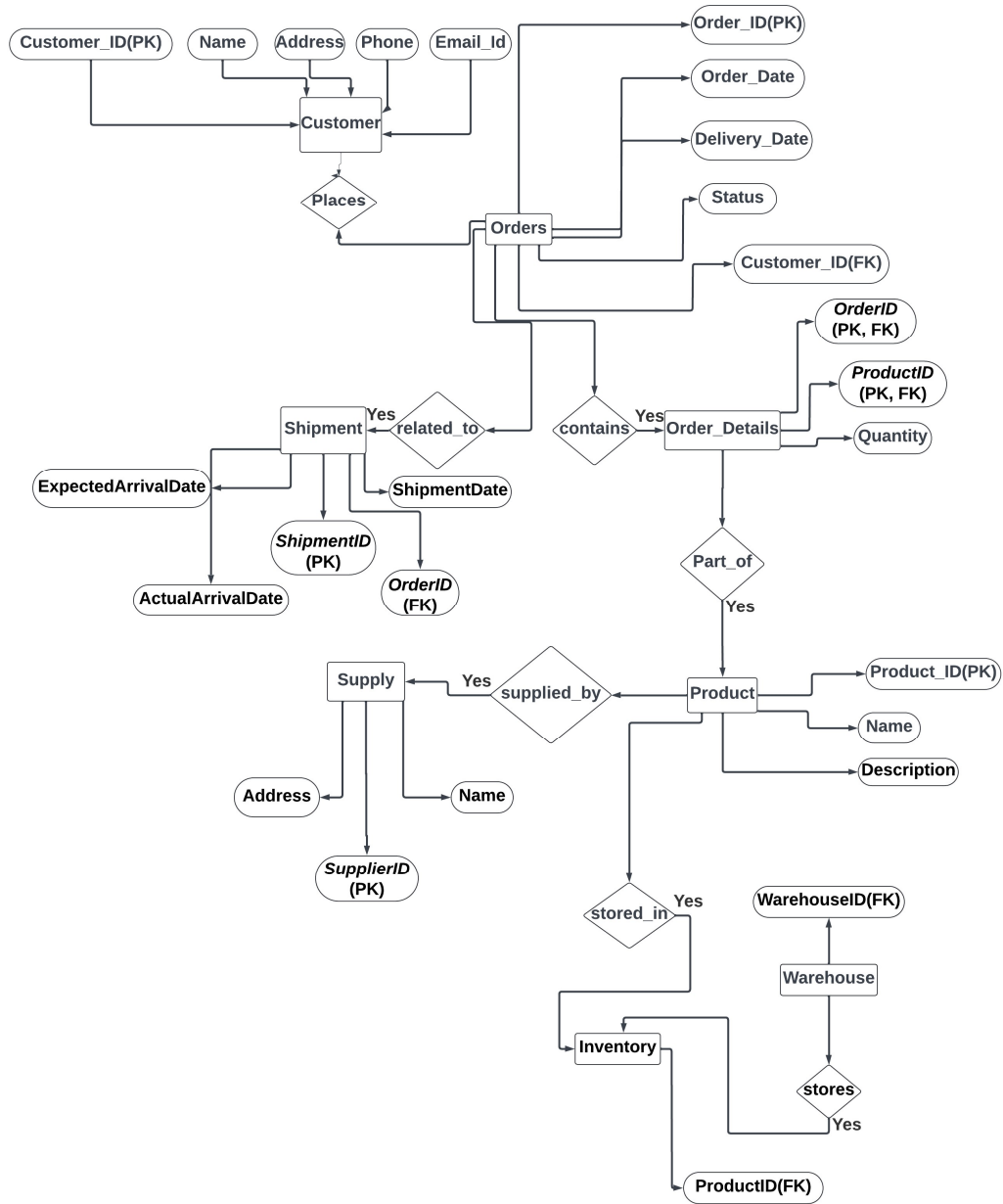# LOGISTICS MANAGEMENT SYSTEM

INTRODUCTION:

