

# CAR PRODUCT SYSTEM

## A PROJECT REPORT

*Submitted for*

**CSE3009 – NoSQL Databases**

*by*

**Koduri Gokul-19BCD7006**

**B.Arshith Gopal-19bce7402**



SCHOOL OF COMPUTER SCIENCE ENGINEERING  
VIT-AP UNIVERSITY  
AMARAVATI- 522237

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# 1 ABSTRACT

This project focuses mainly on overcoming manual errors and maintaining a computerized system. It is an online application from which users can easily manage car parts, mechanic work details, billing details and sales details.

## CHAPTER 1 INTRODUCTION

The Automotive industry is the key driver of any growing economy. A sound transportation system plays a pivotal role in a country's rapid economic and industrial development. Nowadays making a decision while buying parts can be incredibly frustrating, because of the many possibilities. The market is often flooded with an incredible number of options and it can be hard to determine which part is the right one for the job.

## **1.1 Objectives**

The following are the objectives of this project:

- Money Saving.
- Time Saving.
- The online market works for 24x7x365 days a year.
- This means you don't have to worry about the time and can shop anytime from anywhere.
- All you need is a working internet connection.
- Online buying of car parts gives bigger reach and without worrying about the distances

## **1.2 Background and Literature Survey**

It's important to know the difference between used OEM parts and aftermarket parts. The gained knowledge will help to make the best choice, without being frustrated afterwards. Components of an automobile or other manufactured goods, kept in reserve to replace parts that fail. In supply usage, any part, component, or subassembly kept in reserve for the maintenance and repair of major items of equipment. Knowing your car in and out is very important. When your car breaks down in the middle of nowhere, your knowledge on auto parts can help you get started again. Get to know your vehicle thoroughly and completely. It is always good to take some time to surf through several vendors' stores and note down what each seller offers for the particular auto part you are seeking. better than spending time dealing with some of the shopping stores and they increase the price. Usually we try to be honest 100% and get the same barcode like the same part we want to sell. to guarantee if it's available and the original one.

## **1.3 Organization of the Report**

The remaining chapters of the project report are described as follows:

- Chapter 2 contains the proposed system, methodology and software details.
- Chapter 3 gives the cost involved in the implementation of the project.

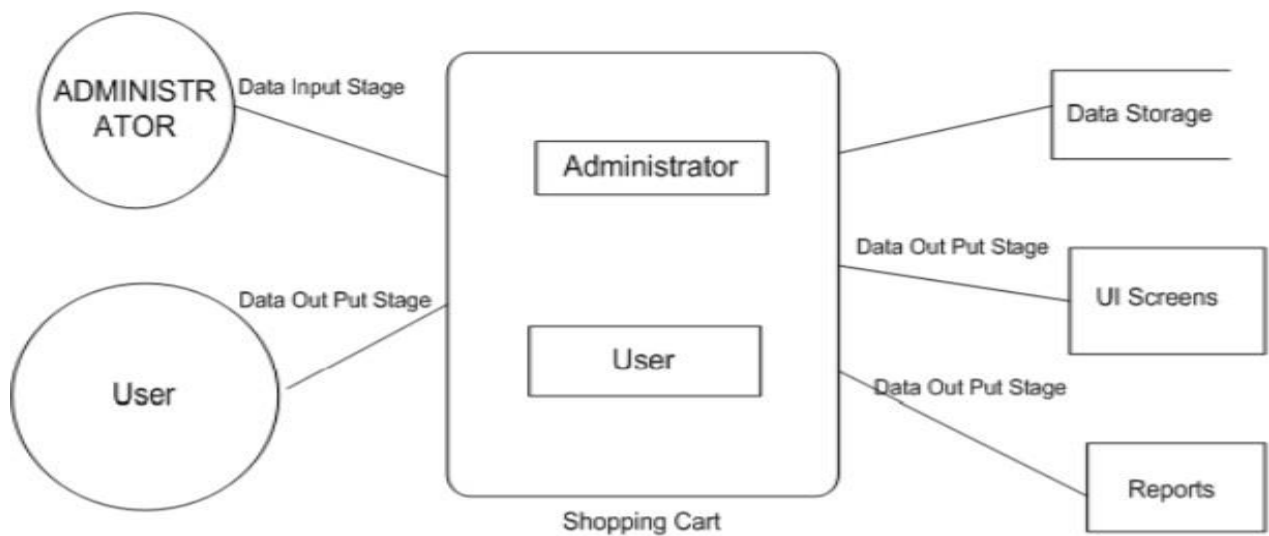
- Chapter 4 discusses the results obtained after the project was implemented.
- Chapter 5 concludes the report.
- Chapter 6 consists of code.
- Chapter 7 gives references.

