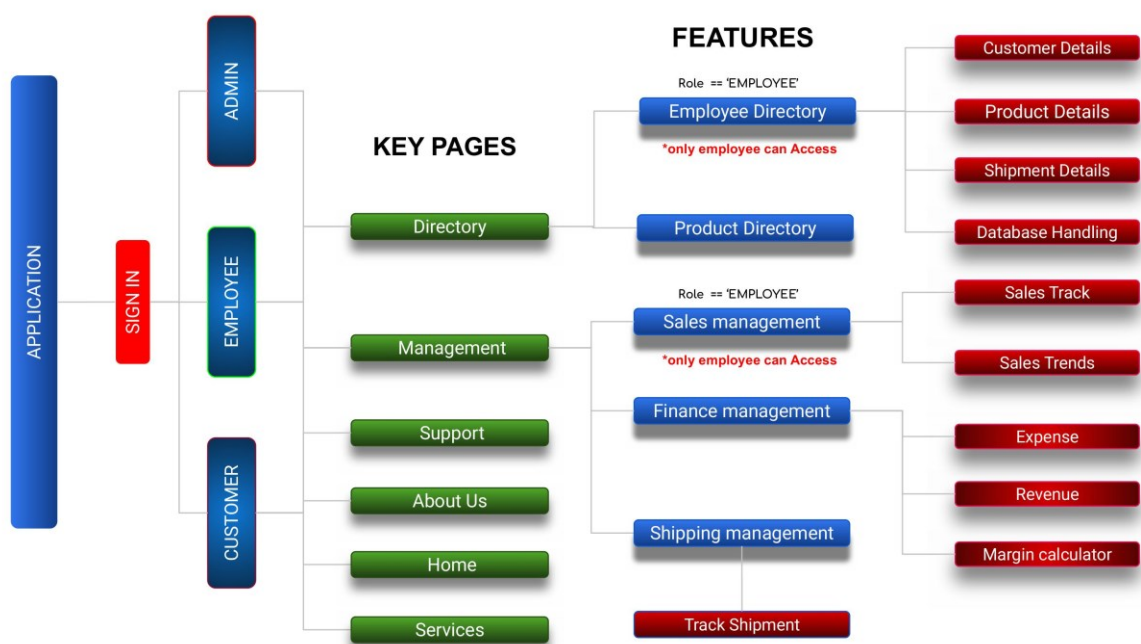


# FreightXpert

## 1. Introduction:

FreightXpert is an advanced logistics shipment booking platform designed to provide a seamless experience for customers and businesses in managing transportation needs across air, road, and ocean freight. This web-based system integrates **HTML, CSS, JavaScript, SQL, and Oracle APEX Workspace** to ensure an intuitive and efficient workflow for booking, tracking, and managing shipments. Customers can browse services, book shipments, and track their orders in real time, while administrators manage **sales, finances, and operations** through a centralized dashboard. The platform also includes a **product and employee directory**, a robust **shipment tracking system**, and a **support portal** to handle user queries effectively. With its secure authentication, automated database management, and scalability, FreightXpert aims to revolutionize logistics by increasing operational efficiency, enhancing transparency, and delivering a superior user experience.



## 2. Objectives

- To provide a user-friendly interface for customers to book shipments effortlessly.
- To offer a comprehensive directory of employees, models, and products.
- To manage sales, finance, and shipment tracking efficiently.
- To enhance customer engagement through a support system and social media integration.
- To maintain transparency and accessibility for both customers and administrators.

