MINI-PROJECT II
(2020-2021)

Synopsis

E-COMMERCE STORE

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INTRODUCTION

This project is aimed at developing an online dynamic website for an E-commerce store which can be used by people to list their business on the website and will also provide customers to buy the products online directly from the store. The website is based on HTML, CSS, Bootstrap, JavaScript and MERN (MongoDB, Express, React and NodeJS).

Customers can register and log into the website and can also buy the products directly from the store. This will help local businesses to register their products on the website. This will keep the records of every business registered and products purchased. It will eventually help local businesses to increase their profits and people to buy the goods from the comfort of their homes. Users can see the products from the website and can insert the reviews of the products.

Our website will contain a Homepage where all the basic information about the store and details of the products will be available. This dynamic site is easy to operate and user friendly.

OBJECTIVE OF THE PROJECT

Today the web and its blast have made another monetary situation that not just weighs on the old style idea of the "item" yet additionally on the cutting edge of "administration". It is this degree of administration that directs whether a business adventure will succeed or not in the market. To give a high openness of administration we will structure the online electronic shopping site, with the goal that potential clients need not go to a physical shop to purchase items or administrations.

An E-Commerce portal which will allow formal and informal merchants in developing countries to advertise and sell their goods on the internet. This would permit rural communities to make their wares available to the rest of the world via the World Wide Web. The objective of this project is to create an e-commerce web portal with a content management system which would allow product information to be updated securely using a system. The web portal will have an online interface in the form of an e-commerce website that will allow users to buy goods from the merchants. This web portal will allow local organizations and start-ups to start their businesses and reach out the market.

MOTIVATION

The online shopping practices are increasing rapidly, thanks to digitalization. Online store owners are always eager to know how to increase traffic on their e-commerce sites and how to increase their profits to earn more revenues. So E-commerce drives, profitable growth by expanding customer reach, reducing cost to serve and creating differentiated customer experiences. Hence by this, bringing together the various local businesses to the single platform so that anyone can access them anywhere according to their need.

So, with the increasing importance of online sales and the growing number of customers visiting online stores we are going to develop a website which helps to save the time of the users. This website encourages local businesses to create their online store and supports them to run their business to grow.

TECHNOLOGIES USED

E-commerce online stores are made by using ***"MERN"*** stack technology. These are:

1. **MongoDB:** MongoDB is a document-oriented database. It does not use tables and rows to store the data, but instead *collections of JSON-like documents.* These documents support embedded fields, so related data can be stored.

It is also a schema-less database, which means we do not need to specify the number or type of columns before inserting our data.

2. **Express:** Express.js is a Node.js web application server framework, which is specifically designed for building single-page, multi-page, and hybrid web applications.

3. **React:** React is an open-source, front end, JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications.

4. **Node.js:** We are using Node.js as backend technology. It is an open source server environment. It uses java script on server

Along with the “MERN” technologies, we will be using:

HTML: For user interfaces.

CSS: For making interfaces more attractive and stylish.

Bootstrap 4: To make the website responsive and more attractive.

MODULES

"E-commerce" will contain 3 modules. You can find these pages when you login or sign-up as:

- **BUYER**
  - My Account
  - Forget Password
  - Change Password
  - Edit Profile
  - Buy Product
  - My Orders
  - Order History
  - About Us
  - Contact Us

- **SELLER**
    - My Account
    - Forget Password
    - Change Password
    - View Listed Products
    - View Placed Orders
    - About Us
    - Contact Us

- **ADMINISTRATORS**
    - Admin Login
    - Add or Edit Users
    - Change Password
    - View placed orders
    - About Us
    - Contact Us

REQUIREMENTS

➢Hardware Used:

- Processor: Intel i5
- RAM: 8 GB
- Hard disk: 256GB

➢Software Used:

- Microsoft Windows 7/8/10 or Linux
- VS Code or any other text editor
- Node js
- MongoDB
- Chrome or any other browser

FUTURE SCOPE

The future scopes for this project are many.

● Online payment options can be introduced. Electronic payment allows your customers to make cashless payments for goods and services through cards, mobile phones or the internet.

● Apps can also be created. Statistics suggest the future of internet lies in mobiles. Experts say more than 580 million people in India will use the Internet by 2018, and 70-80% of them will access the Web on mobile phones. This will cause all major players to switch to app only models. For users in small cities and towns the app-only approach assumes larger significance in these places where most people don’t own desktop computers and have limited access to broadband.

REFERENCES

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