

# **React JS**

## **Project Documentation**

**IKEA: Furniture Store Application**

### **Team Members:**

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## **Project Introduction**

We aim to develop a user-friendly Shopping Cart Application for IKEA, a furniture store, to automate online shopping for the customers. This application will have images of the products for the customers to get a preview of it and other necessary details. The application is used by customers and administrators. This is quite a simple tool for everyone to use easily.

## **Project Description**

The Shopping Cart App lets the admin add, delete, modify products, and process the orders received. The customers register and shop by searching for the product based on category, type, etc. To buy the product, the customer should login to the system, search for the product, add to cart, and make the payment. On successful payment, the customer receives the confirmation message of product.

## **Requirements**

- **Technologies Used:** HTML, CSS, JavaScript, Bootstrap, React.JS, Node, JSON Server, Redux, Axios.
- **Usability requirements:** The interface will be simple and user friendly so that any new user can easily understand how to browse and purchase, and existing users can navigate easily.
- **Error Handling:** The application can handle errors by displaying the respective error messages.
- **Security:** Since the application shall contain personal information of each customer like email id, phone number, name, address, payment info etc., accessing and editing privileges will only be given to authorized personnel.
- **Database requirements:** A JSON server will be used to store the data. The same shall be used to delete existing records and add new records.
- **Hardware requirements:** Intel Pentium 4 and above Windows 7, Memory 8 GB

# **Project Modules**

## **Admin**

- Add new products to database.
- Edit the existing products.
- Delete the products that are not needed.
- View All details of products.
- Admin can perform CRUD operations on products data.
- Admin Module is secured; we have authenticated Admin to perform admin activates.

*Components under this module:*

1. Home component
2. Store component (Products) - Admin

## **Customer**

- View all products exists in the products page - customer module
- Browse the products based on the selected category
- Select and view the details of selected products
- Add any product to the shopping cart
- Checkout and go to cart page
- Enter payment details and checkout

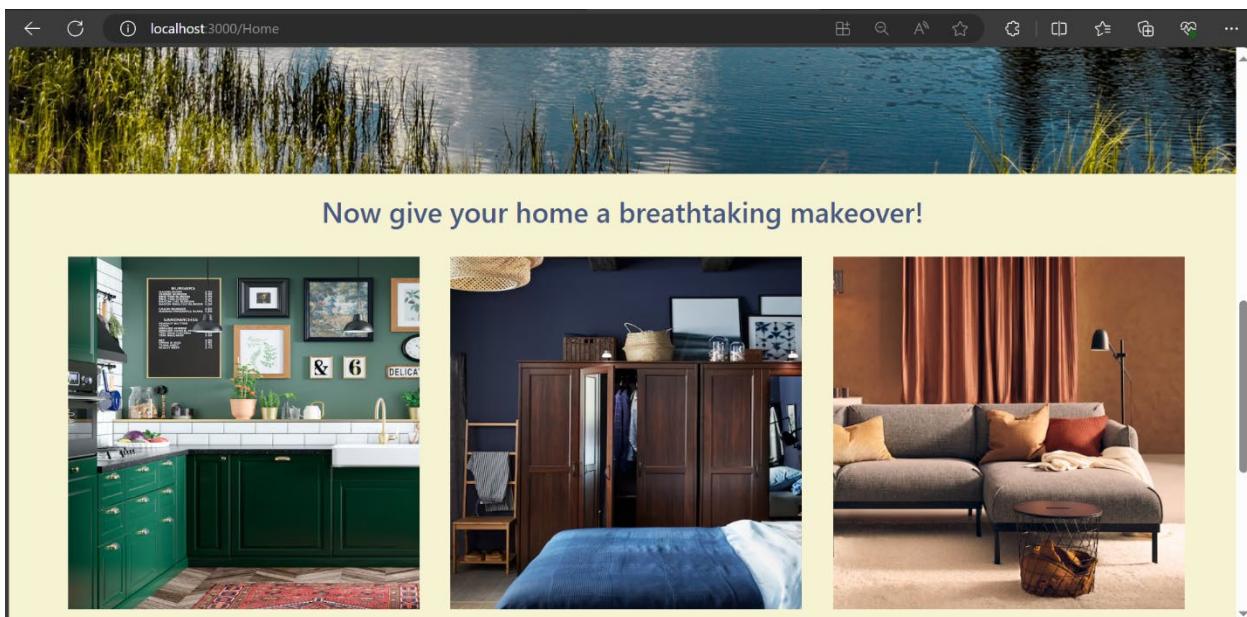
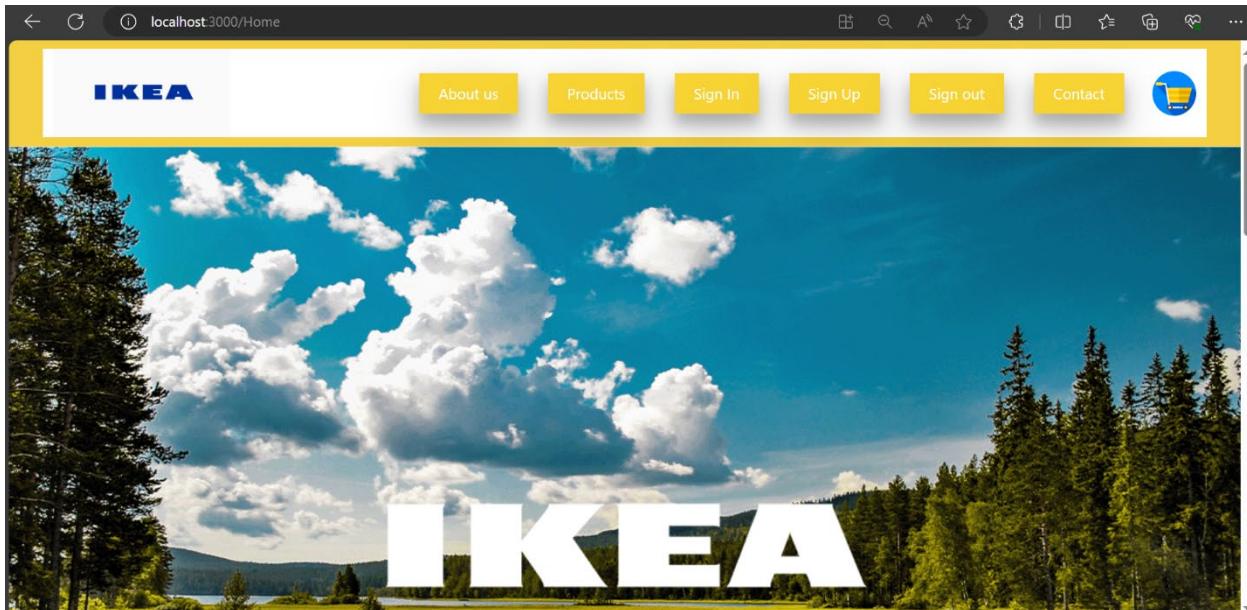
*Components under this module:*

