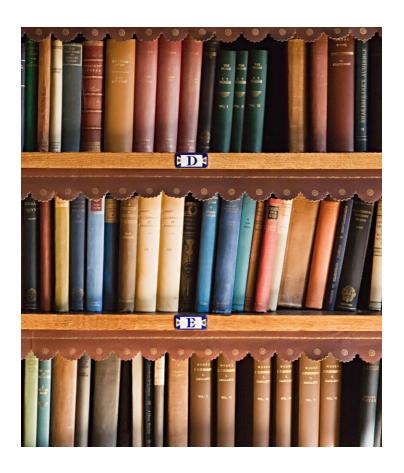
BOOKLAND LIBRARY PLATFORM

Database Systems Course Project

Version 1.0



Introduction

Our Team Members:

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Project Idea & Mission

Project Idea and Purpose:

Bookland Library Platform aims to revolutionize access to literature by offering a digital platform where users can freely download PDF books, buy new titles, and sell used ones. It's designed to be a holistic digital library that not only provides diverse reading materials but also fosters a community through features like blogs, comments, and reviews. The essence of Bookland is to make reading more accessible and interactive, breaking down barriers that readers face due to cost or location. By integrating a user-centric approach with customer dashboards, Bookland personalizes the reading experience, making it engaging and fulfilling for book lovers everywhere.



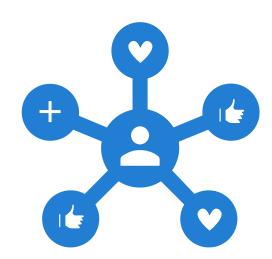
Inspiration & Objectives

Inspiration

- **Problem Identification**: Noticed the challenges faced by students and enthusiasts in accessing diverse literature conveniently.
- **Opportunity**: Leveraging technology to bridge the gap between readers and a wide array of books, especially in areas like technology, medicine, and engineering.
- **Community Building:** Inspired by the potential to create a platform that not only serves as a book repository but also fosters a community of readers and thinkers.

Objectives

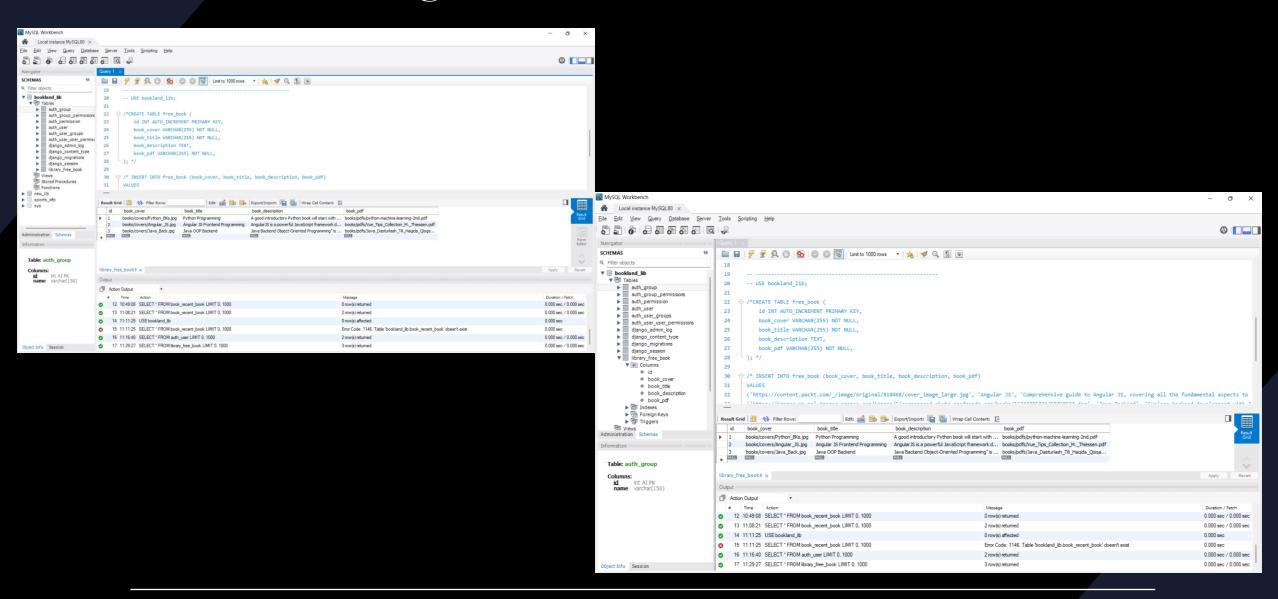
- **Accessibility**: To make a wide range of books easily accessible to people all over the world, regardless of geographic and economic barriers.
- **Engagement**: Enhance user engagement by integrating features that allow users to interact, such as book discussions and reviews.
- **Education and Growth**: Provide a resource that supports both academic and personal growth, making learning materials available in a structured and easy-to-navigate format.
- **Sustainability**: Offer a system where books can be reused and circulated among users, promoting sustainable practices in reading