In the modern business landscape, effective logistics management is crucial for maintaining a competitive advantage and ensuring customer satisfaction. TranspoMaster, an advanced, user-friendly platform, is designed to streamline logistics operations, enhance efficiency, and provide comprehensive oversight of supply chain activities.
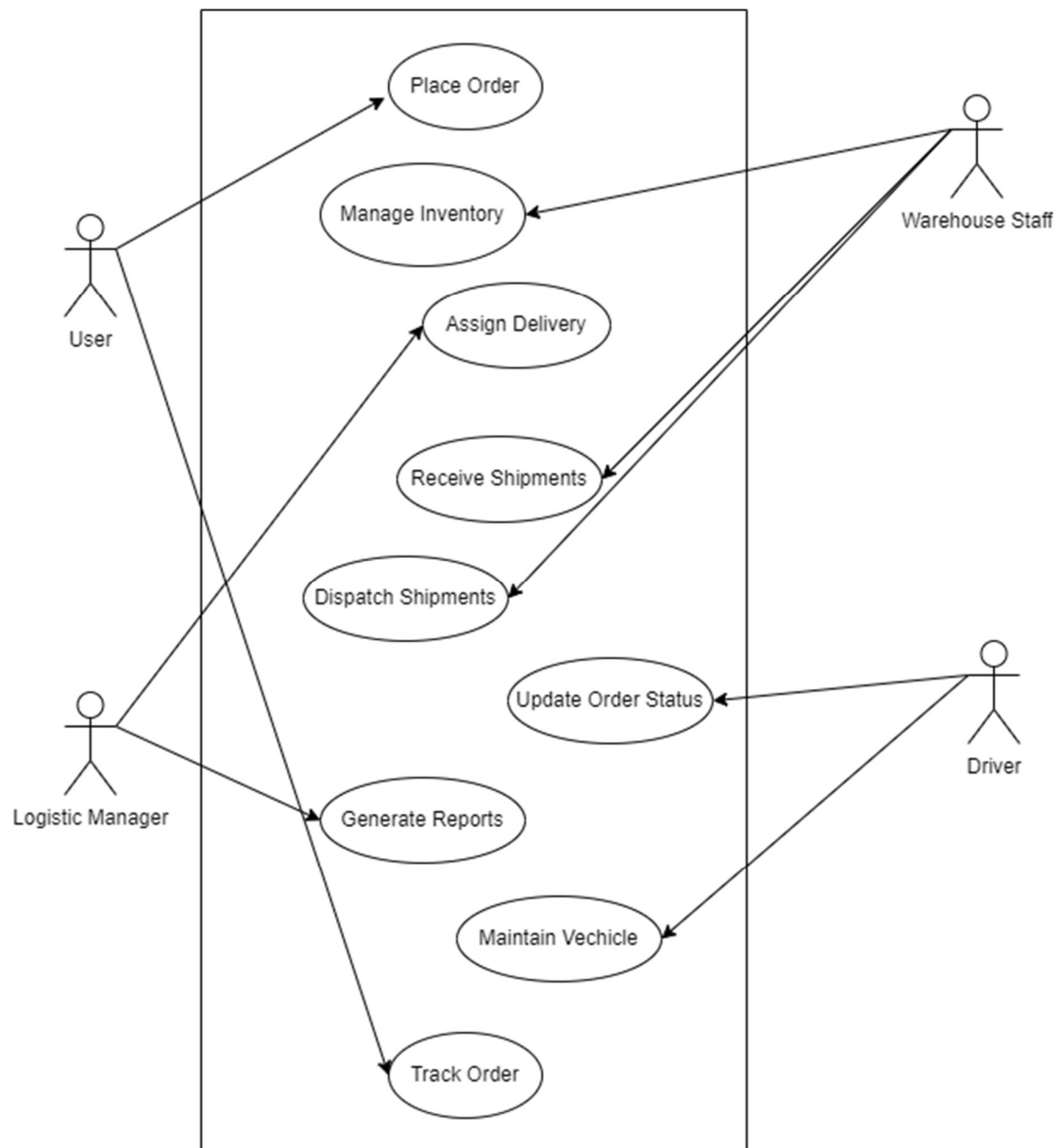
The primary objective of TranspoMaster is to integrate various logistics functions, such as transport services, inventory management, supplier coordination, vendor management, and financial reporting, into a cohesive system. This integration facilitates real-time data access, improved decision-making, and efficient resource allocation, ultimately leading to reduced operational costs and enhanced service delivery.
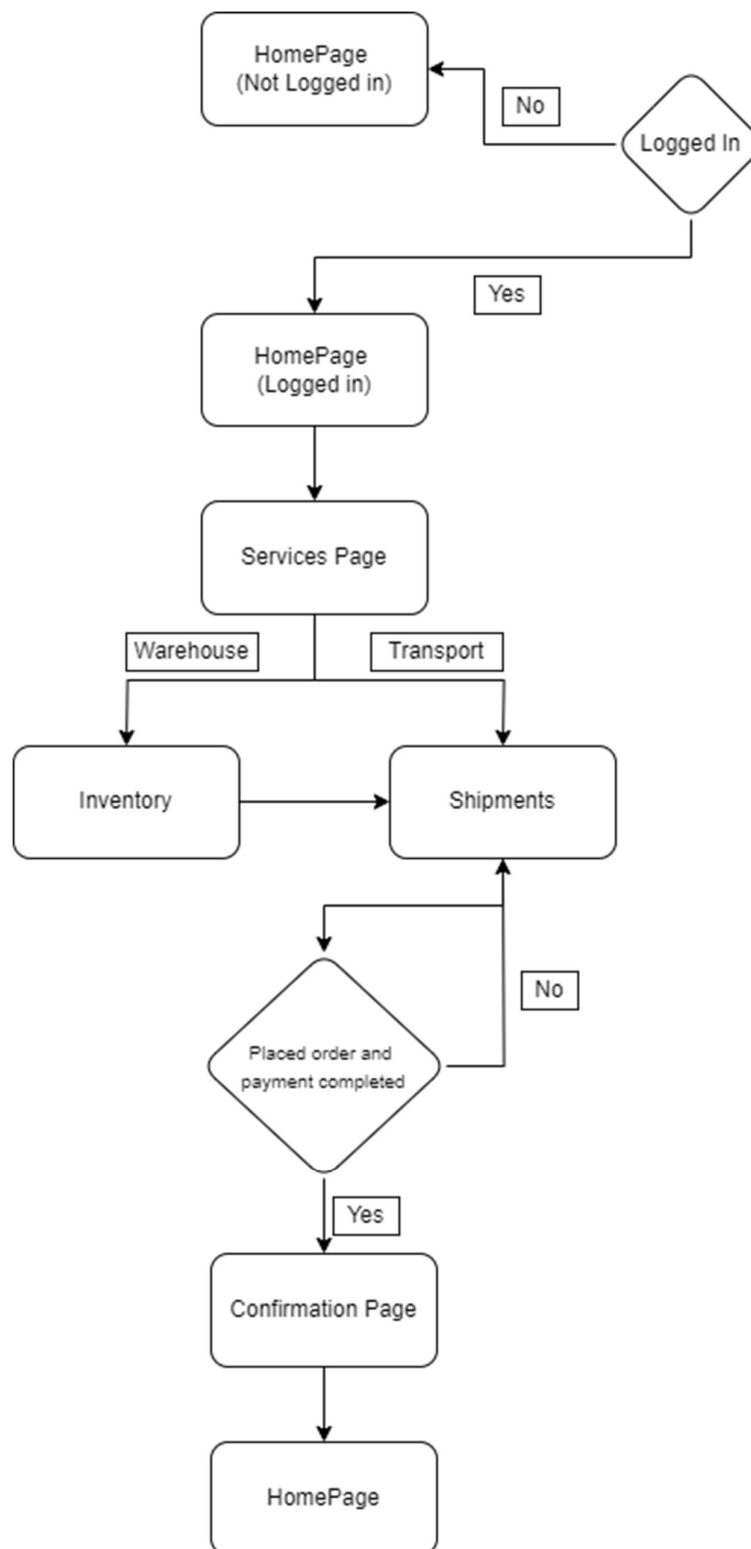
OBJECTIVE:

The objective of TranspoMaster is to enhance the efficiency, transparency, and collaboration within logistics and supply chain operations. This platform aims to optimize transport services, streamline inventory management, and improve coordination with suppliers and vendors. By providing real-time tracking, comprehensive financial reporting, and advanced analytics, TranspoMaster ensures operational excellence and informed decision-making. Additionally, it leverages automation and AI to increase agility and responsiveness, supporting business growth and scalability. Ultimately, TranspoMaster emphasizes the importance of effective communication and cooperation, fostering stronger connections among stakeholders and driving competitive advantage.
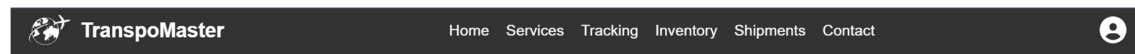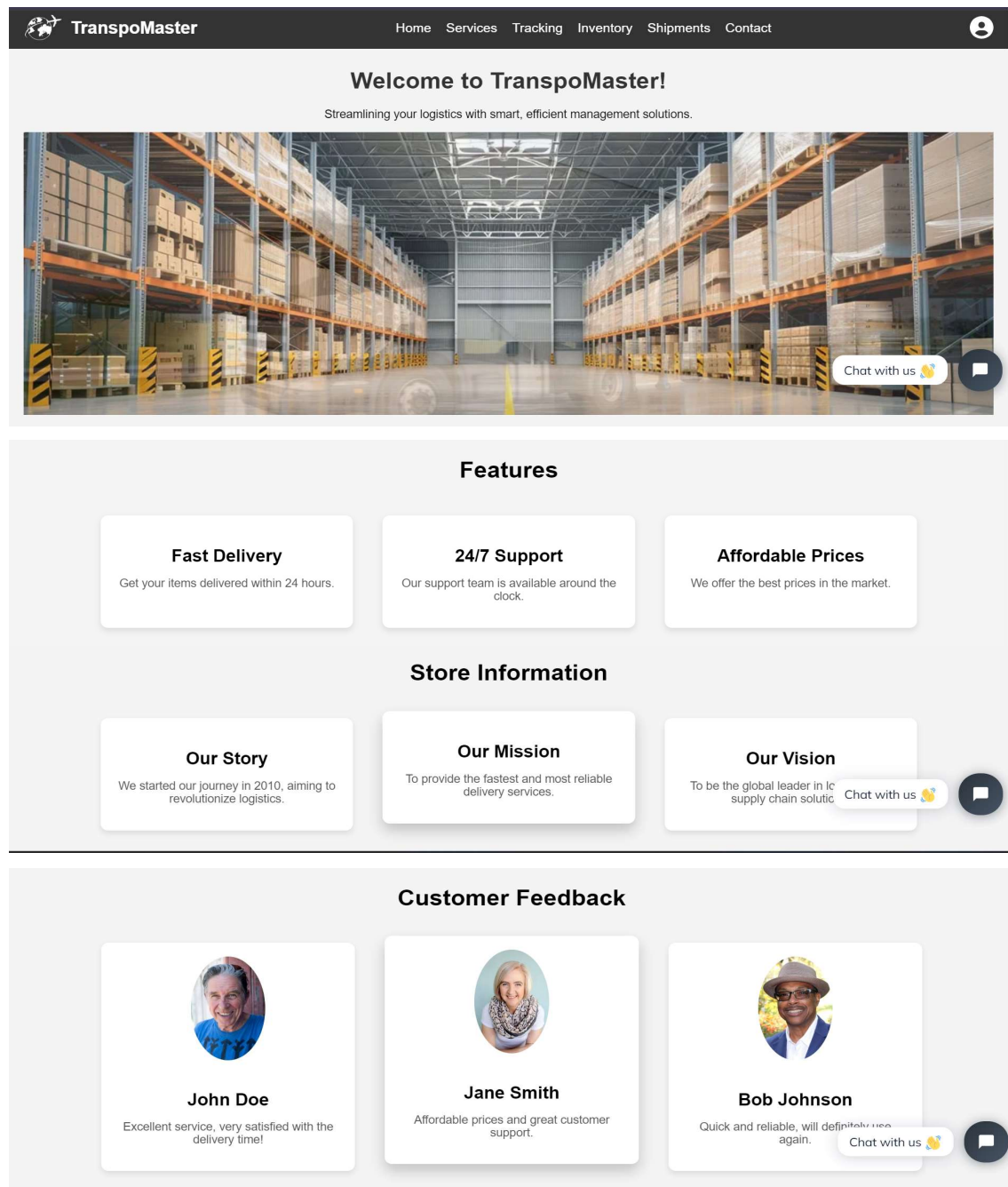
ER DIAGRAM:

USE-CASE DIAGRAM:

USER FLOW CHART:

```
                  ┌─────────────────┐
                  │    HomePage     │ ◄──────┐
                  │ (Not Logged in) │     ┌──┴──┐   ╱╲
                  └─────────────────┘     │ No  │  ╱  ╲
                                          └─────┘ ╱ Logged ╲
                                                  ╲  In    ╱
                                                   ╲      ╱
                                                    ╲    ╱
                                          ┌─────┐
                         ┌────────────────│ Yes │
                         ▼                └─────┘
                  ┌─────────────────┐
                  │    HomePage     │
                  │   (Logged in)   │
                  └─────────────────┘
                         │
                         ▼
                  ┌─────────────────┐
                  │  Services Page  │
                  └─────────────────┘
                 ┌────────┴────────┐
           ┌───────────┐     ┌───────────┐
           │ Warehouse │     │ Transport │
           └───────────┘     └───────────┘
                 ▼                 ▼
          ┌───────────┐     ┌───────────┐
          │ Inventory │────►│ Shipments │
          └───────────┘     └───────────┘
                                  ▲
                         ┌────────┘
                         ▼              ┌─────┐
                        ╱╲              │ No  │
                       ╱  ╲             └─────┘
                      ╱ Placed ╲
                     ╱ order and ╲──────┘
                     ╲ payment   ╱
                      ╲completed╱
                       ╲      ╱
                        ╲    ╱
                         │ ┌─────┐
                         │ │ Yes │
                         ▼ └─────┘
                  ┌─────────────────┐
                  │ Confirmation    │
                  │     Page        │
                  └─────────────────┘
                         │
                         ▼
                  ┌─────────────────┐
                  │    HomePage     │
                  └─────────────────┘
```
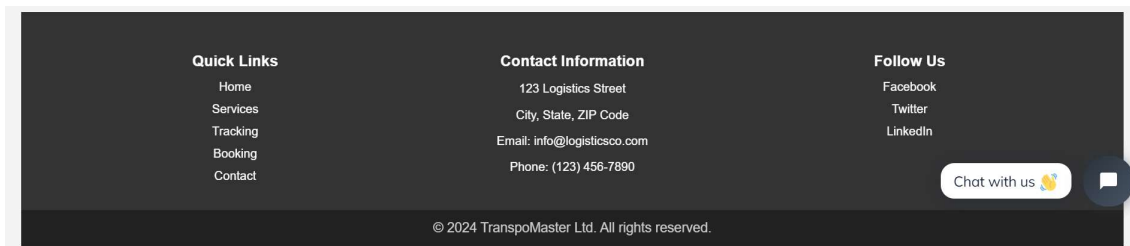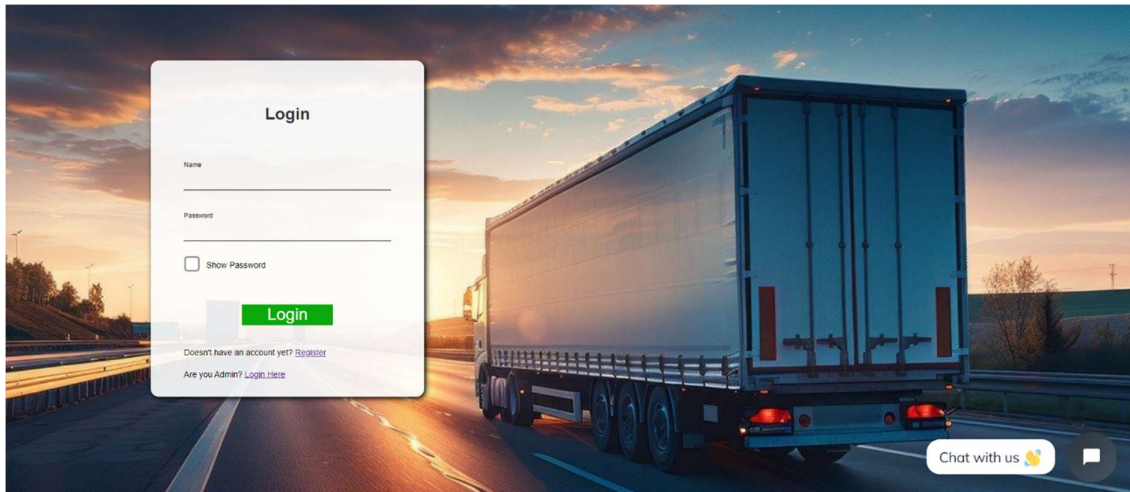
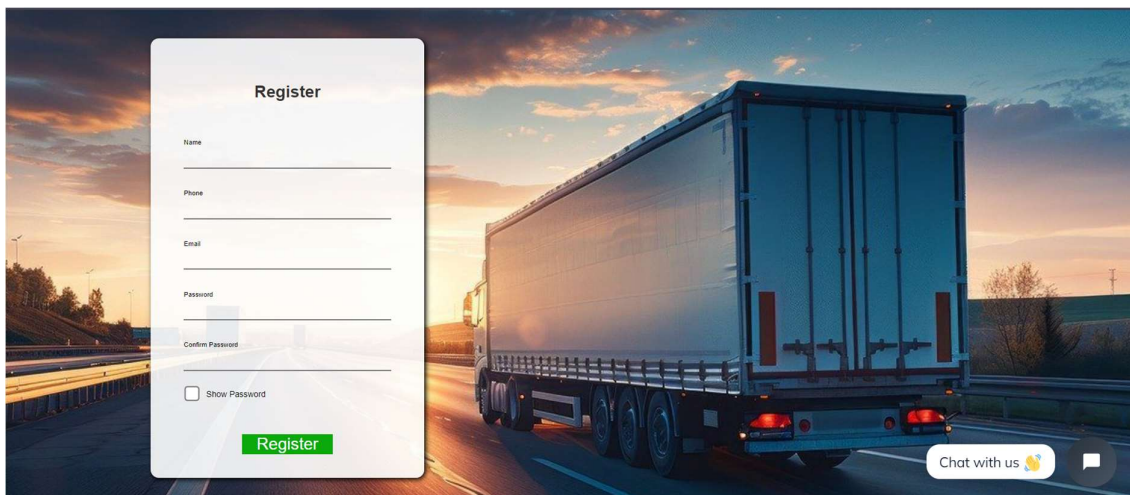# USER MODULES:

User Navigation Bar

Homepage

Footer

Login Page

Register Page

Explore Our Comprehensive Logistics Services

Air Ways
Logistics Services

Efficient and reliable air transportation services for all your cargo needs.

Express Delivery   Cargo Insurance

From USD 200* per kg
Global Coverage

Book now

Ocean Lines
Logistics Services

Secure and timely water transportation services for bulk and containerized goods.

Ocean Contract   Cargo Tracking

From USD 50* per container
Worldwide Routes

Book now

Land (Domestic)
Logistics Services

Domestic land transportation services ensuring swift and safe delivery.

Real-time Tracking   Warehousing

From USD 100* per ton
Nationwide

Inquire Now

Chat with us 👋

Land (International)
Logistics Services

Cross-border land transportation services for international deliveries.

Customs Clearance

Freight Forwarding

From USD 150* per ton
Cross-border

Inquire Now

Warehouse Facilities
Logistics Services

Comprehensive warehousing solutions to store and manage your inventory with ease.

24/7 Security   Inventory Management

Flexible pricing based on storage size
Multiple Locations

Learn More

Special Cargo
Logistics Services

Request a shipping quote for an ocean shipment exceeding the dimensions of our standard containers.

A strong global network

Easy access to space

From USD 250* per ton
Multiple Locations

Learn More

Chat with us 👋

Services Page

How It Works

Our advanced logistics network allows you to track your package in real-time. From the moment your package is picked up to the final delivery, you will have full visibility.

Frequently Asked Questions

▼ How do I track my package?

▼ What should I do if my package is delayed?

▼ Can I change the delivery address?

Customer Support

If you have any issues or inquiries, please contact our 24/7 support team at support@transpomaster.com or call us at (123) 456-7890.

Chat with us 👋

Tracking Page

Inventory Page

ContactUs Page

Book Your Shipment

Select Service:

Select a service

Number of Containers: 0

Name:

Contact Information:

Additional Details:

☐ I agree to the terms and conditions

Book Now

Chat with us 👋

Shipments Page

Order Confirmed!

Thank you for your order. Your order has been successfully placed.

Bill Details:

Order Number: #123456
Order Date: 2024-07-27
Total Amount: $123.45

You will be redirected to the home page in 15 seconds.