1. Home component
2. Browse component (Products) - Customer
3. Cart component
4. Payment component
5. About Us and Contact Us

# Project Components

## Home Component

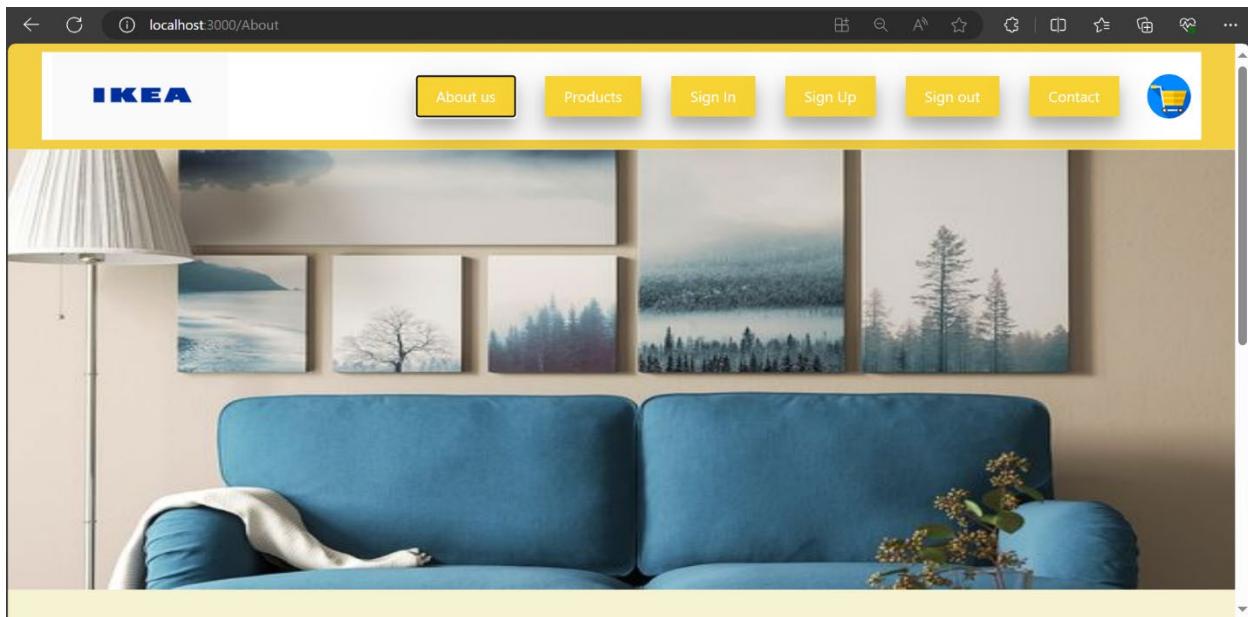
- Welcome page for admin and customers

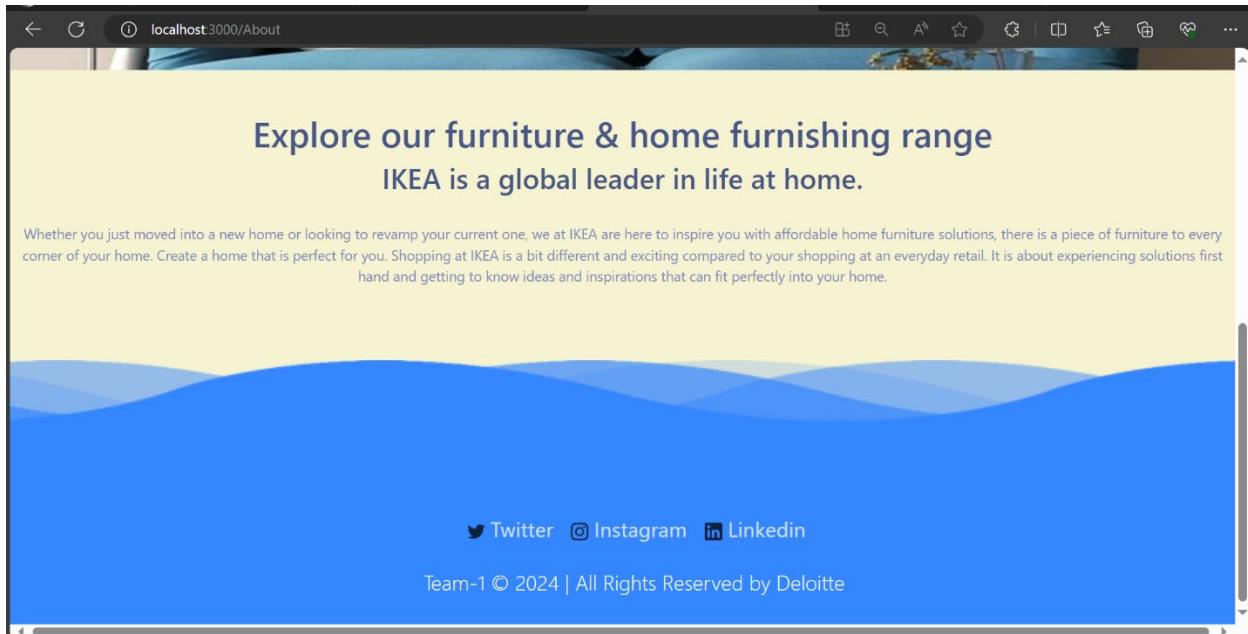




