Project Name: Online Furniture Store
Branch C-DAC Sep-2022

Documentation On

"ONLINE FURNITURE STORE"

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1. Introduction:

An online furniture store is a virtual marketplace where customers can purchase furniture from the comfort of their homes. Online furniture stores have become increasingly popular in recent years as people have become more comfortable shopping online. This report will detail the various aspects of an online furniture store project, including its objectives, target audience, design, functionality, and marketing strategy.

1.1 Document Purpose:

This document communicates the business requirements and scope for developing an Online Furniture Store. The scope of this document is to define the functional and nonfunctional requirements, business rules and other constraints requirements.

1.2 Project Background:

An online furniture store is a platform that enables customers to browse and purchase furniture items from the comfort of their homes. The project's objective is to create a user-friendly online store that offers a wide range of furniture items at affordable prices. The online store will need to have a robust e-commerce platform that enables customers to browse, search, and purchase items easily. The project will require a cross-functional team that includes designers, developers, marketers, and customer service representatives. The team will need to work collaboratively to ensure that the online store meets the needs of customers and delivers a great user experience.

1.3 Aim & Objectives:

The primary objective of an online furniture store project is to create a platform that offers customers a convenient and hassle-free way of purchasing furniture. The project aims to provide a wide range of furniture options for customers to choose from, while also ensuring that the shopping experience is seamless and enjoyable. Additionally, the project aims to establish a strong online presence and build a loyal customer base.

2. Business Requirements Overview:

- An Online Furniture Store is a public web application.
- An Online Furniture Store will be open to global expansion, but in phase 1, the main target is Maharashtra.
- There are mainly two types of users, one is the seller and other is the Customer.
- Sellers can submit their offerings to the website.
- An Online Furniture Store website provides the functions which connect the sellers and the customers efficiently and in a hassle-free way.
- The Online Furniture Store website could be maintained by the Administrator.

3. Functional Requirements Overview:

The Online Furniture System consists of three modules described below.

1. Seller Module
2. Customer Module
3. Admin Module

3.1 Seller Module.

- Sellers can register and create his own accounts.
- Sellers can login.
- Seller can upload product details and images of his inventory items.
- Sellers can view and confirm orders.
- Create and manage product listings.
- Communicate with customers regarding orders and product inquiries.

3.2 Customer Module

- Customers can register and create his own accounts.
- Customers can login.
- Online Furniture Store provides the function which allows customers to browse through a catalog of available products.
- Customers can place orders.
- Customers can track/view their order status.

3.3 Admin Module

- Online Furniture Store should provide all functions to admin how to handle the System.
    - Approve Sellers and Customers.
- Admins can generate transaction reports.
- Manage site content and design.

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
- Users will have no limitations for accessing the application through the Internet. The portal being an internet application, it is difficult to specify exact number of visitors or users. Hence, we will target the system to support a sufficiently large user base on launch of phase 1.
- Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
- The system should be designed in such a manner that users will be able to complete tasks in a minimum number of steps.