Order Confirmation Page

Account

👤 **User Information**

Name:

jeni

Email:

123@gmail.com

Phone:

9443736318

🔒 **Change Password**

Password:

•••••••• 👁

👤 **Avatar**

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💾 Save Account Information

Account Page

CODING:

login.jsx

```
import React, { useState } from "react";
import { Link } from "react-router-dom";
import '../../Assets/CSS/style.css'

function Login() {
    const [loginName, setLoginName] = useState('');
    const [loginPassword, setLoginPassword] = useState('');
    const [loginNameErr, setLoginNameErr] = useState(false);
    const [loginPasswordErr, setPasswordErr] = useState(false);
    const [incorrectErr, setIncorrectErr] = useState(false);
    const [showPassword, setShowPassword] = useState(false);

    function Loginvalidation() {
        if (loginName.trim().length !== 0) {
            setLoginNameErr(false);
        } else {
            setLoginNameErr(true);
        }

        if (loginPassword.trim().length !== 0) {
            setPasswordErr(false);
        } else {
            setPasswordErr(true);
        }
        const register = JSON.parse(localStorage.getItem('user'));
```

```
        if (register && (register.name !== loginName || register.password !==
loginPassword)) {
            setIncorrectErr(true);
            alert("User Not Found");
        } else if (register) {
            setIncorrectErr(false);
            window.location.href = '/';
        }
    }
    return (
        <div className="login-body">
            <div className="login-main">
                <h1>Login</h1>
                    {incorrectErr && <small style={{ color: 'red', textAlign: 'center'
}}>Enter the correct username and password</small>}
                <br />
                <p>Name</p>
                    <input type='text' value={loginName} onChange={(e) => {
setLoginName(e.target.value) }}></input>
                {loginNameErr && <small style={{ color: '#d3521d' }}>Please enter
the Username</small>}
                <br />
                <p>Password</p>
                    <input type={showPassword ? 'text' : 'password'}
value={loginPassword} onChange={(e) => { setLoginPassword(e.target.value)
}}></input>
                {loginPasswordErr && <small style={{ color: '#d3521d' }}>Please
enter the password</small>}
                <br />
```

```
        <label className="checkbox-container">
            <input type="checkbox" checked={showPassword} onChange={()
=> setShowPassword(!showPassword)} />
            <span className="checkmark"></span>
            Show Password
        </label>
        <br/>
        <button onClick={Loginvalidation}>Login</button>
          <p style={{ fontSize: '10px' }}>Doesn't have an account yet? <Link
to={'/register'}>Register</Link></p>
              <p style={{ fontSize: '10px' }}>Are you Admin? <Link
to={'/adminlogin'}>Login Here</Link></p>
      </div>
    </div>
  );
}


export default Login;
```