## About Us

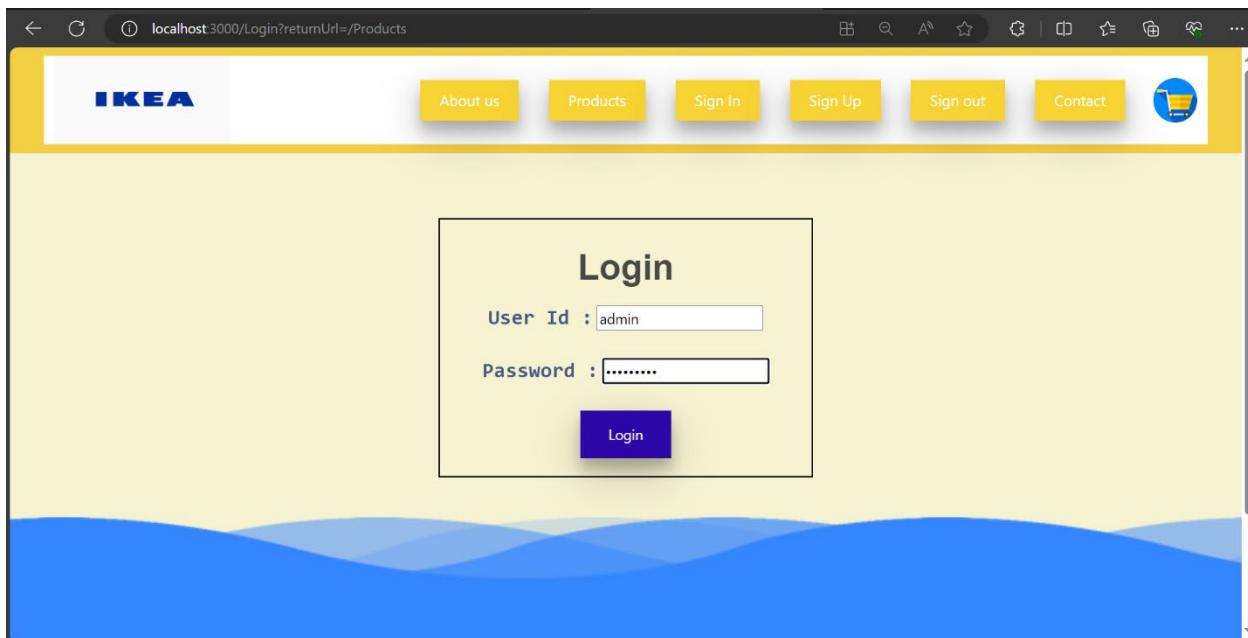
- Information about the store

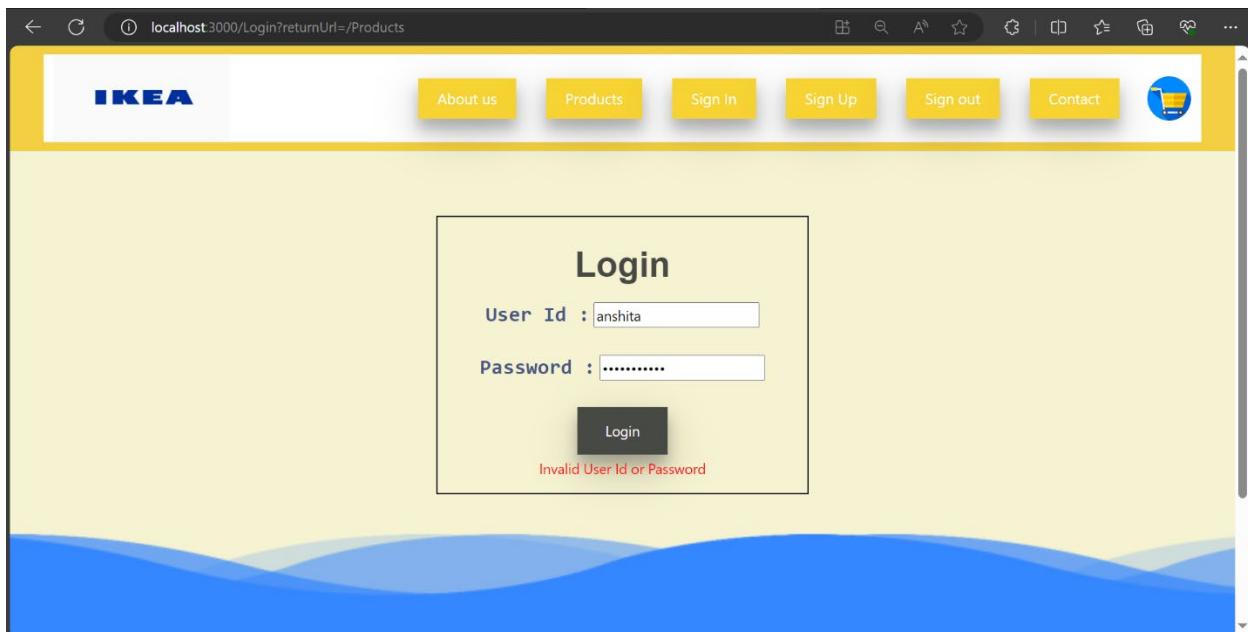




## Login Component

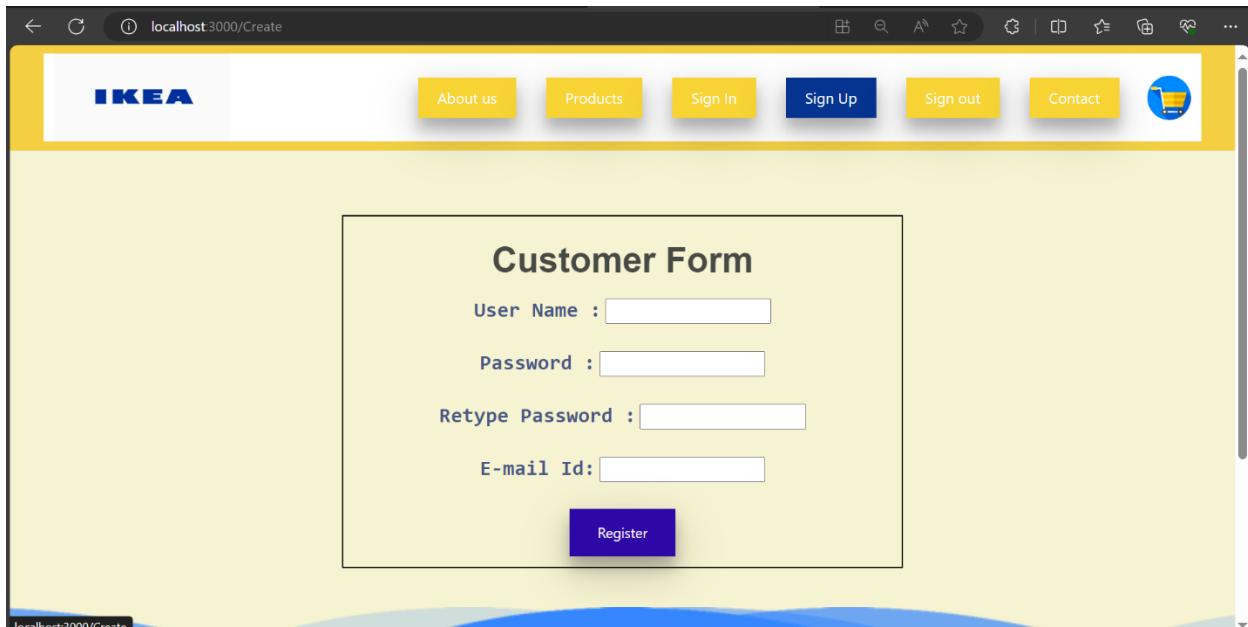
- Only valid users can login - customers - logs in to browse component
- Only valid users can login - admin - logins in to store component





## Sign up Component

- New users should sign up and then login again.



localhost:3000/Create

User Name :

Password :

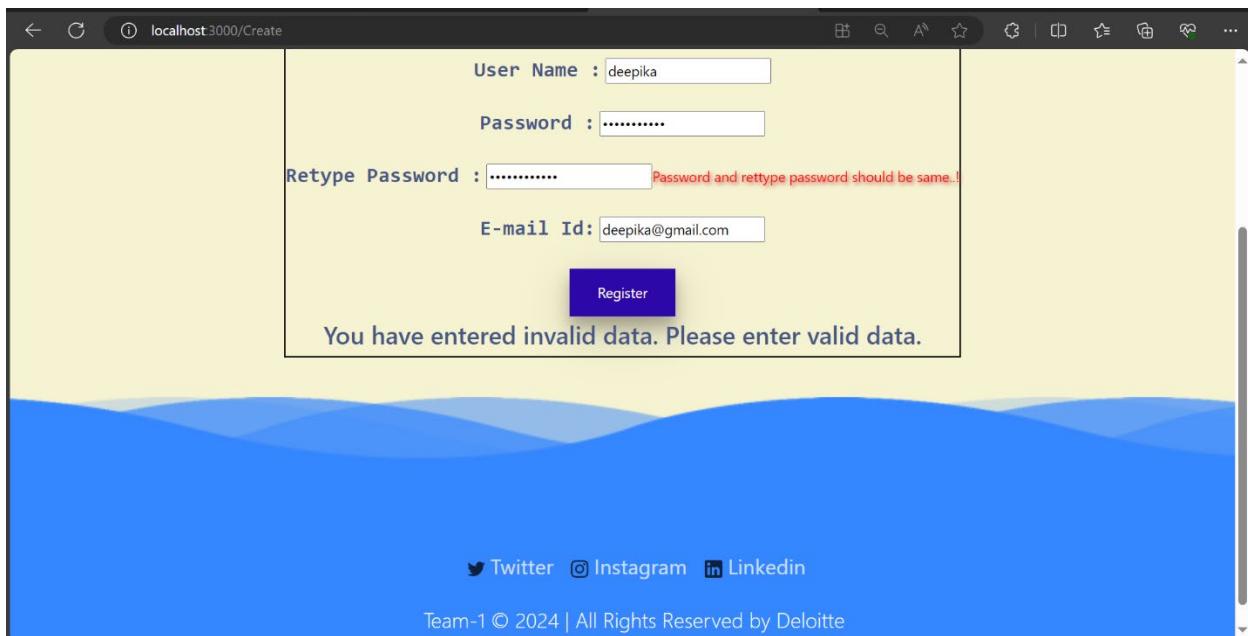
Retype Password :  Password and retype password should be same.!

E-mail Id:

You have entered invalid data. Please enter valid data.

