lab started on AWS Academy

Getting Access Key and Secret Key.

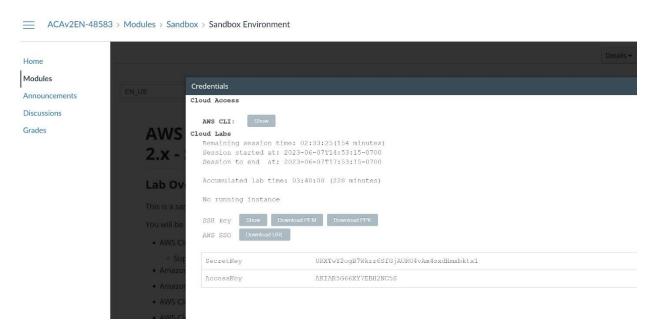


Fig 5: Access Key and Secret Key for SDK

> JAVA code for AWS S3 bucket and object

Fig 6: Code for Bucket Creation and Uploading an object.

Program ran and bucket created on aws, also index.html uploaded.

```
| Project | Page | Page
```

Fig 7: Program started (Bucket Created and index.html uploaded)

AWS Management Console View with bucket created and index.html uploading.

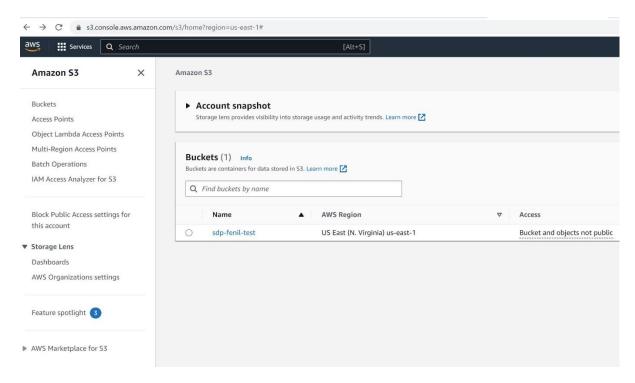


Fig 8: Bucket Created (AWS Management Console)

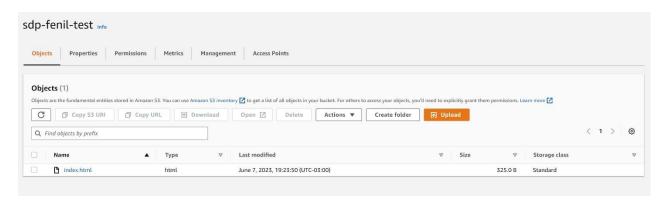


Fig 9: Index.html Object created (AWS Management Console)

> Enabling Static Web Hosting

dit static website hosting Info	
	ebsite hosting ket to host a website or redirect requests. Learn more 🔀
Static web	site hosting
Disable	
Enable	
Hosting ty	ре
	static website bucket endpoint as the web address. Learn more 🔀
	ct requests for an object requests to another bucket or domain. Learn more 🗹
rea	your customers to access content at the website endpoint, you must make all your content publicly dable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, se ng Amazon S3 Block Public Access
Index docu	nment nome or default page of the website.
index.htr	nl
Error docu	ment - optional ned when an error occurs.
This is return	

