

317 Project - Ekart - Description

Team members

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Overview of application :

Our project aims to develop an E-commerce web application similar to Amazon, which will provide users with features such as product listings, search functionality, and user account management. Users will be able to create accounts and manage their personal information, track their orders, and leave product reviews. Similarly vendors can add products and view customer reviews. The application will have multiple user roles, including buyers, vendors.

Users :

The main classes of users of our application will be buyers, sellers, and administrators. Buyers will be able to browse products, add them to their cart, and make purchases. Sellers will be able to manage their inventory, add new products, and process orders.

Data to be stored :

The main entities that we will need to keep information about are products, users, and orders. For products, we will need to store information such as product name, description, price, and quantity in stock. This info will be updated when Buyers make purchases or when Sellers add to inventory. For users, we

will need to store personal information such as name, address, and payment information. For orders, we will need to store information such as the items purchased, the total cost, and the shipping information.

Assignment Structure:

Backend :

s name, address, and payment information. For orders, we will need to store information such as the item

UI :

Based on React. We will create responsive UI and stylize using material UI.

Navbar: Shopping cart, Profile, Searchbox

Home Page: Where there are some random products/ based on previous purchases
Dashboard/profile Page: Admins and sellers will have access to a dashboard page where they can manage their products, orders, and other account details.
Product Views: Users will be able to view product details, including descriptions, images, prices, and reviews. with ui for order placement.

Other Aspects :

Test Data :

we web scraped few products off amazon

Security :

we used sessions to protect pages

First let's start off with the tables we are maintaining in the database

1. buyer_password table

- a. which consists of user and password fields
- 2. product_info table
 - a. here we have info about product i.e product name , product photo id, discount price, selling price and then merchant name, merchantid
 - b. we are storing image id (not image)
- 3. imageid_image mapping table
 - a. here we store imageid and bytes of the image uploaded by the seller
- 4. we have an order_info table in which we store the orderid,productid and quantity and which user bought it something like that
- 5. we have a stock_table in which the merchants can update the stocks of the existing items and also prices of the existing prices

Pages that we are planning on implementing

- 1. /signin
 - here we have the interface to signin
- 2. /home
 - here the user can surf through products and click on a product to get routed to it's page
- 3. /product/:productid
 - here in the product id the user can add the products to the cart or simply buy a product
 - he can also read ratings given by other people and give rating
- 4. /cart

- for checking out with the items in cart
5. /signup
 - here we have interface for signup where user can register in the site
 6. /profile
 - In this page we will display the previous orders of the user
 7. /logout
 - logout user from the site
 8. /merchanthome - for the merchant to look after his products and read reviews
 9. /addproduct - a page for adding new products only accessible to merchants
 10. /merchantproduct/:productid here we merchant can update the stock and price of the product

Future Works :

- We planned on adding categories for products