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localhost:3000/Login

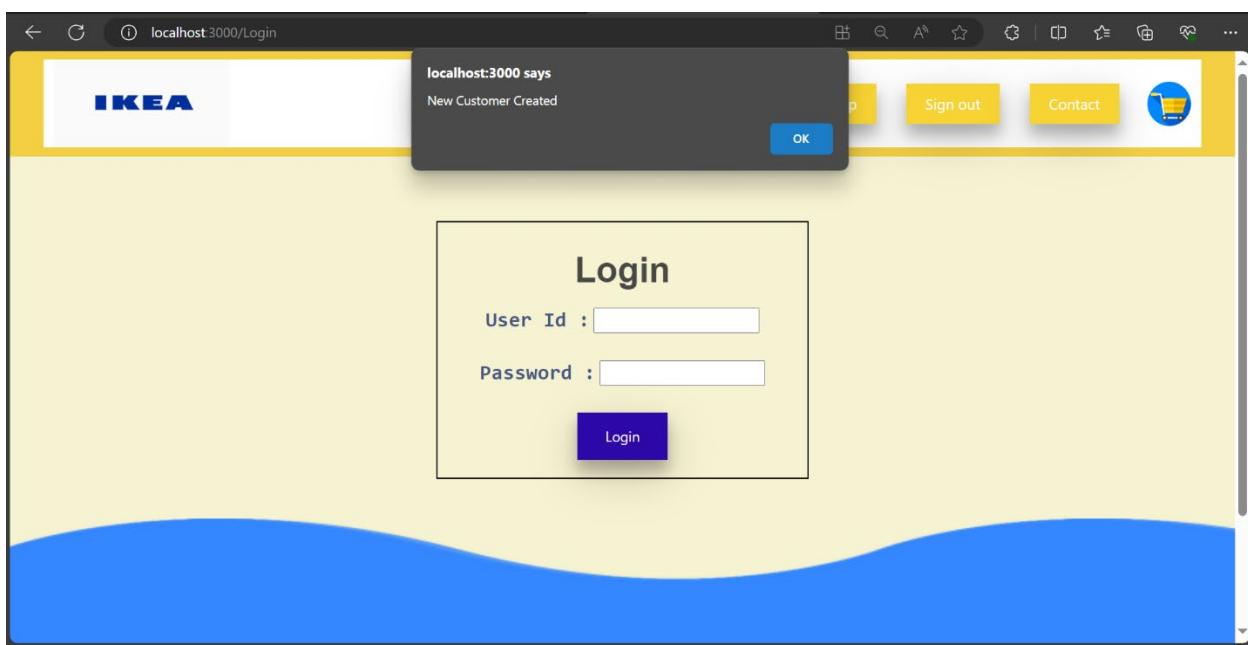
IKEA

localhost:3000 says  
New Customer Created

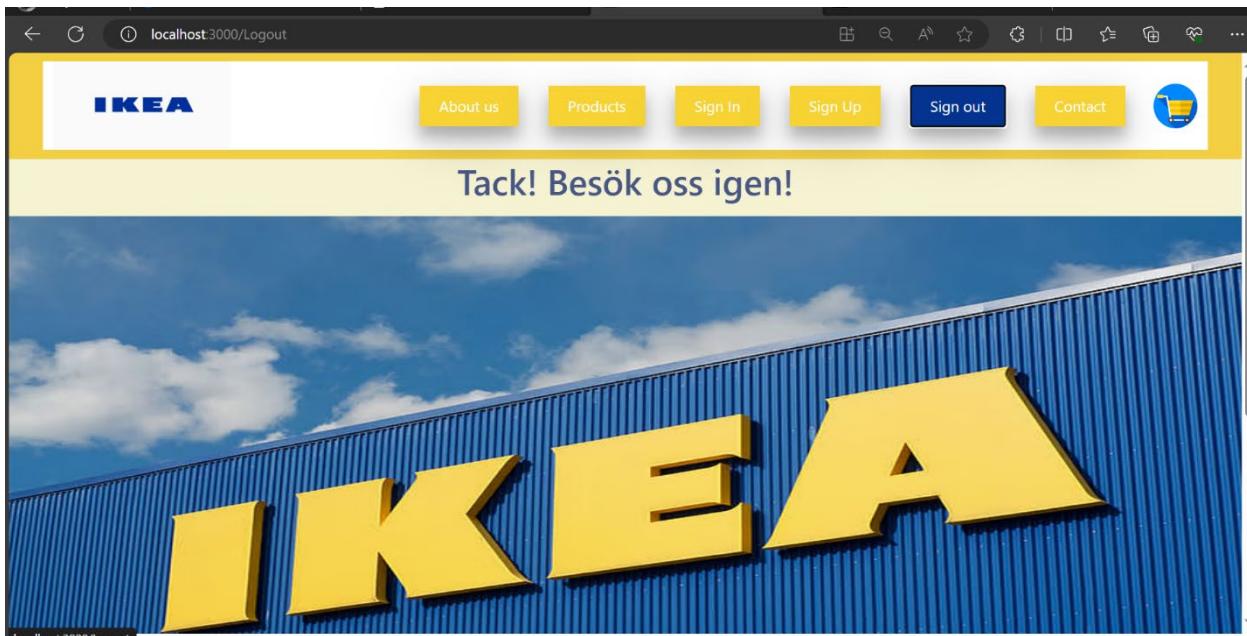
Login

User Id :

Password :



## Sign out Component



## Store Component

- Add or delete products as per availability
- User can select any product and add to cart

Screenshot of the Admin Page for Adding Products:

The page title is "Admin Page for Adding Products". It features a header with the IKEA logo and navigation links: About us, Products, Sign In, Sign Up, Sign out, Contact, and a shopping cart icon.

Below the header is a row of buttons: Get Products, Add Product, and Update Product.

A table header row includes columns for Prod Number, Prod Name, Category, Area, Details, Image URL, and Cost.

One data row is shown in the table:

| Product ID | Product Name  | Category | Area | Cost | Image  | Edit  |
|------------|---------------|----------|------|------|--|---|
| 100        | Pot and Plant | Plant    | Hall | 1500 |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |

Screenshot of the Product Listing Page:

The page title is "localhost:3000/Products". It features a header with navigation links: Back, Home, Search, A+, Star, Refresh, Print, Share, and More.

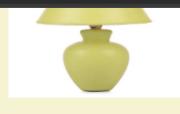
A table displays product information:

|  | Product ID | Product Name   | Category  | Area    | Cost  | Image  | Action  |
|--|------------|----------------|-----------|---------|-------|--|---|
|  | 101        | Pillows        | Bed       | Bedroom | 500   |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |
|  | 102        | Bed            | Bed       | Bedroom | 35000 |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |
|  | 103        | Dressing Table | Furniture | Bedroom | 17000 |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |

localhost:3000/Products

|  |     |              |           |      |       |  |   |  |
|--|-----|--------------|-----------|------|-------|--|---|--|
|  | 104 | Chair        | Furniture | Hall | 7500  |  | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  | 105 | Coffee Table | Furniture | Hall | 9000  |  | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  | 106 | Sofa         | Furniture | Hall | 45000 |  | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  |     |              |           |      |       |  |   |  |

localhost:3000/Products

|  |     |                   |           |         |       |  |   |  |
|--|-----|-------------------|-----------|---------|-------|--|---|--|
|  | 107 | Lamp              | Showpiece | Bedroom | 3000  |   | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  | 108 | Cupboard          | Furniture | Bedroom | 10000 |  | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  | 109 | Counter top chair | Furniture | Kitchen | 2500  |  | <input checked="" type="checkbox"/><br><span>trash</span> |  |
|  | 110 | Dining            | Furniture | Kitchen | 25000 |  | <input checked="" type="checkbox"/>                       |  |

localhost:3000/Products

|  | Product ID | Category | Type      | Department | Price | Image | Action   |  |
|--|------------|----------|-----------|------------|-------|-------|--|--|
|  | 111        | Cutlery  | Utensils  | Kitchen    | 2000  |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  | 112        | Bowl     | Utensils  | Kitchen    | 900   |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  | 113        | Carpet   | Showpiece | Hall       | 4500  |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  |            |          |           |            |       |       |  |  |

localhost:3000/Products

|  | Product ID | Category      | Type     | Department | Price | Image | Action   |  |
|--|------------|---------------|----------|------------|-------|-------|--|--|
|  | 114        | Bedsheet      | Bed      | Bedroom    | 5500  |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  | 115        | Clock         | clock    | Bedroom    | 2000  |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  | 116        | Jars and tray | Utensils | Kitchen    | 1500  |       | <input checked="" type="checkbox"/><br><span style="color: red;">Delete</span> |  |
|  |            |               |          |            |       |       |  |  |

localhost:3000/Products

| Product ID | Product Name | Category  | Area | Cost  | Image  | Edit  |
|------------|--------------|-----------|------|-------|--|---|
| 117        | Cabinet      | Furniture | Hall | 33000 |  | <input checked="" type="checkbox"/>  |

