



PES University, Bengaluru

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Department of Computer Science & Engineering

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UE19CS353 – Object Oriented Analysis and Design with Java

Theory ISA (Mini Project)

Report on

Online Book Store

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6th Semester I

1. Project Description:

ONLINE BOOK STORE

Online book store is a web application to allow users to select books through internet.

User can view all the books in the application.

Users can search books by name.

Login and registration for the user.

Users can buy any book with online payment.

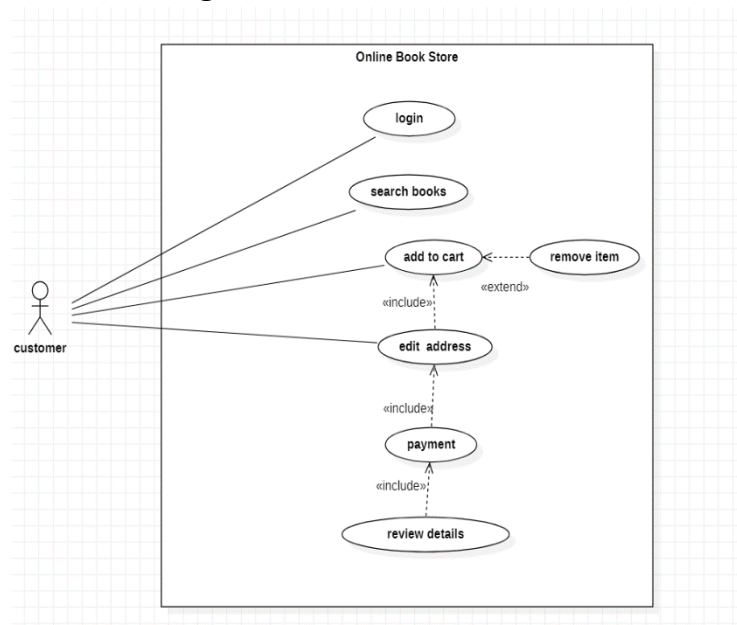
User can make the payment through COD

User can recheck the their address details

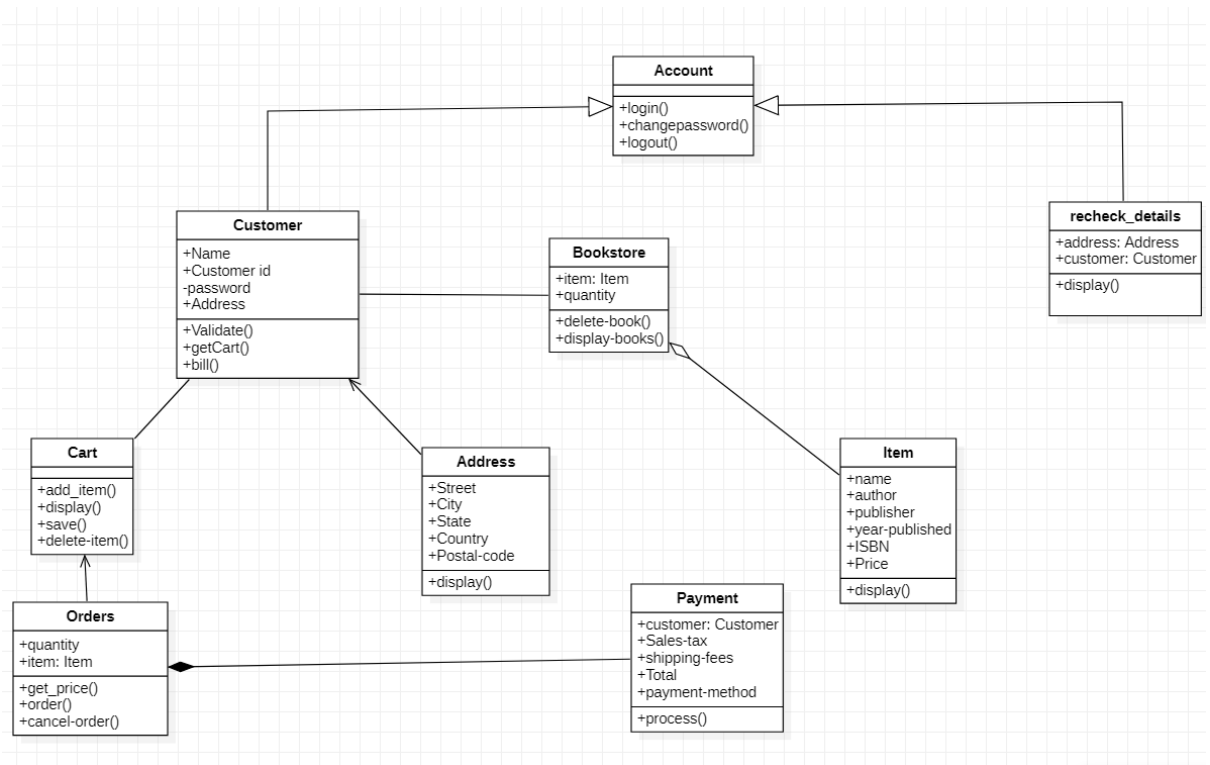
https://github.com/Thru2/ooad_project_online_bookstore