register.jsx

```
import React, { useState } from "react";
import '../../Assets/CSS/style.css'

function Register() {
  const [username, setUsername] = useState('');
  const [email, setEmail] = useState('');
  const [password, setPassword] = useState('');
  const [confirmPassword, setConfirmPassword] = useState('');
```

```
const [number, setNumber] = useState('');
const [nameErr, setNameErr] = useState(false);
const [showPassword, setShowPassword] = useState(false);


function registration() {
    if ((username.trim().length === 0) || (password.trim().length === 0) ||
(email.trim().length === 0)) {
        setNameErr(true);
    } else if (!email.includes('@') || !email.includes('.') || !email.includes('com'))
{
        alert('Please enter a valid email address');
    } else if (password.length < 8) {
        alert('Please enter a password with more than eight characters');
    } else if (password !== confirmPassword) {
        alert('Passwords do not match');
    } else if (number.length !== 10) {
        alert('Check your phone number');
    } else {
        setNameErr(false);
        const user = { username: username, email: email, number: number,
password: password };
        console.log(user);
        localStorage.setItem('user', JSON.stringify({ name: username, email:
email, number: number, password: password }));
        window.location.href = '/login';
    }
}
return (
    <div className="register-body">
```

```jsx
<div className="register-main">
    <h1>Register</h1>
    {nameErr && <p className="errP">Please fill every input field</p>}
    <br />
    <p>Name</p>
        <input type='text' value={username} onChange={(e) => {
setUsername(e.target.value) }}></input>
        <br />
        <p>Phone</p>
            <input type='text' value={number} onChange={(e) => {
setNumber(e.target.value) }}></input>
        <br />
        <p>Email</p>
            <input type='text' value={email} onChange={(e) => {
setEmail(e.target.value) }}></input>
        <br />
        <p>Password</p>
        <input type={showPassword ? 'text' : 'password'} value={password}
onChange={(e) => { setPassword(e.target.value) }}></input>
        <br />
        <p>Confirm Password</p>
            <input type={showPassword ? 'text' : 'password'}
value={confirmPassword} onChange={(e) => {
setConfirmPassword(e.target.value) }}></input>
        <br />
        <label className="checkbox-container">
            <input type="checkbox" checked={showPassword} onChange={()
=> setShowPassword(!showPassword)} />
            <span className="checkmark"></span>
```
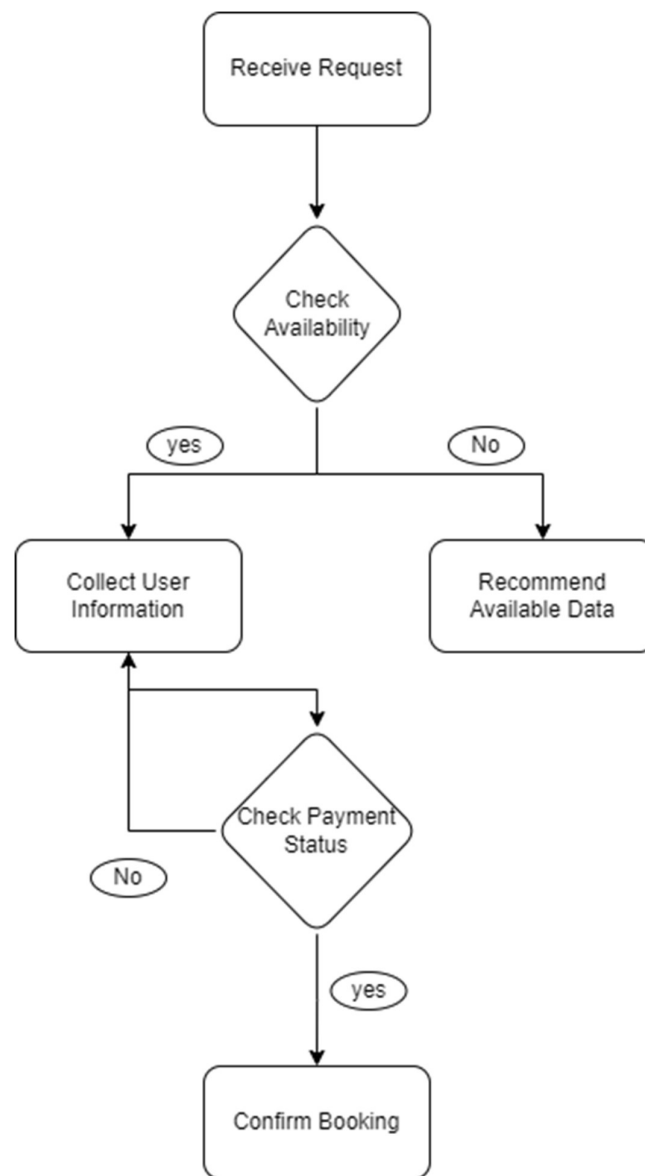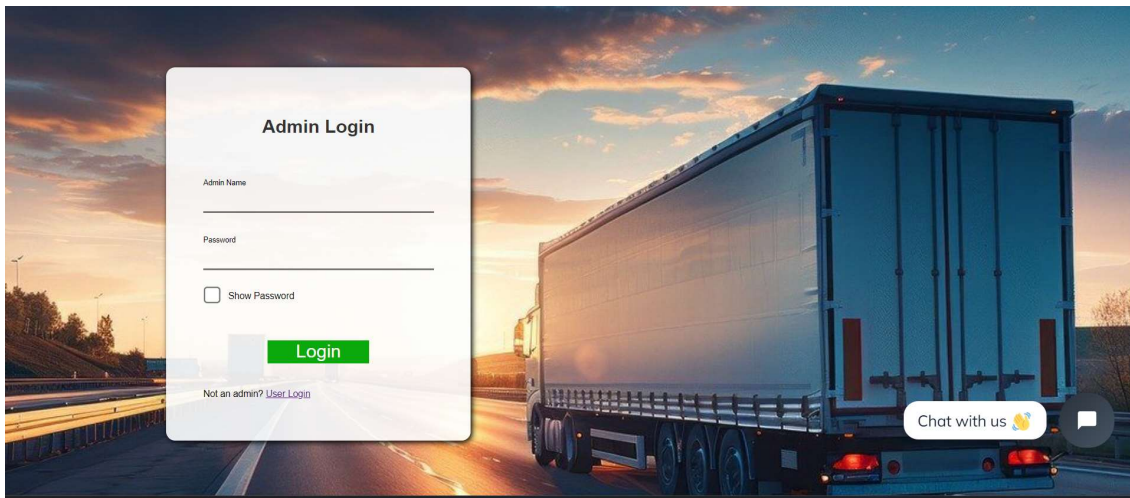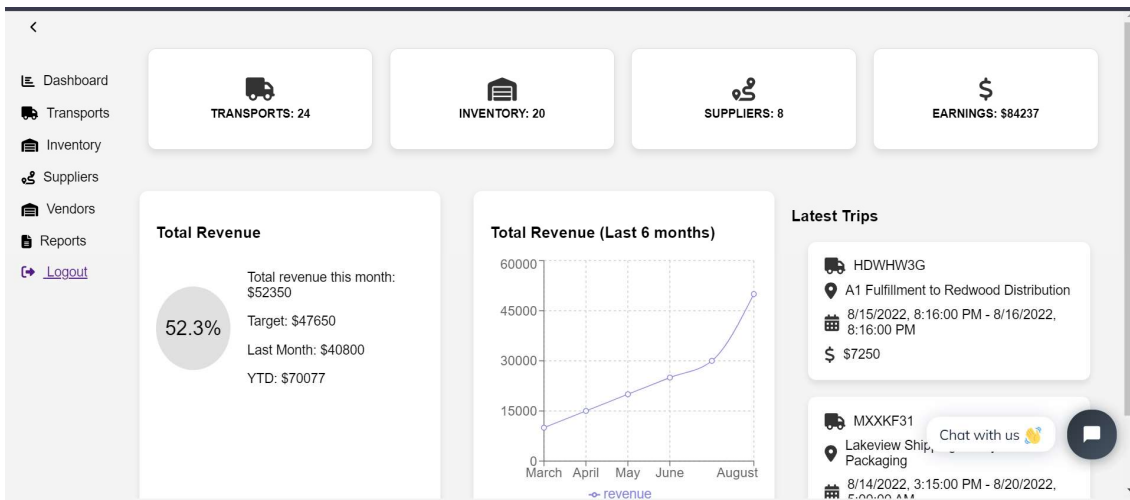
```
            Show Password
        </label><br />
        <button onClick={registration}>Register</button>
      </div>
    </div>
  );
}


export default Register;
```

ADMIN FLOW CHART:

ADMIN MODULES:

Admin LoginPage

Admin Dashboard

Transport Services

Inventory Management

Supplier Management

Vendor Management

Add New Vendor	Vendor Name	Company	Item Sold	Quantity	dd-mm-yyyy

Add

Vendor	Company	Item Sold	Quantity	Date	Actions
Alice Johnson	Acme Supplies	Office Supplies	300	9/12/2022	✏ 🗑
Bob Davis	TechGear Inc.	Electronics	150	9/13/2022	✏ 🗑
Carol White	Furniture Co.	Office Furniture	75	9/14/2022	✏ 🗑

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Vendor Management

Reports

Bill No: 001

Service Used: Warehouse
Location: Main Warehouse
Name: John Doe
Contact: 123-456-7890
Item Brought: Teak
Quantity: 100
Supplier Name and Info: Teak Suppliers Inc., Jane Doe, 987-654-3210
Bill Paid: Yes

Bill No: 002

Service Used: Transport
Transport Mode: Truck
Vehicle License: ABC-1234
Quantity: 200
Driver Name: James Smith
Bill Paid: No

Bill No: 003

Service Used: Warehouse
Location: Central Storage
Name: Alice Johnson
Contact: 234-567-8901
Item Brought: Bamboo
Quantity: 150
Supplier Name and Info: Bamboo Co., Robert Brown, 876-543-2109
Bill Paid: Yes

Bill No: 004

Service Used: Transport
Transport Mode: Van
Vehicle License: XYZ-7890
Quantity: 300
Driver Name: Mary Lee