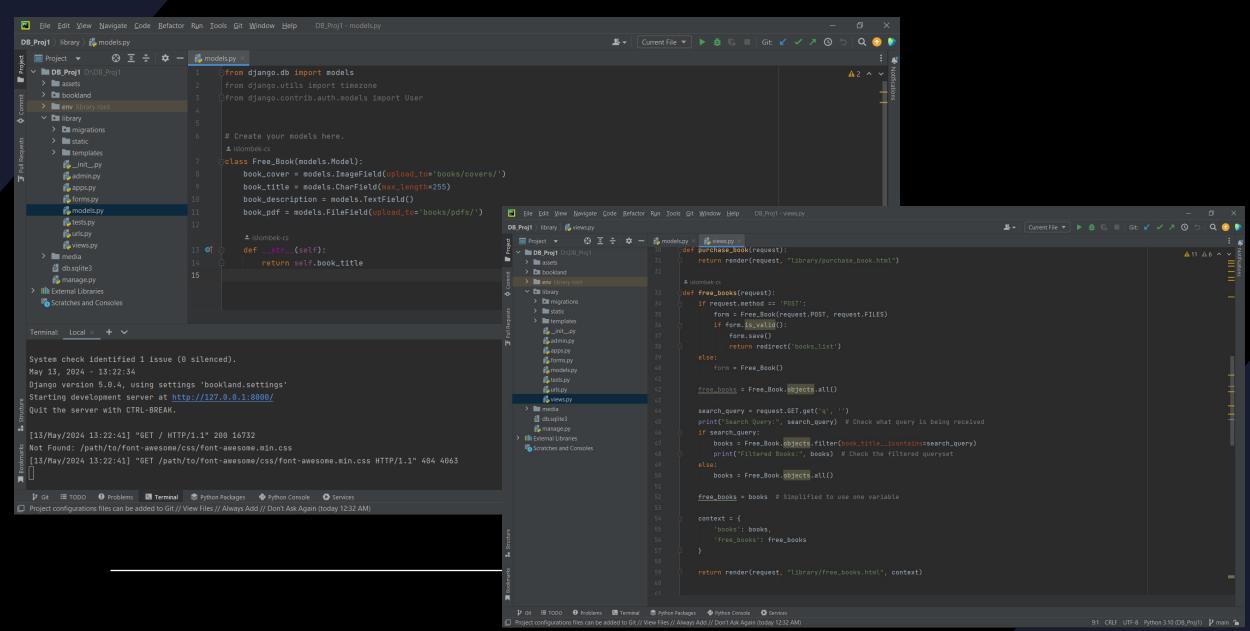
Tools and Technologies

- Languages: Python, JavaScript, HTML, CSS
- Frameworks: Django, BOOTSTRAP,
- Databases: MySQL
- **APIs and Other Tools**: Django Rest Framework, GitHub for version control, and Heroku for deployment.
- Management Tool: Notion, PyCharm, Visual Studio Code

Database Design Schema



Django Model - Book



Development Process & Challenges

Initial Approach

- **Starting Point**: Began the project using Java Spring Boot aiming to leverage its robust framework for managing backend services.
- **Technical Challenges**: Encountered several package errors and configuration issues that hindered progress, leading to significant setbacks.

UI Design Challenges

- **Initial Designs**: Faced difficulties in implementing a user-friendly interface that could efficiently handle the functionalities envisioned for the platform.
- **Solution Strategy**: Conducted multiple design iterations and sought feedback from peers to refine the user interface, focusing on usability and accessibility.

Future Direction

• Implementation of Finding Readers page -> Improving networking between readers

Connecting to AI to find necessary books

THANKS)