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Assignment 4

Aim: - Deploy Web application using S3 Bucket (PHP/Python/Node.js any application)

Description :-

Amazon S3 (Simple Storage Service) is an object storage service provided by Amazon Web Services (AWS) that enables you to store, secure, and manage your data and static files in the cloud.

S3 is highly scalable, durable, and flexible, making it a popular choice for businesses of all sizes. With S3, you can store unlimited amounts of data and access it from anywhere in the world, through the internet. Some of the common use cases for S3 include:

Backup and disaster recovery

Data archiving

Big data analytics

Static web hosting

Media hosting and streaming

S3 is also highly secure, with options for encryption and access control, allowing you to ensure that your data is protected. Additionally, S3 is designed to offer high availability, so you can be sure that your data will be accessible when you need it.

Here are some of the key features and functionalities of Amazon S3 in detail:

1. Object-based storage: S3 stores data as objects, rather than as traditional block-level or file-level storage. Each object consists of a data file and its metadata, such as the file name, type, and access permissions. S3 supports multiple types of data, including text, binary data, images, audio and video files, and more.

2. Scalability: S3 is highly scalable, allowing you to store unlimited amounts of data. You can easily increase or decrease your storage capacity as needed, without any manual intervention.

3. Durability: S3 is designed to provide high durability by storing multiple copies of your data across multiple geographic locations. By default, S3 stores your data across multiple facilities within an AWS region, and you can choose to store your data in multiple regions as well.

4. Accessibility: S3 provides several options for accessing your data, including the AWS Management Console, the AWS CLI, and the S3 API. You can access your data from anywhere in the world, through the internet.

5. Security: S3 provides a number of security features to help you protect your data. You can encrypt your data at rest, in transit, and while it is being processed, using encryption methods such as AES-256. You can also control access to your data using S3's fine-grained access control system, which allows you to set access policies for specific users or groups.

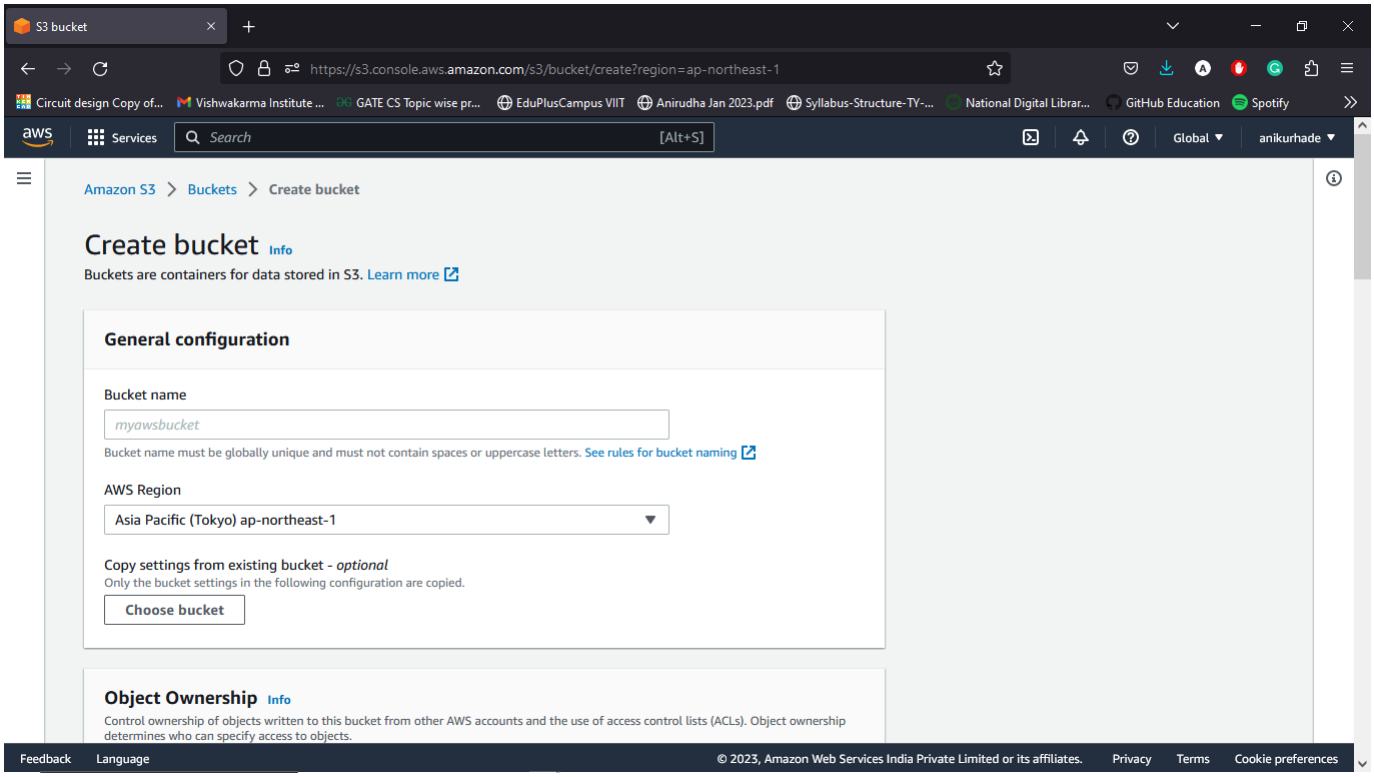
6. Cost: S3 pricing is based on the amount of data you store, the number of requests you make to access your data, and the amount of data you transfer out of S3. S3 also offers several cost optimization features, such as Amazon S3 Transfer Acceleration and Amazon S3 Intelligent-Tiering, which can help you reduce your storage costs.

