**Lab Tasks 05**

**Q.Draw Robustness Diagram of the following:**

**1. Use-case: Checkout**

Basic or Normal Flow: The system displays the edit shopping cart page. The user clicks the checkout button; the system retrieves the delievery addresses already registered for this user, and then displays the delievery address page. The user selects the address to use from the customer address list selector, and clicks the select button. The system sets the delievery address in order.

**2. Use-case: Show Book Details**

Basic Flow: The customer types in the URL for the bookstore’s homepage. The system displays a list of books from the catalog on the homepage, in the form of clickable links. The customer clicks a link on the homepage, and the system retrieves the book details for the selected book and displays them on the Book Details page.

Alternate Courses: Book Not Found; the system displays a Book Details Not Found page

**3. Use-case: Create a New Customer**

Basic Flow: The system shows the Customer Details page, with a few default parameters filled in. The user enters the details, clicks the Create button; the system validates that all the required fields have been filled in; it also validates that the customer name is unique, and then adds the new Customer to the database. The system then returns the user to the Customer List page.

Alternative Course: Not all the required fields were filled in. The system informs the user, and redisplays the Customer Details form with the missing fields highlighted in red, so that the user can fill them in.

Alternative Course: A customer with the same name already exists. The system informs the user, and gives them the option to edit their customer details or cancel.

**4. Usecase: Write Customer Review**

Basic flow: The customer clicks the write review button for the book currently being viewed, and the system shows the write review page. The customer types in a book review, gives it a book rating out of five stars, and clicks the send button. The system ensures that the book review isn't too long or short, and that the book rating is within 1-5 stars. The system then displays a confirmation page, and the review is sent to a moderator ready to be added.

Alternate flow: User not looged in: The user is first taken to a login page and then to the write review page once they have logged in.

The user enters a review which is too long (text >1mb): The rejects the review and responds with a message explaining why the review was rejected.

The review is too short (<10 characters): The system rejects the review.