

The University of Lahore, CS&IT Department

Web Engineering Lab Project

Project Viva 13/06/2025

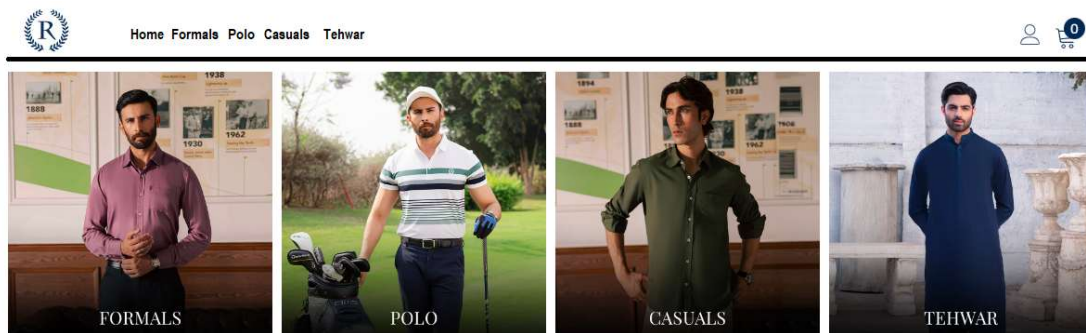
Total Marks 15

Design an E-commerce website, which consist on the four (4) Modules. Modules working detail is described below

1. Main Page – Multiple Items Display

A MainPage component is responsible for rendering a list of product categories or main items. Each main item (e.g., “Shoes”, “Watches”, “Phones”) is represented by an ItemCard and lead to ItemPreview component (Item List Page).

These item cards include a View More button that links to a dedicated item page or you can press item cards image to move item page using React Router (e.g., /item/shoes).



2. Item List Page – Multiple Item Types

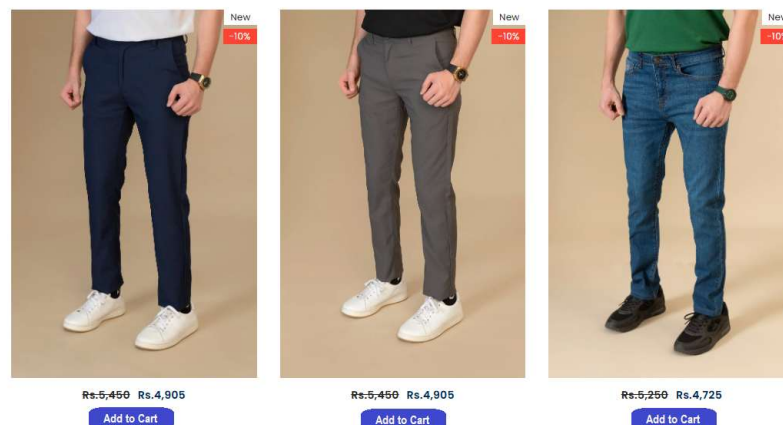
You are building the item detail page as follows:

It displays subtypes or variants of a selected item (e.g., different types of shoes).

Each type is shown using a component like ItemTypeCard, with details like size, color, price, and "Add to Cart" button.

Data is fetched dynamically based on the selected item category (e.g., shoes → list of shoe variants).





Each Item in ItemTypeCard has an 'Add to Cart' button



3. Shopping Cart – Cart State Management

The Cart component displays added items, including quantity, total price, and remove options. The cart updates dynamically as items are added/removed.

Persist cart data using Firebase/Firestore

YOUR CART						
PRODUCT		PRICE	QUANTITY	TOTAL	ORDER SUMMARY	
	Jeans - JMS250174-BL				Subtotal	Rs.9,630
	30 / Blue / Smart Fit  Royal Tag	Rs.5,250 Rs.4,725	- 1 +	Rs.4,725 X		
	Chino - RTC5250335-NY				TOTAL:	Rs.9,630
	30 / Navy / Smart Fit  Royal Tag	Rs.5,450 Rs.4,905	- 1 +	Rs.4,905 X		

4. Login – User Authentication and Cart History

You are building the login and Cart history system as follows:

A Login component handles user sign-in using firebase authentication (or OAuth).

Cart will display, previous selected item history in Cart.

Important Points:

- Each Module Marks are divided equally but Module styling and Items information will be marked more.
- Bottom and sidebar create your design more attractive
- Practice of last assignment and this project will help you to attempt final paper.