

Term Project -25%

Develop a E- Commerce Application for a Book Store

Project Title:

E-Commerce Application for [Restaurant Name]

Project Scope:

Develop an **E-Commerce application for a Book Store** utilizing modern web technologies. The application **must** include a Home Page, a Detailed Page for each product, and a Shopping Cart functionality. The use of **React** for the frontend, Node.js with Express for middleware, and either MongoDB or a real-time database like Firebase/Supabase for the backend database is required.

Store the data in the Backend Database (that is the best option) Otherwise use a JSON File to store the data. Do not use arrays to store the data

Guidelines:

Do not download or present completed projects from external sources to avoid plagiarism.

Be prepared to explain and modify code blocks during evaluation.

Key Features:

Home Page (Landing Page – a Must):

Display a list of products.

Each product should have an image, description, price, and relevant properties.

Detailed Page: a Must

Clicking on a product image leads to the detailed page.

Display a larger image, description, price, and a button to add the item to the shopping cart.

Shopping Cart: a Must

Add, remove, and modify items in the shopping cart.

Display proper calculations in the shopping cart.

Payment gateway implementation is not required.

Additional Features

Authentication – using JWT or similar

Note : Any Project Downloaded from internet OR gitHub AND Members cannot answer the questions related to the project in Week 15 Viva will not get any mark. Everybody in the group must be able to explain everything about your project

Project Report:

Introduction and Project Scope:

Provide an overview of the project and its objectives.

Technologies Used:

Specify the technologies employed, including React or Angular, Node.js with Express, and the chosen database.

Project Timeline and Milestones (Gantt Chart):

Outline the timeline and milestones for the project development.

User Interface Design:

Include wireframes or sketches of the user interface.

Important Code Blocks:

Highlight key code blocks with brief explanations.

Programming Techniques:

Discuss programming techniques used, such as the MVC pattern.

Output Screenshots:

Include screenshots of the application's output.

Input Screenshots:

Showcase screenshots of input screens.

Database Interactions:

Include screenshots and descriptions of interactions with the database.

Issue Resolution:

Document any encountered errors and describe how they were resolved.

Submission:

Upload the project code to Blackboard, excluding the "node_modules" folder.

Submit the project report alongside the code.

Note : Should not use the code i have given for sample applications for your project. But you can get ideas from those