Fig 10: Enabeling Static Website hosting on aws console

> Creatting Bucket Policy for public access of the object

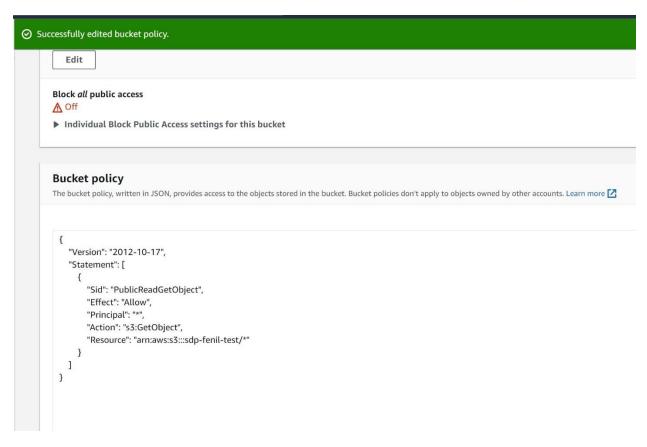


Fig 11: Creating Bucket Policy

Accessing the properties of Index.html file for the Object URL

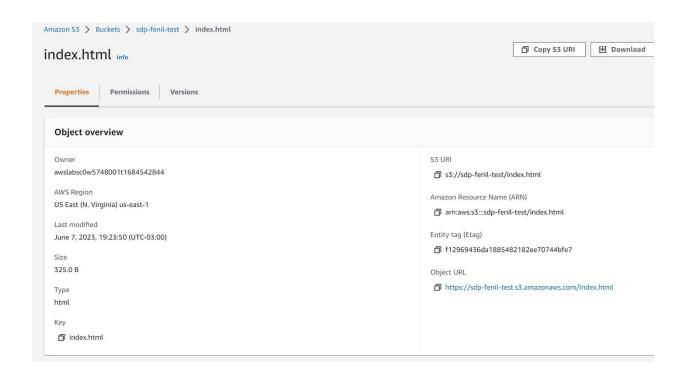
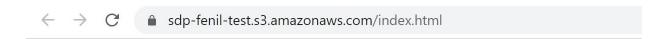


Fig 12: Index.html properties for Object URL

Visiting the hosting URL of the index.html



Profile Information

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Declaration: This assignment is my own work; I did not take help from anyone.

Fig 13: index.html hosted on aws

> After Using the Bucket, emptying the Bucket if no use

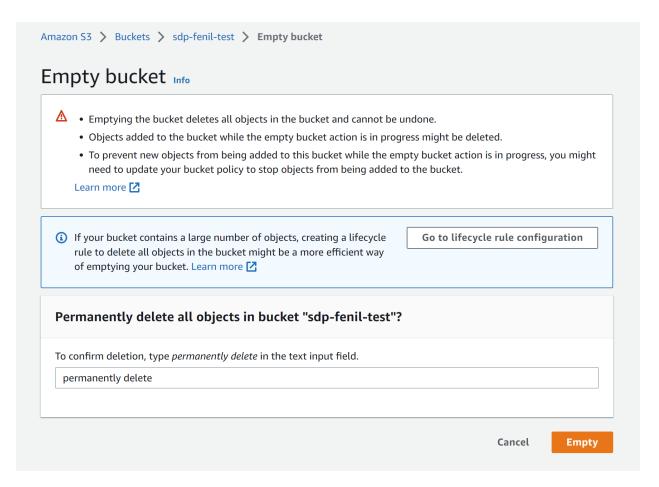


Fig 14: Empting the Bucket

Deleting the Bucket Finally

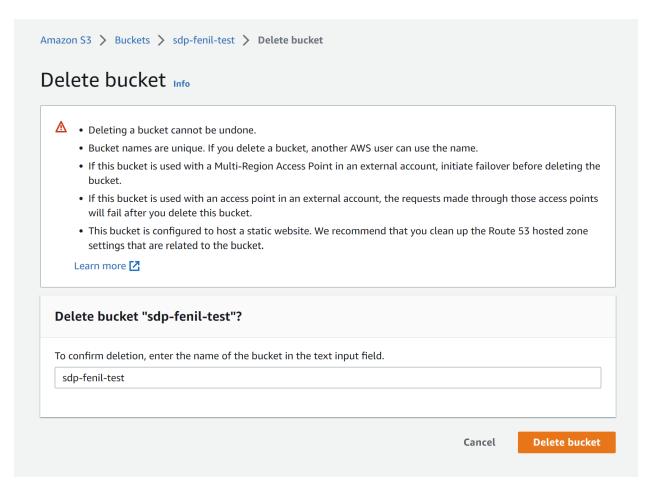


Fig 15: Deleting the Bucket

Once Deletion done, then closing the lab completely



Fig 16: Closing the Lab

4) Java Code for AWS S3:

```
import com.amazonaws.auth.AWSStaticCredentialsProvider;
import java.io.File;
       AmazonS3 s3cli = AmazonS3ClientBuilder
           System.out.println(bucket.getName() + "Bucket created");
```

Fig 17: Code for AWS S3

References:

- [1] "Draw.io free flowchart maker and diagrams online," Flowchart Maker & Online Diagram Software, https://app.diagrams.net/ (accessed Jun. 7, 2023).
- [2] Get started with the AWS SDK for Java 2.X, https://docs.aws.amazon.com/sdk-for-java/latest/developer-guide/get-started.html (accessed Jun. 7, 2023).
- [3] Setting permissions for website access amazon simple storage service, https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteAccessPermissionsReqd. https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteAccessPermissionsReqd. https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteAccessPermissionsReqd. https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteAccessPermissionsReqd.