



PROFESSIONAL TRAINING REPORT

at

**Sathyabama Institute of Science and Technology
(Deemed to be University)**

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering Degree in Information Technology

By,

**Praveen K.S
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DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

**SATHYABAMA INSTITUTE OF SCIENCE AND
TECHNOLOGY**

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CHENNAI – 600119, TAMILNADU

NOVEMBER 2021

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY



(DEEMED TO BE UNIVERSITY)

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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **PRAVEEN K.S(Reg. No: 39120083)** who carried out the project entitled “**HOSTING STATIC WEB PAGE IN CLOUD** ” under my supervision from June 2021 to November 2021.

Internal Guide

Dr. R.M.Gomathi,

Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I, **PRAVEEN K.S** hereby declare that the project report entitled “**HOSTING STATIC WEB PAGE IN CLOUD**” done by me under the guidance of **DR.R.M.GOMATHI** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering Degree in Information Technology .

DATE:

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management of SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T. Sasikala M.E., Ph.D, Dean**, School of Computing, **Dr.R.Subhashini M.E., Ph.D, Head of the Department of Information Technology** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr.R.M.GOMATHI** for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Information Technology** who were helpful in many ways for the completion of the project.

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Week 1 : Assignment 1: -

Week 2 : Assignment 2: -

Week 3 : Assignment 3: **90.0**

Week 4 : Assignment 4: **100.0**

Week 5 : Assignment 5: **90.0**

Week 6 : Assignment 6: **100.0**

Week 7 : Assignment 7: **95.0**

Week 8 : Assignment 8: **90.0**

Announcement:

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ABSTRACT

In recent years, whether you experience a natural disasters , power failure or other crisis, having your data stored in the cloud ensures it is backed up and protected in a secure and safe location . Being able to access your data again quickly allows you to conduct business as usual ,minimizing any downtime and loss of productivity .The cloud enables users to access the same files and application from almost any device ,because the computing and storage takes place on server in a data center ,instead of locally on the user. So I have create online static website to host in AWS it have store in cloud function upto lifetime of years.

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CHAPTER - 1

INTRODUCTION

“Cloud computing” is a phrase many of us hear but may not understand. This is because it encompasses several different systems and services, making it feel ambiguous or confusing.

In this article, we share a simple definition of cloud computing, examples of computing, and discuss why companies use cloud computing.

1.1 Simple Definition of Cloud Computing

Cloud computing is the use of off-site systems to help computers store, manage, process, and/or communicate information. These off-site systems are hosted on the cloud (or the internet) instead of on your computer or other local storage. They can encompass anything from email servers to software programs, data storage, or even increasing your computer’s processing power.

The “cloud” is a term that simply means “the internet.” Computing involves the infrastructures and systems that allow a computer to run and build, deploy, or interact with information. In cloud computing, this means that instead of hosting infrastructure, systems, or applications on your hard drive or an on-site server, you’re hosting it on virtual/online servers that connect to your computer through secure networks.

1.2 Examples of Cloud Computing

Cloud computing is the use of hardware or software off-site that is accessed over networks for computing needs. Examples of cloud computing depend on the type of cloud computing services being provided.

The main types of cloud computing include software as a service, platform as a service, and infrastructure as a service. Serverless computing, also known as function as a service (FaaS), is also a popular method of cloud computing for businesses.

- **SaaS or Software as a Service.** SaaS means instead of installing software on your computer, you access the platform online. Examples would include:
 - Square, which processes payments online

- o Google Apps such as Google Drive or Calendar
 - o Slack, which allows collaboration and chat between other users

- **IaaS or Infrastructure as a Service.** IaaS provides infrastructure components such as servers, storage, networking, security, and moreover the cloud. Examples would include:
 - o Dropbox, a file storage and sharing system
 - o Microsoft Azure, which offers backup and disaster recovery services, hosting, and more
 - o Rackspace, which offers data, security, and infrastructure services.

- **PaaS or Platform as a Service.** PaaS provides computing platforms such as operating systems, programming language execution environments, databases, and web servers. Examples would include:
 - o Google App Engine and Heroku, which allow developers to develop and serve apps

- **Serverless Computing.** Serverless computing (also called simply “Serverless”) is simply using a server on the cloud. This offers more elasticity, easier maintenance, and is often more price effective than hosting servers on-site.

