

BestBuy (Online retail store)

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- Project Scope:

This project's scope is to develop and deploy an end-to-end application for an online retail store like Big Bazaar. This application will serve the needs of both customers and retailers. This will help the retailers maintain the inventory through database system like products, quantity, price, expiration date, and other attributes of items in the inventory. The application will make it easy for users to navigate through items in the inventory and process their queries, such as adding to a cart, managing the user's profile, using discount coupons, and confirming the order.

Apart from this, the database system will serve the purpose of secure login, handling payments, generating invoices, and storing information about employees, orders, and customers.

- Technical requirements:

- The login details should be valid to ensure the safety of the application.
- It needs to be made sure that customers can only access functionalities related to users' privileges and not the retailer or admin functionalities. Similarly, retailers should be able to access only retailer-related functionalities. The modification of information, such as order details and payments, should not be accessible to any stakeholder.
- It needs to be made sure that input in data fields such as Username is valid. For example, no special characters should be present in the Username data field.

→ Tech stack:

Front-end: HTML, CSS, ReactJS, Bootstrap

Back-end: MYSQL, NodeJS

- Functional requirements:

- Signup/Login:- Retailers and customers need to signup/log in to the application using their email and password. This will make the application secure.

- Product Listing/Removal: The retailer needs to list/remove the product and its attributes, such as product name, price, quantity, etc.
- Profile management: Both the retailer and users can maintain their profiles.
- Browsing through products: The user should be able to browse the products easily.
- Adding/Removing products to/from the cart: The user should be able to add/remove products from the cart.
- Cart Checkout: The user should be able to check out once they finish shopping.
- Payment gateway: After checkout user should be redirected to the payment gateway, which takes payment in one or more ways, and the system should ensure payments at the atomic level.
- Invoice/bill: An invoice should be generated upon full payment.
- Track order: The user should be able to track their order and order details.
- Order cancellation: The order can be canceled with no/partial/full payment depending upon the order's status at the time of cancellation.
- Customer support: The user's problems should be addressed through a chatbot/assistant.