Statement of Work

ByteXL-Parul University-Project execution
Last date for uploading-June 12th 2024 -Wednesday

About you and your team, mentor

- **Title of the Project: Managing an Online Book Store**
- **Team Name:** Task Titans
- **Mentor Name:** Neetesh Parashar
- **Team Members:**
  - J. Varun Kumar
  - K. Dheeraj Kumar
  - K. Manikanta Vinayak
  - A. Vinay Kumar
  - A. Charan Kumar
- **Project Lead: Varun Kumar**

Brief summary of your project

The most general goal of the project managing an online bookstore is to create a new concept of online bookstore that create a better interface and better experience for buyers and sellers. This is a friendly and responsive website friendly to its users. This platform offers the authorized and widespread books.

Project Scope

- Developing an online selling strategy for books targeting small book shops that would make it easy and fun to shop.

- The main features accessible for the users are, login, book's list, shopping cart, orders management, rating and review system, recommendatory system and security.

Work Breakdown Structure

- Varun Kumar - Team Lead / Backend Support / Database Management

- Vinay Kumar - Backend Developer

- Manikanta Vinayak - Frontend Developer

- Dheeraj Kumar- Frontend Support

- Charan Kumar - Documentation and Backend Support
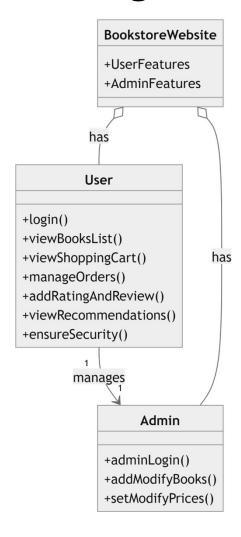
Milestones

Managing a Book Store

- Finalize project goals, objectives, and team roles

- Gather and document detailed requirements

- Maintain software requirement specifications document in Documentation process

- Develop and approve the project plan and timeline

- Review and finalize design prototypes

- Complete development of user interfaces

- Complete development of server-side logic

- Complete unit testing for all modules

- Test interactions between different system components

- Perform testing with actual users and stakeholders

System Design / Architecture

Technologies:

- Frontend and Backend web development using HTML, CSS, Bootstrap, JavaScript, and server-side frameworks like Flask .

- Database: MySQL, Sqlite3 for its flexible schema and scalability.

- Frontend: React for building a dynamic and responsive user interface.

System Design / Architecture

BookstoreWebsite

+UserFeatures
+AdminFeatures

has

User

+login()
+viewBooksList()
+viewShoppingCart()
+manageOrders()
+addRatingAndReview()
+viewRecommendations()
+ensureSecurity()

has

1
manages
1

Admin

+adminLogin()
+addModifyBooks()
+setModifyPrices()

System Requirements

- **Server:** A reliable server for managing the traffic, memory, storage and processing power.

- **Operating System:** A reliable OS for application to work on.

- **Database:** A data base system to maintain all the data about books and customer data.

- **Security Software:** Firewalls and security measures to protect user data .

- For example, for deployment purpose we can go for free available resources like Replit.

Deliverables

- E-commerce Website

- Shopping Cart & Checkout

- Order Management System

- Inventory Management System

- Project Documentation

- Source Code

All user requirements

- Account Management

- Browsing and searching

- Product Information

- Shopping cart

- Checkout

- Order Tracking

- Ratings and Reviews

- Notifications

- User Support

- Security and Privacy

Functional requirements

- User Registration and Authentication

- Role based access control

- Book listing

- Stock management

- Help centre

- Feedback and complaints

- Responsive Design

List of all inputs

User Inputs

•**Login:** Username, Password

•**View Books List:** Search, Filter options, Sort options

•**Shopping Cart:** Book selection, Quantity selection, Update cart (add/remove books)

•**Orders Management:** Order placement, Order cancellation, View order history

•**Rating and Review System:** Book rating, Review text

•**Recommendation System:** User preferences, Browsing history, Purchase history

•**Security:** User credentials, Security questions/answers

Admin Inputs

•**Admin Login:** Admin username, Admin password

•**Add/Modify Books:** Book details (title, author, price, description, category, stock quantity), Book images

•**Set/Modify Prices:** Book selection, New price

List of all outputs

User Outputs

•**Login:** Login success/failure message, User dashboard

•**View Books List:** List of books, Book details (title, author, price, rating)

•**Shopping Cart:** Updated cart contents, Total price

•**Orders Management:** Order confirmation, Order status updates, Order history details

•**Rating and Review System:** Confirmation of rating/review submission, Display of user reviews

•**Recommendation System:** Recommended books list

•**Security:** Security alerts, Account recovery options

Admin Outputs

•**Admin Login:** Admin dashboard

•**Add/Modify Books:** Confirmation of book addition/modification, Updated book list

•**Set/Modify Prices:** Confirmation of price update, Updated price display

Schedule and Delivery plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Version 1 Document	■							
Statement of Work		■						
Design			■					
Forntend Development				■				
Backend Development					■			
Testing						■		
Review							■	
Modifications and Adjustments								■