CHAPTER- 2

AWS(AMAZON WEB SERVICES)

2.1 Cloud computing with AWS

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

2.2 Most functionality

AWS has significantly more services, and more features within those services, than any other cloud provider—from infrastructure technologies like compute, storage, and databases—to emerging technologies, such as machine learning and artificial intelligence, data lakes and analytics, and Internet of Things. This makes it faster, easier, and more cost effective to move your existing applications to the cloud and build nearly anything you can imagine.

2.3 Largest community of customers and partners

AWS also has the deepest functionality within those services. For example, AWS offers the widest variety of databases that are

purpose-built for different types of applications so you can choose the right tool for the job to get the best cost and performance.

AWS has the largest and most dynamic community, with millions of active customers and tens of thousands of partners globally. Customers across virtually every industry and of every size, including startups, enterprises, and public sector organizations, are running every imaginable use case on AWS. The AWS Partner Network ([APN](#)) includes thousands of systems integrators who specialize in AWS services and tens of thousands of independent software vendors (ISVs) who adapt their technology to work on AWS.

2.4 Most secure :

AWS is architected to be the most flexible and secure cloud computing environment available today. Our core infrastructure is built to satisfy the security requirements for the military, global banks, and other high-sensitivity organizations. This is backed by a deep set of cloud security tools, with 230 security, compliance, and governance services and features. AWS supports 90 security standards and compliance certifications, and all 117 AWS services that store customer data offer the ability to encrypt that data.

2.5 Fastest pace of innovation

With AWS, you can leverage the latest technologies to experiment and innovate more quickly. We are continually accelerating our pace of innovation to invent entirely new technologies you can use to transform your business. For example, in 2014, AWS pioneered the serverless computing space with the launch of AWS Lambda, which lets developers run their code without provisioning or managing servers. And AWS built Amazon SageMaker, a fully managed machine learning service that empowers everyday developers and scientists to use machine learning—without any previous experience.

2.6 Most proven operational expertise

AWS has unmatched experience, maturity, reliability, security, and performance that you can depend upon for your most important applications. For over 15 years, AWS has been delivering cloud services to millions of customers around the world running a wide variety of use cases. AWS has the most operational experience, at greater scale, of any cloud provi

CHAPTER - 3

ADVANTAGE OF AWS

3.1 Product Benefits

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers. Through our partnership with AMD, AWS offers additional EC2 instances that add to the broadest and deepest portfolio of instances and enables you to optimize both cost and performance for your workload needs.

3.2 Flexibility and Choice

EC2 instances featuring AMD EPYC processors provide additional choices to help you optimize both cost and performance for your workloads.

Better Economics

EC2 instances featuring AMD EPYC processors deliver up to 10% lower cost versus comparable instances. Additionally, C5a instances offer the lowest price per x86 vCPU in the EC2 family.

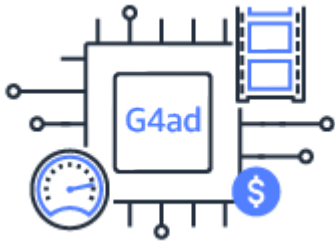
Seamless Workload Migration

Easily migrate applications currently running on existing EC2 instances to the new AMD-based variants with little to no modification.

EC2 Instances Powered by AMD EPYC

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and give you the flexibility to choose the appropriate mix of resources for your applications. Each instance type includes one or more instance sizes, allowing you to scale your resources to the requirements of your target workload.

Instances	Description	Use Cases
 C5a	Leading x86 price-performance ideal for compute bound applications that benefit from high performance processors.	Batch processing, distributed analytics, data transformations, log analysis, and web applications
 M5a	Balanced compute, memory, and networking resources for general purpose workloads. Powered by 1st Gen AMD EPYC	Business critical applications, web and application servers, back-end servers for enterprise

M5a	with frequencies up to 2.5 GHz.	applications, gaming servers, caching fleets, and app development environments
 T3a	Baseline level of CPU performance with the ability to burst CPU usage at any time for as long as required.	Micro-services, low-latency interactive applications, small and medium databases, virtual desktops, development environments, code repositories, and business-critical applications.
 G4ad	The best price performance in Amazon EC2 for graphics applications. Powered by AMD Radeo Powered by AMD Radeon Pro V520 GPUs and 2nd generation AMD	Remote workstations, game streaming, and graphics rendering.