## CHAPTER 2

This Chapter describes the proposed system, working methodology and software details.

### 2.1 Proposed System

The following block diagram shows the system architecture of this project.



## **2.2 Working Methodology**

The project is completely based on software with two sections, front-end and back-end. The front-end consists of an HTML (Hypertext Markup Language) file and a CSS (Cascading Style Sheets) file.

Being a static website, it has been hosted on the MongoDB cloud using the JavaScript 'Node.js' and 'Express site search generator'.

In this project, we are going to build a car parts shop which is a very simple website and users can easily browse sites and can add either a parts or mechanic workers names.

For example, if we want to add tyres, we can provide the URL and a description and then save it. So that it will be able to be viewed on the site. The process is similar for mechanical workers too.

### **2.2.1 App setup and Pug Intro:**

For creating this application, we used an Express generator and pug file which helps us to use the pod template.

Pug is a template engine for Node.js. A template engine allows us to inject data and then produce HTML.

In this stage we actually create the front-end of the website by introducing NPM (Node Package Manager) and pug.

4

### **2.2.2 Add Website:**

In this stage, we will be able to add a website by creating a new file called add\_website.pug in which URL, title, description, required text area for description and submit button are created. And then we are going to have a model function called website, this will take the model and call add\_website.pug. And going to pass along that website and then our call back will just use a function.

We're going to create a folder called Models in which we're going to bring in Mongoose and Mongoose search plugin. By creating the schema called website schema in which we will be adding the search plug, using this model we are storing the websites which we have added.

### **2.2.3 Search Website:**

In this we can add a website we want to do and we are able to search for it. We're going to bring in our model and have a function called search websites which functions by passing our search text and we'll have our call back in return this call back displays the websites with title.

If there is an error or any unknown website is searched, it will return to the home page.

### **2.2.4 Add products and search:**

The process is the same as website search.

Create a new file called articles.js in the route folder and a model file 'article.js'. Similar to the function of a website, when a product is posted, the fields of articles like URL, price, review, description are displayed.

## **3.1 Databases and attributes**

We used MongoDB and Mongoose models for data collection and storage. **3.1.1 MongoDB:** It is a document database, which means it stores data in JSON-like documents. **3.1.2 Mongoose:** Mongoose is an Object Data Modeling (ODM) library for MongoDB and Node.js. It manages relationships between data, provides schema validation, and is used to translate between objects

in code and the representation of those objects in MongoDB.

## CHAPTER 4

### RESULTS AND DISCUSSIONS

The application consists of a web page allowing the user to add a website's title, URL, and description (if needed) and product title, price, review and save it. Further when we search for a particular website or a product, it automatically comes up.

The screenshot shows a web application interface with a black navigation bar at the top containing links: Home, Products, Near By shop, Mechanical Work, a search bar with a 'Search' button, and links for Cart and Sign In. The main content area has a light green background. In the center, there is an orange-bordered box titled 'Create Account'. Inside this box, there are four input fields labeled 'Name', 'Email', 'Password', and 'Re-Enter Password'. Below these fields is an orange 'Register' button. At the bottom of the box, there is a link 'Already have an account?' followed by a grey 'Sign-in' button.

The screenshot shows the same web application interface as above. The main content area features a light green background. In the center, there is an orange-bordered box titled 'Sign In'. Inside this box, there are two input fields labeled 'Email' and 'Password'. Below these fields is an orange 'Signin' button. At the bottom of the box, there is a link 'New to Login?' followed by a grey 'Create your account' button. A dark blue footer bar at the bottom of the page contains the text 'All right reserved.'

