Low Level Document (LLD)

Ecommerce Website

Version number: 1.0

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**DECLARATION**

We declare that this written submission represents us ideas is our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty

and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when

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10. **Introduction:**

**1.1 Scope of the Document**

* This section will cover details regarding scope of the document
* Low level design document will be at component level i.e., for website portal there will be one LLD

**1.2 Intended Audience**

* Buyers: Someone with money who wants to buy goods and services.
* Sellers: Someone who offers goods and services to buyers.

**1.3 System Overview**

* The key stakeholders for this project are the project sponsor, project manager, development team, marketing team, and customer support team.

1. **Project Briefing:**

The purpose of this project is to develop an ecommerce website that will allow customers to browse and purchase a range of clothing products online. The website will offer a user-friendly interface, secure payment processing, and a wide range of clothing categories, including men's and women's apparel, accessories, and footwear.

The website will include the following features and functionalities:

1.User authentication and account management

2.Product catalog with search and filtering capabilities

3.Shopping cart and checkout process with secure payment processing

4.Responsive design for mobile and desktop users.

1. **Problem Statement:**

To provide the customer with various goods just by sitting in front of a computer.

1. **Problem Solution:**

Develop the web application to that will a chance of introducing their products not only in a single place but throughout the world using online classifieds. This system allows the user to interact directly just by sitting in front of the computer. Consumers have a chance of comparing the product and purchase the desired one.

1. **Objective of the Project:**

The main goal is to provide the customer with various goods just by sitting in front of a computer .He can get the goods easily without moving from place to place.

1. **Scope of Project:**

As the Internet services are booming all across the world, the businesses are increasing the ways of selling products and selling. Ecommerce website is the way of selling goods from any part of the world.

1. **Block Diagram:**
2. **Requirements Gathering:**

* Window 10 Operating system
* Visual studio software
* MongoDB Compass
* React DevTools

1. **Analysis:**

The ecommerce website enables users to create their account on the website by adding the username, password along with the email and phone number for authentication.

The backend includes products and user schema.

Product Schema the fields such as the name of product, description and price information. In the frontend, redux i.e. a react library is used, this library is used to create the local database for the frontend.

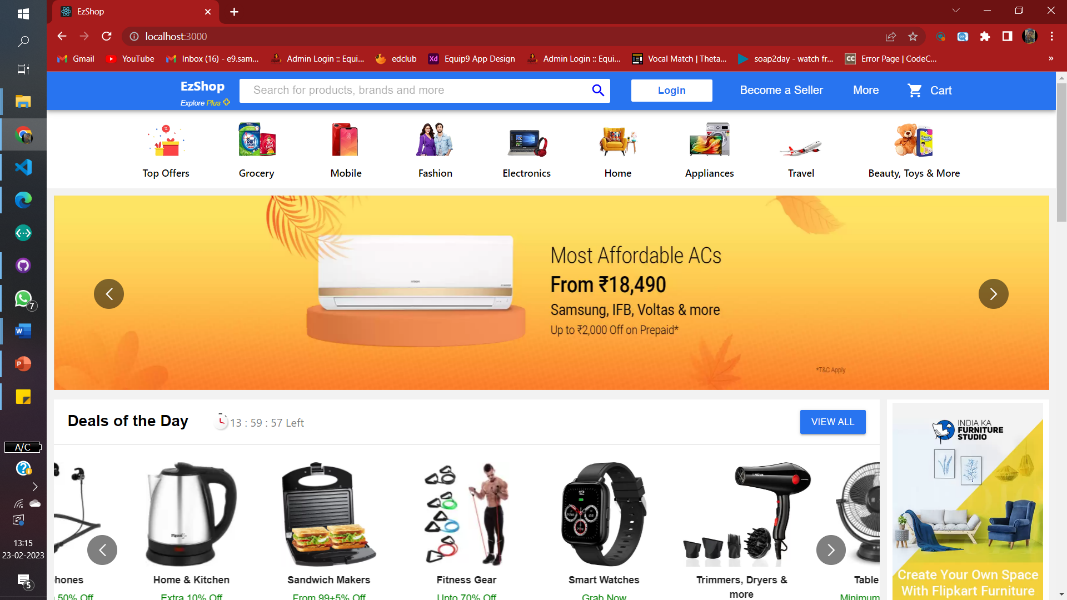
The REST APIs are called and the data is fetched from the database and are dispatched using the redux.

