

Project	Status
<p>Inspiration from</p> <ul style="list-style-type: none"> • Brown Living • Ecohoj • EcoLiving • 📺 How To Create Full Stack E-Commerce Website Usin... • Coconut Candle • Rice Husk Coffee Mug • Mojito Glass • Bamboo brush for kids • Cart Icon • 📺 Building a Responsive Carousel using React and Boo... • Banana Fiber Tote Bag • Muslin Cloth • Neemwood Comb • Bamboo Traditional Furniture set • Vegan Leather Hand Bag • Sweater and Beanie • Cushion • Bamboo Coffee Mug • Toilet Paper: 320 pulls • Gardening Kit • Areca Plates • Cork Yoga mat • Mobile Stand • Bamboo BT Speaker • Gmail Icon • Cotton Earbuds • Razorpay logo • Visa Logo • Net Banking Logo • Wallet Logo • UPI logo 	<p>Completed ▾</p>
<p>Web page</p> <ul style="list-style-type: none"> • Front end (Home, Latest Collection, Menu tabs, Login, Cart) • Responsive Design • Backend • Mongo Setup • Multer request • Fully Functional DB with Request sending • Admin : AddProduct and ListProduct • Login, Logout, Signup • DB filled with Product details • New Collections, All Products, Popular in Eco with requests • Add and Remove products in carts with req • Cart Items remain in DB even after log out • Description schema in mongo • Description render in frontend • Assets changes • Carousel instead before Hero Component • Remaining 5 components made - Content filling left out • About 	<p>Completed ▾</p>

Project	Status
<ul style="list-style-type: none"> • Contact • Help • TnC • Payment Gateway dummy • INTRODUCTION • LITERATURE REVIEW / RELATED RESEARCH OUTCOMES • METHODOLOGY • CONCLUSION AND FUTURE PLAN • REFERENCES • DETAILED METHODOLOGY • Environmental support • Remove hyperlink • Block diagram of total workflow • Report • Title page • Content page • Eco friendly vs Sustainable • Conclusion and Thank you 	
<ul style="list-style-type: none"> • <u>PPT (By Monday evening) 74% LEFT OUT</u> • <u>READ 8 JOURNALS - AT LEAST THE ABSTRACT AND THE INTRODUCTION (GIVEN INSIDE REPORT-REFERENCES)</u> 	Not started ▾

Youtube video link:

📺 [How To Create Full Stack E-Commerce Website Using React JS, MongoDB, Express & Node JS 2024](#)

Requirement for the project to run completely fine:

Softwares and Tools:

NodeJS v20 (LTS), npm (Node Package Manager v10.4.0), VSCode, MongoDB Atlas, React Bootstrap (2.10.2)

Commands: (run one by one - all mandatory)

```
npm install -g npm@10.4.0
```

Frontend (PORT: 3000):

```
npx create-react-app .
npm install react-router-dom
npm install react-bootstrap bootstrap
npm run start
```

Backend (PORT: 4000):

```
npm init
npm install express
npm install jsonwebtoken
npm install mongoose
npm install multer
npm install cors
```

```
npm install --save-dev nodemon  
npm run dev
```

Admin (PORT: 5173):

```
npm create vite@latest .  
npm install  
npm run dev
```

Git:

```
git add .  
git commit -m "Your message"  
git push  
git pull (for Anirudh, Srijan and Ishita only)  
git status (for checking what's the status)
```

latestCollectionRedirect

- #659865 GREY GREEN
- #3c5b3c FADED LEAF GREEN OR #0a6c0a
- **White**
- Black

React is a JavaScript library primarily used for building user interfaces in web applications. It is widely utilized in front-end development to create dynamic and interactive UI components, offering a declarative and component-based approach to building UIs. React's virtual DOM efficiently updates and renders UI components, enhancing performance and enabling seamless user experiences. With its reusable component architecture and state management capabilities, React simplifies the development process and promotes code reusability, making it a popular choice among developers for building modern web applications.

Express is a minimalist web application framework for Node.js, designed to simplify the process of building server-side applications and APIs. It provides a robust set of features for routing, middleware integration, and handling HTTP requests, enabling developers to create scalable and efficient server applications with ease. Express's lightweight and opinionated nature allows developers to structure their applications according to their preferences, providing flexibility and control over the development process. With its extensive ecosystem of middleware and plugins, Express facilitates rapid development and enables the creation of RESTful APIs and web servers with minimal boilerplate code.

Node.js is a JavaScript runtime environment that allows developers to run JavaScript code on the server-side, facilitating the development of scalable and high-performance server applications. Asynchronous and event-driven, Node.js employs a non-blocking I/O model that enables handling concurrent requests efficiently, making it ideal for building real-time applications and APIs. Node.js's event-driven architecture leverages callbacks and event loops to manage asynchronous operations, ensuring optimal performance and responsiveness. With its vast ecosystem of modules and packages available via npm (Node Package Manager), Node.js enables developers to build a wide range of server-side applications, including web servers, microservices, and IoT (Internet of Things) devices.

MongoDB is a NoSQL database management system that stores data in flexible, JSON-like documents, making it suitable for handling large volumes of unstructured data. As a document-oriented database, MongoDB provides a scalable and high-performance solution for storing and retrieving data in modern web applications. With its dynamic schema and support for nested data structures, MongoDB offers flexibility and agility in data modeling, allowing developers to adapt quickly to evolving application requirements. MongoDB's distributed architecture and built-in replication and sharding capabilities ensure high availability and scalability, making it well-suited for applications with demanding scalability and performance requirements. Additionally, MongoDB's query language

and indexing features enable efficient data retrieval and manipulation, facilitating rapid development and deployment of data-driven web applications.

Vite is a modern build tool for front-end development that leverages the power of ES modules and native browser support for modern JavaScript features. Unlike traditional bundlers like webpack, Vite takes advantage of native module loading capabilities in modern browsers, resulting in significantly faster build times during development. By serving dependencies as ES modules without bundling them into a single file, Vite eliminates the need for time-consuming bundling processes, enabling instant server start-up and rapid module hot-reloading. With its dev server powered by native ES modules, Vite provides a highly efficient development environment, allowing developers to focus on writing code without the overhead of complex build configurations. Additionally, Vite's support for plugins and pre-configured development setups for popular frameworks like React, Vue.js, and Svelte further streamlines the development process, making it an indispensable tool for modern web development workflows.

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- De Silva, C.M.K., De Silva, A.S., Maduwantha, K.I., Dewpura, D.A.I.U., De Silva, D.I. and De Zoysa, R.R.P., 2022. Efficiency of an E-Commerce Web Application with MERN Stack and Modern Tools. *International Journal of Engineering and Management Research*, 12(5), pp.349-356. (8)
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Compiled successfully!

You can now view frontend in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.29.143:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

PS G:\Project\GreenCart\admin> npm run dev

> admin@0.0.0 dev
> vite

VITE v5.2.11 ready in 2091 ms

→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help

> backend@1.0.0 dev
> nodemon ./index.js

[nodemon] 3.1.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node ./index.js`
Server running on Port 4000

PPT FLOW:

- INTRODUCTION
- INDEX
- WHAT AND WHY / MOTIVATION / MISSION VISION
- ECO FRIENDLY VS SUSTAINABLE
- USP - GREEN TOUR AND HELP
- WEBSITE WORKING (FEATURES - MENU, CATEGORIES, LOGIN SIGNUP, CART)
- TECH STACK
- CONCLUSION AND FUTURE PLAN
- THANK YOU