	EPYC processors.	
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CHAPTER - 4

SYSTEM INFRASTRUCTURE

4.1 Cloud computing infrastructure:

Cloud computing infrastructure is the collection of hardware and software elements needed to enable cloud computing. It includes computing power, networking, and storage, as well as an interface for users to access their virtualized resources. The virtual resources mirror a physical infrastructure, with components like servers, network switches, memory and storage clusters.

4.2 Why Cloud Computing Infrastructure?

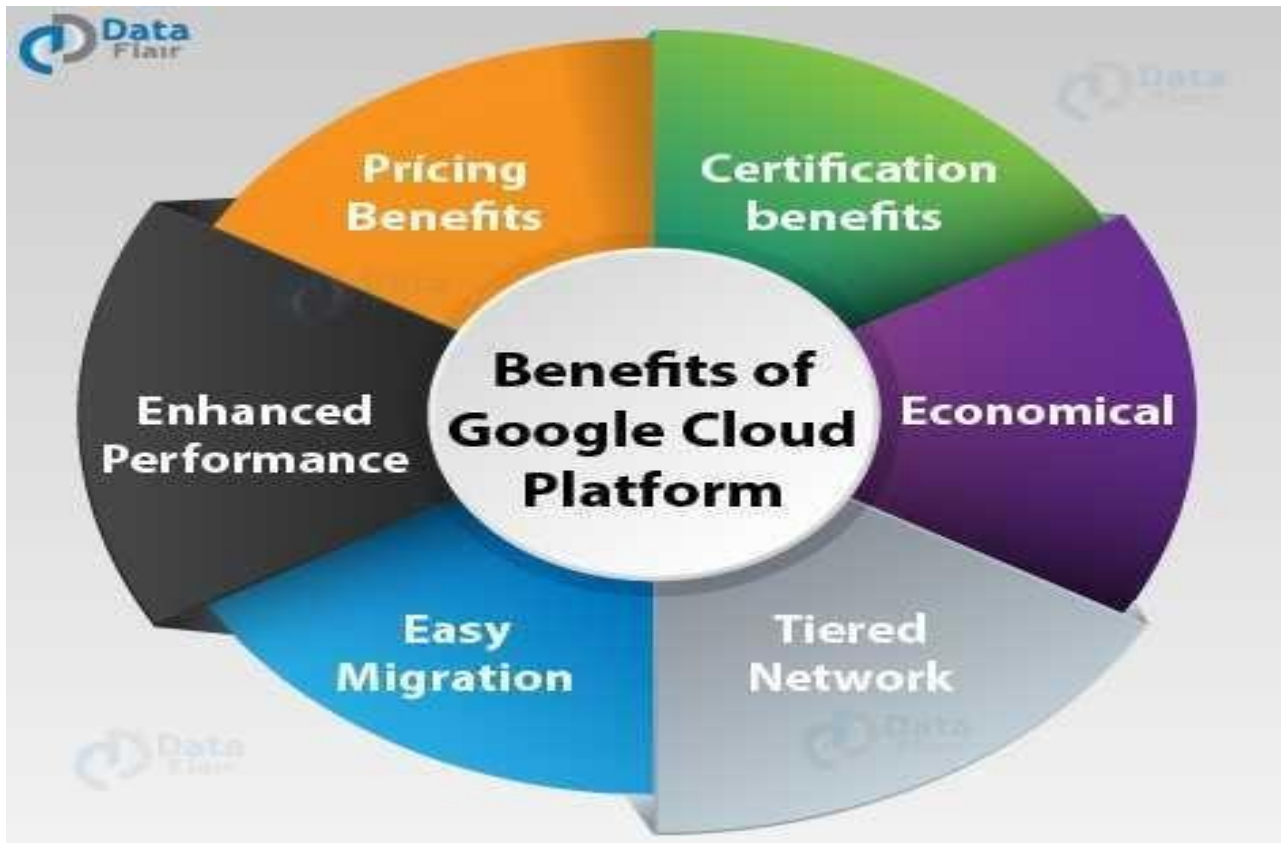
Cloud infrastructure offers the same capabilities as physical infrastructure but can provide additional benefits like a lower cost of ownership, greater flexibility, and scalability.

