

The Book Exchange Club

Team Members

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Abstract

This online book exchange software is a platform that enables friends to share and request books with each other. Users can create a profile and add their collection of books to the platform, indicating which books they are willing to lend to others. They can also search for books that their friends have shared and request to borrow them. The software keeps track of borrowed books, reminding users to return books they have borrowed and notifying lenders when their books are returned. This platform provides a convenient and cost-effective way for friends to share books, reducing the need for individual purchases and promoting a more sustainable and collaborative approach to reading.

Introduction

The book exchange is a process in which individuals or groups exchange books with one another. It is a great way to share books and discover new authors and genres. Book exchange can take place in many ways, such as through online platforms, in-person events, or through book clubs. Book exchange can also be a sustainable way of reading, as it reduces the need to purchase new books and allows for the reuse of existing books. Additionally, book exchange can foster a sense

of community among book lovers and encourage discussions about literature. Overall, book exchange is a valuable and enjoyable way to share and discover books.

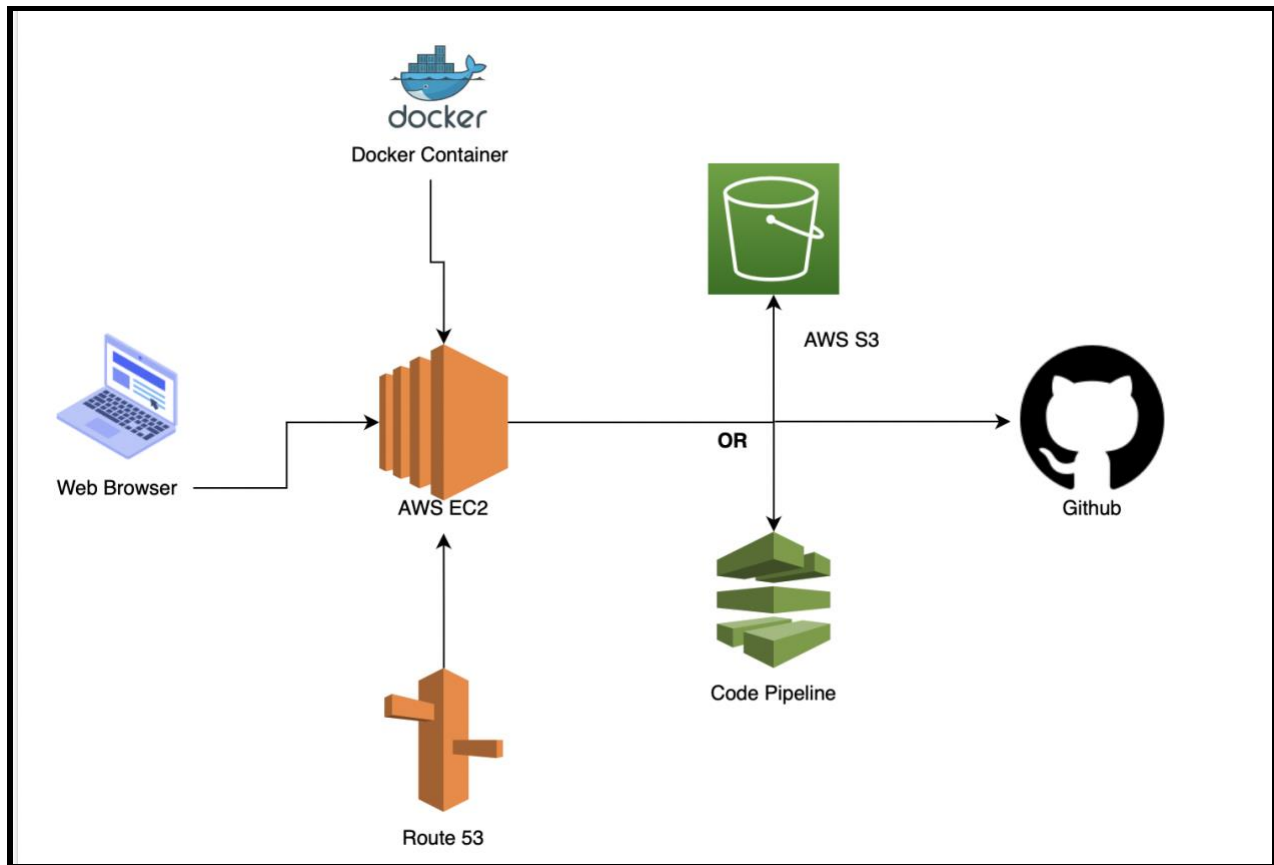
While book exchange can be a great way to share books and build community, there are some potential problems that may arise. Additionally, book exchange may not be accessible to all individuals, particularly those who do not have a lot of money. Many people like to go to libraries to read books but all libraries require library cards to check out their books. Therefore people who want to read many different books in the comfort of their own homes are not able to. But with the book exchange, people can swap their books with each other and read comfortably. This also promotes the habit of reading regularly. Students who aren't able to find textbooks or are not able to afford them can also use the book exchange program to study the books they require.

Technologies Stack

We are going to implement an application in Python and integrate it with AWS public cloud. We will try to implement different AWS services like S3, CloudFront, Route 53, EC2, and IAM, RDS according to the use cases. SQL database will be used for storing all data as our application will have a structured database. We will use Pycharm as a development environment. GitHub will be used for version control and sharing the code between all team members.

We are also planning to use Jenkins or AWS codepipeline service to generate CICD pipelines.

Application Architecture



Task Distribution

Tentative and High-Level task distribution is as follows:

Tasks	Responsible Team Members
Front End Tasks	Manasi and Pradnya
Back End Tasks	Shubham and Akshara
Application integration with AWS public cloud	All members