2. Analysis and Design Models

Use case diagram:

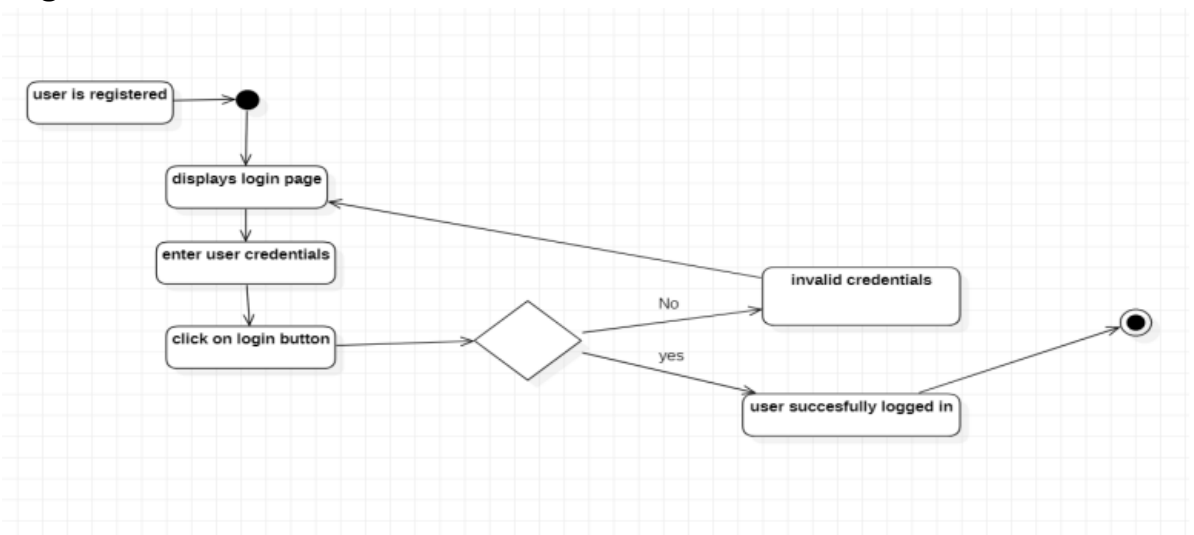


Class diagram:

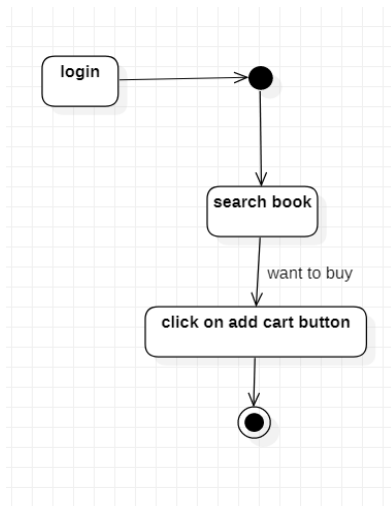


Activity diagram :