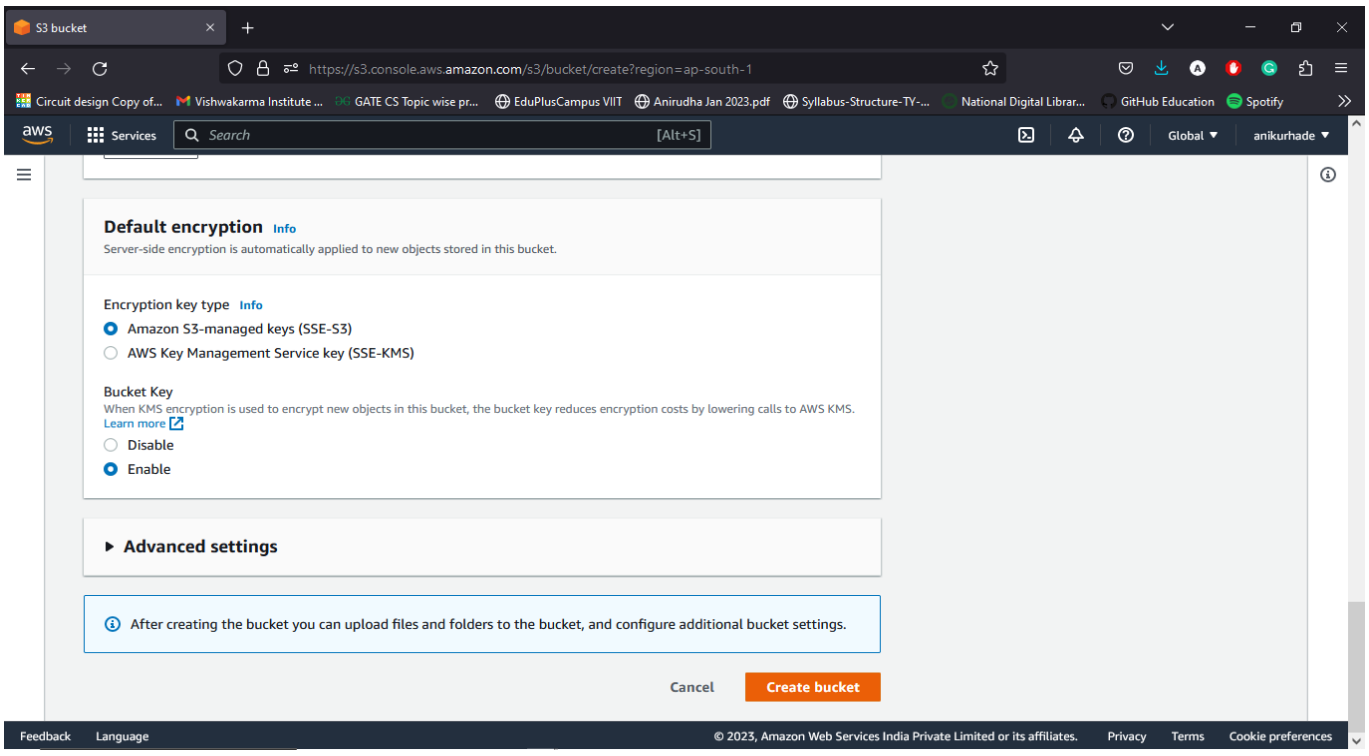
7. Integration with other AWS services: S3 integrates with a number of other AWS services, such as Amazon EC2, Amazon EBS, Amazon Redshift, and Amazon S3 Transfer Acceleration, allowing you to easily store and manage your data in the cloud.

These are some of the key features and functionalities of Amazon S3 in detail. S3 is a highly reliable and secure cloud storage service, which makes it a popular choice for businesses and individuals looking to store their data and static files in the cloud.

Steps Output :-

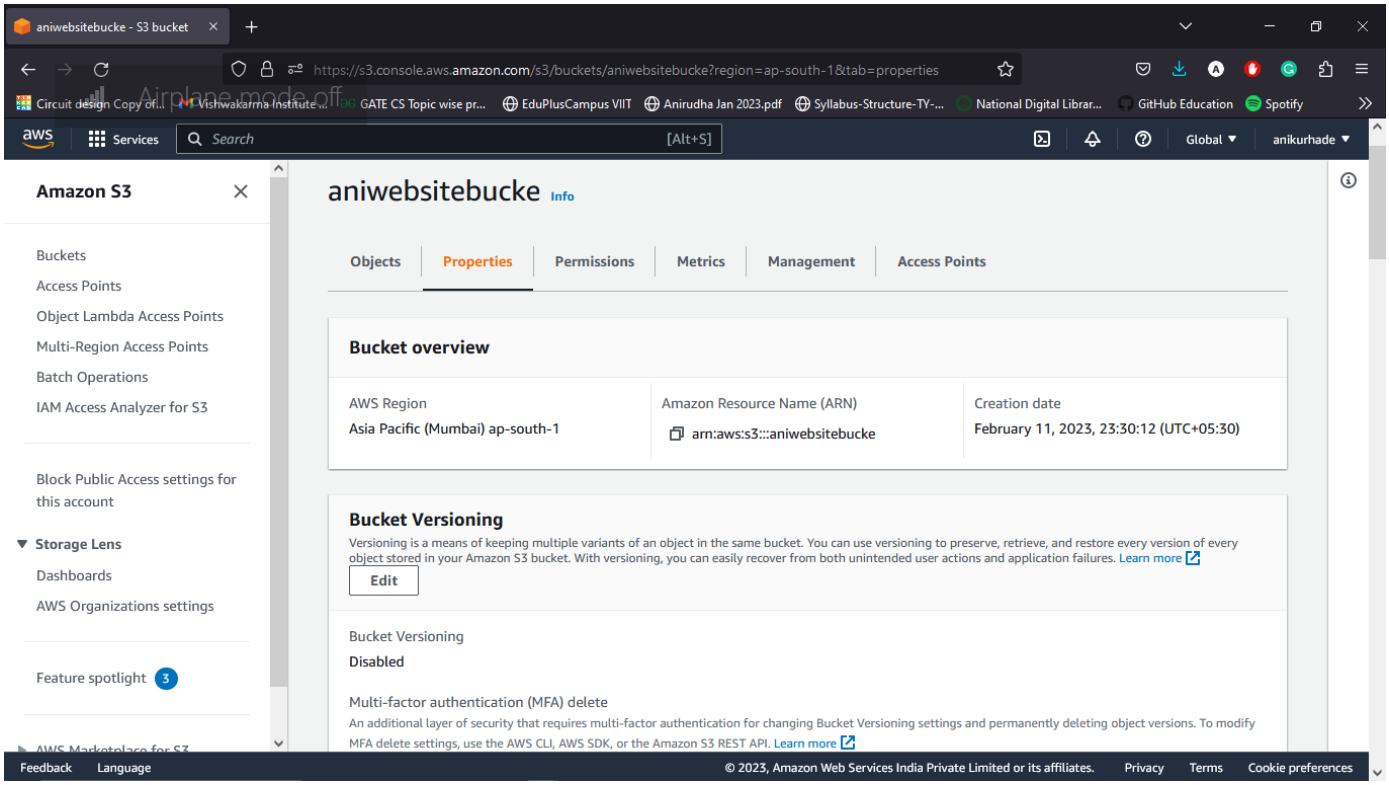
→ Open AWS console and search & create S3 bucket