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5. Use-Case Diagram

5.1 Admin:

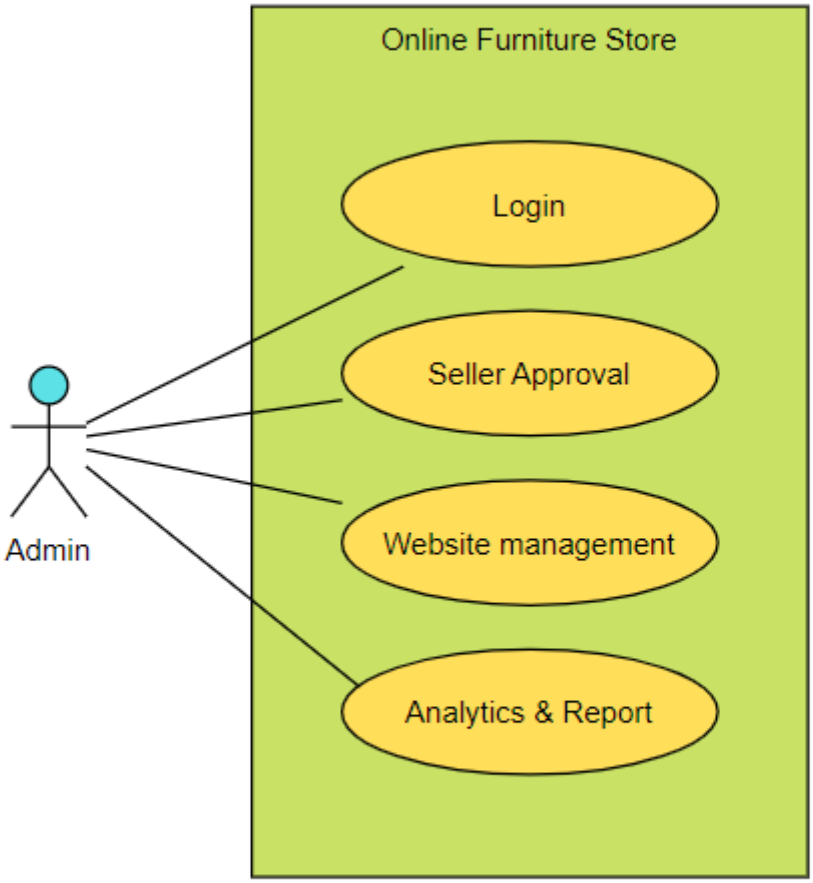


Fig. Use case diagram for Admin Model

5.2 Seller:

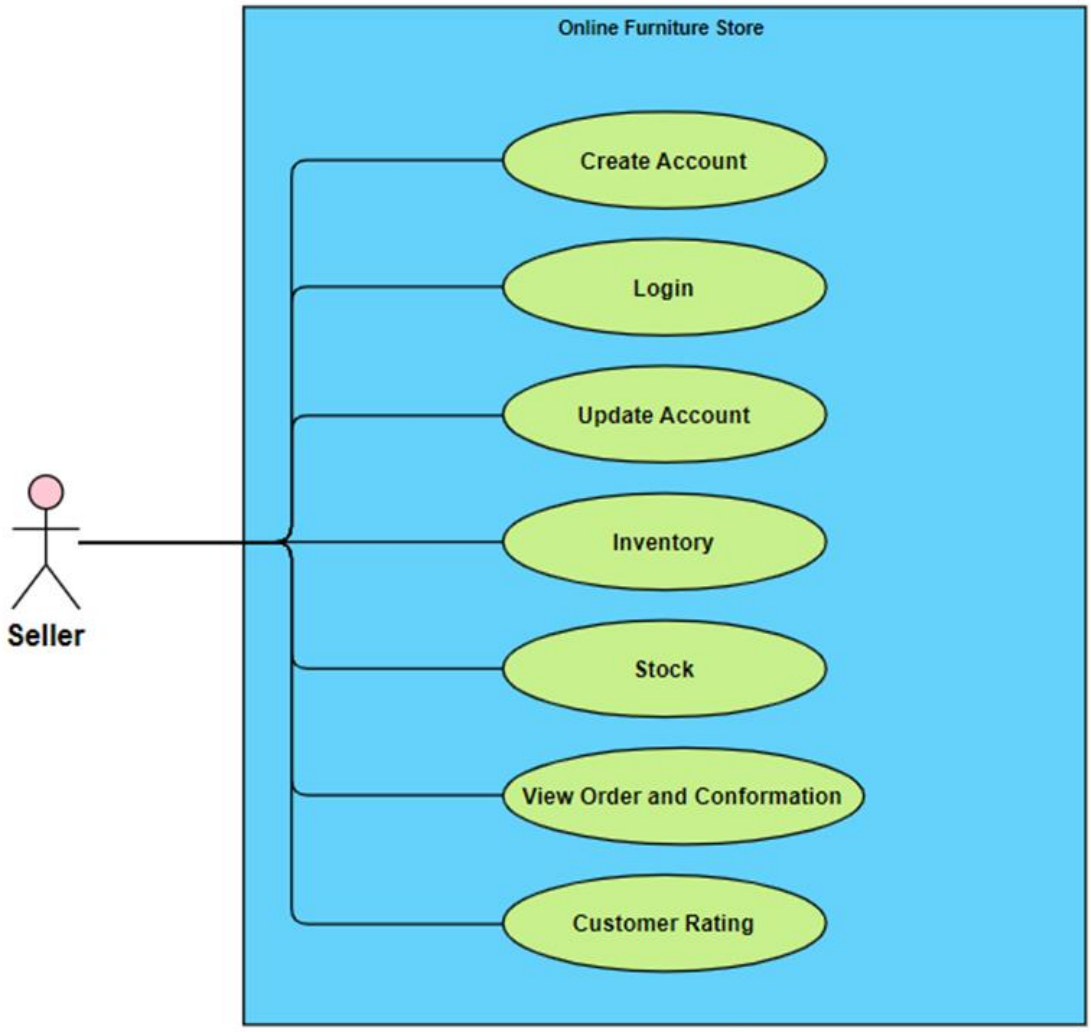


Fig. Use case diagram for Seller Model

5.3 Customer:

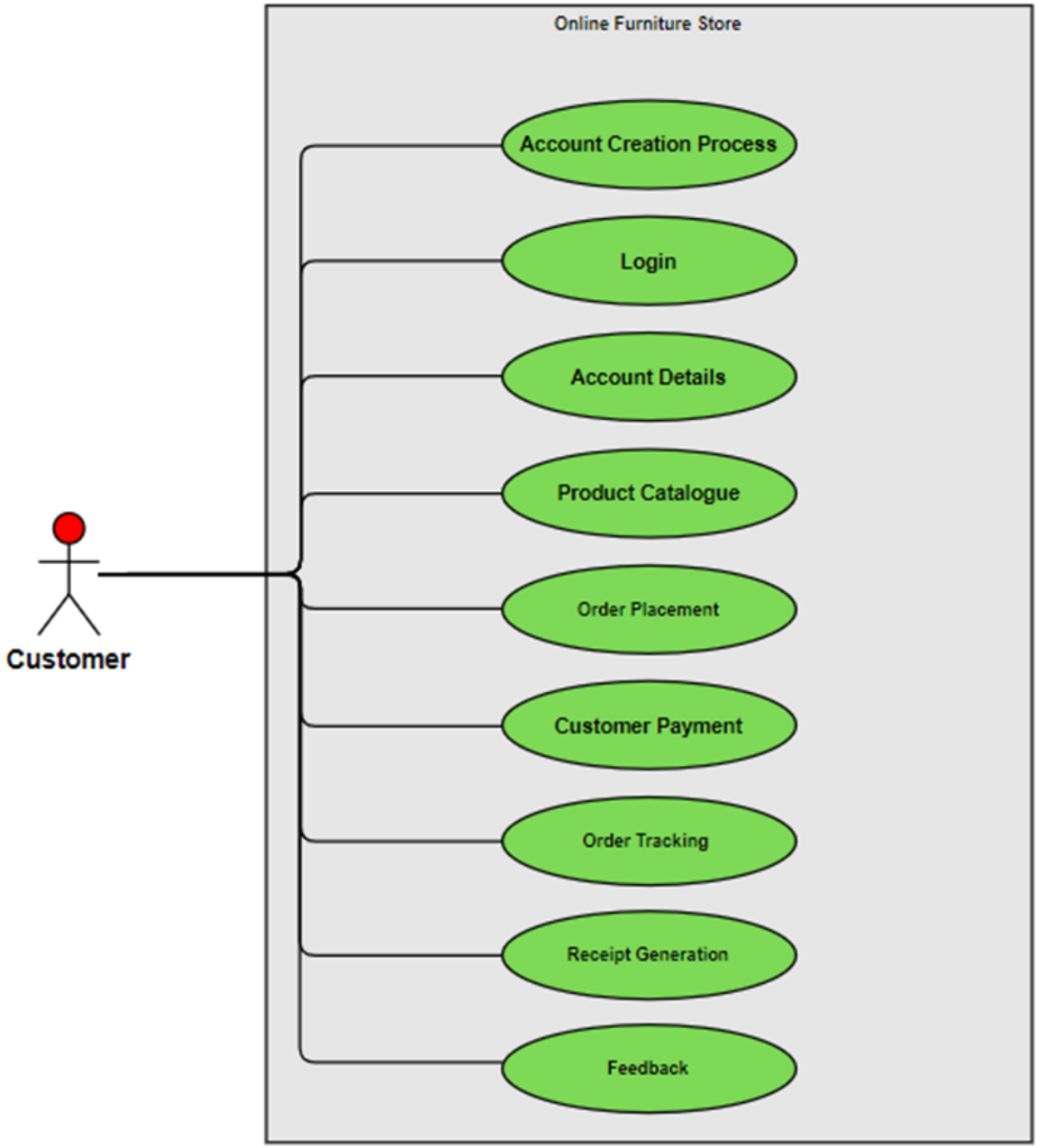


Fig. Use case diagram for Customer Model

6. Database Design:

6.1 Seller

Column Name	Field Type	Null	Key	Default	Description
sid	INT	NO	PK	NULL	Seller ID
store_name	VARCHAR(255)	NO		NULL	Name of the seller's store
email_address	VARCHAR(255)	NO		NULL	Seller's email address
password	VARCHAR(20)	NO		NULL	Seller's password for logging in
contact_number	VARCHAR(255)	NO		NULL	Seller's phone number or other contact information
area_id	TINYINT(1)	NO		NULL	ID of the area where the seller is located
address	VARCHAR(255)	NO		NULL	Seller's street address
status	VARCHAR(50)	NO		NULL	Seller status (e.g. active, inactive, etc.)
gst_number	VARCHAR(255)	NO		NULL	GST number associated with the seller
role	VARCHAR(50)	NO		NULL	Role assigned to the seller
city_id	INT	NO		NULL	ID of the city where the seller is located

