

SOFTWARE DEVELOPMENT

1.ONE PAGER REPORT

Title: Online Bookstore Management System

Objective: The objective of this project is to develop an Online Bookstore Management System that allows customers to browse and purchase books online, and provides an easy-to-use administrative interface for managing inventory, orders, and customer information.

Features:

- User Registration and Authentication: Users can create accounts, log in, and manage their profiles.
- Book Catalog: Display a comprehensive list of books with details such as title, author, description, price, and availability.
- Search and Filtering: Allow users to search for books based on title, author, genre, or keywords, and provide filtering options to refine search results.
- Shopping Cart: Users can add books to their shopping cart, view cart contents, update quantities, and proceed to checkout.
- Order Management: Admins can process orders, update order statuses, and generate order reports.
- Inventory Management: Admins can add new books, update book information, and track stock levels.
- User Reviews and Ratings: Users can leave reviews and ratings for books they have purchased.
- Payment Integration: Integration with a secure payment gateway to facilitate secure online transactions.
- User Notifications: Send email notifications to users regarding order confirmations, shipment updates, and promotional offers.

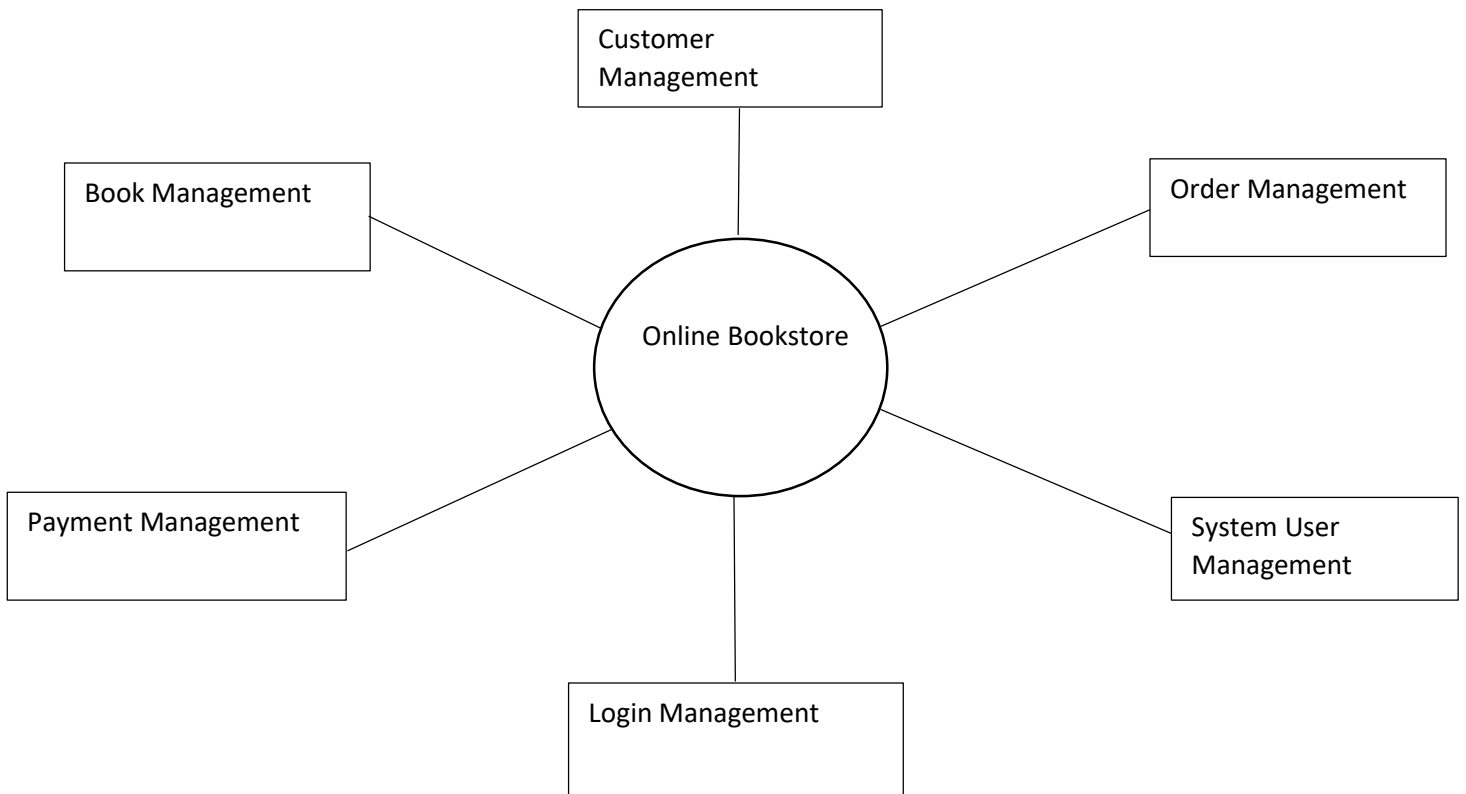
In conclusion, the Online Bookstore Management System is a project aimed at developing an efficient and user-friendly platform for customers to browse and purchase books online, while providing administrators with tools to manage inventory, orders, and customer information. The project involves various features such as user registration, book catalog, search and filtering, shopping cart functionality, order and inventory management, user reviews and ratings, payment integration, and user notifications.

2.Pick an appropriate software engineering methodology

For the development of the Online Bookstore Management System, we will adopt the **Agile software engineering methodology**. Agile methodology emphasizes iterative development, collaboration, and flexibility, which aligns well with the dynamic nature of the project requirements. By following Agile

practices, we can deliver incremental updates and gather feedback from stakeholders throughout the development process, ensuring a high-quality end product.

3.Context Models



4.Interaction models

Customer Registration

- Enter registration details.
- Validate reg. details.
- Confirm successful registration.

Book search and Order

- Search for books.
- Retrieve matching books.
- Select book for purchase.
- Validate availability of book.
- Place order.
- Process order and update inventory.
- Send Order Confirmation.

Order Tracking

- Access account.
- Retrieve order history.
- Select order to track.
- Provide Real time tracking information

Customer Feedback

- Access account.
- Select order to provide feedback.
- Display order details.
- Submit feedback and rating.
- Update feedback in database.

Administration Management

- Log into the system.
- Authenticate credentials.
- Access management functionalities.

5.STRUCTURAL MODELS