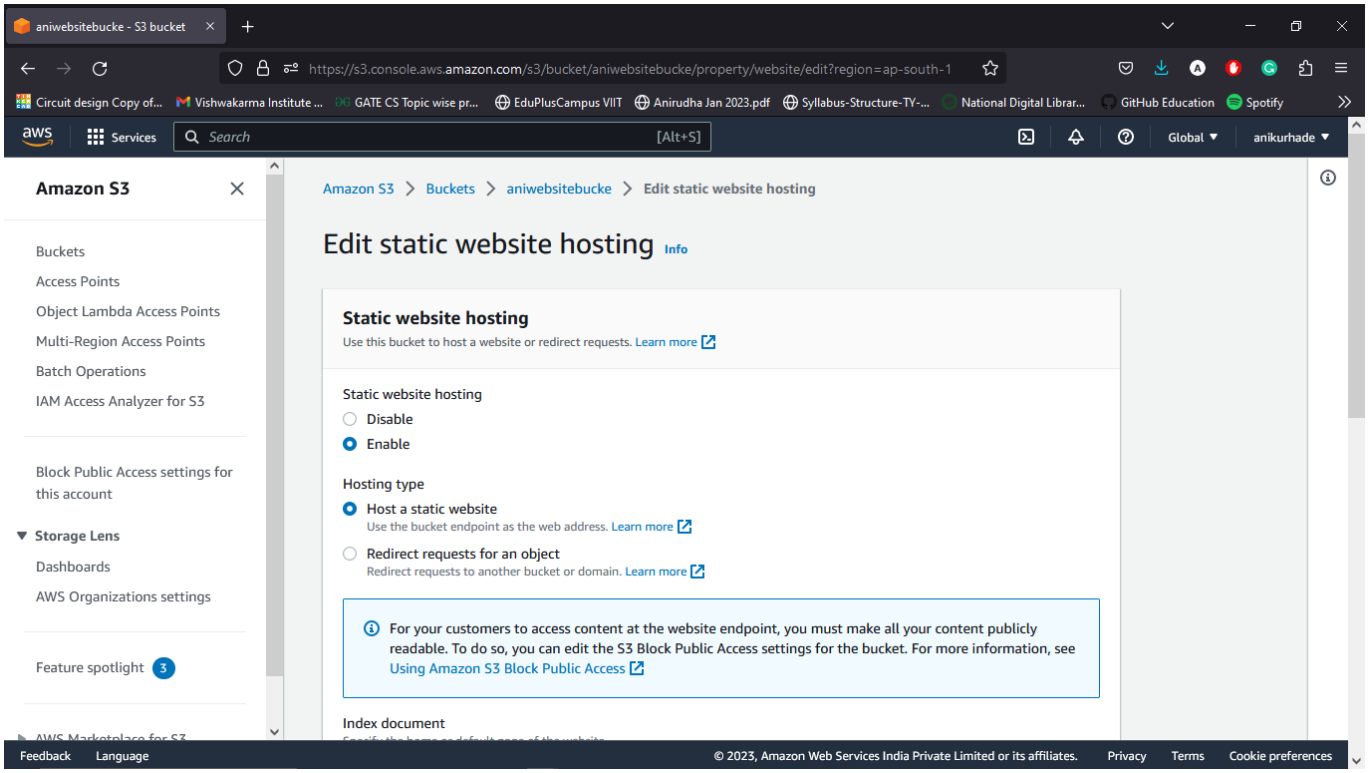
STEP 2

→ Open the properties of the bucket & edit the static hosting property



STEP 3

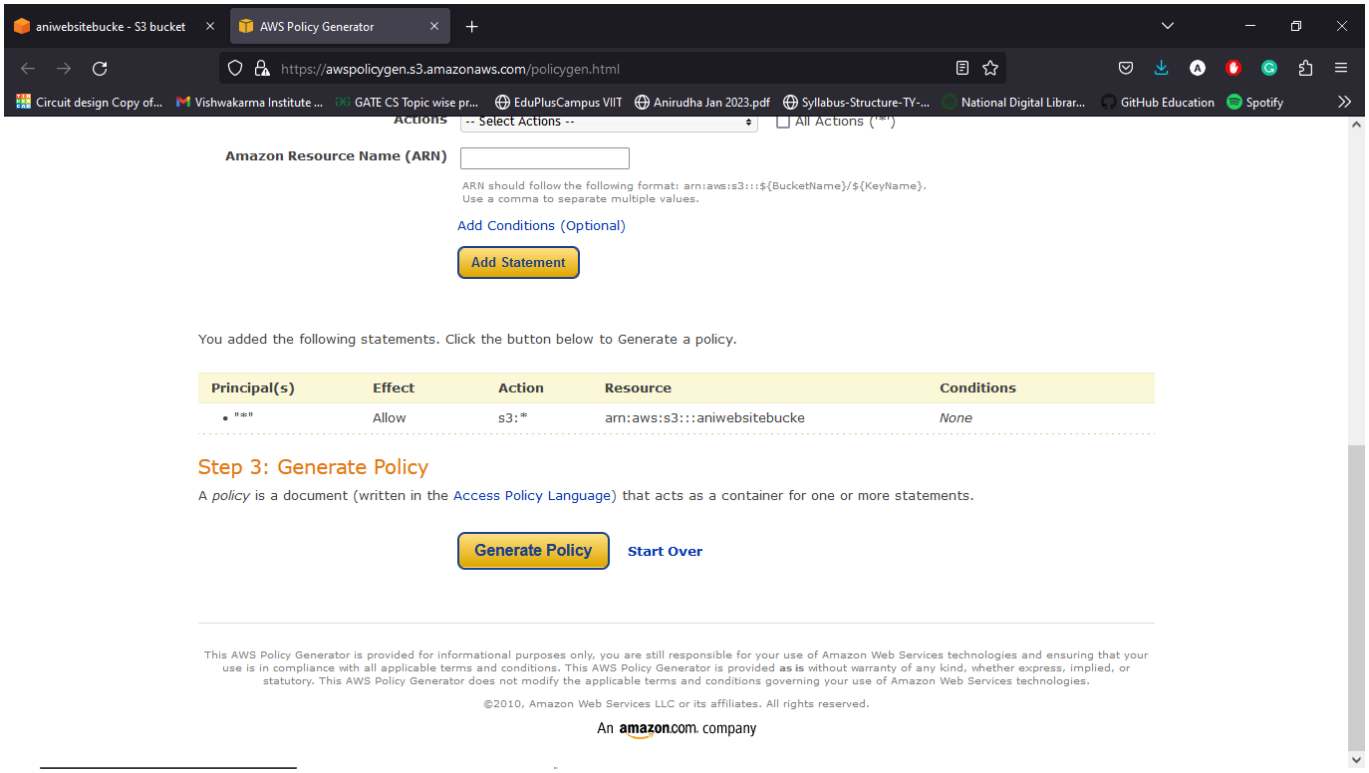
→ Enable static web hosting & add name of index document as index.html

