PARSHVANATH CHARITABLE TRUST'S
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Department of Computer Engineering

CLOUD COMPUTING MINI PROJECT

PROJECT TITLE: BOOK STORE

BY

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Abstract :

- Book-store is a website project designed to swap books with the books readers. The project is developed using Python, Django, HTML, and CSS.

- The website is designed to provide a user-friendly interface for both buyers and sellers to participate in online book store.

- The website has a robust database that stores information about books, categories, and users.

Cloud services used :

- AWS Elastic Compute Cloud.
- AWS Elastic IP
- Remote Desktop Connection
- AWS Bucket

AWS Elastic Compute Cloud:

- Create an Amazon EC2 instance to host the lab management system, choosing an appropriate instance size for the expected workload. Choose an Amazon Machine Image (AMI) that includes the necessary software stack for the lab management system.
- Amazon Elastic Compute Cloud (EC2) is a cloud-based computing platform that allows users to run virtual machines (VMs) in the cloud. These VMs are created through the process of virtualization, which is the creation of a virtual version of a computing resource, such as a server or storage device.

AWS Bucket:

An AWS bucket refers to a storage container in Amazon Web Services (AWS) Simple Storage Service (S3) where users can store and retrieve their data objects such as images, videos, documents, and other files. Buckets are used to store objects and can be accessed by their unique AWS resource name.

AWS S3 provides highly scalable, reliable, and secure object storage that can be used to store and retrieve any amount of data from anywhere on the web. Users can store and retrieve their data objects in S3 buckets using various interfaces such as REST APIs, AWS SDKs, AWS Management Console, and command-line tools.

AWS S3 buckets offer a variety of features, including versioning, access control, lifecycle policies, encryption, and cross-region replication, among others. Users can also configure their buckets to automatically trigger events or notifications when specific actions are performed on objects within the bucket.

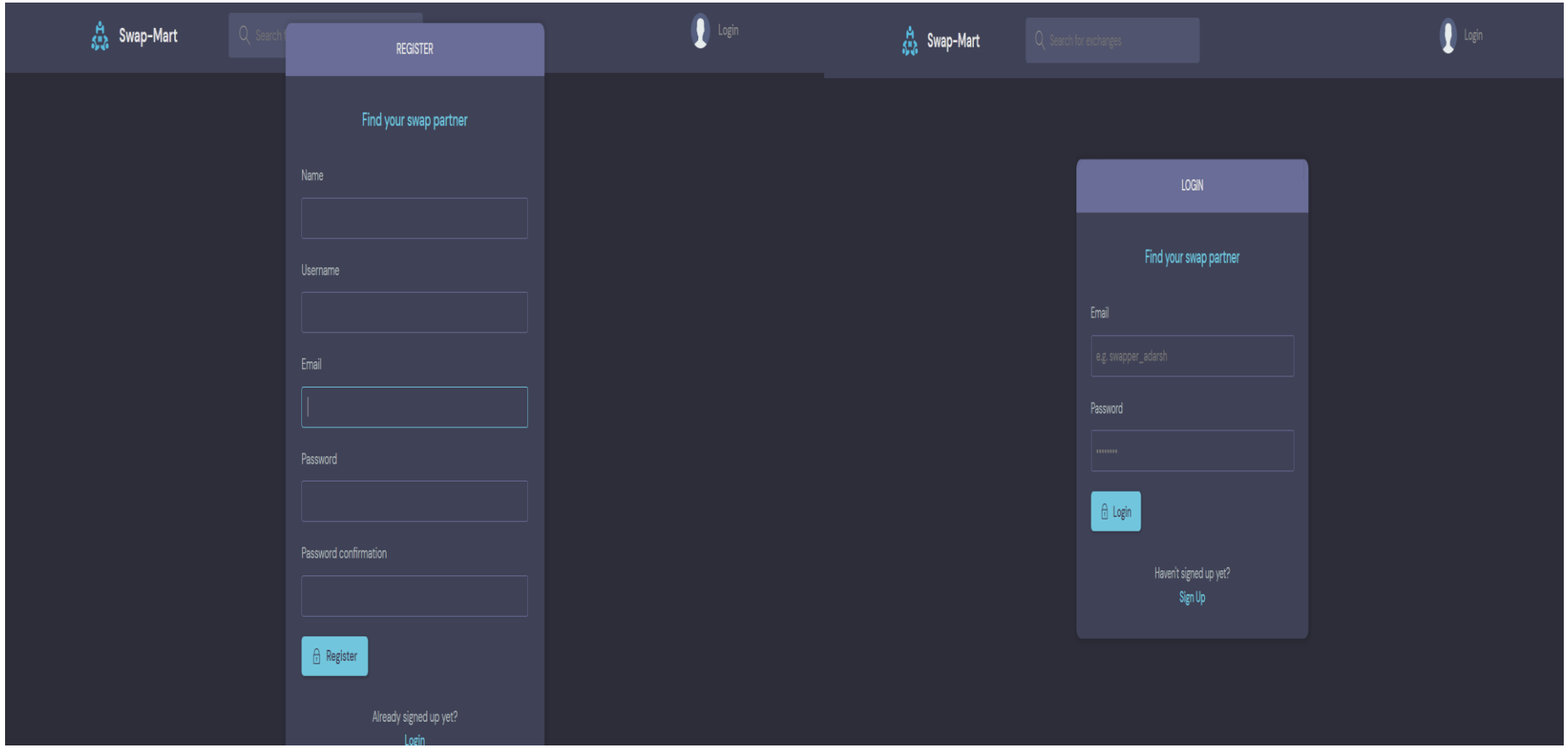
AWS RDP:

- AWS RDP (Remote Desktop Protocol) is a service that allows users to remotely access Windows-based instances running on Amazon Web Services (AWS) EC2. RDP is a protocol that allows users to access the desktop of a remote computer or server and interact with it as if they were physically present at the machine.Using AWS RDP, users can remotely access Windows instances on AWS and perform various tasks, such as software installation, configuration, and maintenance.

