# Pim pri Chinchwad Education Trust's

# PIM PRI CHINCHWAD COLLEGE OF ENGINEERING NIGDI, PUNE-44

### DEPARTMENT OF INFORMATION TECHNOLOGY



Name of Course: PFC

Year & Branch: T.Y. B. Tech. (IT), 2022-23, Semester-II

PF C MINI PR O JE C T

ON

"E-Commerce Website"

BY

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### I. Introduction and aim s/m otivation and objectives.

The question platform for electronic commerce, which indicates will make people buy and sell goods services online. The overall the provide straightforward and user-friendly experience across whole. will provide users with numerous option to go through.

- 1.1 Purpose: The purpose this document provide detailed description the requirements for the e-commerce website. The system designed allow navigate through the website content and to create a user-friendly experience
- 1.2 Scope: The e-commerce website will web-based application find be a the required product. The will allow users search for products location, system by availability, profiles, purchase. system specialization, and view and schedule The will also allow vendors to manage their products, and post new products.

### Motivations:

- Reach a wider audience
- Waiting for any product is time-consuming
- · People find it hectic to actually visit the store
- To combat this problem and find a product as soon as possible is the need

## Objectives:

- To Provide Advance Search facility to users.
- To Reduce efforts of users.
- To Provide full satisfaction to users.
- To enable the functionalities that are necessary for the users

# II. Problem Statement/definition.

will be beneficial Our main aim is to create a web application that for the users and vendors find suitable products requirements conveniently. to per the much more product describing Users can find the by their requirements and the product get with ease.

### III. System Architecture

A proposed system architecture for an e-commerce website using the MERN stack (MongoDB, Express, React, and Node.js) would consist of several components:

Front-end: The user interface of the system, built with React, will be responsible for rendering the user interface and communicating with the back-end API.

Back-end: The backend will be built with Node.js and Express, which will be responsible for handling requests from the front-end and communicating with the database

Database: MongoDB will be used as the database for storing all the information related to patients, doctors, appointments, and any other relevant information.

API: The back-end API will provide a set of endpoints that will be used by the front end to create, read, update, and delete data from the database.

Authentication: A system for user authentication and authorization will be implemented to ensure that only authorized users can access sensitive information.

Deployment: The system will be deployed on a cloud platform like AWS to ensure scalability and availability.

#### IV. System Implementation

The Mern Store is a web application built using the MERN stack (MongoDB, Express.js, React.js, and Node.js) that allows users to browse through different products. The application is divided into two main parts: the backend and the frontend.

### Backend:

The backend of the application is built using Node.js and Express.js. It is responsible for handling all the business logic and interacting with the database.

The backend consists of the following modules:

- Authentication Module: This module is responsible for authenticating users and ensuring that only authorized users can access the application.
- User Management Module: This module is responsible for managing users' data such as their profiles and purchase records.
- Items Module: This module is responsible for displaying the status of the item i.e whether it is in stock or out of-stock.
- Database Module: This module is responsible for interacting with the database to store and retrieve data.

The backend of the application is designed using the REST ful API architecture, which allows for easy communication between the frontend and the backend.

### Frontend:

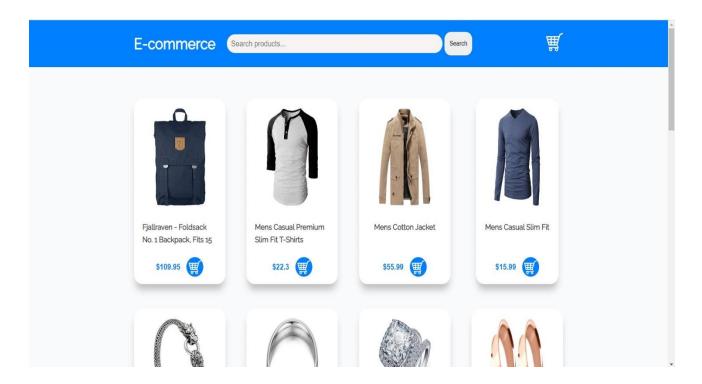
The frontend of the application is built using React.js. It is responsible for presenting the user interface to the users and interacting with the backend through RESTful APIs. The frontend consists of the following modules:

- Authentication Module: This module is responsible for authenticating users and ensuring that only authorized users can access the application.
- User Profile Module: This module is responsible for managing users' profiles and allowing them to view their appointments.
- Items Module: This module is responsible for displaying the status of the item i.e whether it is in stock or out of-stock.
- Add to Cart Module: This module is responsible for allowing users to add to cart their product which can be purchased later.

