MINI PROJECT-2

**(2021-2022)**

**E-Commerce Website**

**(Full-Stack)**

**SYNOPSIS**

**Department of Computer Engineering & Applications** **Institute of Engineering & Technology**





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# ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the synopsis of B.Tech Mini Project **E commerce website** undertaken during B.Tech IIIrd Year. This project in itself is going to be an acknowledgement to the inspiration, drive and technical assistance that has motivated individuals like us.

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We would also like to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

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# E- commerce website

## (Full-Stack)

The project is a platform where customers can buy various items which are generally required in the daily life. Thus, customers would be able to find such items directly on a website without going out for shopping ,at low prices.

User functionalities-:

* There are following users: Customers and Admin
* Sellers who are accessing this website can upload the details of the item they want to rent or sell.
* Buyers who are accessing this website can see the details of the item they want to buy and ca­n purchase the item as well.
* Guests can visit the homepage and contact the admin via message.

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**PROJECT ANALYSIS:**

**Introduction**

## 1.1 Overview

Ecommerce, also known as electronic commerce or internet commerce, refers to the buying and selling of goods or services using the internet, and the transfer of money and data to execute these transactions. Ecommerce is often used to refer to the sale of physical products online, but it can also describe any kind of commercial transaction that is facilitated through the internet.

Whereas e-business refers to all aspects of operating an online business, ecommerce refers specifically to the transaction of goods and services

## 1.2 Motivation

The advancement in technology has made our lives easy like never before. Everything that we require is available at our fingertips. With few taps on our smartphones, we can complete tasks in minimal time. From shopping to food everything is just a few clicks away,In this project we will be creating a e –commerce website using react and redux for the frontend and to make backend scalable we used Node js and Mongodb as a database,user can create account for accessing the service and every detail will be stored in the database ,further user can filter the search for better experience of shopping , also items could be added to the cart and user can proceed by filling the shipping address details ,along with this there will be a track of ordered items in order history. . With just a few click of a button, user can complete his/her shopping . We will also be adding admin login ,through which admin can add or remove any of the products as per the conditions .

We will make this website completely responsive so that its services can be accessed from any of the screens whether it be desktop or a smartphone.

Product rating and review will also be asked from the user for better shopping experience for upcoming customers.

So we will be using MERN stack technologies for implementation of this user friendly website.

Therefore with this website shopping becomes super easy for customers as they can view and buy products according to their choice also then can search from a variety of range.

## 1.3 Objective

This is a platform where buyers can buy or admin can add items for selling which are generally required for daily life.Thus, we aim to provide a very user friendly user interface where user can add items in cart ,search according to his wish by applying filters ,give review on products according to their experience with the product and can finally order the product .

User functionalities-:

* There are following users: Buyers, Admin
* Sellers who are accessing this website can upload the details of the item they want to rent or sell.
* Buyers who are accessing this website can see the details of the item they want to buy and ca­n purchase the item as well.
* Guests can visit the homepage and contact the admin via message.

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# REQUIREMENT ANALYSIS

**HARDWARE REQUIREMENT (**MINIMUM**)**

* 2 GB RAM
* Dual Core Processor
* Internet Connections
* Storage Devices for Backup

## SOFTWARE REQUIREMENT-

* **SYSTEM SOFTWARE** 
  + Operating System (Windows, Linux**)**
* **APPLICATION SOFTWARE** 
  + **Programming Language:** JavaScript
  + **Tools:** Visual Studio Code Editor
  + **Front-End:** React JS
  + **Back-End:** MongoDB, Express JS, Node JS

# TECHNOLOGY USED

**JavaScript:** JavaScript is used for client-side scripting which can help in using validation on the website and many more other functions.

**React JS:** It is an open source JavaScript library that can be used for building user interfaces and reusable UI components.

**Mongo DB:** It is a document oriented NoSQL database used for high volume data storage.

**Express JS:** It allows to set up middleware to respond to HTTP requests.

**Node JS:** It is an open source, cross-platform runtime environment for developing server-side and networking applications.

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## Faculty Mentor-

▪ **Mr. Akash Kumar Chaudhary**