[Home](#)
[Products](#)
[Near By shop](#)
[Mechanical Work](#)


[Cart](#)
[Sign In](#)

# Car Production System

## CAR SPARE PARTS

This increases the possibility to find the item you are looking for as compared to the store located in your neighbourhood. This is especially true when you are looking not so popular vehicles most of the times, customers can find them through the model and maker name of the car. In any of the case, it is very simple and easy to find what you need is available in a few minutes.

### Products

**AIR-CONDITINER**

**BRAKE SYSTEM**

**CAR ENGINE**

**CLUTCH SYSTEM**

localhost:3000

[Home](#)
[Products](#)
[Near By shop](#)
[Mechanical Work](#)


[Cart](#)
[Sign In](#)

**Name:airbag**  
Brand :BMW  
Rs.10000  
Rating:0 Stars

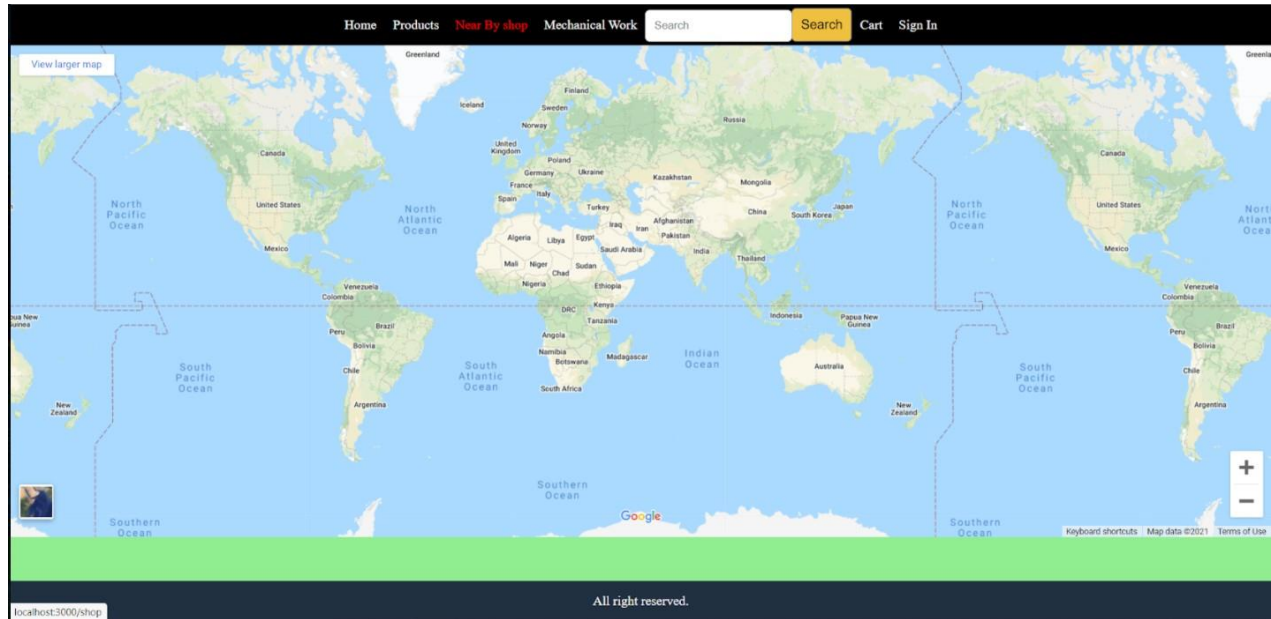
**Name:Air Conditioner**  
Brand :BMW  
Rs.5000  
Rating:0 Stars