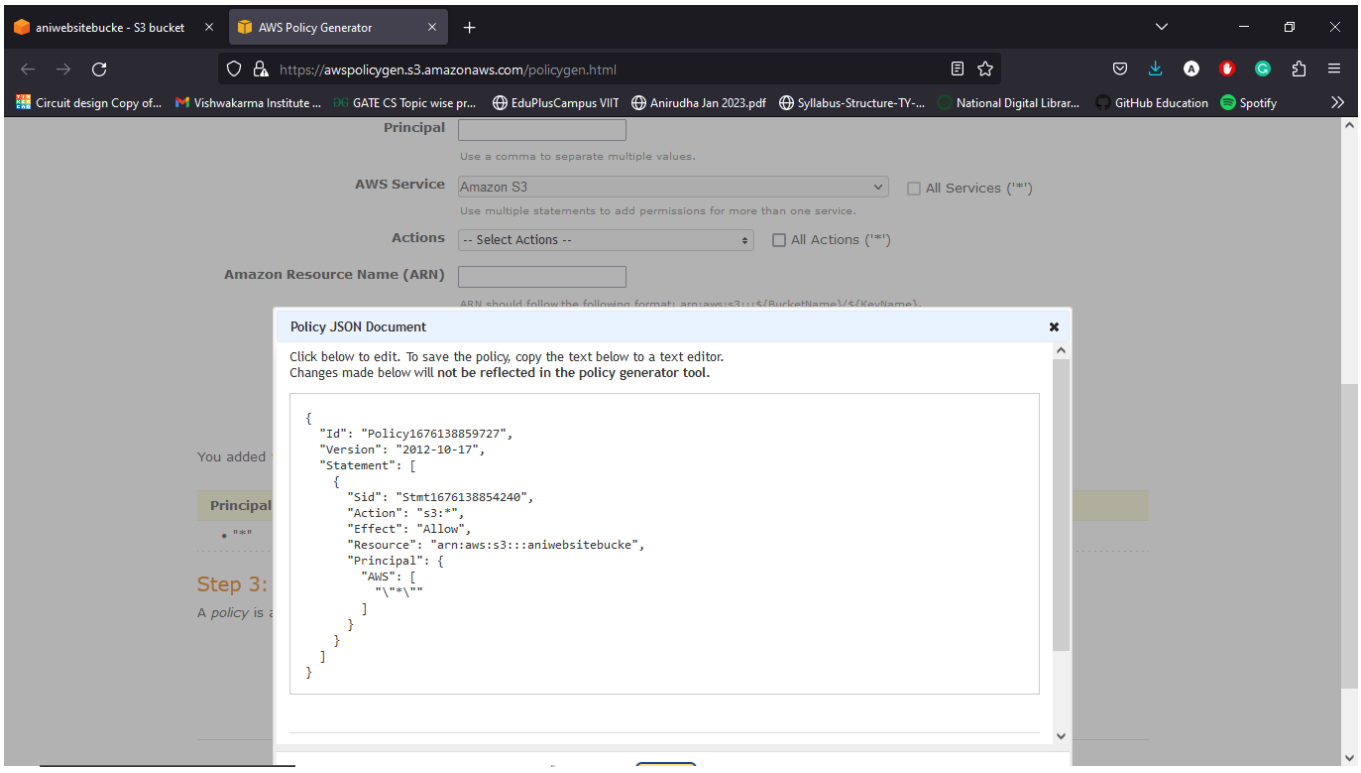


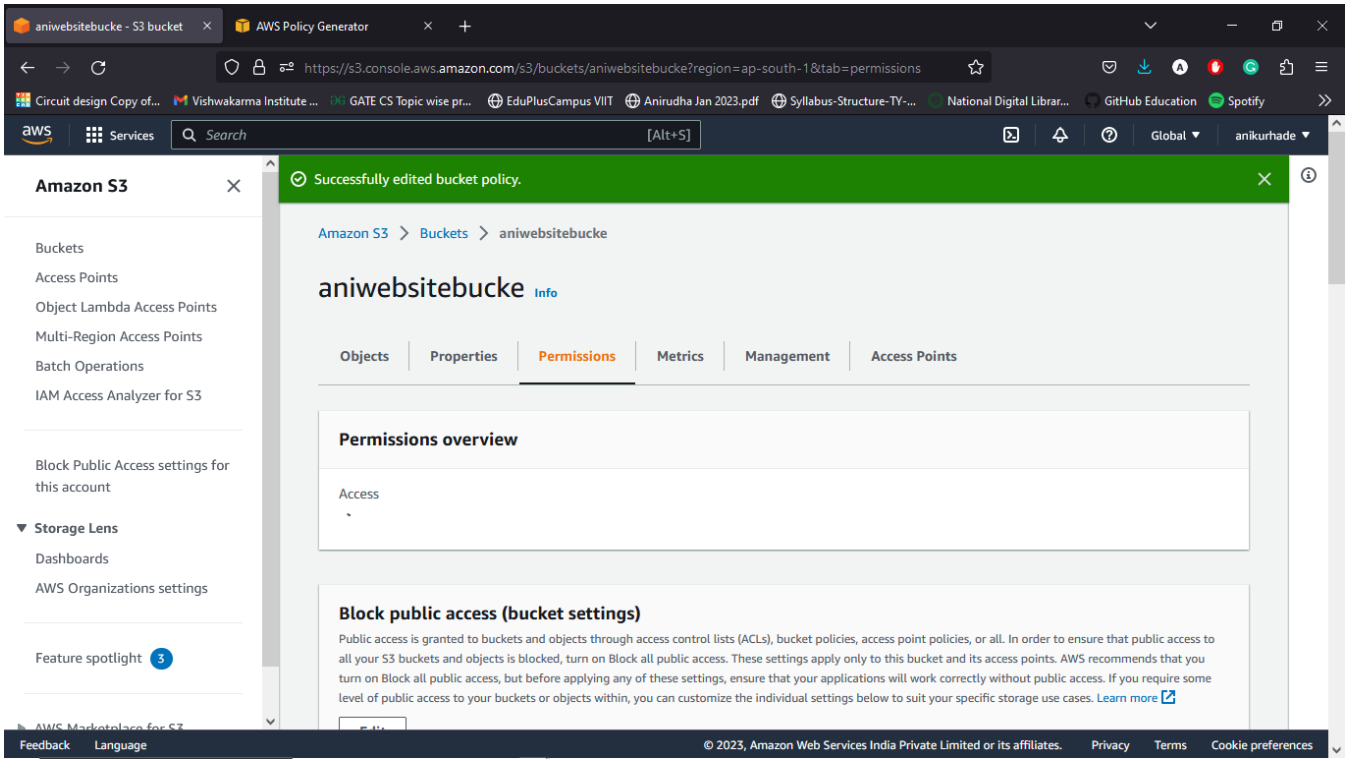
STEP 4

→ Go to the permissions of the bucket & and generate a new policy for our bucket (We can use aws policy generator or can get a basic template for web hosting on aws)

(Add the asked things and click on add statement and generate policy)