Bill No: 005

Service Used: Warehouse
Location: South Warehouse
Name: Michael Scott
Contact: 345-678-9012
Item Brought: Oak

Bill No: 006

Service Used: Transport
Transport Mode: Car
Vehicle License: CARGO-5678
Quantity: 500
Driver Name: Sarah Conner

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Reports Management

CODING:

AdminLogin.jsx

```
import React, { useState } from "react";
import { Link } from "react-router-dom";
import '../../Assets/CSS/style.css';

function AdminLogin() {
    const [adminName, setAdminName] = useState('');
    const [adminPassword, setAdminPassword] = useState('');
    const [adminNameErr, setAdminNameErr] = useState(false);
    const [adminPasswordErr, setAdminPasswordErr] = useState(false);
    const [incorrectErr, setIncorrectErr] = useState(false);
    const [showPassword, setShowPassword] = useState(false);

    const adminCredentials = {
        name: 'admin',
        password: 'admin123'
    };

    function AdminLoginValidation() {
        if (adminName.trim().length !== 0) {
            setAdminNameErr(false);
        } else {
            setAdminNameErr(true);
        }

        if (adminPassword.trim().length !== 0) {
```

```
        setAdminPasswordErr(false);
    } else {
        setAdminPasswordErr(true);
    }


        if (adminName === adminCredentials.name && adminPassword ===
adminCredentials.password) {
            setIncorrectErr(false);
            window.location.href = '/admin-dashboard';
        } else {
            setIncorrectErr(true);
            alert("Invalid Admin Credentials");
        }
    }


    return (
        <div className="login-body">
            <div className="login-main">
                <h1>Admin Login</h1>
                    {incorrectErr && <small style={{ color: 'red', textAlign: 'center'
}}>Invalid Admin Credentials</small>}
                    <br />
                    <p>Admin Name</p>
                        <input type='text' value={adminName} onChange={(e) => {
setAdminName(e.target.value) }}></input>
                    {adminNameErr && <small style={{ color: '#d3521d' }}>Please enter
the Admin Name</small>}
                    <br />
                    <p>Password</p>
```

```
                    <input   type={showPassword   ?   'text'   :   'password'}
value={adminPassword}              onChange={(e)              =>              {
setAdminPassword(e.target.value) }}></input>
          {adminPasswordErr && <small style={{ color: '#d3521d' }}>Please
enter the Password</small>}
         <br />
         <label className="checkbox-container">
          <input type="checkbox" checked={showPassword} onChange={()
=> setShowPassword(!showPassword)} />
          <span className="checkmark"></span>
          Show Password
         </label>
         <br/>
         <button onClick={AdminLoginValidation}>Login</button>
             <p  style={{  fontSize:  '10px'  }}>Not  an  admin?  <Link
to={'/login'}>User Login</Link></p>
      </div>
    </div>
  );
}


export default AdminLogin;
```