**Name:Battery**  
Brand :skoda  
Rs.20000  
Rating:0 Stars

**Name:BrakeSystem**  
Brand :skoda  
Rs.25000  
Rating:0 Stars

localhost:3000/product





Home Products Near By shop Mechanical Work Search Search Cart Sign In			
Ram	Krishna Prasad	Hari Prasad	Ram Krishna
Specialization : Expert in Air Conditioner Repair, Cluch System..	Specialization : Expert in Air Conditioner Repair, Steering part, Battery repair...	Specialization : Expert in Air Bag Repair, Car Engine..	Specialization : Expert in Air bag Repair, Cluch System..
Contact : 9381691325	Contact : 9182832199	Contact : 9876547823	Contact : 9381691325
Place : madhapur	Place : Securedrabad	Place : Rangareddy	Place : Tank bund
<a href="#">View Info</a>	<a href="#">View Info</a>	<a href="#">View Info</a>	<a href="#">View Info</a>
Santhosh	Gana	Ravi	Arya
Specialization : Expert in Car Trims Repair, Tyres Repair...	Specialization : Expert in Tyres Repair, Fuel Lid Wire...	Specialization : Expert in Wipers Repair, Car Wheels...	Specialization : Expert in LUBRICATION Repair, Car Lighting..
Contact : 9381691325	Contact : 9381691325	Contact : 9381691325	Contact : 9381691325
Place : GachiBowli	Place : vanathalipuram	Place : Balapur	Place : Begumpet
<a href="#">View Info</a>	<a href="#">View Info</a>	<a href="#">View Info</a>	<a href="#">View Info</a>

[Home](#) [Products](#) [Near By shop](#) [Mechanical Work](#)  [Search](#) [Cart](#) [Pranathi](#) [Admin](#)

### SHOPPING CART

	Price
 <b>airbag</b> Qty: <input type="text" value="1"/> <a href="#">Delete</a>	Rs. 10000

SUBTOTAL ( 1 ITEMS) : RS  
10000

[Proceed to checkout](#)

All right reserved.

[Home](#) [Products](#) [Near By shop](#) [Mechanical Work](#)  [Search](#) [Cart](#) [Pranathi](#) [Admin](#)

[Signin](#) [Shipping](#) [Payment](#) [Place Order](#)

### Shipping

Address

City

Pin Code

Country

Continue

All right reserved.

HomeProductsNear By shopMechanical WorkSearchSearchCartPranathiAdmin

SigninShippingPaymentPlace Order


SHIPPING

1-17,Malkapuram, Thullur,Guntur,522237, India,

PAYMENT

Payment Method: Credit Card

SHOPPING CART



airbag  
Qty: 1

Price  
Rs:10000

Place Order

ORDER SUMMARY

ItemsRs:10000

ShippingRs:0

TaxRs:1500

Order TotalRs:11500

All right reserved.



[Home](#)[Products](#)[Near By shop](#)[Mechanical Work](#)

Search

[Cart](#)[Pranathi](#)[Admin](#)

ORDERS

Orders

Products

ID	DATE	TOTAL	USER	PAID	PAID AT	DELIVERED	DELIVERED AT	ACTIONS		
60c11259d5d8734a204a6815	2021-06-09T19:11:21.323Z	17250	Pranathi	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c11549d5d8734a204a6818	2021-06-09T19:23:53.728Z	17250	Pranathi Thokala	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c177b8d5d8734a204a6826	2021-06-10T02:23:52.260Z	5750	Pranathi Thokala	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c1781bd5d8734a204a6829	2021-06-10T02:25:31.981Z	28750	likhiitha	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c17862d5d8734a204a682e	2021-06-10T02:26:42.784Z	28750	likhiitha	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c1af33d5d8734a204a682e	2021-06-10T06:20:35.527Z	11500	likhiitha	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	
60c2ddf48c445557702d2bf0	2021-06-11T03:52:20.191Z	11500	Pranathi	false		false		<a href="#">Details</a>	<a href="#">Delete</a>	

localhost:3000/orders

All right reserved.

Create Product

Name

Price

Image

Choose File

No file chosen

Brand

CountInStock

Category

Description

Create

## Create Product

Name

Price

Image  
  
 No file chosen

Brand

CountInStock

Category

Description

[Home](#)
[Products](#)
[Near By shop](#)
[Mechanical Work](#)


[Cart](#)
[Pranathi](#)
[Admin](#)

## User Profile

Name

Email

Password

ID	DATE	TOTAL	PAID	ACTIONS
60c11259d5d8734a204a6815	2021-06-09T19:11:21.323Z	17250		<a href="#">DETAILS</a>
60c2ddf48e445557702d2b80	2021-06-11T03:52:20.191Z	11500		<a href="#">DETAILS</a>