## 3. Technology Stack

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** SQL, Oracle APEX Workspace
- **Database:** Oracle SQL for data storage and management

## 4. Features & Functionalities

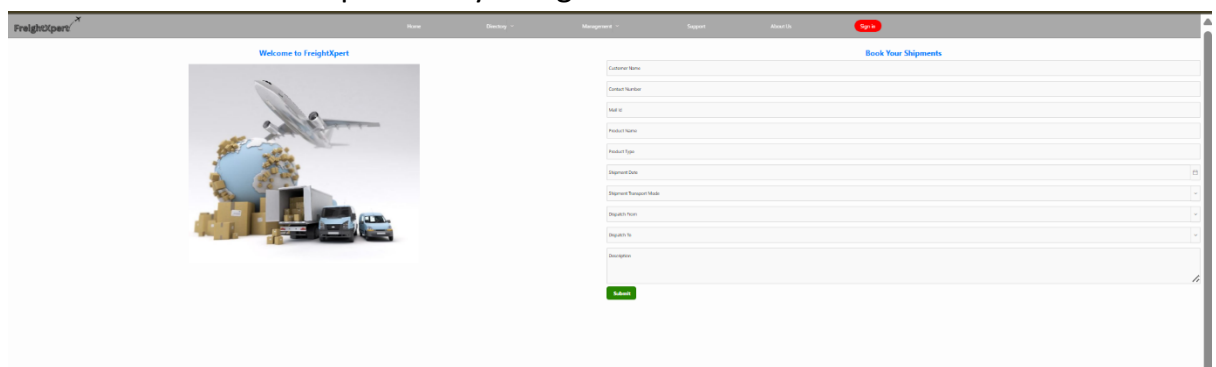


## 4.1 Home Page

- Overview of the company profile, including client count, years of experience, and specialization.
- Shipment booking buttons.
- Service details (Air, Road, and Ocean transport).
- "Why Choose Us" section highlighting unique selling points.
- Footer section with quick links to home, about us, management, directory, services, and contact pages.
- Social media integration (Instagram, Facebook, Twitter, Gmail).

## 4.2 Shipment Booking

- Customers can book shipments by filling out a form that includes:

The screenshot displays the FreightXpert website's shipment booking interface. On the left, there is a graphic featuring a globe with shipping boxes and a truck. The main area on the right contains a form titled "Book Your Shipments" with the following fields: Customer Name, Contact Number, Email ID, Product Name, Product Type, Shipment Date, Shipment Transport Mode, Shipment From, Shipment To, and Description. A green "Submit" button is located at the bottom of the form. The website's header includes the logo and navigation links for Home, Directory, Management, Support, and About Us.

- Customer name
  - Contact number
  - Email ID
  - Product name and type
  - Shipment date
  - Shipment transport mode
  - Dispatch locations (from and to)
  - Description
- The form is created using Oracle APEX Workspace, and data is stored in an SQL table.
- Submitted forms are automatically recorded in the database for admin review.