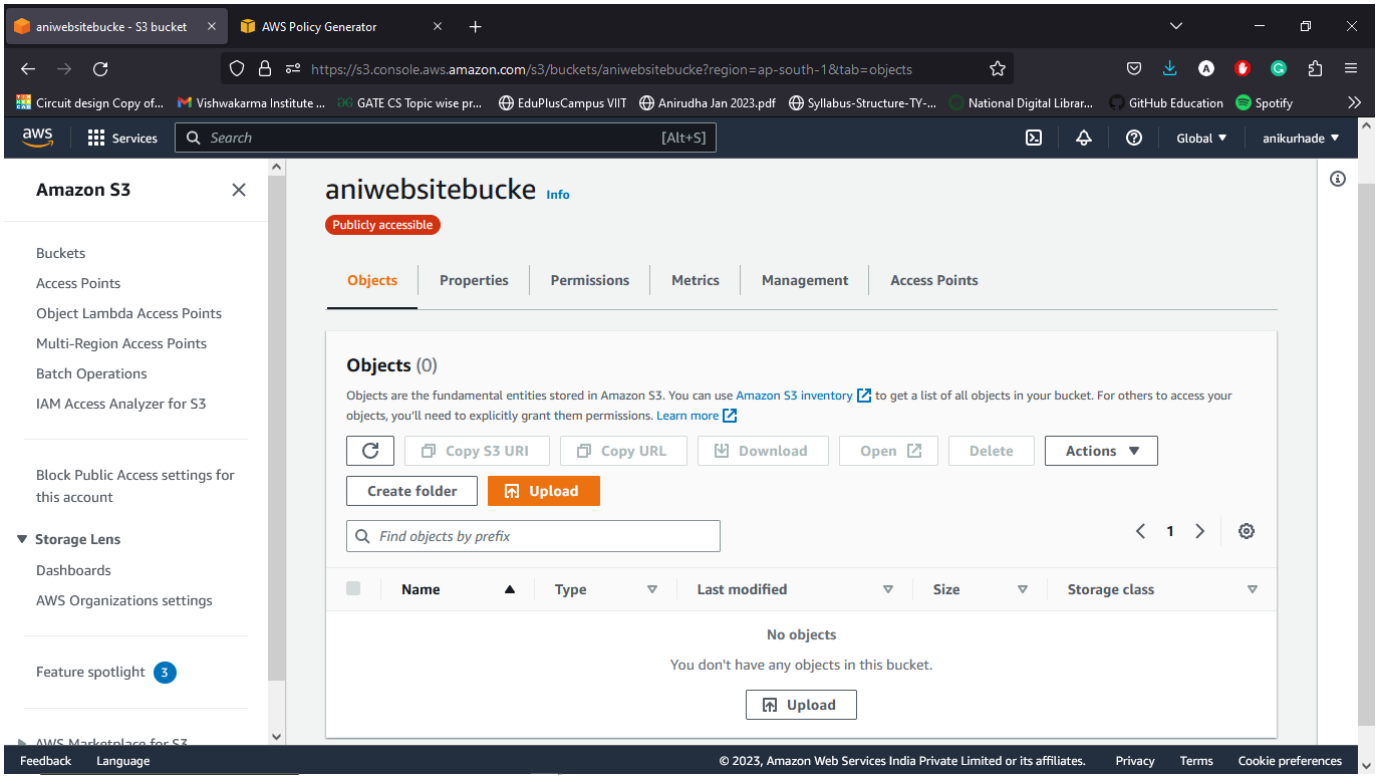


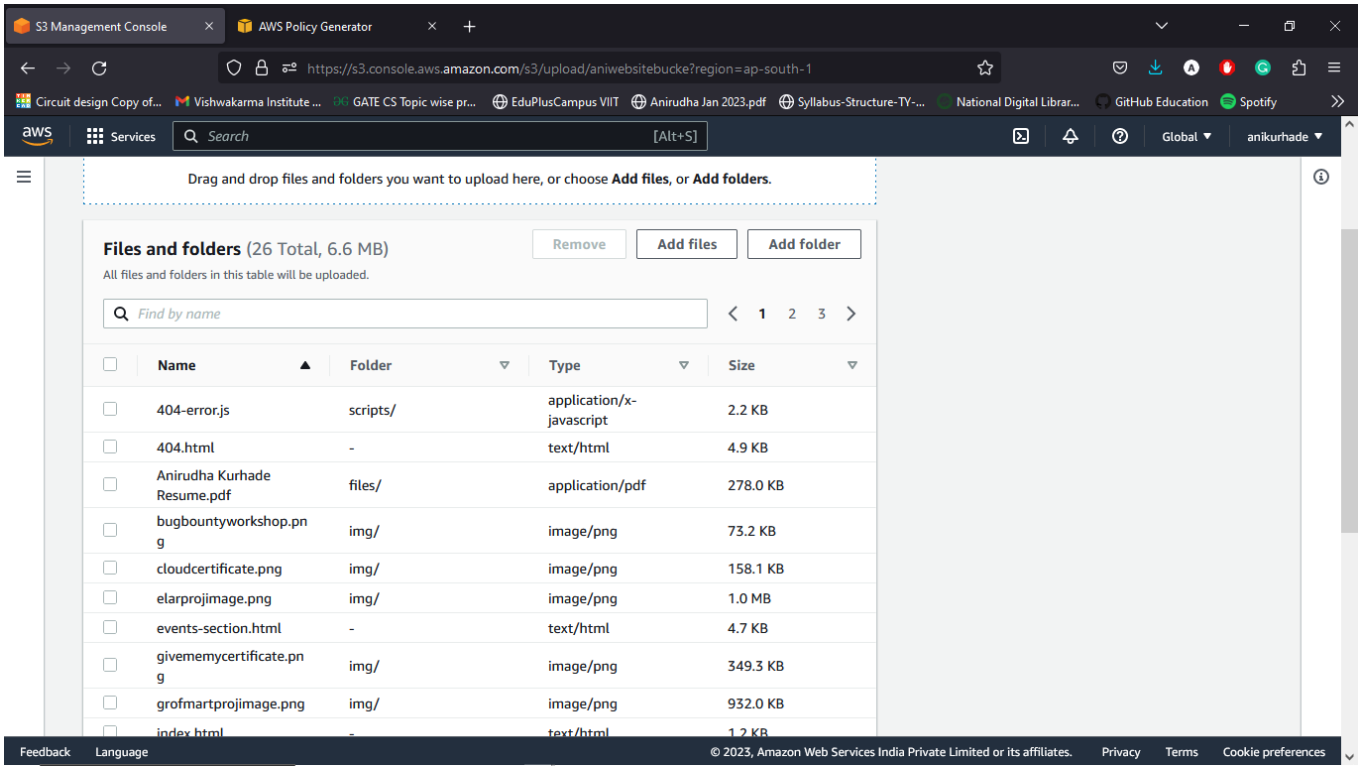


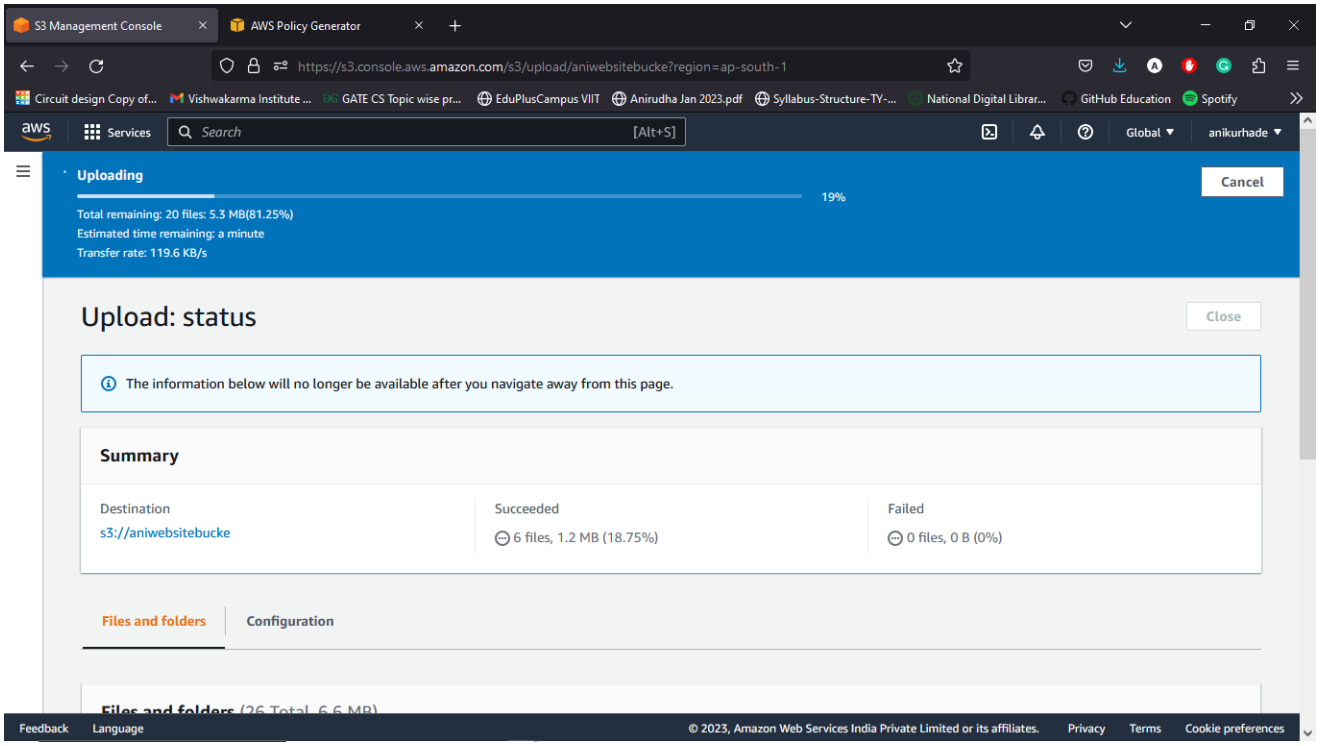


STEP 5

→ Open the bucket you are using & click on upload