[Home](#)
[Products](#)
[Near By shop](#)
[Mechanical Work](#)


[Cart](#)
[Pranathi](#)
[Admin](#)

## SHOPPING CART

product  
airbag

Qty:

Price

Rs. 10000

SUBTOTAL ( 1 ITEMS ) : RS 10000

A screenshot of a web application's 'User Profile' page. The page has a black header with 'Home' and 'Proc' links. The main content area has a light green background. A white-bordered box contains an orange background with the title 'User Profile' in bold black text. Below the title are three input fields: 'Name' with the value 'Pranathi', 'Email' with the value 'pranathi.18mis7082@vitap.ac.in', and 'Password' which is empty. At the bottom of the orange box are two buttons: an orange 'Update' button and a light gray 'Logout' button.

Home Proc

## User Profile

Name  
Pranathi

Email  
pranathi.18mis7082@vitap.ac.in

Password

Update

Logout

## **CONCLUSION AND FUTURE WORK**

For future work, we are expecting more and more products and mechanical staff members to provide service. The use of new materials such as ultra-high-strength steels, aluminum and carbon fiber in the technology could help the industry to be more creative in terms of producing innovative auto markets for consumers. Thus, the combination of these materials is also an important strategy to approach for the increase in sales and profits.

## CHAPTER 6

### APPENDIX (ONLY NOSQL CODE)

#### **App.js**

```
import React from 'react';

import './App.css';

import Home from './Home';

import Mechanical from './Mechanical';

import NearShop from './NearShop';

import { BrowserRouter, Route, Link } from 'react-router-dom';

// import HomeIcon from '@material-ui/icons/Home'

import HomeScreen from './Screen/HomeScreen';

import ProductsScreen from './Screen/ProductsScreen';

import SignInScreen from './Screen/SignInScreen';

import { useSelector } from 'react-redux';

import RegisterScreen from './Screen/RegisterScreen';

import ProductScreen from './Screen/ProductScreen';

import CartScreen from './Screen/CartScreen';

import ShippingScreen from './Screen/ShippingScreen';

import ProfileScreen from './Screen/ProfileScreen';

import PaymentScreen from './Screen/PaymentScreen';
```

```
import PlaceOrderScreen from './Screen/PlaceOrderScreen';
```

```
import OrderScreen from './Screen/OrderScreen';
```

```
import OrdersScreen from './Screen/OrdersScreen';
```

```
function App(){
```

```
  const openMenu = () => {
```

```
    document.querySelector('.sidebar').classList.add('open');
```

```
  };
```

```
  const closeMenu = () => {
```

```
    document.querySelector('.sidebar').classList.remove('open');
```

```
  };
```

```
  const userSignin = useSelector(state => state.userSignin);
```

```
  const {userInfo} = userSignin;
```

```
  return(
```

```
    <BrowserRouter>
```

```
    <div class="grid-container">
```



```

<header class="header">

{ /* <div className="brand">

    <button onClick={ openMenu }>⌵</button>

    </div> */}

<div className="header-links">

<Link to = "/">Home</Link>

<Link to="/product">Products</Link>

<Link to="/shop">Near By shop</Link>

<Link to="/mechanical">Mechanical Work</Link>

    <input type="text" className="form-control" placeholder="Search"
id="search" />

    <button    type="submit"    className="button    primary"
id="search_btn">Search</button>

<Link to="/cart">Cart</Link>

    {userInfo ? (

        <Link to="/profile">{userInfo.name}</Link>

    ) : (

        <Link to="/signin">Sign In</Link>

    )}

    {userInfo && userInfo.isAdmin && (

```

```
<div className="dropdown">
```

```
<a href="#">Admin</a>
```

```
<ul className="dropdown-content">
```

```
<li>
```

```
<li> <Link to="/orders">Orders</Link></li>
```

```
<li> <Link to="/products">Products</Link></li>
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
)}
```

```
</div>
```

```
</header>
```

```
<aside className="sidebar">
```

```
<h3>Shopping Categories</h3>
```

```
<button className="sidebar-close-button" onClick={closeMenu}>
```

```
x
```

```
</button>
```

```
<ul className="categories">
```

```
<li>
```

```
<Link to="/category/Pants">Categories</Link>
```