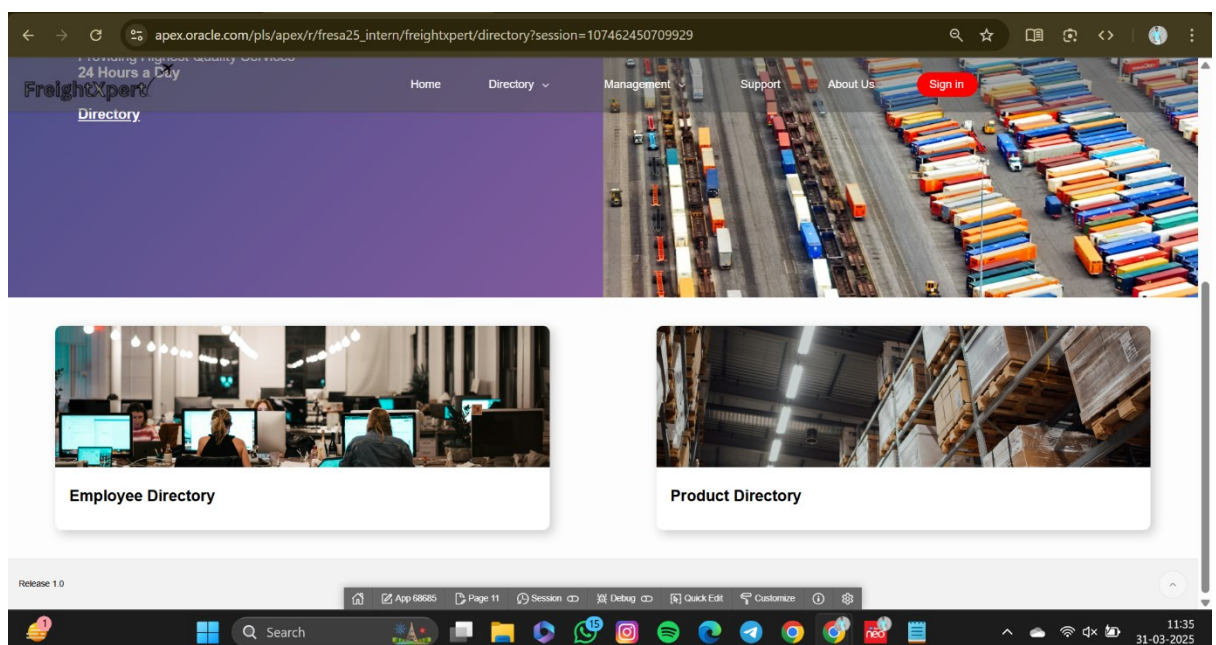
## 4.3 Directory

### 4.3.1 Employee Directory

- Customers can view company employee details.

### 4.3.2 Product Directory

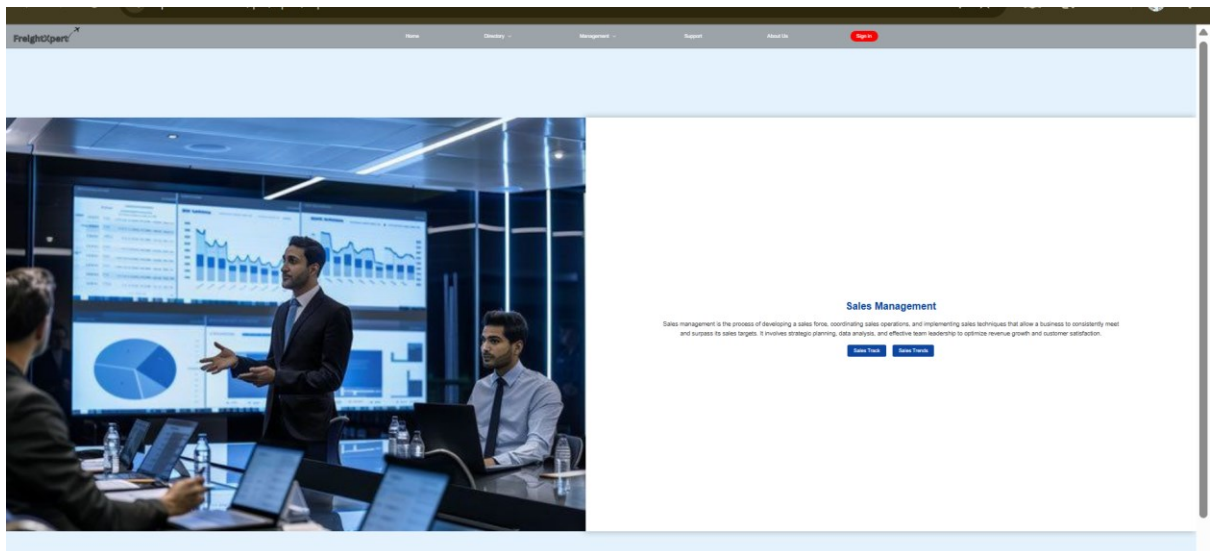
- Customers can browse transport products categorized into consumer goods, industrial goods, raw materials, textiles, hazardous goods, and specialized goods.
- Each product section has a shipment booking button.