6.2 Customer Table

Column Name	Field Type	Null	Key	Default	Description
cid	INT	NO	PK	NULL	Customer ID
address	VARCHAR(255)	NO		NULL	Customer's street address
area_id	INT	NO		NULL	ID of the area where the customer is located
contact	VARCHAR(255)	NO		NULL	Customer's phone number or other contact information
email	VARCHAR(255)	NO		NULL	Customer's email address
fname	VARCHAR(255)	NO		NULL	Customer's first name
password	VARCHAR(255)	NO		NULL	Customer's password for logging in
lname	VARCHAR(255)	NO		NULL	Customer's last name
city_id	INT	NO		NULL	ID of the city where the customer is located

6.3 Login Table

Column Name	Field Type	Null	Key	Default	Description
login_id	INT	NO	PK	NULL	Login ID
email	VARCHAR(45)	NO		NULL	User's email address used for login
password	VARCHAR(45)	NO		NULL	User's password used for login
question_id	TINYINT(1)	YES		NULL	ID of the security question used for account recovery
role_id	TINYINT(1)	NO		NULL	ID of the user's role
status	TINYINT(1)	NO		NULL	Status of the user's account (e.g. active, inactive)

6.4 Role Table

Column Name	Field Type	Null	Key	Default	Description
role_id	INT	NO	PK	NULL	Role ID
role_name	VARCHAR(45)	NO		NULL	Name of the role

6.5 Products Table

Column Name	Field Type	Null	Key	Default	Description
pid	INT	NO	PK	NULL	Product ID
description	VARCHAR(255)	YES		NULL	Description of the product
pname	VARCHAR(255)	NO		NULL	Product name
product_image	LONGBLOB	YES		NULL	Image of the product
category_id	INT	YES		NULL	ID of the product's category
sid	INT	YES		NULL	ID of the seller of the product
price	BIGINT	YES		NULL	Price of the product
rating	INT	YES		NULL	Rating of the product
stock	INT	YES		NULL	Stock availability of the product

6.6 Category Table

Column Name	Data Type	Null	Key	Default	Description
category_id	INT	NO	PK	NULL	Unique identifier for the category
category_name	VARCHAR(255)	NO		NULL	Name of the category

6.7 Order Table

Column Name	Data Type	Null	Key	Default	Description
order_id	INT	NO	PK	NULL	Unique identifier for the order
customer_id	INT	NO	FK	NULL	The ID of the customer who placed the order
total_amount	DECIMAL(10,2)	NO		NULL	Total amount of the order including taxes and shipping charges
discount_amount	DECIMAL(10,2)	YES		NULL	Discount amount applied to the order
order_date	DATETIME	NO		CURRENT_TIMESTAMP	Date and time when the order was placed

6.8 Orderdetails Table

Column Name	Data Type	Null	Key	Default	Description
orderdetailld	INT	NOT NULL	PRIMARY KEY	-	Unique identifier for each order detail
orderld	INT	NOT NULL	FOREIGN KEY	-	The unique identifier for the order that the detail belongs to
productid	INT	NOT NULL	FOREIGN KEY	-	The unique identifier for the product that was ordered
quantity	INT	NOT NULL	-	-	The quantity of the product that was ordered
productprice	DECIMAL(10,2)	NOT NULL	-	-	The price of the product at the time of the order

6.9 City Table

Column Name	Field Type	Null	Key	Default	Description
city_id	INTEGER	NO	PK	NULL	ID of the city
city_name	VARCHAR(45)	NO		NULL	Name of the city

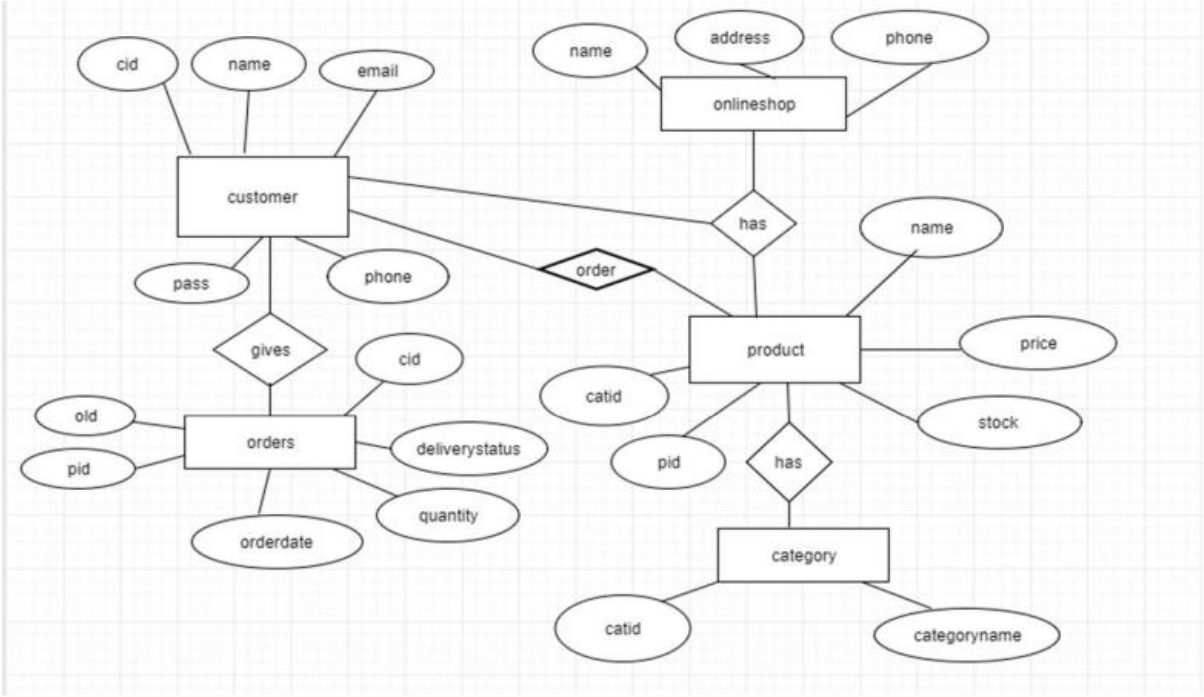
6.10 Area Table

Column Name	Field Type	Null	Key	Default	Description
aid	INTEGER	NO	PK	NULL	Area ID
pincode	VARCHAR(20)	NO		NULL	Postal code
city_id	INTEGER(3)	NO	FK	NULL	ID of the city

6.11 Cart Table

Column Name	Field Type	Null	Key	Default	Description
quantity	INT	NO		NULL	Quantity of the product
cid	INT	NO	PK	NULL	ID of the cart item
product_id	INT	NO		NULL	ID of the product