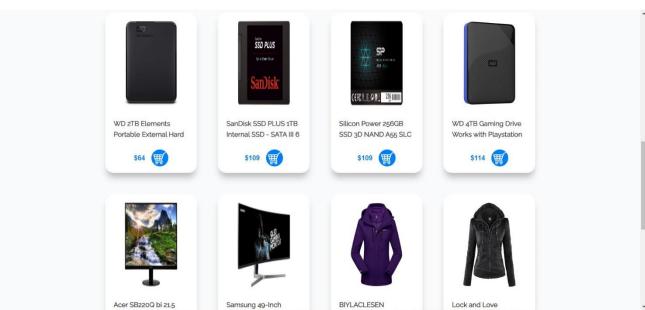
The frontend of the application is designed using the React.js library and is built using modern web development technologies such as Redux, React Router, and Axios. The frontend is also responsive, which means it can be accessed from any device, including mobile phones and tablets.

## V. Results

# Home Page:



## Products:





Acer SB220Q bi 21.5 inches Full HD (1920 x

\$599





Samsung 49-Inch CHG90 144Hz Curved

\$999.99





**BIYLACLESEN** Women's 3-in-1

\$56.99





Lock and Love Women's Removable

\$29.95





Rain Jacket Women Windbreaker Striped

\$39.99







Opna Women's Short Sleeve Moisture

\$7.95



DANVOUY Womens T Shirt Casual Cotton





Fjallraven - Foldsack No. 1 Backpack, Fits 15

\$109.95





Mens Casual Premium Slim Fit T-Shirts





Mens Cotton Jacket





Mens Casual Slim Fit





John Hardy Women's Legends Naga Gold &

\$695





Solid Gold Petite Micropave

\$168





White Gold Plated **Princess** 

\$9.99



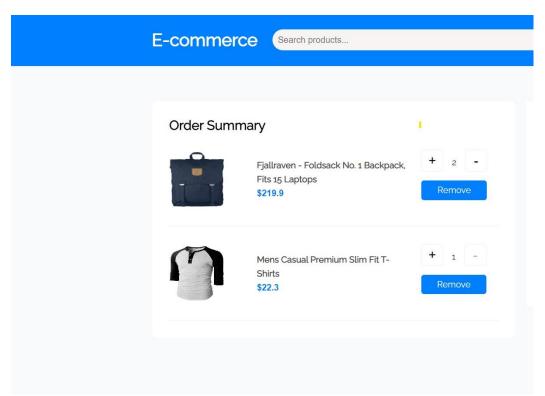


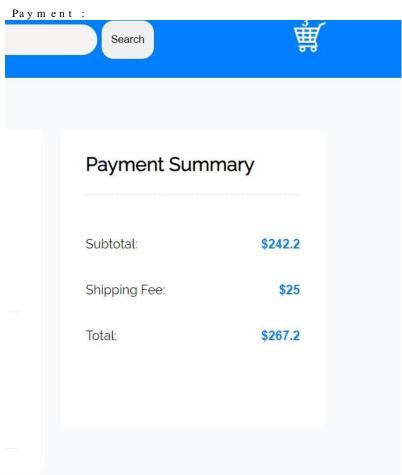
Pierced Owl Rose Gold Plated Stainless Steel

\$10.99



## Cart:





# Con clusion

MERN valuable for simplifying the purchasing selling goods. tool process and While potential there are some limitations to consider, the benefits of the system outweigh the provides drawbacks. With its comprehensive features, the an efficient and cost-effective system solution for product purchase facilities and users alike.