Cloud computing infrastructure is available for private cloud, public cloud, and hybrid cloud systems. It's also possible to rent cloud infrastructure components from a cloud provider, through cloud infrastructure as a service (Iaas). Cloud infrastructure systems allow for integrated hardware and software and can provide a single management platform for multiple clouds.

CHAPTER-5

BENEFITS

Benefits of amazon cloud computing



Some of the main benefits of Amazon Cloud Platform are explained below:

5.1 Best Pricing :

Amazon enables users to get AMAZON Cloud hosting at the cheapest rates. The hosting plans are not only cheaper than other hosting platforms but also offer better features than others. AWS provides a pay-as-you-go option to the users where users can pay separately only for the services and resources they want to use.

5.2 Work from Anywhere

Once the account is configured on GCP, it can be accessed from anywhere. That means that the user can use AWS across different devices from different places. It is possible because Google provides web-based applications that allow users to have complete access to AWS.

5.3 Private Network

Google has its own network that enables users to have more control over GCP functions. Due to this, users achieve smooth performance and increased efficiency over the network.

Scalable: Users are getting a more scalable platform over the private network. Because Google uses fiber-optic cables to extend its network range, it is likely to have more scalability. Google is always working to scale its network because there can be any amount of traffic at any time.

Security: There is a high number of security professionals working at Google. They always keep trying to secure the network and protect the data stored on servers. Additionally, Google uses an algorithm that encrypts all the data on the Cloud platform. This gives assurance to the users that their data is completely safe and secure from unauthorized sources.

Redundant Backup: Google always keeps backup of user's data with built-in redundant backup integration. In case a user has lost the stored data, it's not a big problem. Google always has a copy of the users' data unless the data is deleted forcefully. This adds data integrity, reliability and durability with AWS.

CHAPTER-6

HOSTING STATIC SITE IN AWS

6.1 CREATE THE WEB SITE :

Create the web page using HTML,CSS,JAVASCRIPT.

Creating an attractive page will be difficult for those who are not experts in CSS. Without using CSS, you will not be able to make the web page, more attractive.

So in order to make a web page, we need to have a knowledge of HTML and CSS.

In this article, the main focus will be implementing CSS. In order to design a web page we need to first create an HTML web structure.

Creating structure: In this section, we will create a simple structure of web page by using and <section> tags.

Store in folder in local disk C.

6.2 HOSTING WEB SITE IN AWS :

Create the AWS account in amazon management console.

Go to service choose the Storage S3.To store the web site in cloud management.

Create the bucket using the name of html-live-bakery-project.

Then click the public option to object to be in public

Click the create button option.

Then goto properties to enable static web site and then type type html name to host it .After that there will url link create it be link of output.

Add file object in create bucket and convert into public then click link your website will be host.

CHAPTER-7

CONCLUSION

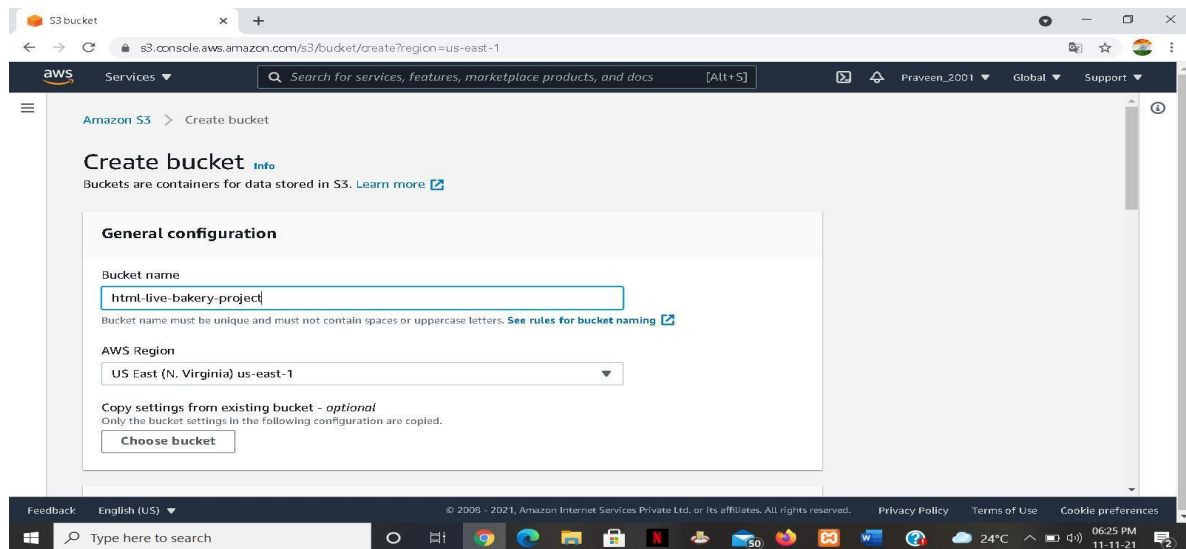
This project taken for upload the static web page in AWS. For upcoming day to reduce the storage of the computer and moderate weather climate. cloud storage it very useful for life long time. The static web site hosting in cloud placement of the student in a company. The student in pre-Final year and final year of our course NPETL. System to know their individual placement status that they are most likely to achieve .This application endows the targets group of the students to boost their placement probability. This project can be further extended using some more cloud computing storage.