7. ER-Diagram:

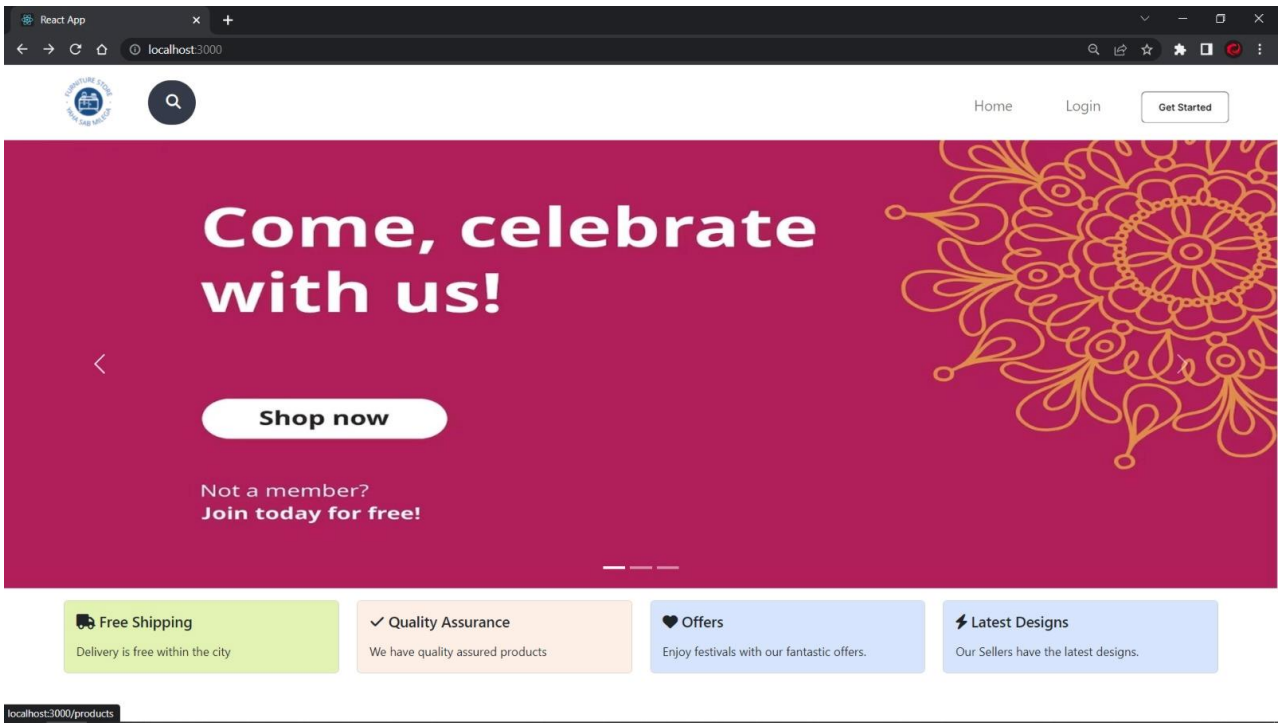


E-R diagram shows database of Online Furniture Store

8. Snapshots:

8.1 Home Page:

Following snapshot shows the Home page for Online Furniture Store.

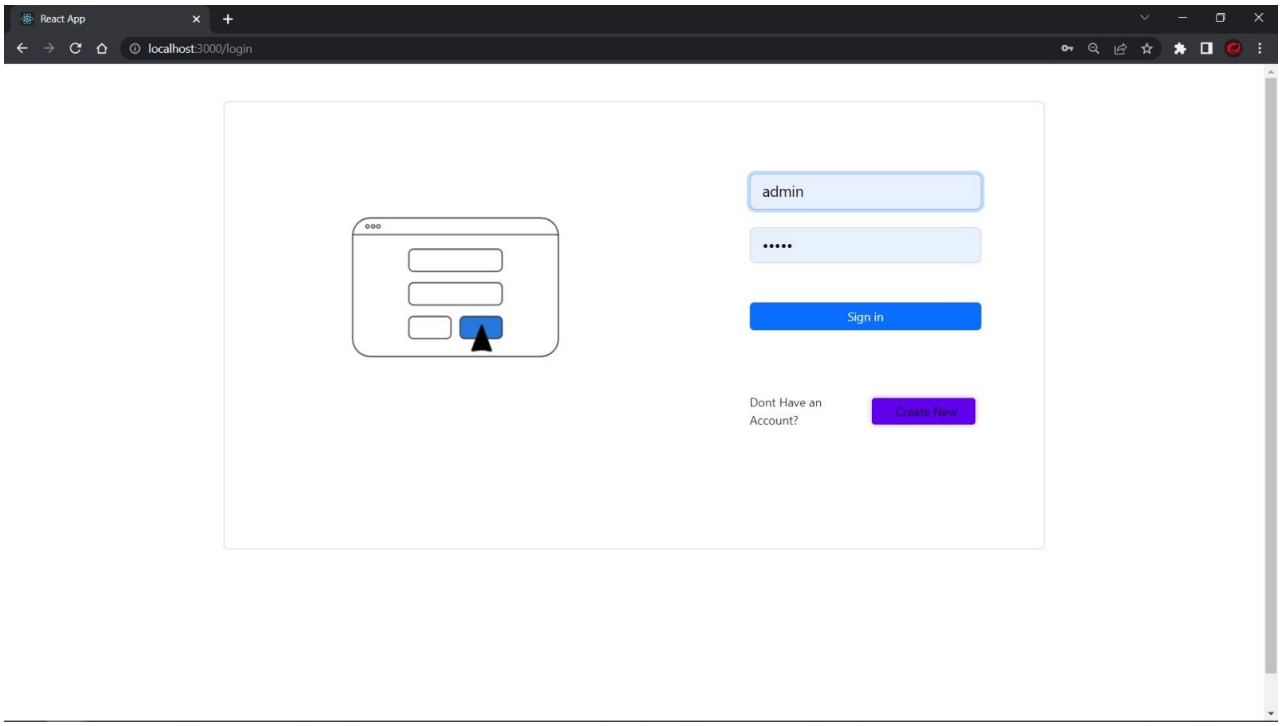


This page contains following controls

- Home
- Login
- Get Started

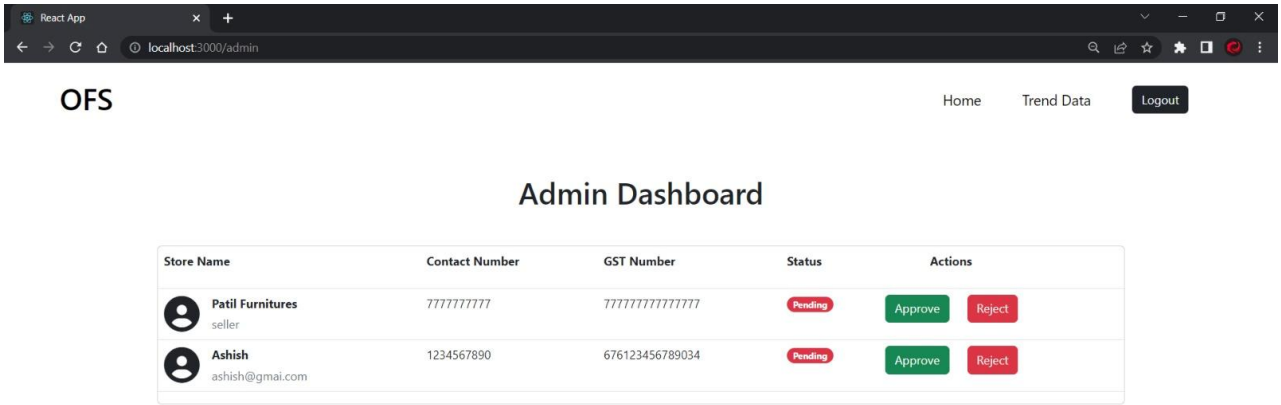
8.2 Login Page

Following snapshot shows the Login page for Online Furniture Store.



