

# **FULL STACK PROJECT II (2020-2021)**



## **Synopsis**

### **E-COMMERCE PORTAL**

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# INTRODUCTION

This project is aimed at developing an online dynamic website for an E-commerce portal 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 React.

Customers can see the products directly from the store. This will help local businesses to register their products on the website. It will eventually help local businesses to increase their profits and people to buy the goods from the comfort of their homes.

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

# OBJECTIVE OF THE PROJECT

An E-Commerce portal which will allow 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 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 ecommerce 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

### **Web Development:**

Web programming, also known as web development, is the creation of dynamic web applications. Examples of web applications are social networking sites like Facebook or e-commerce sites like Amazon.

Web development is a specific field of software engineering that focuses on building web pages. Web pages, or web apps, are codebases that are downloaded and run in our web browser (e.g., Google Chrome) each time a user navigates to the website address.

This differs from other software which is usually downloaded once and run as a standalone application on your computer or phone. We can also think of web development as being split into two main categories: front end and back end.

Front end is what we see when we open a web page or app. Code is downloaded from a server and is rendered to the screen by a web browser. What happens when we interact with the code is also considered front end. This is often referred to as the 'Presentation Layer' or 'Client' in software development terms. The front end is built out of three languages: HTML, CSS, and JavaScript.

**HTML**: Hyper Text Mark-up Language is the standard language for creating documents for the World Wide Web. An HTML document is a text file, which contains the elements, in the form of tags that a web browser uses to display text, multimedia objects, and hyperlinks using HTML; we can format a document for display and add hyperlinks to other documents. The user interface has been designed in HTML hence can be browsed in any web browser. HTML code ensures the proper formatting of text and images so that your Internet browser may display them as they are intended to look. Without HTML, a browser would not know how to display text as elements or load images or other elements. HTML also provides a basic structure of the page, upon which Cascading Style Sheets are overlaid to change its appearance. One could think of HTML as the bones (structure) of a web page, and CSS as its skin (appearance).

**CSS (Cascading Style Sheets)**: Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look

and feel part of a web page. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colours are used, layout designs, and variations in display for different devices and screen sizes as well as a variety of other effects. CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the mark-up languages HTML or XHTML.

**JAVA SCRIPT (JS):** JavaScript often abbreviated as JS, is a high level, interpreted programming language that conforms to the ECMAScript specification. It is a programming language that is characterized as dynamic, weakly typed, prototype-based and multi-paradigm.

**BOOTSTRAP:** Bootstrap is a web framework that focuses on simplifying the development of informative web pages (as opposed to web apps). The primary purpose of adding it to a web project is to apply Bootstrap's choices of colour, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result is a uniform appearance for prose, tables and form elements across web browsers.

**REACT:** React is a JavaScript library and React applications built on it run in the browser, NOT on the server. Applications of this kind only communicate with the server when necessary, which makes them very fast compared to traditional websites that force the user to wait for the server to re-render entire pages and send them to the browser. React is used for building user interfaces - what the user sees on their screen and interacts with to use your web app. This interface is split up into components, instead of having one huge page you break it up into smaller pieces known as components. In more general terms, this approach is called Modularity.

- It's declarative: React uses a declarative paradigm that makes it easier to reason about your application.
- It's efficient: React computes the minimal set of changes necessary to keep your DOM up-to-date.
- And it's flexible: React works with the libraries and frameworks that you already know.

React involves Composition that is lots of components wrapping up the functionalities into an encapsulated container.



# MODULES

- Dashboard: This is home page of our website.
- Hawkers: This consists of all the hawkers available online for selling their products.
- Feedback: Feedback area consists of all the feedbacks given by buyers.
- Vendors: This contains information about the vendors and their products.
- Place Order: This is used for placing order of the product of your choice.
- About Us: This page consist information of the team behind the idea of promoting local businesses.

# REQUIREMENTS

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## ➤ **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
- Chrome or any other browser

# REFERENCES

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1. <https://reactjs.org>
2. [www.w3schools.com](http://www.w3schools.com)
3. [www.youtube.com](http://www.youtube.com)
4. [www.bootstrap.com](http://www.bootstrap.com)
5. [www.stackoverflow.com](http://www.stackoverflow.com)