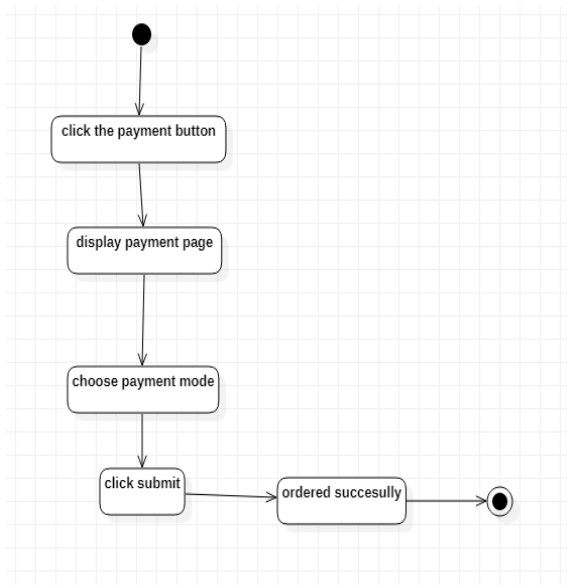
Login :



Add to cart:

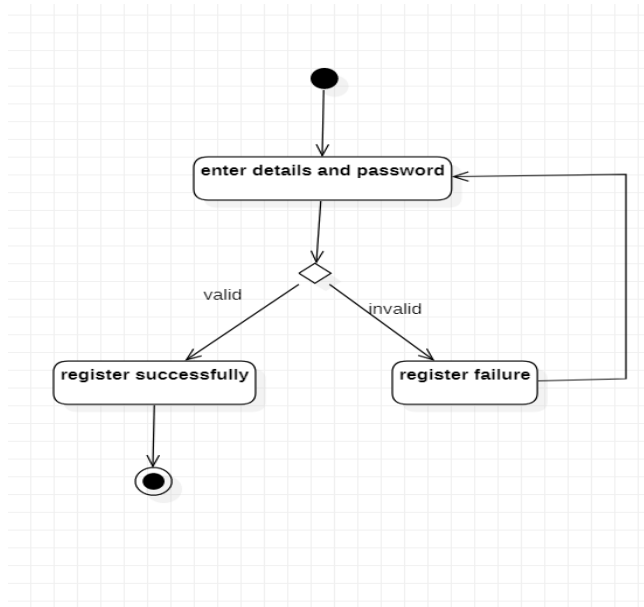


Payment :

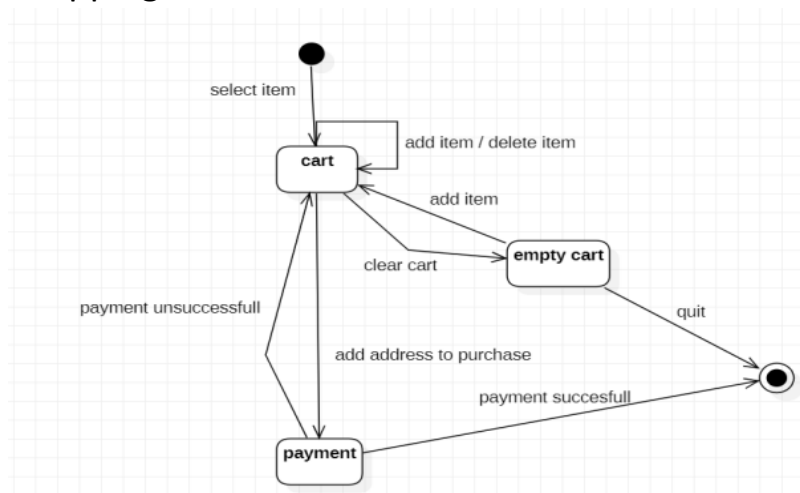


State Diagram:

1) Register :



2) Shopping cart:



3. Tools and Frameworks Used

Framework used:

Swing : it is used to create window based application which makes it suitable for developing lightweight desktop application.

Database used:

Postgres: PostgreSQL is used as the primary data store or data warehouse for many web, mobile, geospatial, and analytics applications

4. Design Principles and Design Patterns Applied:**SRS (Single responsibility Principle):**

All the classes present have single responsibility.

