

BookStore System on AWS Cloud

Group Members:-

Harsh Mali -[20102161]

Abhay Mane -[20102134]

Prathamesh Mane -[20102052]

UNDER THE GUIDANCE OF: PROF. DEEPAK KACHANE

INTRODUCTION

The main purpose of a Book-store Management System is to focus on the solution of all the problems related to the paperwork for different reasons. It provides a facility to handle all the activities in one place. With the help of this application, the admin can perform a different kinds of operations at the same time and place. Bookstore management System has the ability to keep records safe related to Books.

PROBLEM STATEMENT

The BookStore System aims to provide a centralized platform that can manage all the activities in a store/inventory efficiently. The system should allow lab administrators to manage equipment and supplies, schedule experiments, record data about the books added, and generate reports about various genre of the books. Moreover, it should also allow users to check book availability, and record experimental data.

Managing and maintaining a book shop could also be controlled by efficient software. This project focuses attention on designing efficient and reliable software. In real world, it tends to associate with automated systems as they provide many benefits than doing the same thing in manually.

OBJECTIVE

The Proposed Book shop management system should help the customers query whether a book is in stock. The user can query the availability of a book either by using the book title or by using the name of the author. The objective and scope of my Project Book Shop Management System is to record the details of various activities of the user. It simplifies the task and reduces the paperwork. Book store management system should generate sales statistics (book name, publisher, ISBN number, number of copies sold and the sales revenue) for any period.

SCOPE

- 1.Facilitates easy shopping online anywhere with easy to use interface
- 2.Provides information about the products in categories
- 3.Can avail the facility of purchasing second hand products
- 4.Can reserve or order if the particular product is not available
- 5.Customers are provided with up to date information on the products available
- 6.Provides email facility for future correspondence
- 7.Provides backup facility to the data.

AWS SERVICES USED EC2

- 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 SECURITY GROUPS

AWS Security Groups are a cloud-based service provided by Amazon Web Services (AWS) that act as virtual firewalls for EC2 instances. They control inbound and outbound traffic to and from the instance, providing an additional layer of security. Security Groups operate at the instance level, allowing users to apply different rules to different instances. They use stateful traffic filtering, which means that responses to outbound traffic are allowed, regardless of the inbound rules. Overall, AWS Security Groups provide a flexible and scalable way to manage network security in the cloud.

AWS VPC

With AWS VPC, users can create and manage a virtual network topology that closely resembles a traditional on-premises network infrastructure. Users can define and control network addressing, subnets, and routing tables, as well as configure network gateways, security groups, and network access control lists (ACLs).

CONCLUSION

By learning how to deploy a project on AWS cloud, individuals can gain a deeper understanding of cloud computing and its benefits, acquire proficiency in cloud computing platforms, design and deploy scalable and reliable cloud applications, gain experience in DevOps methodologies, and enhance their employability in the IT industry