REFERENCE

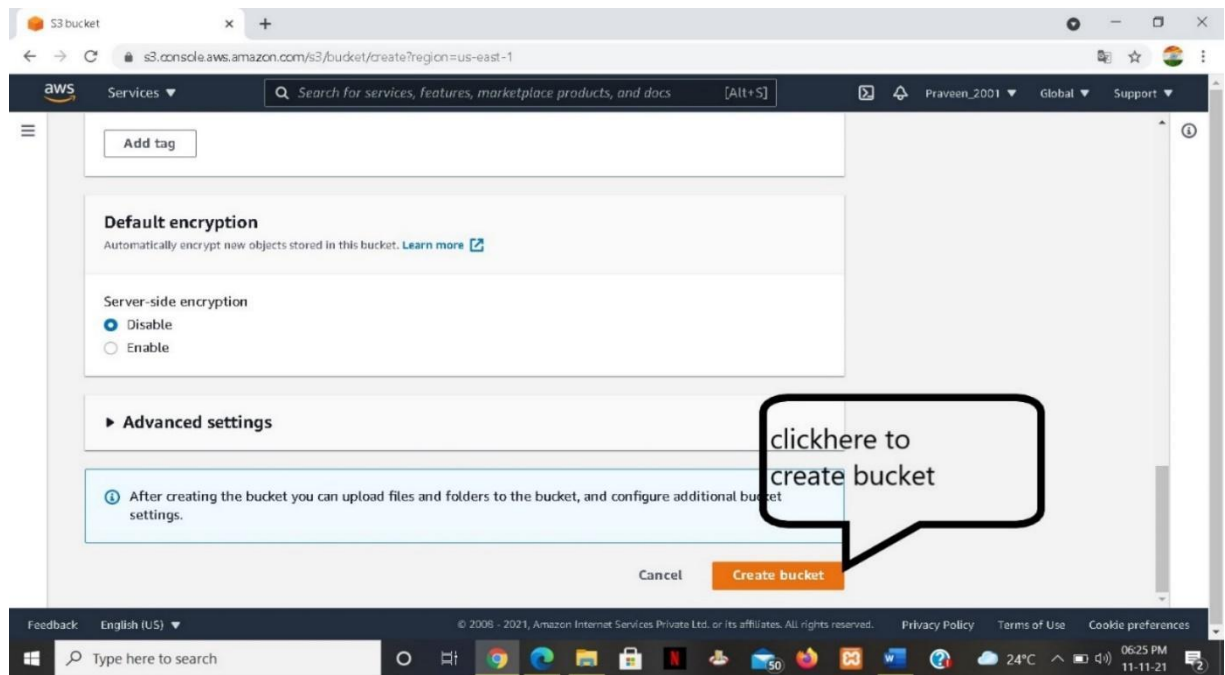
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APPENDIX A

