Online Bookstore Application

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Intern - Java Batch

Project Overview :

❖ Develop an online bookstore application that allows users to browse and purchase books.

❖ The application will consist of a backend developed with Java Spring Boot and a frontend built using Angular.

Project Tasks :

1. Backend Setup:

   ❑ Create a Java Spring Boot application with Spring Data JPA for managing book data.Define a Book entity with attributes like title, author, price, and availability.

2. RESTful API Development:

   ❑ Implement RESTful endpoints to retrieve a list of books, view book details, and place orders.Handle inventory updates when orders are placed.

3. Frontend Development (Angular):

   ❑ Create an Angular application for the frontend.Design user interfaces for browsing books, viewing book details, and managing the shopping cart.

Project Tasks :

4. User Authentication:

❑ Implement user registration and login functionality using JWT (JSON WebTokens).

❑Secure sensitive endpoints such as order placement and user profile.

5. Shopping Cart Management:

❑ Allow users to add and remove books from their shopping cart.

❑ Display the total price and enable users to proceed to checkout.

6. Order History:

❑ Develop a user dashboard that shows order history and order details
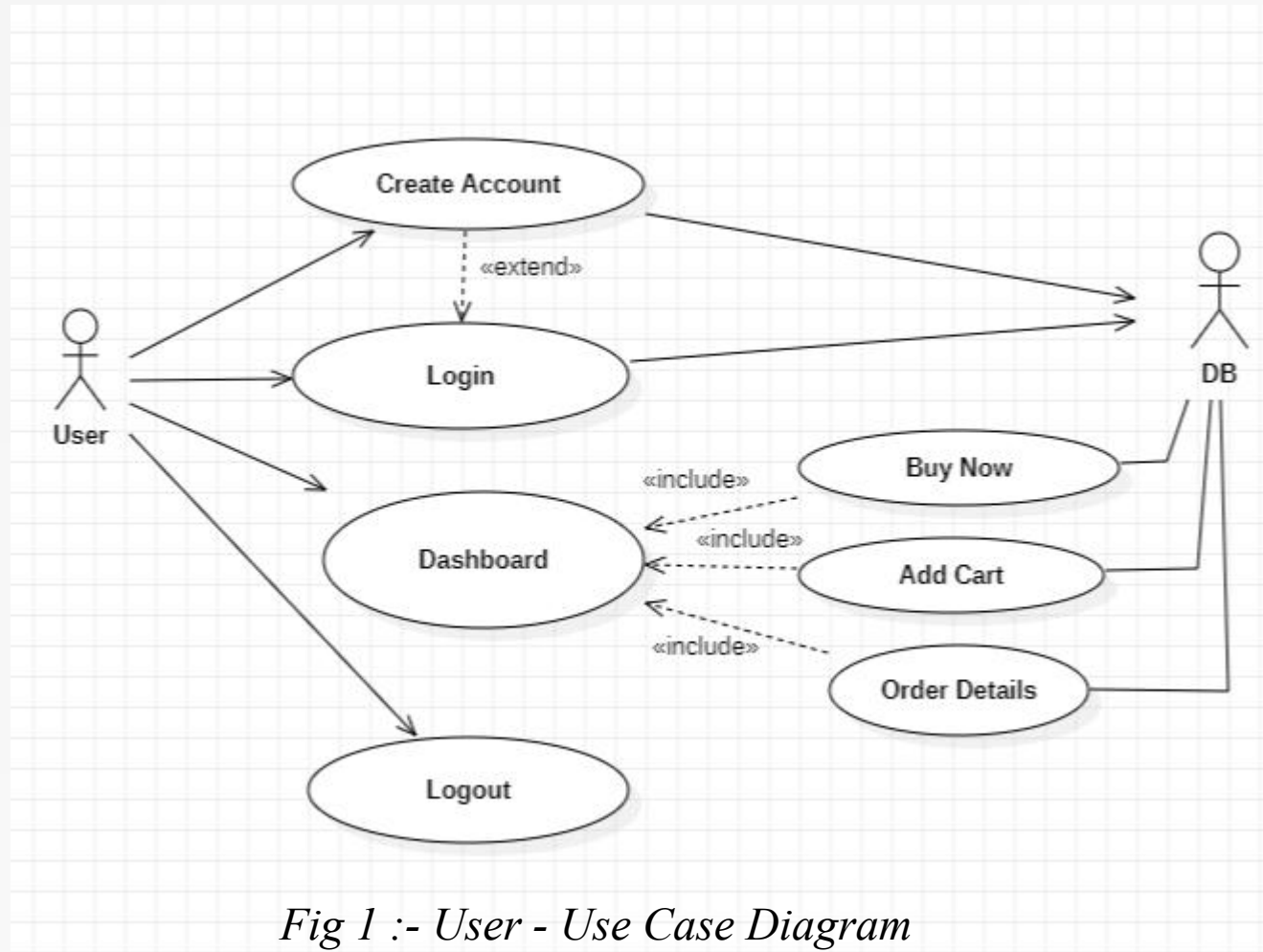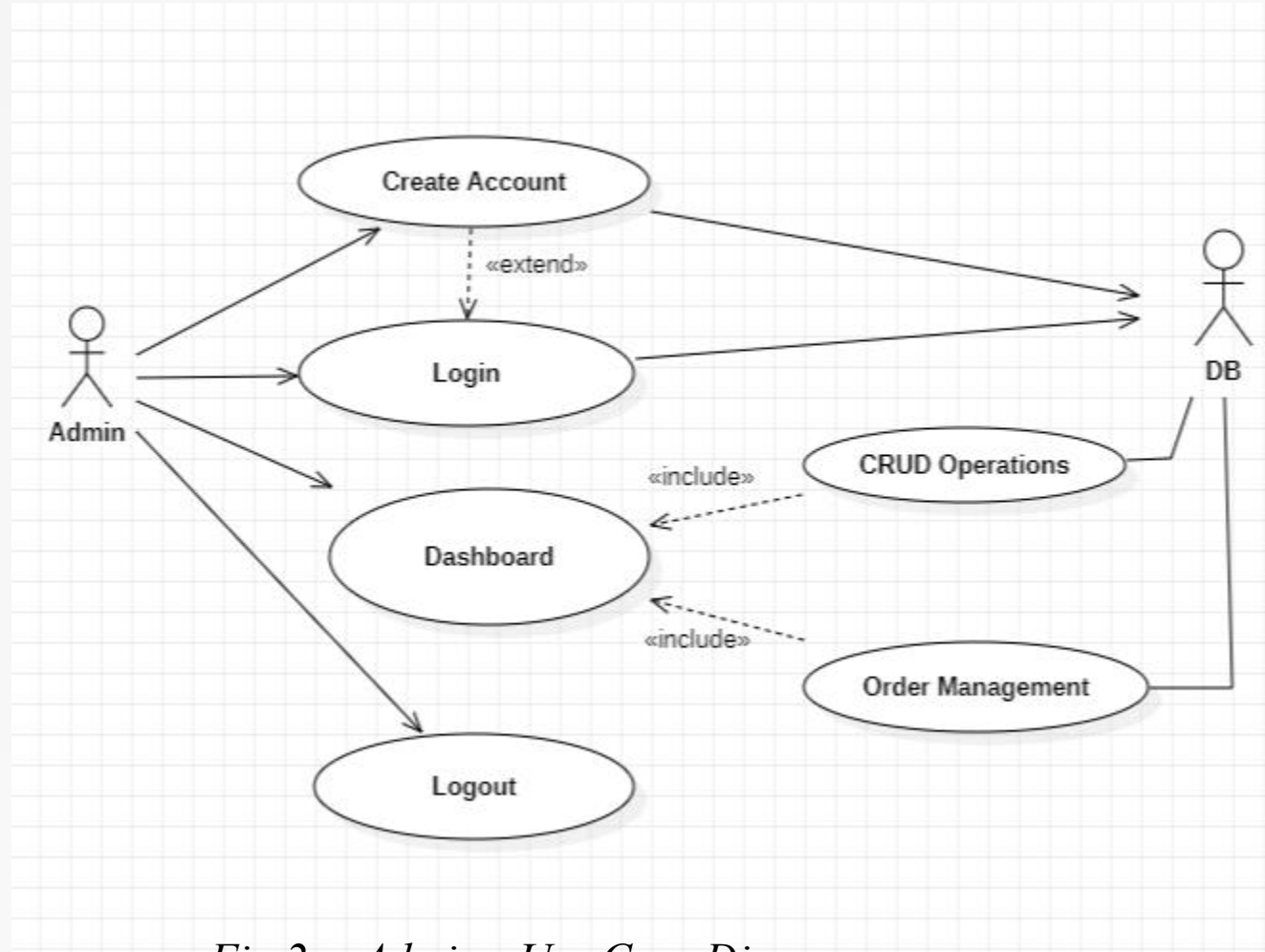
Technology Stack :

Front-End :

API Dev Tool:

HTTP Client Module

Back-End :

Database :

Use Case Diagram - User :

Fig 1 :- User - Use Case Diagram

Use Case Diagram - Admin :

Fig 2 :- Admin - Use Case Diagram

Project Outcome :

❖ Upon completing this project, you will have built a functional online bookstore application with a Java Spring Boot backend and an Angular frontend.

❖ This project will provide you with hands-on experience in full-stack development, RESTful API design, user authentication, shopping cart management, and building interactive user interfaces.

Thank you :)