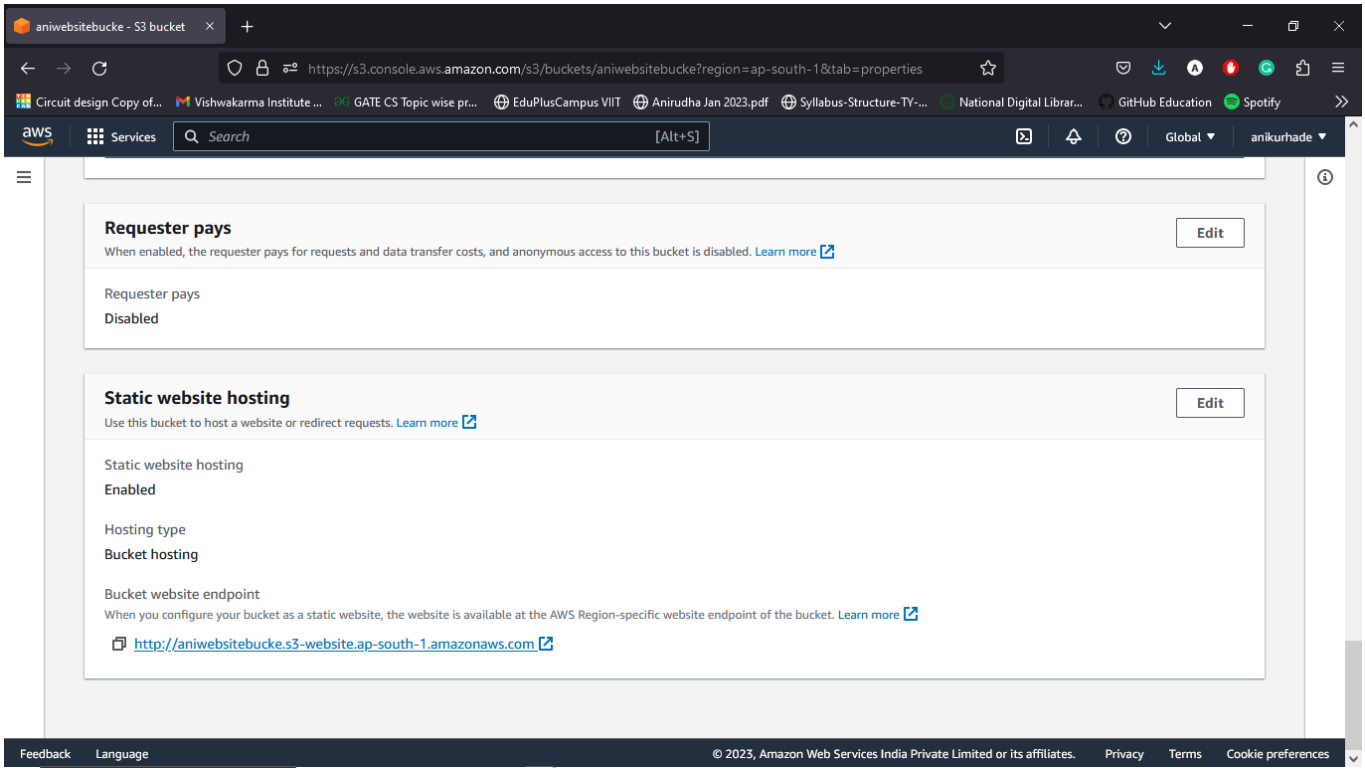






STEP 6

→ Click on this link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Requester pays
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more
Edit
Requester pays
Disabled
Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Edit
Static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
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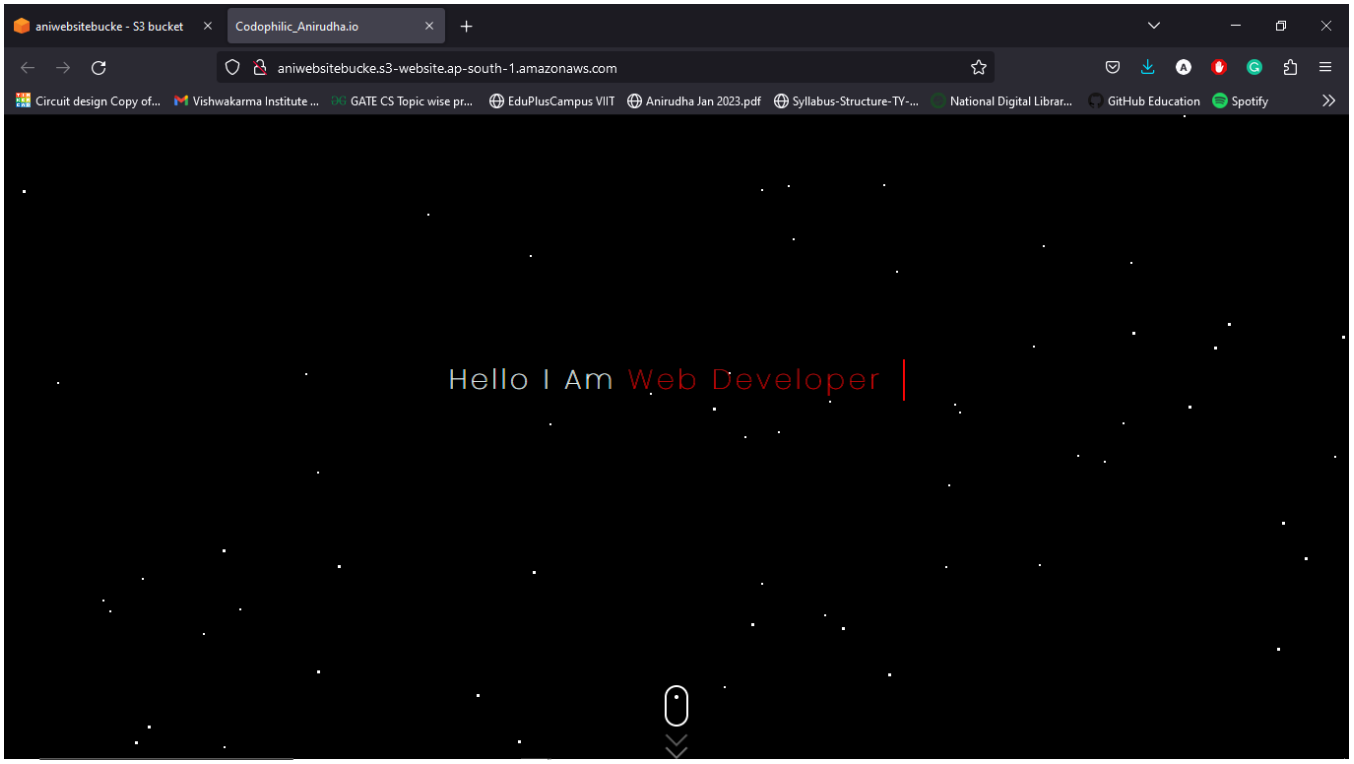