Ex : Signup class has signup page responsibility only.

Open close principle :

Open for extension closed for modification.

Ex : the class home extends JFrame but never modifies JFrame class.

Singleton design pattern :

All the pages/functionality uses the same instance of customer and there can one unique object customer at any given time.

5. Application Screenshots (3-4 important pages)

Register page:

Online Book Store

SignUp

Name

Email

Phone No.

Password

Retype Pass

Address

Alread have an account [Login](#)

Home page:

Online book Store

Cart

Ramya

Signout

Search

Book Name

book-1

Author

author-1

Book Name

book-2

Author

author-2

Book Name

book-3

Author

author-3

Cart page:

Online book Store

Cart

Books	Price	Quantity	Total_Price
book-1	200	1	200
book-5	400	1	400

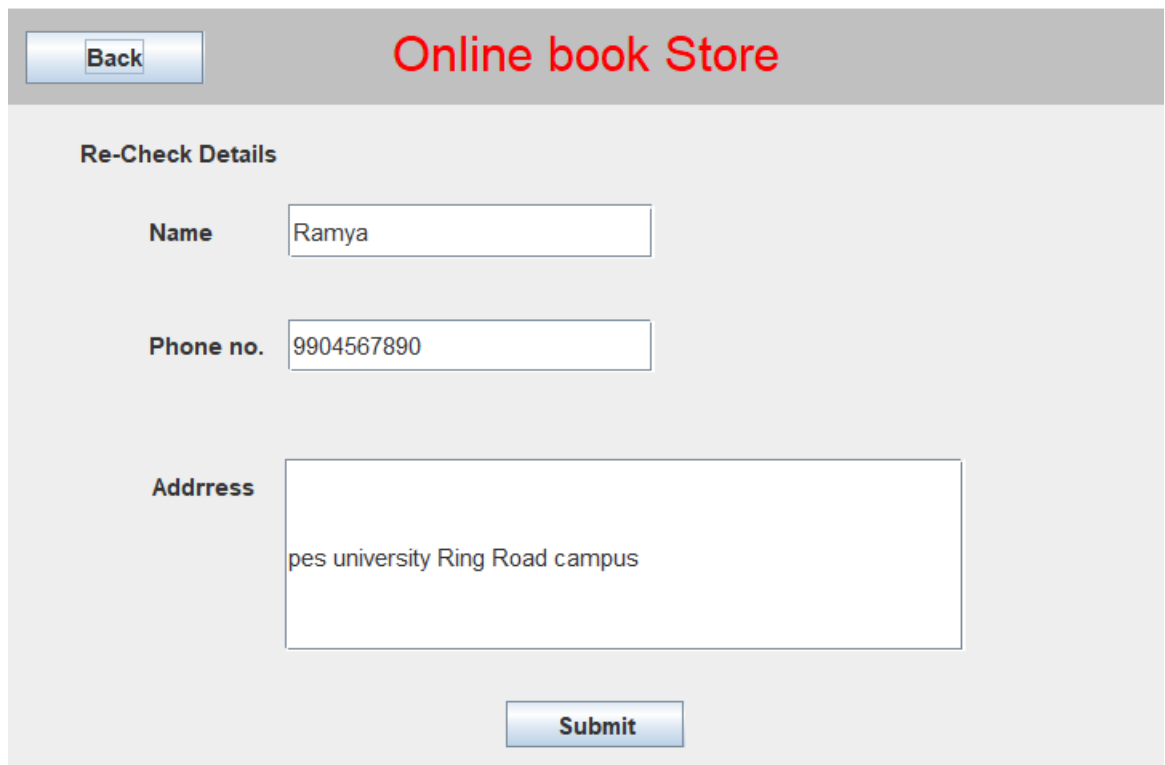
Total Amount: 600

Add Books

Remove Book

Buy Now

Recheck details page:



[Back](#) **Online book Store**

Re-Check Details

Name

Phone no.

Address

[Submit](#)

6. Team member contributions

Thrupthi - Home and cart

Uma - Confirmation and recheck.

Sourabh - Signup and registration.