GLA UNIVERSITY

TOPIC: MINI PROJECT SYNOPSIS ON VEGETABLE E-COMMERCE WEBSITE

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Submitted to

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DECLARATION

We hereby declare that the project work entitled **"Vegible"** submitted to the GLA University, is a record of an original work done by us groupmates under the guidance of **Mr. Bhanu Kapoor**, and this project work is submitted in the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science & Engineering. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Mr. Bhanu Kapoor , Technical Trainer , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

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INTRODUCTION

Welcome to the introduction of our full-stack project on a Vegetable e-commerce website built using the MERN stack.

Our platform provides a user-friendly interface with features like search functionality, product filtering, shopping cart management, payment processing, and order tracking. Additionally, we have integrated advanced security features to protect user data and ensure secure online transactions.

Our website has been developed with a responsive design, making it accessible on multiple devices such as desktops, laptops, tablets, and smartphones. We have used modern development practices to ensure that our website is fast, reliable, and scalable to meet the growing demands of our users. In this project, we have used MongoDB as our database to store the product and user data. Express.js provides a robust framework for building APIs, and Node.js is used to run server-side JavaScript code. React has been used for the front-end development of our website, providing a dynamic and interactive user experience.

Overall, this Vegetable e-commerce website is a comprehensive project that demonstrates the full potential of the MERN stack. We hope you enjoy exploring our project and appreciate the effort we have put in to make it a reality.

Scope Of the Project

The scope of an e-commerce vegetable website MERN project would typically involve the following key features:

User registration and login: The website would need to allow users to create an account, log in, and manage their personal details.

Product catalog: The website would need to display a catalog of products, including images, descriptions, and pricing information.

Seller Editing Options : The seller can easily edit the information about the project the seller uploaded .

Overall, the scope of the project would involve creating a user-friendly, secure, and efficient e-commerce website that provides a seamless shopping experience for customers.

Working Methodology of the This Project

The working methodology of a full-stack e-commerce vegetable project involves several steps:

Planning and Design: This stage involves gathering requirements, identifying project goals, and creating a plan for the project. During this stage, the project team creates wireframes, mockups, and user stories to define the features and functionality of the website.

Front-end Development: The front-end development team creates the user interface and integrates it with the back-end functionality. This stage involves using React , HTML , CSS, and JavaScript to create a responsive and interactive user interface.

Back-end Development: The back-end development team creates the server-side logic, database schema, and API endpoints for the website. This stage involves using a technology stack like MERN (MongoDB, Express, React, Node.js) to create a robust and scalable back-end architecture.

Integration and Testing: The front-end and back-end teams work together to integrate their respective components and ensure that the website functions correctly. This stage involves testing the website for bugs, errors, and security vulnerabilities.

Deployment and Maintenance: Once the website has been tested and approved, it is deployed to a production environment. The maintenance team is responsible for monitoring the website, fixing bugs, and making updates as necessary.

Throughout the project, the team may use agile methodologies such as Scrum or Kanban to manage the development process, communicate with stakeholders, and ensure that the project meets its goals and objectives. Regular testing, code reviews, and continuous integration and deployment (CI/CD) practices may also be employed to ensure the quality of the final product.

Details About the Hardware and the Software

Software and hardware requirements

- A Mac, Linux, or Windows 10 or Windows 11 computer
- An internet connection
- A web browser like Chrome or Microsoft Edge

Frontend and backend

- FRONTEND – HTML, CSS, JAVASCRIPT, BOOTSTRAP, REACT JS
- BACKEND - MongoDB

Project description

The e-commerce website will consist of four main pages, including a Seller Login page, a Seller Register page, a Customer Home page, and a Seller Home page.

The Seller Login page will be the landing page for sellers, where they can enter their credentials to access their seller account. The page will have a login form with fields for email and password.

The Seller Register page will allow new sellers to create an account on the platform. The page will have a registration form with fields for personal information, email address, password, and other necessary details. Once the registration form is submitted, the seller's account will be created, and they will be redirected to the Seller Home page.

The Customer Home page will be the landing page for customers, where they can browse products, search for specific items, and make purchases. The page will have a search bar, a product listing section, and a shopping cart section.

The Seller Home page will be the main dashboard for sellers, where they can manage their inventory, add new products, update existing ones .

Overall, the e-commerce website will provide a seamless experience for both sellers and customers, making it easy for sellers to manage their inventory and sales, and for customers to find and purchase the products they need.

REFERENCES

Books:

- Full-Stack
  Modern Full-Stack Development

Pro MERN Stack

- React
  The Road to Learn React React

  Explained

- Full-Stack React Projects

Websites:

- https://reactjs.org/
- https://www.w3schools.com/
- https://getbootstrap.com/
- www.google.com

Faculty Guidelines:

Mr. Bhanu Kapoor (Technical Trainer , GLA University)

GitHub Repository link:

https://github.com/Yashgoyal1612/Mini-Project