</li>

<li>

<Link to="/category/Shirts">Brands</Link>

</li>

</ul>

</aside>

<main class="main">

<div class="content">

<Route path="/orders" component={OrdersScreen} />

<Route path="/order/:id" component={OrderScreen} />

<Route path="/profile" component = {ProfileScreen}/>

<Route path="/payment" component = {PaymentScreen}/>

<Route path="/placeorder" component = {PlaceOrderScreen}/>

<Route path="/products" component = {ProductsScreen}/>

<Route path="/shipping" component = {ShippingScreen}/>

<Route path="/signin" component = {SignInScreen}/>

<Route path="/register" component = {RegisterScreen}/>

<Route path="/product/:id" component = {ProductScreen}/>

<Route path="/cart/:id?" component = {CartScreen} />

```
<Route path="/product" component={HomeScreen}/>
```

```
<Route path="/" exact={true} component={Home} />
```

```
<Route path="/mechanical" component={Mechanical} />
```

```
<Route path="/shop" component={NearShop} />
```

```
</div>
```

```
</main>
```

```
<footer class="footer">
```

```
  All right reserved.
```

```
</footer>
```

```
</div>
```

```
</BrowserRouter>
```

```
)
```

```
}
```

```
export default App;
```

**Home.js**

```

import React from 'react'

// import HomeIcon from '@material-ui/icons/Home'

function Home(){

  return(

    <div className="container">

      <div id="box1">

        <h1> Car Production System</h1>

      </div>

      <nav className="collapse navbar-collapse">

        <ul className="navbar-nav ml-lg-auto">

          </ul>

        </nav>

        {/* <video autoplay muted loop id="myVideo">

          <source src="images/hero.mp4" type="video/mp4" />

        </video> */}

        <div className="row align-items-center">

          <div className="col-md-6 pt-md-0 pt-4">

            <h3 className="mb-sm-4 mb-3 title aos-init aos-animate"

```

data-aos="fade-right"><br/>

<span>Car Spare Parts</span>

</h3>

<p data-aos="fade-right" className="aos-init aos-animate">This increases the possibility to find the item you are

looking for as compared to the store located in your neighbourhood. This is especially true when you are

looking not so popular vehicles most of the times, customers can find them through the model and maker name of

the car. In any of the case, it is very simple and easy to find what you need is available in a few minutes.

</p>

<div className="mt-md-5 mt-4 mb-lg-0 mb-4 aos-init aos-animate" data-aos="fade-down">

{/\* <a href="#"><button className="btn btn-style">Read More</button></a> \*/}

</div>

</div>

<div className="product">



</div>

</div>

<div className="\_5upzc " id="CONSUMABLE\_PRODUCTS">

<div className="\_2KwjF"></div>

<div className="\_1Jc\_u">

<h2 className="\_24ska">Products</h2>

</div>

<div className="\_2aQHH">

<ul className="hKEoO">

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Air-Conditiner</h3>

</div>

</li>

<li>

<div className="lXi3Q"></div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Brake System</h3>

</div>

</li>

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Car Engine</h3>

</div>

</li>

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Clutch System</h3>

</div>

</li>



<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Fuel Lid and Cap</h3>

</div>

</li>

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Car Lighting</h3>

</div>

</li>

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Car wheel and Rims</h3>

</div>

</li>

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Car Trims</h3>

</div>

</li>

</ul>

</div>

</div>

<div className="\_5upzc " id="CONSUMABLE\_PRODUCTS">

<div className="\_2KwjF"></div>

<div className="\_1Jc\_u">

<h2 className="\_24ska">Consumables Products</h2>

</div>

<div className="\_2aQHH">

<ul className="hKEoO">

<li>

<div className="lXi3Q">



</div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Lubrication & Hydraulics</h3>

</div>

</li>

<li>

<div className="lXi3Q"></div>

<div className="\_1fXIc">

<h3 className="\_2WpkP">Wipers</h3>

</div>

</li>

```
<li>

  <div className="lXi3Q">

  </div>

  <div className="_1fXIc">

    <h3 className="_2WpkP">Tyres</h3>

  </div>

</li>

<li>

  <div className="lXi3Q">

  </div>

  <div className="_1fXIc">

    <h3 className="_2WpkP">Batteries</h3>

  </div>

</li>

</ul>

</div>

</div>

</div>
```

```
)  
}
```

```
export default Home
```