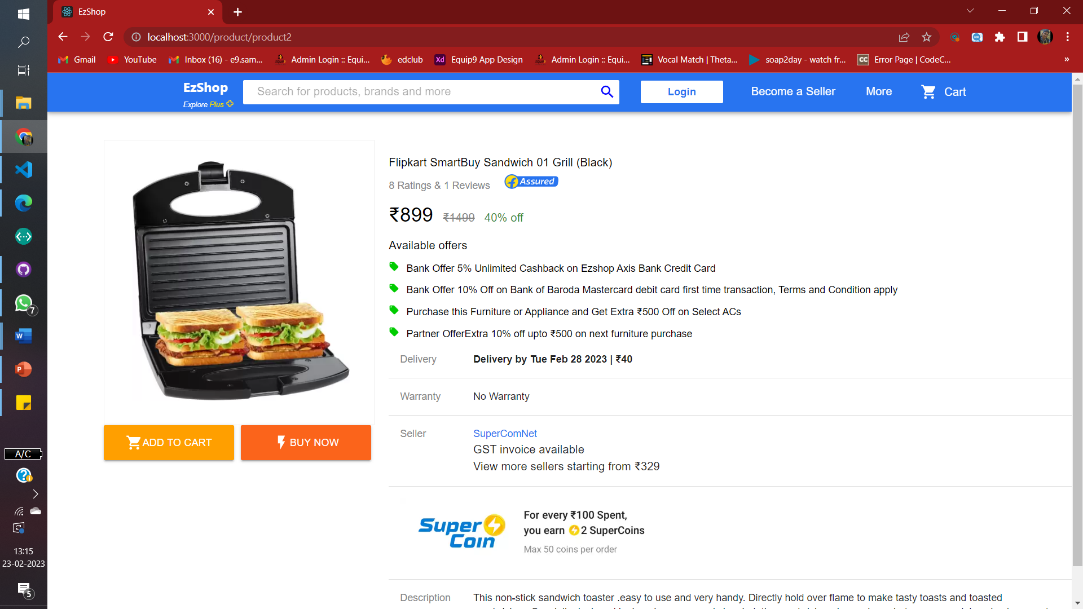
Shopping cart is dynamic from the front end the products can be added and removed dynamically.

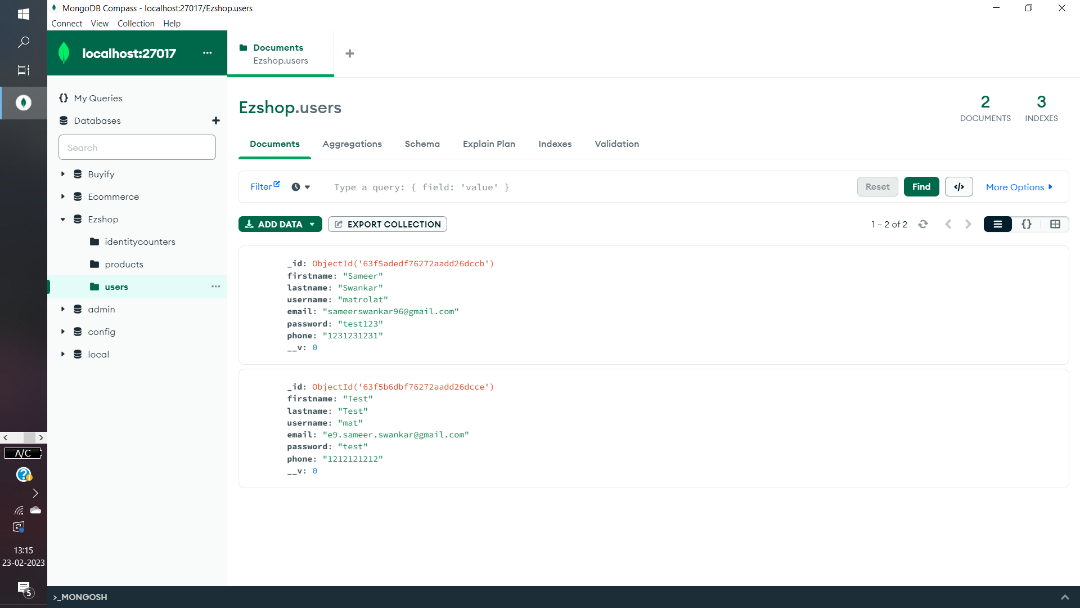
Exception handling is done for every API in the backend to control any unusual response.

The application is scalable.

1. **Final Screenshot of Project Output**

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