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SYNOPSIS

ON

**E-Commerce Website**

Submitted By:

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Submitted To:

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DESIGNATION – Technical Trainer

DEPARTMENT – CEA

**E-commerce Website**

 An E-Commerce website which will allow the merchant to to advertise and sell their goods on the internet. This will enable the merchant to access the vast user database on the world wide web

**Objectives of Project:**

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 mobile device. 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. The e-commerce portal will have the following key features:

An online shop that will allow online shoppers to buy wares from formal and informal merchants.

A search engine on the website to allow customers to find specific types of merchandise.

A secure online transaction system that will allow shoppers to purchase goods safely using their credit cards.

A database of merchandise with photos, product descriptions and stock information. This database will also contain all relevant merchant and customer information.

A data security system that will ensure that all data that is transmitted between the various system.

**Technology to be used:**

Front End: CSS(cascading style sheets) , HTML , BootStrap, JavaScript.

Backend: Node.js, MongoDB, JavaScript.

Java Script:

JavaScript is a versatile and widely used programming language that plays a crucial role in modern web development. Initially developed by Netscape as a client-side scripting language for web browsers, JavaScript has evolved over the years into a powerful and multifaceted language that runs not only in browsers but also on servers and a variety of other environments.

CSS:

CSS stands for "Cascading Style Sheets." It is a programming language used in web development to control the visual presentation and layout of HTML elements on a webpage. CSS allows developers to define how elements should be displayed, including their colors, fonts, spacing, positioning, and more.

HTML:

HTML stands for "HyperText Markup Language." It is the standard markup language used to create and structure content on the World Wide Web. HTML provides a way to define the structure of web documents, including text, images, links, and other multimedia elements, allowing browsers to render and display these documents as webpages.

Nodejs:

Node.js is a runtime environment that allows you to execute JavaScript code on the server side, enabling server-side scripting and building scalable network applications.

**Scope:**

1.Product Catalog: Create a database to store product information, including images, descriptions, and prices.

2. User Registration and Authentication: Allow users to create accounts, log in, and manage their profiles.

3. Shopping Cart: Implement a simple shopping cart system that allows users to add/remove items before checkout.

4.Checkout Process: Design a straightforward checkout process with basic shipping and payment options.

5.Order Confirmation: Send users a confirmation email after they make a purchase.

6.Admin Panel: Create a basic admin panel to manage products, view orders, and update the website content.

7.Responsive Design: Ensure your website looks good and functions well on different devices (desktop, tablet, and mobile).

8.Security Measures: Implement basic security measures to protect user data and transactions.

**Hardware Specification**

Processor: Any Processor. Processor Speed: 1GHz to 2GHz.RAM: 256MB and above. Hard Disk: No Storage Required. Keyboard: Any Keyboard.

**Software Specification.**

Browsers: Chrome, Firefox, Microsoft Edge, Internet Explorer, etc.

**Team Members**

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**References**

w3school

You Tube

GitHub

**Expected Outcomes**

The E-commerce website mini project will deliver a functional, user-friendly online platform that boosts online presence, enhances the shopping experience, drives sales and revenue, captures valuable data, ensures mobile responsiveness, offers secure payment options, and integrates customer feedback and reviews, while maintaining strong security measures and social media connections.

**Project Mentor:**

Prof. Ruchi Talwar

**Conclusion:**

This research paper provides an overview of the development of e-commerce websites. While understanding its various aspects in more detail with a specific focus on B2C e-commerce. This has seen phenomenal growth in recent years due to increasing consumer awareness, investor confidence and the ubiquity of the technology. The study has also revealed certain trends and factors that will drive the growth of the Indian e-commerce market. A sustainable business practice would be to promote e-commerce and e-commerce as complementary products rather than substitutes for traditional activities. Synergy between offline and online business will improve efficiency and lead to a more stable existence. The long-term also involves a scenario that would see an increase in niche businesses, as well as mergers and acquisitions activities to allow businesses to grow organically. Businesses must commit to providing services and adopting internet marketing, in order to gain and retain a larger audience. With the penetration of mobile phones, opportunities are emerging in rural markets, namely mobile application infrastructure, content development in local languages, and connectivity that can.