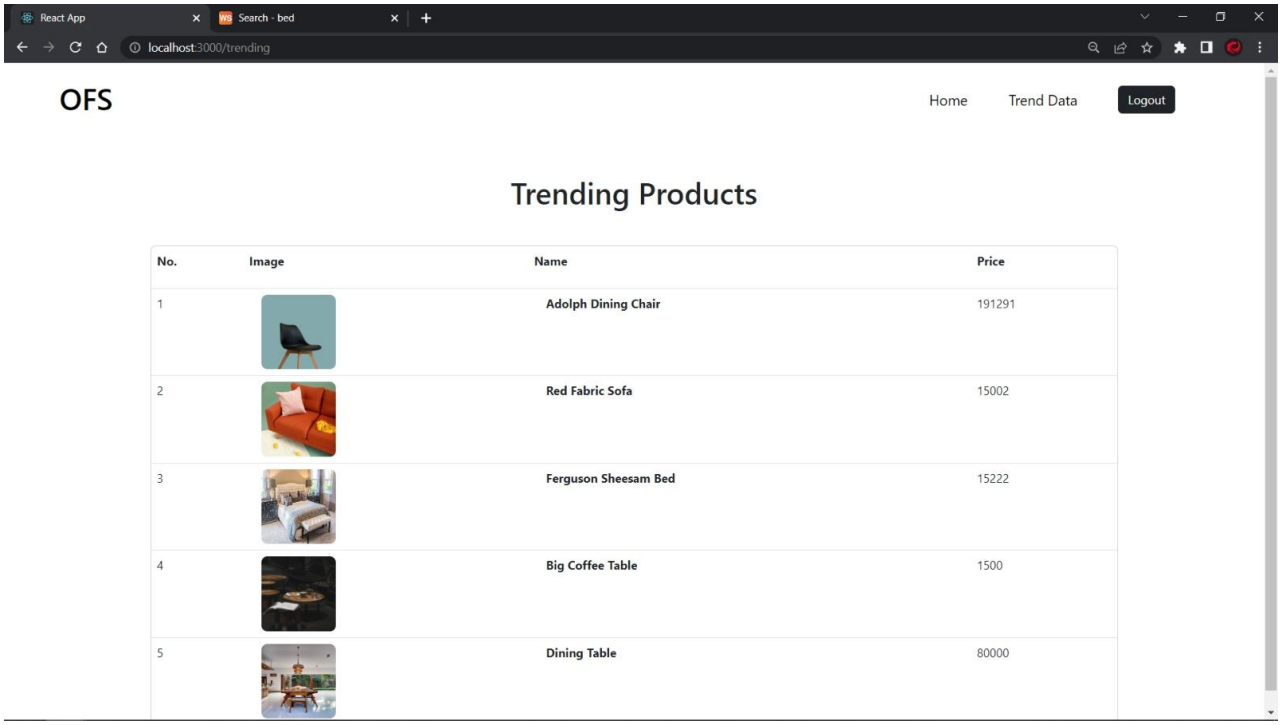
8.3 Admin Dashboard

Following snapshot shows the Admin Dashboard for Online Furniture Store.



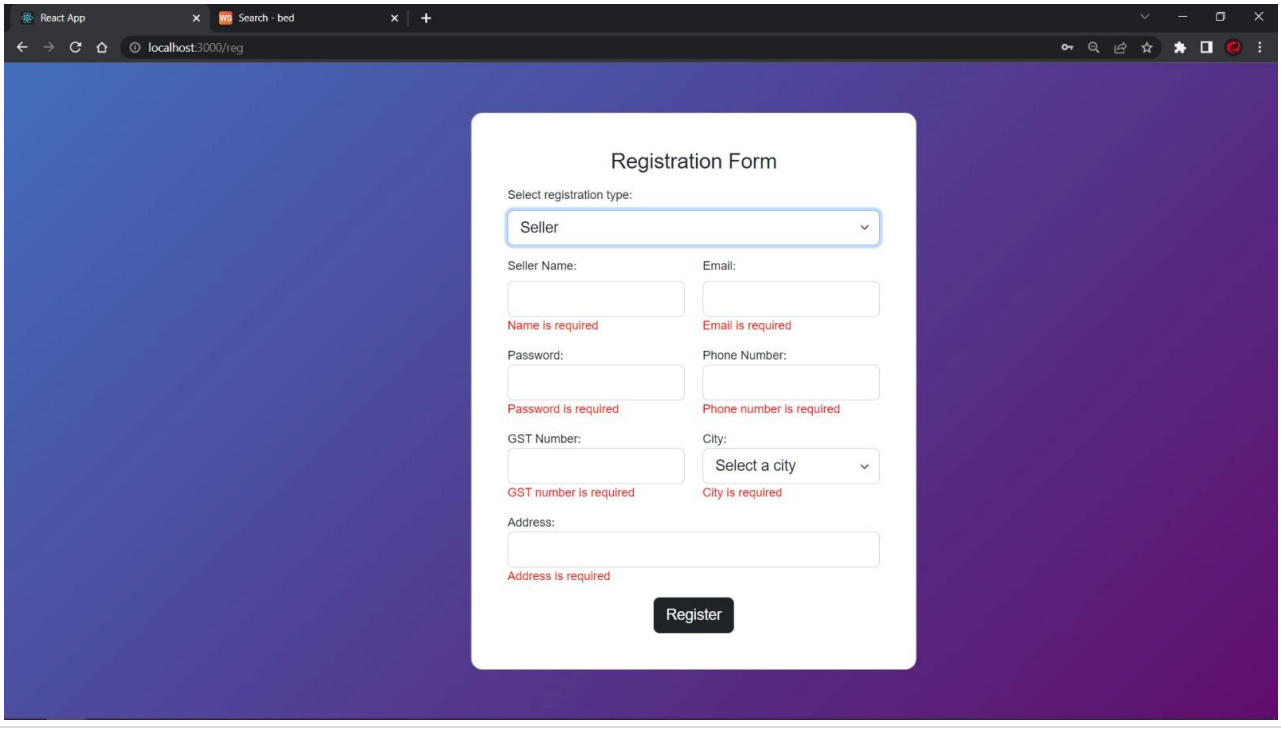
8.3 Trending Products

Following snapshot shows the Trending Products for Online Furniture Store.