### **Cartactions.js**

```
import Axios from 'axios'
```

```
import Cookie from 'js-cookie'
```

```
import { CART_ADD_ITEM, CART_REMOVE_ITEM,  
CART_SAVE_SHIPPING, CART_SAVE_PAYMENT } from  
'../constants/cartConstants';
```

```
const addToCart =(productId, qty) => async (dispatch, getState) =>
```

```
{
```

```
  try
```

```
  {
```

```
    const { data } =await Axios.get("/api/products/" + productId);
```

```
    dispatch({
```

```
      type: CART_ADD_ITEM, payload:
```

```
      {
```

```
        product:data._id,
```

```
      name:data.name,  
      image:data.image,  
      price:data.price,  
      countInStock: data.countInStock,  
      qty  
    }  
  });
```

```
const { cart: { cartItems } } = getState();  
Cookie.set("cartItems", JSON.stringify(cartItems));
```

```
  } catch (error)  
  {  
  
  }  
}
```

```
const removeFromCart = (productId) => (dispatch, getState) =>  
  
  {  
  
    dispatch({type : CART_REMOVE_ITEM, payload : productId});
```

```
const { cart: { cartItems } } = getState();

Cookie.set("cartItems", JSON.stringify(cartItems));

}

const saveShipping = (data) => (dispatch) =>

{

  dispatch({ type : CART_SAVE_SHIPPING, payload : data });

}
```

```
const savePayment = (data) => (dispatch) =>

{

  dispatch({ type : CART_SAVE_PAYMENT, payload : data });

}
```

```
export { addToCart, removeFromCart, saveShipping , savePayment }
```

### **Orderconstants.js**

```
export const ORDER_CREATE_REQUEST = 'ORDER_CREATE_REQUEST';
```

```
export const ORDER_CREATE_SUCCESS = 'ORDER_CREATE_SUCCESS';
```

```
export const ORDER_CREATE_FAIL = 'ORDER_CREATE_FAIL';
```

```
export const ORDER_DETAILS_REQUEST = 'ORDER_DETAILS_REQUEST';
```

```
export const ORDER_DETAILS_SUCCESS = 'ORDER_DETAILS_SUCCESS';
```

```
export const ORDER_DETAILS_FAIL = 'ORDER_DETAILS_FAIL';
```

```
export const MY_ORDER_LIST_REQUEST = 'MY_ORDER_LIST_REQUEST';
```

```
export const MY_ORDER_LIST_SUCCESS = 'MY_ORDER_LIST_SUCCESS';
```

```
export const MY_ORDER_LIST_FAIL = 'MY_ORDER_LIST_FAIL';
```

```
export const ORDER_LIST_REQUEST = 'ORDER_LIST_REQUEST';
```

```
export const ORDER_LIST_SUCCESS = 'ORDER_LIST_SUCCESS';
```

```
export const ORDER_LIST_FAIL = 'ORDER_LIST_FAIL';
```

```
export const ORDER_PAY_REQUEST = 'ORDER_PAY_REQUEST';
```

```
export const ORDER_PAY_SUCCESS = 'ORDER_PAY_SUCCESS';
```

```
export const ORDER_PAY_FAIL = 'ORDER_PAY_FAIL';
```

```
export const ORDER_DELETE_REQUEST = 'ORDER_DELETE_REQUEST';
```



```
export const ORDER_DELETE_SUCCESS = 'ORDER_DELETE_SUCCESS';
```

```
export const ORDER_DELETE_FAIL = 'ORDER_DELETE_FAIL';
```

```
//      export      const      ORDER_SUMMARY_REQUEST      =  
'ORDER_SUMMARY_REQUEST';
```

```
//      export      const      ORDER_SUMMARY_SUCCESS      =  
'ORDER_SUMMARY_SUCCESS';
```

```
// export const ORDER_SUMMARY_FAIL = 'ORDER_SUMMARY_FAIL';
```

## REFERENCES

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