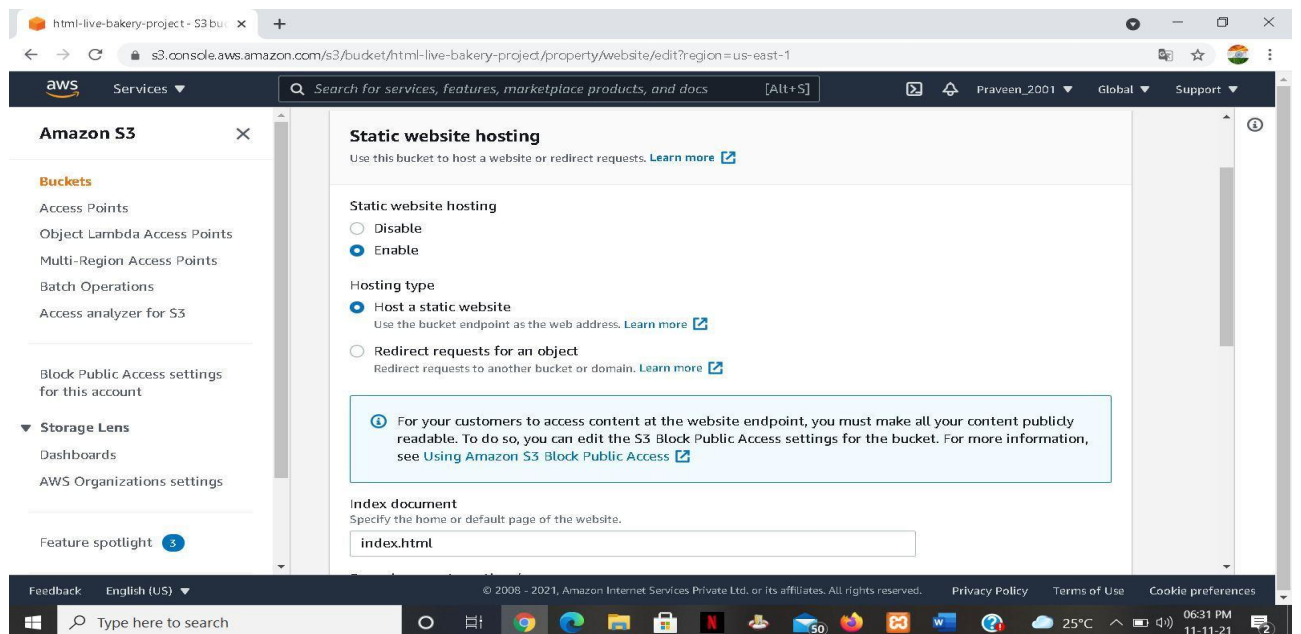
SNAP SHOTS



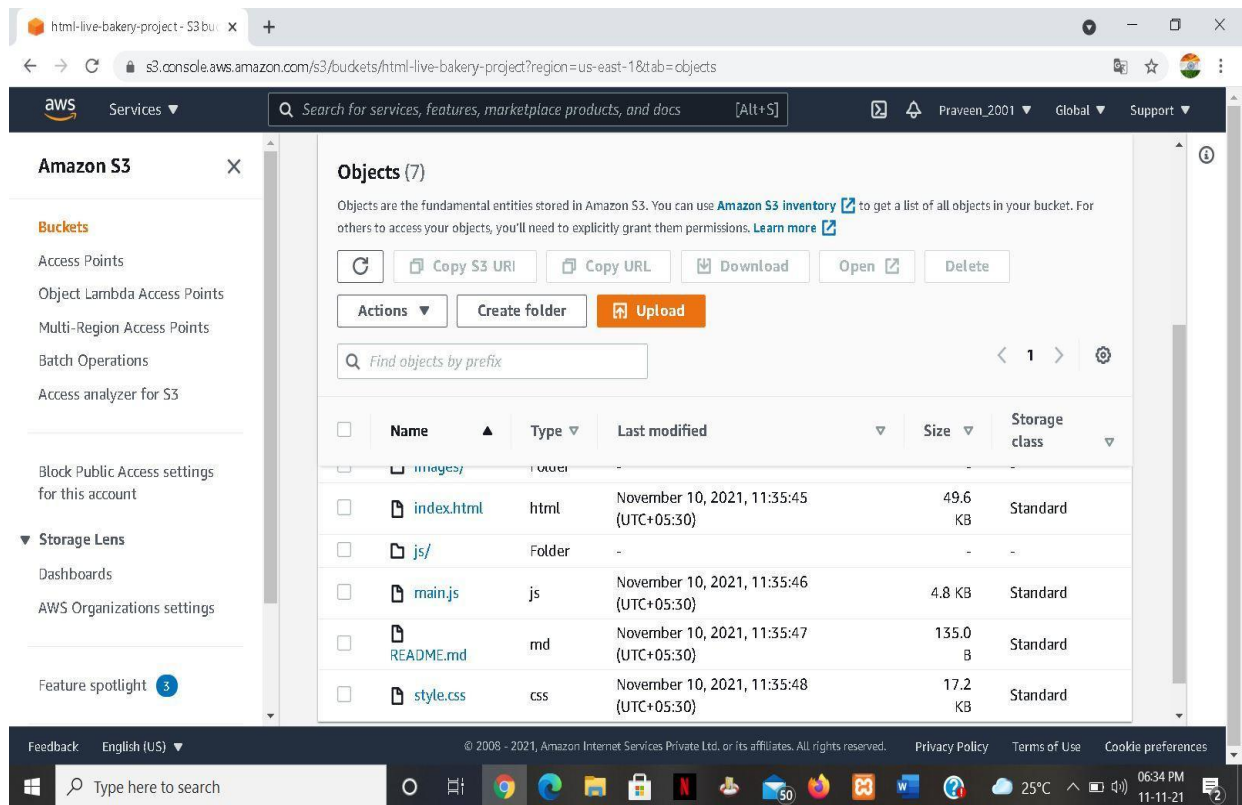
1.1bucket Name