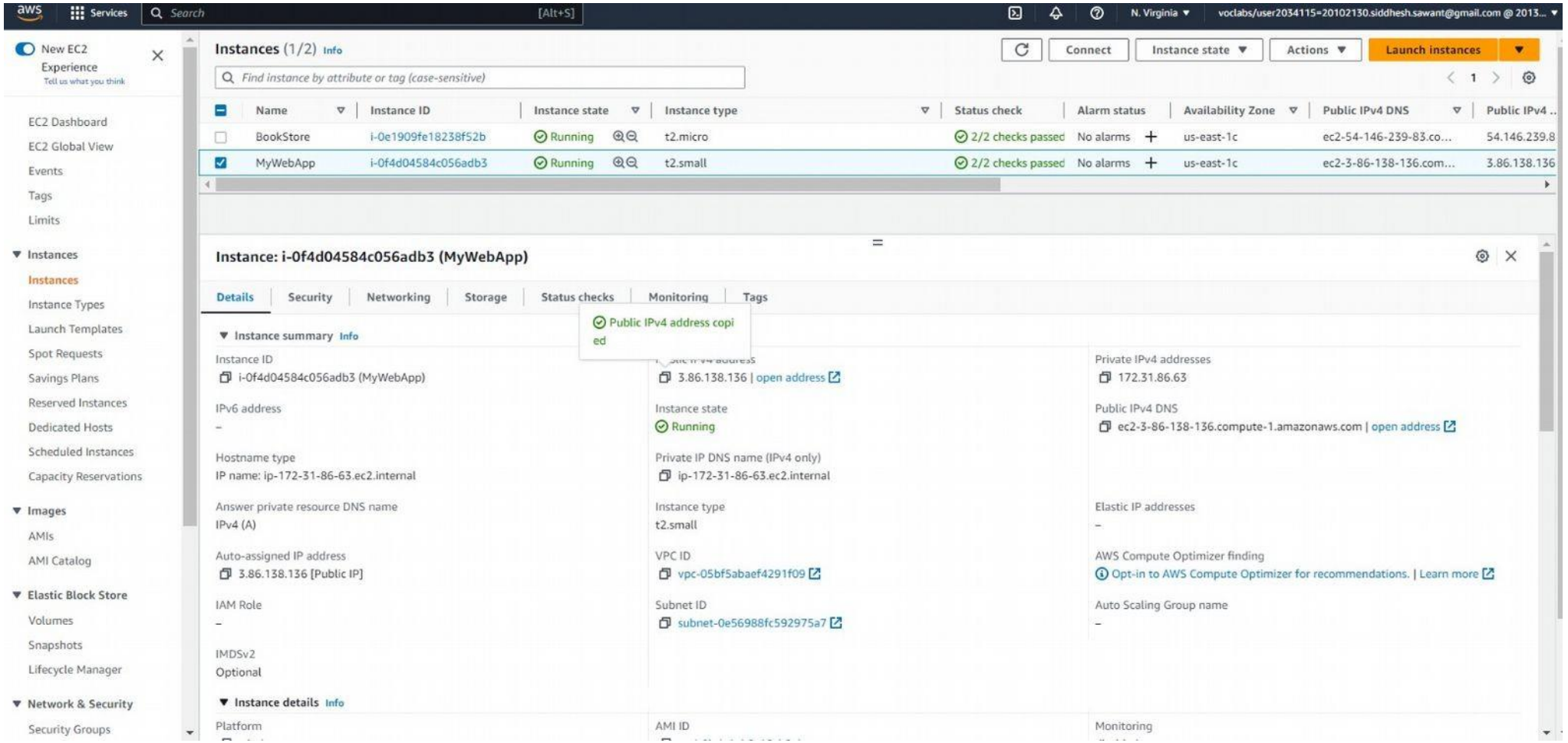
- AWS RDP is a secure way to remotely access instances since all data sent between the client and server is encrypted.AWS RDP also offers several features that help to manage and optimise remote access to Windows instances. These features include session management, which allows administrators to view active sessions and terminate them if necessary, and client access policies, which control who can access RDP sessions and from anywhere.

Implementation :

Loginpage –



Instance Page -



Conclusion -

The Book store project is an online selling platform developed using Python, Django, HTML, and CSS. The project is designed to be hosted on Amazon Web Services (AWS), taking advantage of its powerful infrastructure and services to deliver a secure and reliable online auction platform.

AWS EC2 provides scalable computing capacity, allowing the website to handle a large number of users and transactions. AWS RDS provides a managed database service that ensures high availability, durability, and security of the project's database. Security Group is used to set up a secure network infrastructure that controls access to the website and its resources.