

# **E-Commerce**

## **MINI PROJECT – I**

### **SYNOPSIS**



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## **Acknowledgement**

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## **ABSTRACT**

In today's world, every retail shop owner faces the problem of constant fall of customers, reason being the digital platforms taking over the business world. In order to survive the entrepreneur competition going on, the local shop owners now have to take their business strategies to a new level, by including the digitalization and e-marketing for their business. They need to provide the clients/customers door-step service, where they can provide the customer the most reliable and an easy service.

We have taken over this project of developing a website for clothing products dealer to help him make profits in the earning and provide the customers the features that can ease their problems regarding what to buy.

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## **INTRODUCTION**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

The objective of this project is to develop a general purpose e-commerce store where product like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes.

## **SOFTWARE AND HARDWARE REQUIREMENTS**

- HTML5
- CSS3
- JavaScript
- Bootstrap5
- React
- Node
- Express
- MongoDB

## **PROJECT DESCRIPTION**

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

## **Working**

Any member can register and view available products. Only registered member can purchase multiple products regardless of quantity. Contact Us page is available to contact Admin for queries. There are three roles available: Visitor, User and Admin. Visitor can view available products. User can view and purchase products. An Admin has some extra privilege including all privilege of visitor and user. Admin can add products, edit product information and add/remove product. Admin can add user, edit user information and can remove user. Admin can ship order to user based on order placed by sending confirmation mail.

### **ONLINE SHOPPING APPLICATION:**

Anyone can view Online Shopping portal and available products, but every user must login by his/her Username and password in order to purchase or order products. Unregistered members can register by navigating to registration page. Only Admin will have access to modify roles, by default developer can only be an 'Admin'. Once user register site, his default role will be 'User'.

#### HOME PAGE:

The Home Screen will consist of screen where one can browse through the products which we have on our website

#### Arrival:

This page consists of new product details. This page appears same for both visitors and users.

#### Featured:

This page consists of featured products which can be managed by admin of the website.

#### Contact Us Page:

Visitors and Registered users can contact website owners or administrators from here.

#### ABOUT US PAGE:

This page describes about website and owners

#### REGISTER PAGE:

New users can register here.

#### LOGIN PAGE:

Login page for both users and administrators.

#### Admin Page:

Only difference you see in this page is Role: Admin. User and Admin role will be checked once the page was login and Session ["role"] will be either Admin or User. If credentials belong to Admin then role will be Admin and if credentials belong to User then role will be User.



ORDER VIEW FOR USER: Once users order item they are able to see ordered products and grand total.

PAYMENT: Once users orders products they are redirected to payment page.

## **IMPLEMENTATION**

Java script is a scripting language used to enhance the functionality of the browser. Java script is integrated with HTML and navigator

2.02. Java script facilitates the developer with properties related to document windows, frames, loaded documents and link.

By using React, we can build encapsulated components that manage their own state, then compose them to make complex UIs. Since component logic is written in JavaScript instead of templates, we can easily pass rich data through our app and keep state out of the DOM.

Node.js is a cross-platform JavaScript runtime environment that allows developers to build server-side and network applications with JavaScript.

Express is a popular unopinionated web framework, written in JavaScript and hosted within the Node.js runtime environment. This module explains some of the key benefits of the framework, how to set up your development environment and how to perform common web development and deployment tasks.

MongoDB shows how to create an application that uses the MongoDB Node.js driver to connect to a MongoDB cluster hosted on MongoDB Atlas. MongoDB Atlas is a fully managed cloud database service that is used to host our MongoDB servers.

## **REFERENCES:**

### **Books:**

- Designing and Web Standards  
-Jeffrey Jeldman with Ethan Marcotte
- React in Action  
-Mark Teileins Thomas(2018)
- Fullstack React: The Complete Guide to ReactJS and Friends  
-Nate Murray(2017)

**Websites:**

- <https://developer.mozilla.org/en-US/>
- [www.google.com](http://www.google.com)
- [www.w3schools.com](http://www.w3schools.com)
- <https://reactjs.org>
- [www.projectdeveloper.com](http://www.projectdeveloper.com)
- [www.udemy.com/](http://www.udemy.com/)

**Faculty Guidelines:**

Ms. Ruchi Talwar (Technical Trainer in GLA University)

**GitHub Repository link:**

<https://github.com/pavangupta352/e-commerce-mini-project>