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## Add products feature – Admin side

localhost:3000/Products

Get Products Add Product Update Product

| Product ID | Product Name  | Category | Area    | Cost | Image  | Edit  |
|------------|---------------|----------|---------|------|--|---|
| 101        | Pillows       | Bed      | Bedroom | 500  |  | <input checked="" type="checkbox"/>  |
| 100        | Pot and Plant | Plant    | Hall    | 1500 |  | <input checked="" type="checkbox"/>  |

localhost:3000/Products

IKEA

localhost:3000 says  
New Product added to Server

OK

Admin Page for Adding Products

Get Products Add Product Update Product

| Product ID | Product Name | Category | Area    | Cost | Image  | Edit  |
|------------|--------------|----------|---------|------|--|---|
| 101        | Pillows      | Bed      | Bedroom | 500  |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |

## Delete product feature – Admin side

localhost:3000/Products

localhost:3000 says  
Product details are deleted from Server

OK

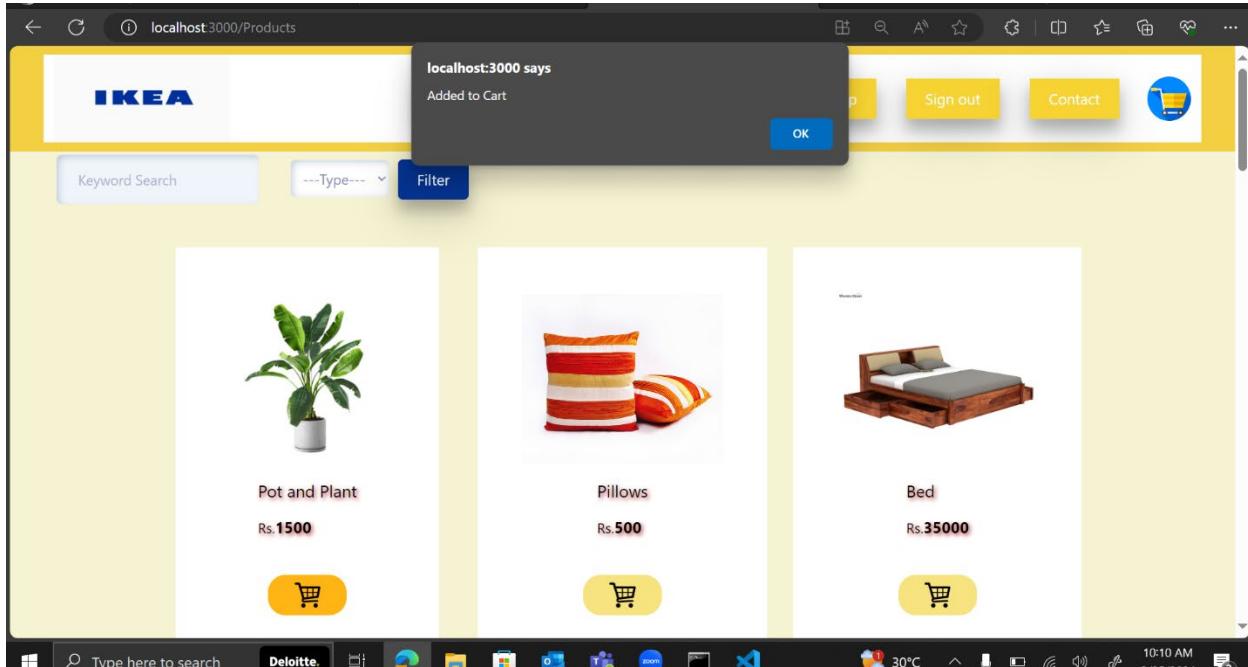
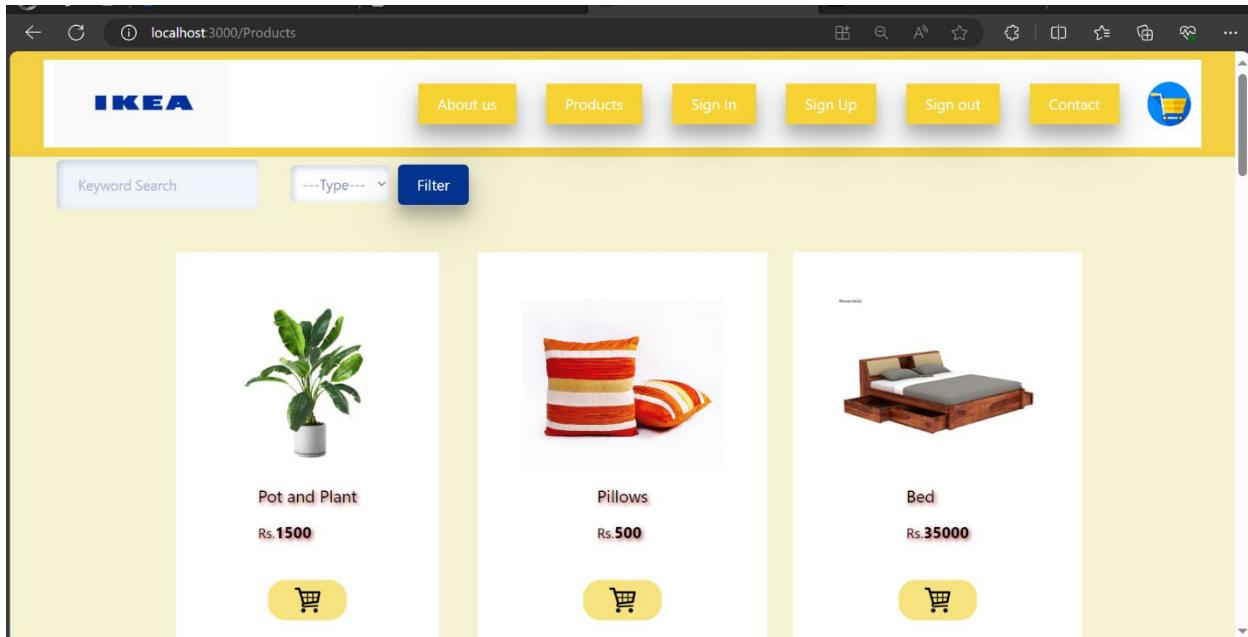
|     |         |     |         |     |  |   |
|-----|---------|-----|---------|-----|--|---|
|     |         |     |         |     |  | <span style="color: red;">Delete</span>                                     |
| 101 | Pillows | Bed | Bedroom | 500 |  | <input checked="" type="checkbox"/> <span style="color: red;">Delete</span> |