AdminDashboard.jsx

```
import React, { useState } from 'react';
import TripCard from '../../Components/TripCard';
import '../../Assets/CSS/dashboard.css';
```

```
import TransportServices from './TransportServices';
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';
import { faTruck, faRoute, faWarehouse, faDollarSign, faCalendarAlt,
faChartBar, faFileAlt, faCog, faSignOutAlt, faChevronLeft, faChevronRight }
from '@fortawesome/free-solid-svg-icons';
import { LineChart, Line, XAxis, YAxis, CartesianGrid, Tooltip, Legend,
ResponsiveContainer } from 'recharts';
import InventoryManagement from './inventory';
import SupplierManagement from './supplier';
import VendorManagement from './vendor';
import Reports from './reports';
import Settings from './settings';
import { Link } from 'react-router-dom';

const AdminDashboard = () => {
  const [isSidebarOpen, setIsSidebarOpen] = useState(true);
  const [activeSection, setActiveSection] = useState('dashboard'); // Default to
'dashboard'

  const toggleSidebar = () => {
    setIsSidebarOpen(!isSidebarOpen);
  };

  const handleSidebarItemClick = (section) => {
    setActiveSection(section);
  };

  return (
    <div className="dashboard">
```

```jsx
<Sidebar
  isOpen={isSidebarOpen}
    onSidebarItemClick={handleSidebarItemClick} // Pass click handler to
Sidebar
  />
  <div className={`main-content ${isSidebarOpen ? 'sidebar-open' : 'sidebar-
closed'}`}>
    <div className="top-bar">
     <button className="sidebar-toggle" onClick={toggleSidebar}>
            <FontAwesomeIcon icon={isSidebarOpen ? faChevronLeft :
faChevronRight} />
      </button>
      {activeSection === 'dashboard' && (
       <>
         <div className="header-item">
           <FontAwesomeIcon icon={faTruck} />
           <span>TRANSPORTS: 24</span>
         </div>
         <div className="header-item">
           <FontAwesomeIcon icon={faWarehouse} />
           <span>INVENTORY: 20</span>
         </div>
         <div className="header-item">
           <FontAwesomeIcon icon={faRoute} />
           <span>SUPPLIERS: 8</span>
         </div>
         <div className="header-item">
           <FontAwesomeIcon icon={faDollarSign} />
           <span>EARNINGS: $84237</span>
```

```
          </div>
        </>
      )}
    </div>
    <div className='stats-revenue'>
      {activeSection === 'dashboard' && (
        <>
          <Stats />
          <RevenueChart />
          <LatestTrips />
        </>
      )}
      {activeSection === 'transports' && <TransportServices />}
      {activeSection === 'inventory' && <InventoryManagement />}
      {activeSection === 'suppliers' && <SupplierManagement />}
      {activeSection === 'vendors' && <VendorManagement />}
      {activeSection === 'reports' && <Reports />}
      {/* {activeSection === 'calendar' && <Calendar />} */}

    </div>
  </div>
</div>
  );
};


const Sidebar = ({ isOpen, onSidebarItemClick }) => (
  <div className={`sidebar ${isOpen ? 'open' : 'closed'}`}>
    <ul>
      <li onClick={() => onSidebarItemClick('dashboard')}>
```

```
      <FontAwesomeIcon icon={faChartBar} /> {isOpen && 'Dashboard'}
    </li>
    <li onClick={() => onSidebarItemClick('transports')}>
      <FontAwesomeIcon icon={faTruck} /> {isOpen && 'Transports'}
    </li>
    <li onClick={() => onSidebarItemClick('inventory')}>
      <FontAwesomeIcon icon={faWarehouse} /> {isOpen && 'Inventory'}
    </li>
    <li onClick={() => onSidebarItemClick('suppliers')}>
      <FontAwesomeIcon icon={faRoute} /> {isOpen && 'Suppliers'}
    </li>
    <li onClick={() => onSidebarItemClick('vendors')}>
      <FontAwesomeIcon icon={faWarehouse} /> {isOpen && 'Vendors'}
    </li>
    <li onClick={() => onSidebarItemClick('reports')}>
      <FontAwesomeIcon icon={faFileAlt} /> {isOpen && 'Reports'}
    </li>
    {/* <li onClick={() => onSidebarItemClick('settings')}>
      <FontAwesomeIcon icon={faCog} /> {isOpen && 'Settings'}
    </li> */}
    {/* <li onClick={() => onSidebarItemClick('calendar')}>
      <FontAwesomeIcon icon={faCalendarAlt} /> {isOpen && 'Calendar'}
    </li> */}
    <li>
      <Link to="/login">
        <FontAwesomeIcon icon={faSignOutAlt} /> {isOpen && 'Logout'}
      </Link>
    </li>
  </ul>
```

```
    </div>
  );


const Stats = () => (
  <div className="stats">
    <div className="stat">
      <h3>Total Revenue</h3>
      <div className="revenue">
        <div className="revenue-circle">52.3%</div>
        <div className="revenue-details">
          <p>Total revenue this month: $52350</p>
          <p>Target: $47650</p>
          <p>Last Month: $40800</p>
          <p>YTD: $70077</p>
        </div>
      </div>
    </div>
  </div>
);


const data = [
  { name: 'March', revenue: 10000 },
  { name: 'April', revenue: 15000 },
  { name: 'May', revenue: 20000 },
  { name: 'June', revenue: 25000 },
  { name: 'July', revenue: 30000 },
  { name: 'August', revenue: 50000 },
];
```

```
const RevenueChart = () => (
  <div className="revenue-chart">
    <h3>Total Revenue (Last 6 months)</h3>
    <ResponsiveContainer width="100%" height={300}>
      <LineChart data={data}>
        <CartesianGrid strokeDasharray="3 3" />
        <XAxis dataKey="name" />
        <YAxis />
        <Tooltip />
        <Legend />
            <Line type="monotone" dataKey="revenue" stroke="#8884d8"
activeDot={{ r: 8 }} />
      </LineChart>
    </ResponsiveContainer>
  </div>
);
const trips = [
    {
    truck: 'HDWHW3G',
    origin: 'A1 Fulfillment',
    destination: 'Redwood Distribution',
    startDate: '8/15/2022, 8:16:00 PM',
    endDate: '8/16/2022, 8:16:00 PM',
    earnings: 7250,
  },
    {
    truck: 'MXXKF31',
    origin: 'Lakeview Shipping',
    destination: 'Keystone Packaging',
```

```
        startDate: '8/14/2022, 3:15:00 PM',

        endDate: '8/20/2022, 5:00:00 AM',

        earnings: 13000,

      },

   ];


const LatestTrips = () => (
    <div className="latest-trips">
    <h3>Latest Trips</h3>
    <div className="trip-cards">
      {trips.map((trip, index) => (
       <TripCard
         key={index}
         truck={trip.truck}
         origin={trip.origin}
         destination={trip.destination}
         startDate={trip.startDate}
         endDate={trip.endDate}
         earnings={trip.earnings}
       />
      ))}
    </div>
  </div>
);


export default AdminDashboard;
```

App.js

```
import React from 'react';
import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
import Home from './Pages/User/home';
import Login from "./Pages/User/login";
import Register from "./Pages/User/register";
import Services from './Pages/User/services';
import Tracking from './Pages/User/tracking';
import Contact from './Pages/User/contact';
import Shipments from './Pages/User/shipments';
import ConfirmationPage from './Pages/User/confirmation';
import Inventory from './Pages/User/inventory';
import Terms from './Components/terms';
import AccountPage from './Pages/User/account';
import AdminLogin from './Pages/Admin/AdminLogin';
import AdminDashboard from './Pages/Admin/AdminDashboard';

function App() {
  return (
    <Router>
      <div className="App">
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/login" element={<Login />} />
          <Route path="/register" element={<Register />} />
          <Route path="/services" element={<Services />} />
          <Route path="/tracking" element={<Tracking />} />
```

```
            <Route path="/shipments" element={<Shipments />} />

            <Route path="/confirmation" element={<ConfirmationPage />} />

            <Route path="/account" element={<AccountPage />} />

            <Route path="/inventory" element={<Inventory />} />

            <Route path="/terms" element={<Terms />} />

            <Route path="/contact" element={<Contact />} />

            <Route path="/adminlogin" element={<AdminLogin />} />

            <Route path="/admin-dashboard" element={<AdminDashboard/>} />

        </Routes>

      </div>

    </Router>

  );

}


export default App;
```

CONCLUSION:

The TranspoMaster project concludes with significant advancements in logistics and supply chain operations, achieving marked improvements in efficiency, transparency, and collaboration. By optimizing transport services, streamlining inventory management, and enhancing coordination with suppliers and vendors, TranspoMaster has established itself as an invaluable tool for operational excellence. The platform's integration of real-time tracking, comprehensive financial reporting, and advanced analytics has empowered businesses to make informed decisions with confidence. This holistic approach not only minimizes operational costs but also enhances service delivery, ensuring that businesses can meet their customers' demands promptly and effectively. Moreover, the centralized system has simplified complex logistics processes, providing a seamless experience for users and reducing the likelihood of errors or delays.

Furthermore, the utilization of automation and AI has significantly increased agility and responsiveness within logistics operations, supporting substantial business growth and scalability. TranspoMaster's innovative features, such as predictive analytics and automated workflow management, have enabled businesses to anticipate market trends and adapt quickly to changes, thereby maintaining a competitive edge. The platform's emphasis on fostering effective communication and cooperation among stakeholders has strengthened industry connections, promoting a culture of collaboration and shared success. This commitment to building robust relationships and driving continuous improvement has not only enhanced operational performance but also solidified TranspoMaster's role as a key driver of innovation in the logistics sector. By positioning businesses for sustained success in an increasingly dynamic market, TranspoMaster ensures they are well-equipped to navigate future challenges and capitalize on emerging opportunities.