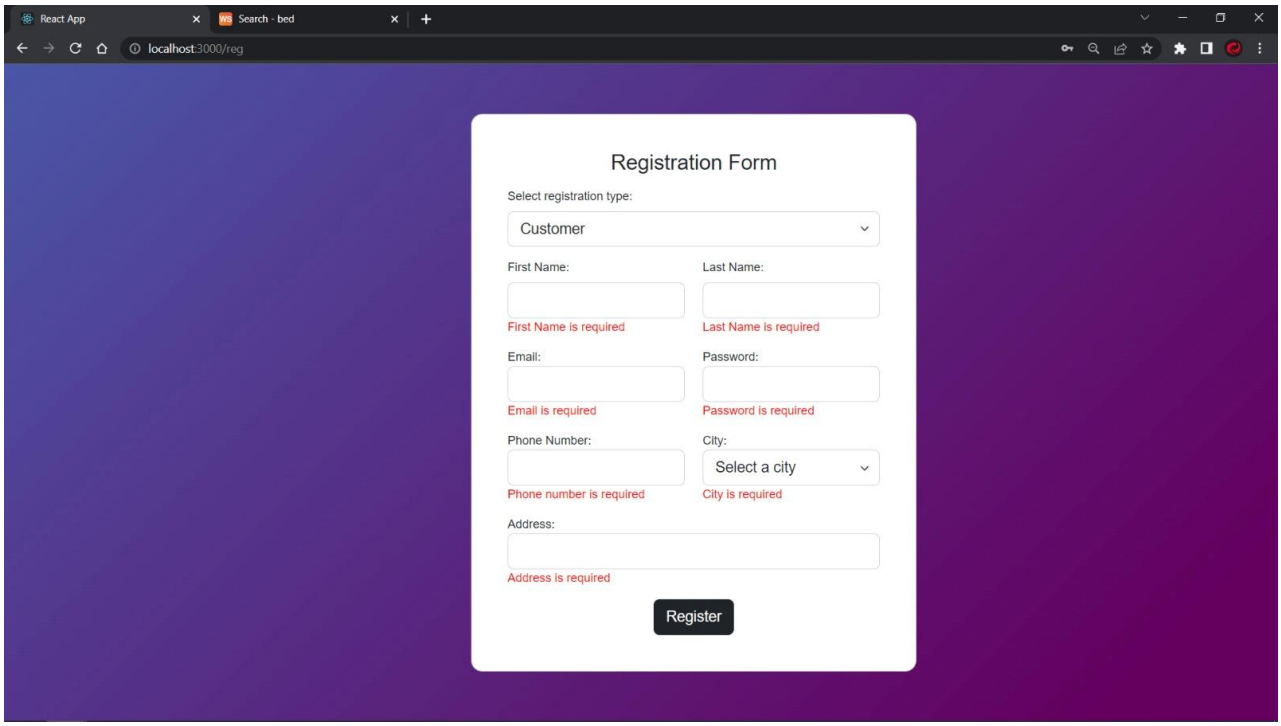


8.4 Admin Home Page

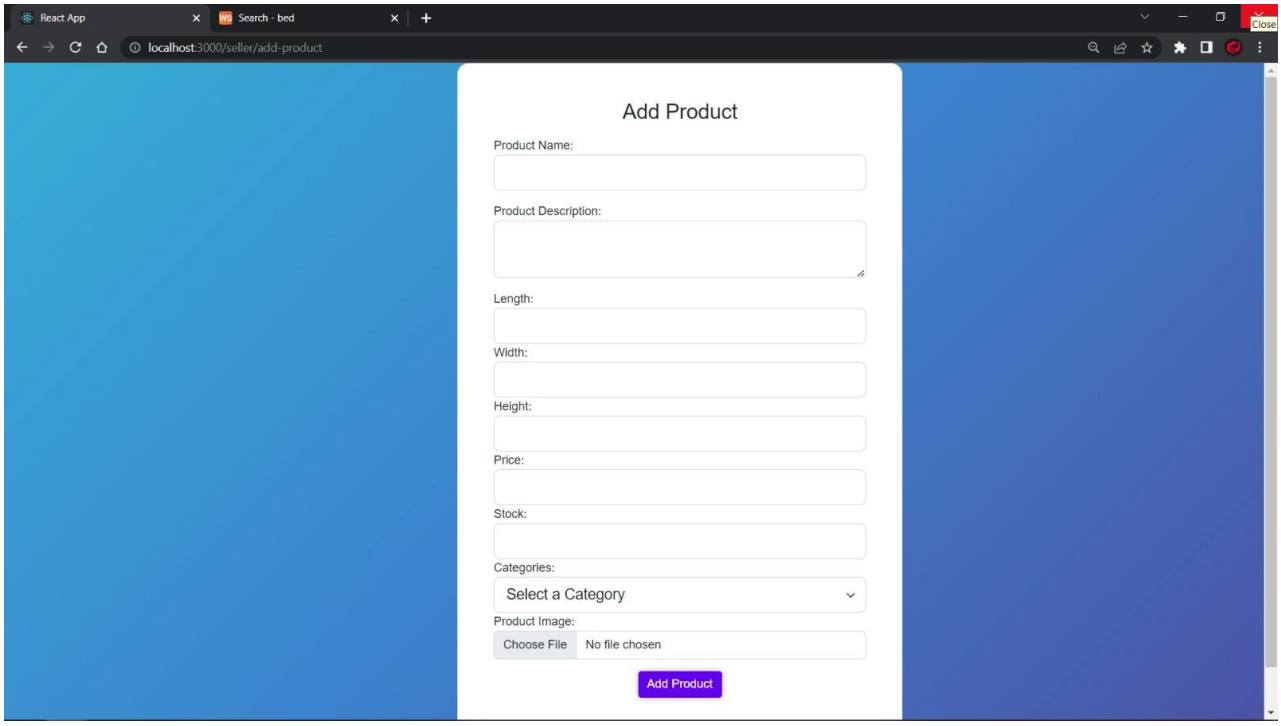
8.4.1 Seller Registration Page



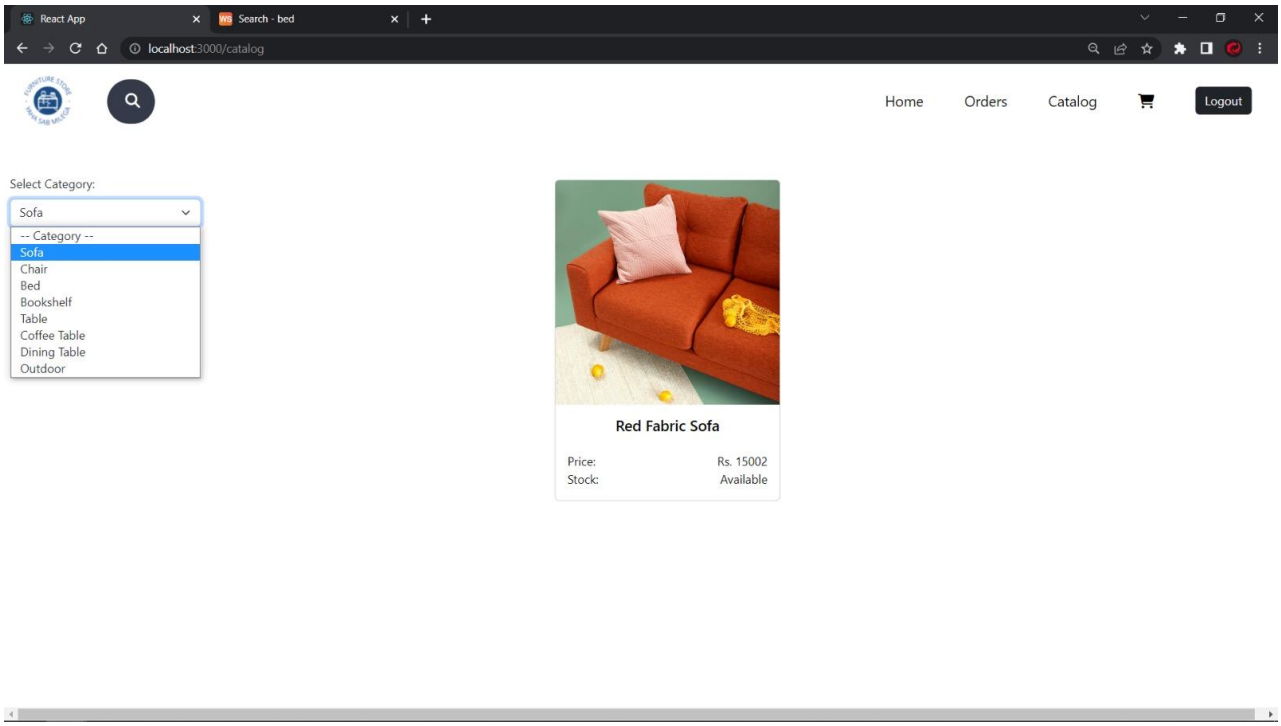
8.4.2 Customer Registration Page



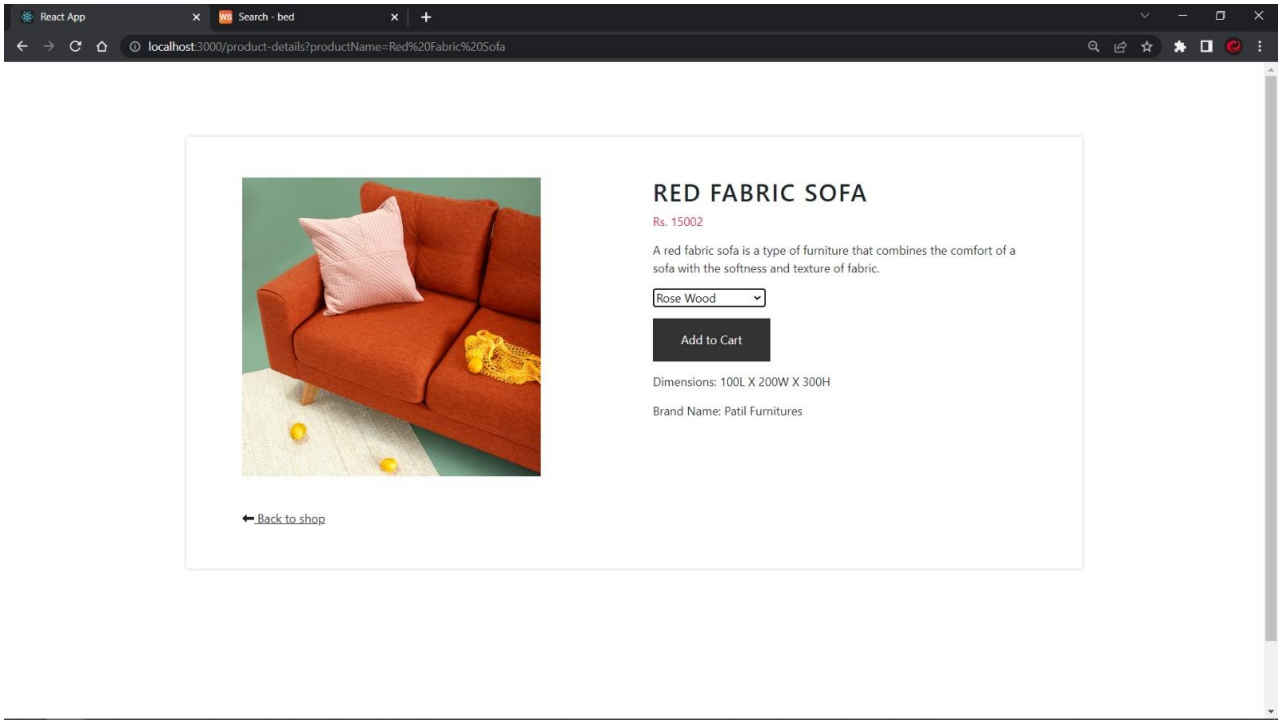
8.4.3 Seller Add-Product Page



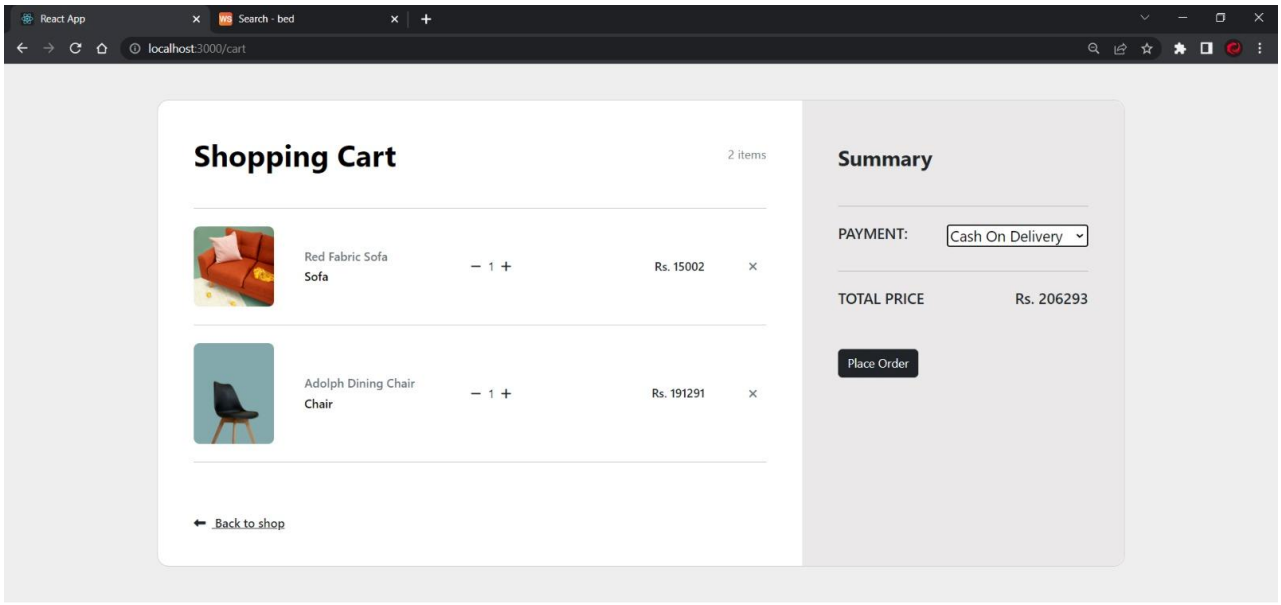
8.4.4 Catalog Page



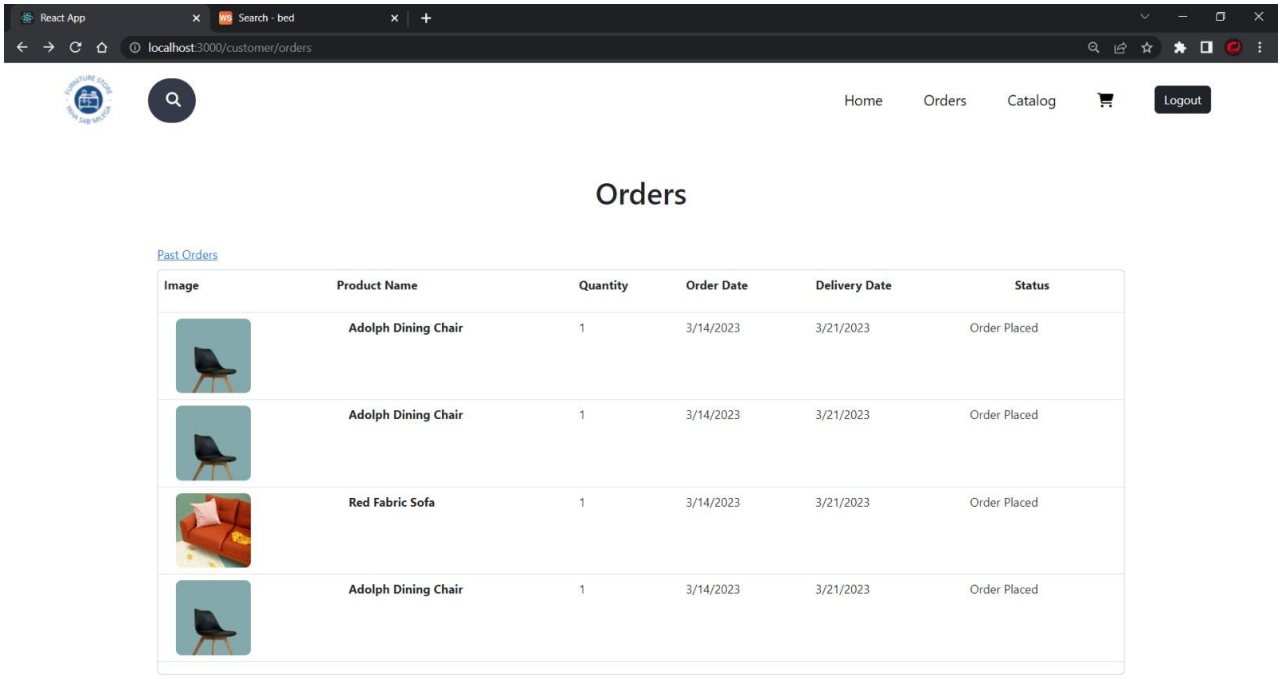
8.4.5 Product-Detail Page



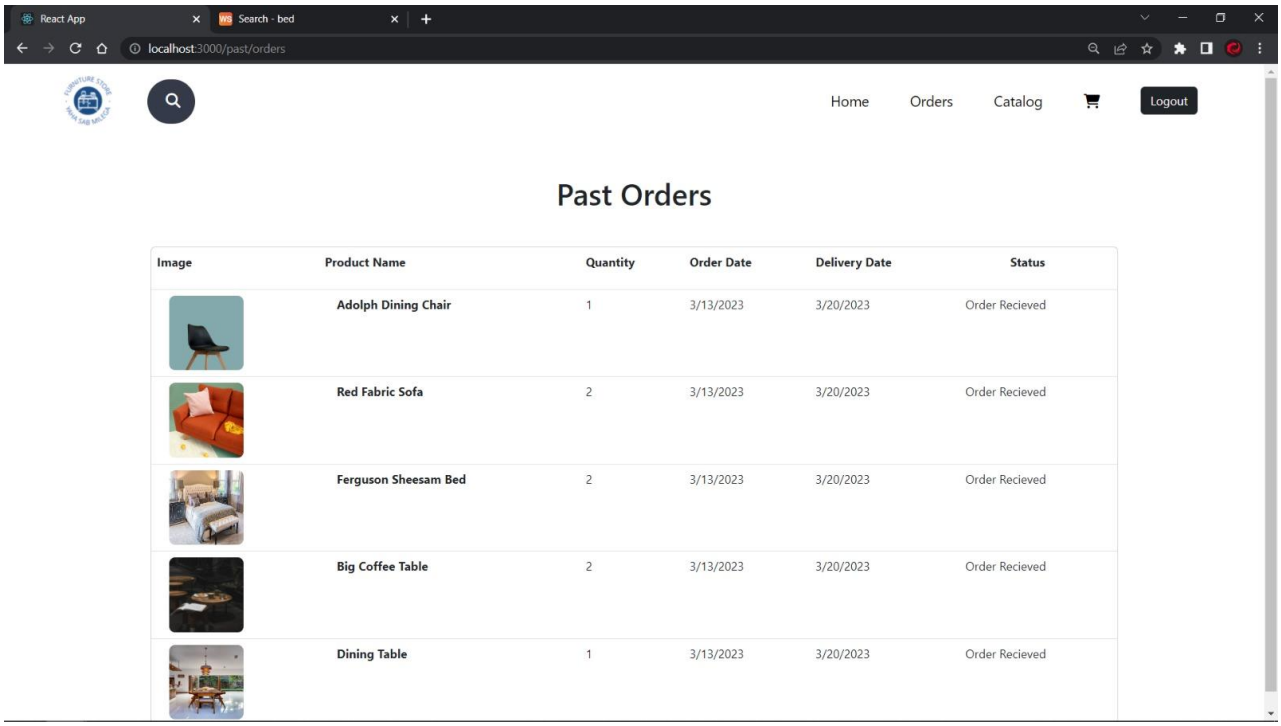
8.4.6 Shopping Cart Page



8.4.7 Order placed Page



8.4.7 Past Order placed Page



9. CONCLUSION:

- In conclusion, an online furniture store web application can provide many benefits for both customers and businesses. With this type of platform, customers can conveniently browse and purchase furniture from the comfort of their own homes, while businesses can expand their customer reach and streamline their operations.
- However, to ensure the success of an online furniture store web application, it's important to prioritize user experience and design a user-friendly interface that's easy to navigate.
- Overall, an online furniture store web application can be a valuable tool for businesses in the furniture industry to increase sales and improve customer satisfaction.

10. FUTURE SCOPE

The future scope for online furniture store web applications is promising as technology continues to advance and consumers increasingly turn to online shopping. Here are some potential areas for growth and improvement:

- Personalization: Online furniture stores can leverage data and machine learning algorithms to offer personalized recommendations to customers based on their browsing and purchase history.
- Sustainability: As consumers become more environmentally conscious, there is a growing demand for sustainable furniture options. Online furniture stores can emphasize eco-friendliness and offer products made from recycled or renewable materials.
- Social Commerce: Online furniture stores can leverage social media platforms to reach new customers and promote their products through targeted advertising and influencer partnerships.

Overall, the future scope for online furniture store web applications is vast and diverse, with many opportunities for innovation and growth.