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## Browse Component

- Display all the available products
- User can select any albums to see the details



localhost:3000/Products



Dressing Table  
Rs. 17000





Chair  
Rs. 7500





Coffee Table  
Rs. 9000



localhost:3000/Products



Sofa  
Rs. 45000





Lamp  
Rs. 3000





Cupboard  
Rs. 10000





Counter top chair



Dining Table



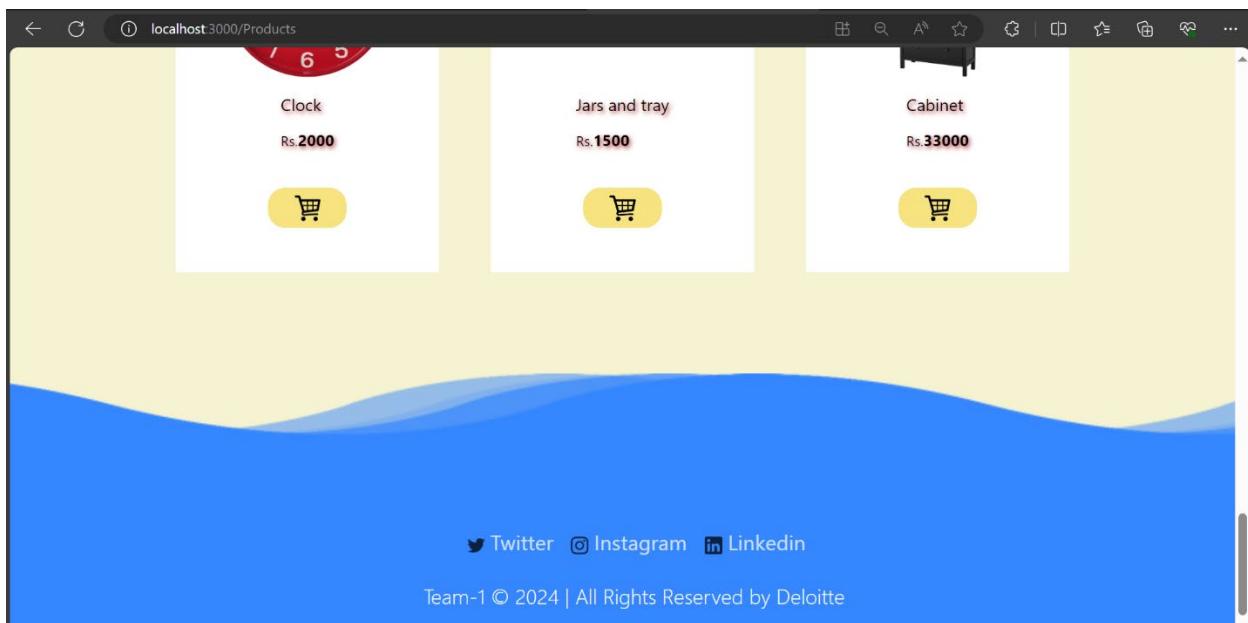
Cutlery

localhost:3000/Products

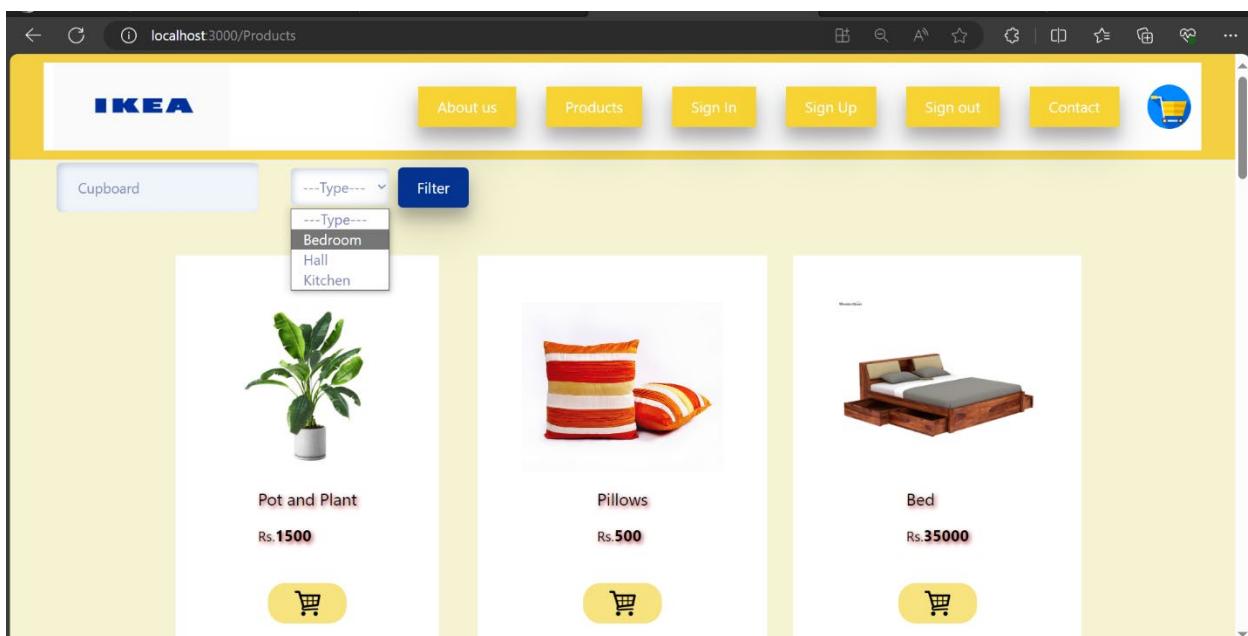
| Rs. 2500  | Rs. 25000  | Rs. 2000   |
|---|--|--|
| <br>Bowl<br>Rs. 900<br><a href="#">Buy</a> | <br>Carpet<br>Rs. 4500<br><a href="#">Buy</a> | <br>Bedsheet<br>Rs. 5500<br><a href="#">Buy</a> |

localhost:3000/Products

| Rs. 900   | Rs. 4500  | Rs. 5500   |
|---|---|--|
| <br>Clock<br>Rs. 2000<br><a href="#">Buy</a> | <br>Jars and tray<br>Rs. 1500<br><a href="#">Buy</a> | <br>Cabinet<br>Rs. 33000<br><a href="#">Buy</a> |



## Search bar and Filter feature – Customer side



## Cart Component

- Display the products that are added to cart
- Show Grand total of all products that exists in the cart
- Customer can remove any item from cart
- If adding items to cart is done, customer navigate to checkout page.