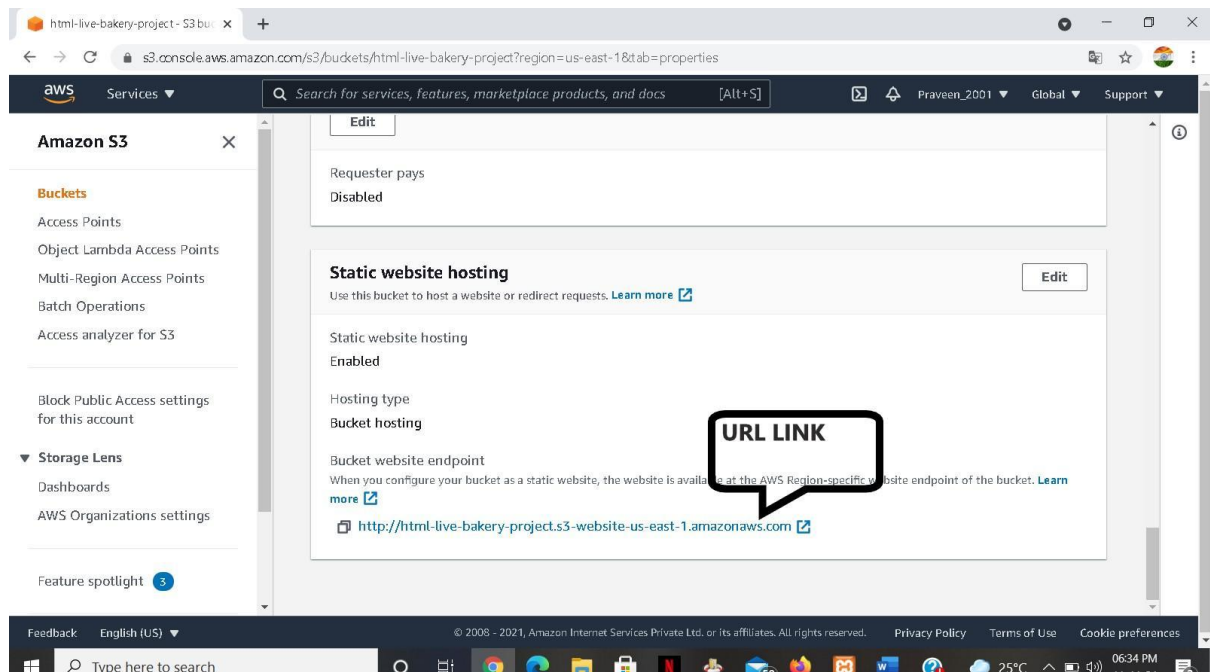
1.2 Create bucket



1.3 Allow static website



1.4 Upload the File



1.5 URL link