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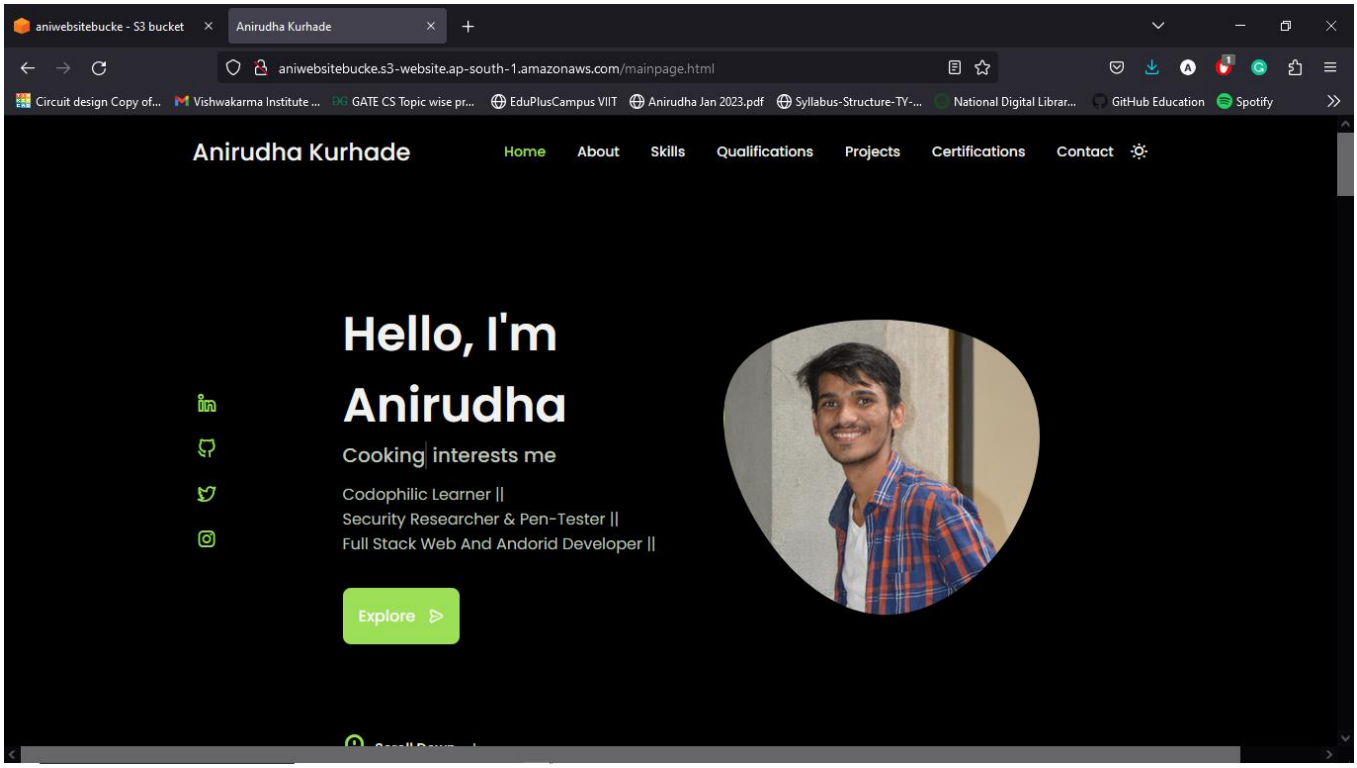
Hello I Am Web Developer



Conclusion :-

Thus, We Have Studied And Deployed Web application using S3 Bucket.