The screenshot shows a web browser window with the URL `localhost:3000/Cart`. The page has a yellow header bar with the IKEA logo and navigation links for About us, Products, Sign In, Sign Up, Sign out, Contact, and a shopping cart icon. The main content area is titled "Cart items". It displays two items in a table:

| Name    | Price | Image | Action |
|---------|-------|-------|--------|
| Pillows | 500   |       |        |

localhost:3000/Cart

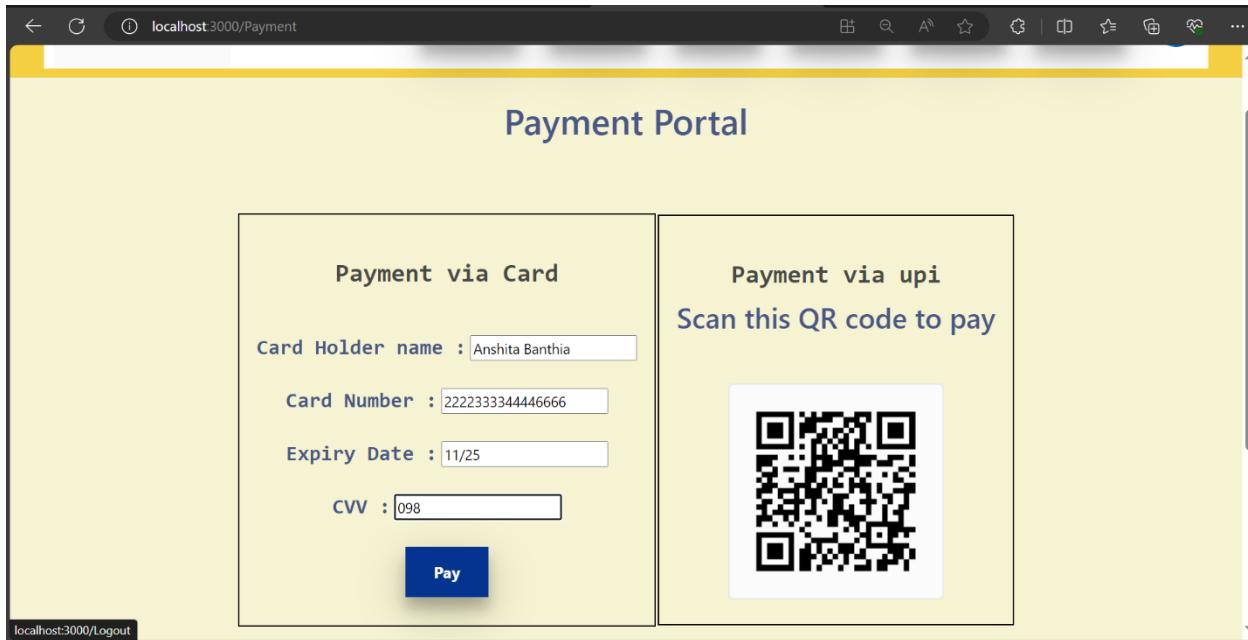
The screenshot shows a web browser window with the URL `localhost:3000/Cart`. The main content area displays one item in a table:

| Name         | Price | Image | Action |
|--------------|-------|-------|--------|
| Dining Table | 25000 |       |        |

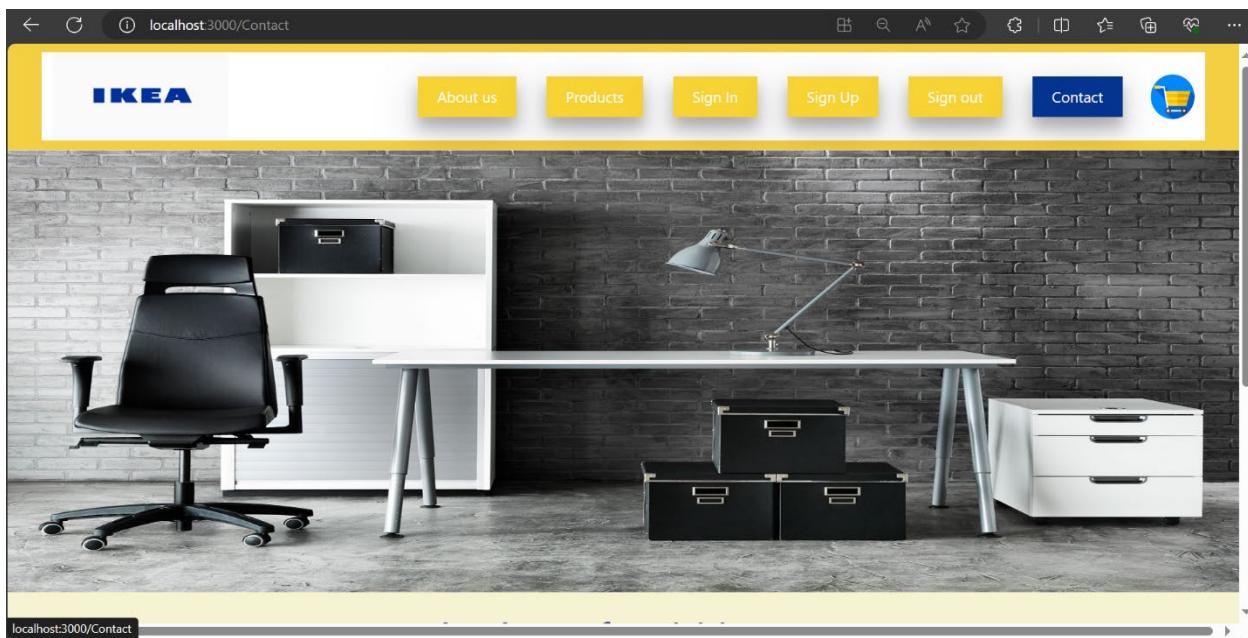
Below the table, a box displays the total amount: **Total = Rs. 60500**. At the bottom, there is a yellow button labeled **Proceed to checkout**.

## Payment Component

- Enter valid payment details
- Display Total Amount on the screen to confirm the customer.
- After confirming the payment of the order, customer navigates to complete Page.



## Contact us Component



localhost:3000/Contact

Thank you for visiting us!

For any queries, contact us at [ikeastores.india@gmail.com](mailto:ikeastores.india@gmail.com)  
Or call us at +91 9344534420

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# **Project Task Segregation**

| TEAM MEMBERS | TASK 1                              | TASK 2             |
|--------------|-------------------------------------|--------------------|
| Rahul        | Admin and Home component            | CRUD working       |
| Tharun       | Cart and Payment component          | Checkout component |
| Meetha       | Browse and About us component       | Documentation      |
| Snigdha      | Browse and Contact us component     | Store component    |
| Anshita      | Login/Logout and Register Component | UI                 |