## 4.4 Management

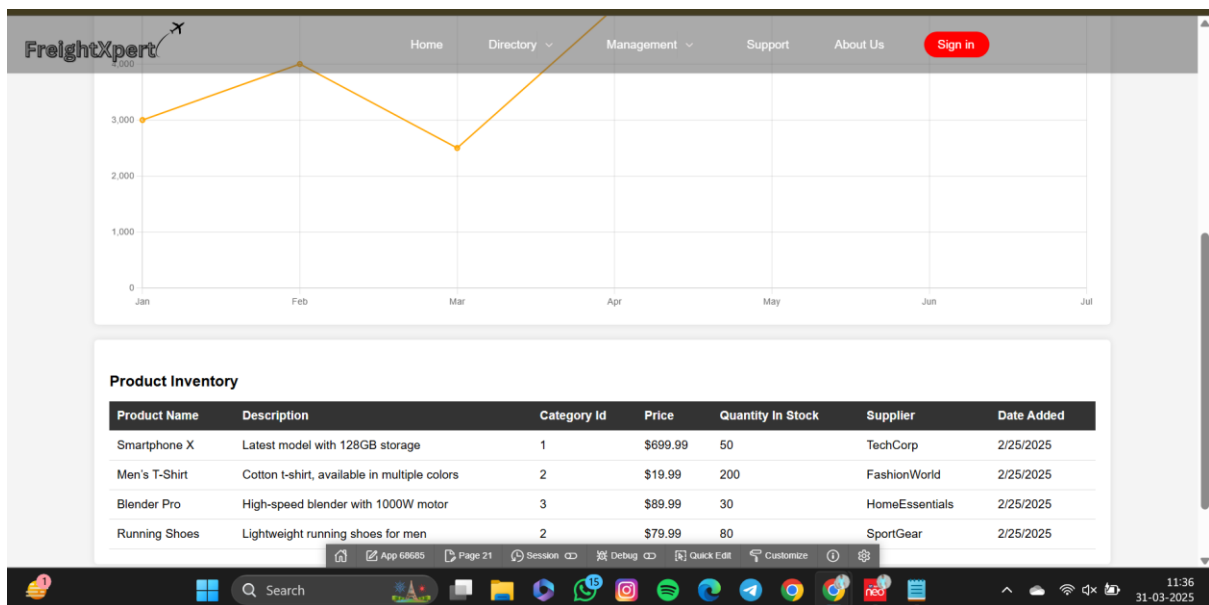
### 4.4.1 Sales Management

- **Sales Track:** Tracks product sales history and displays sales charts.
- **Sales Trends:** Provides an overview of customer transactions in report format.



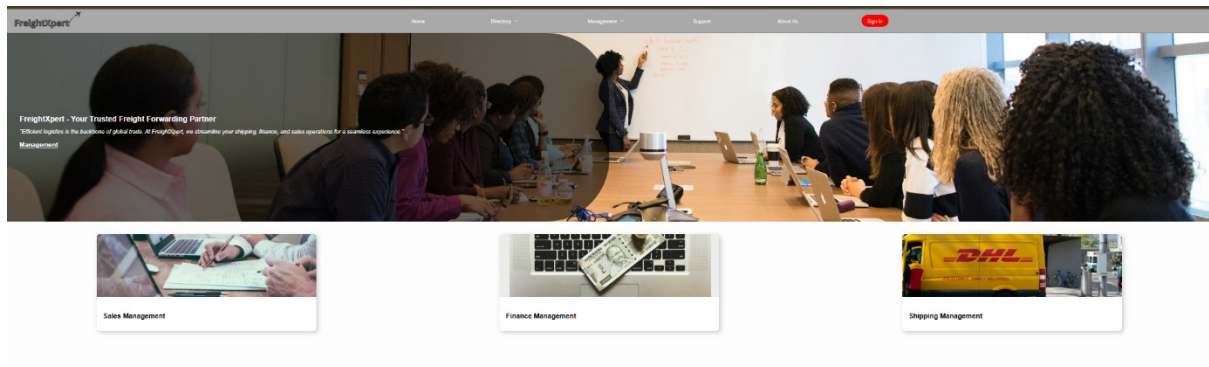
## 4.4.2 Finance Management

- **Expense & Revenue:** Displays the financial records of the company.
- **Margin Calculator:** Helps determine profit margins.



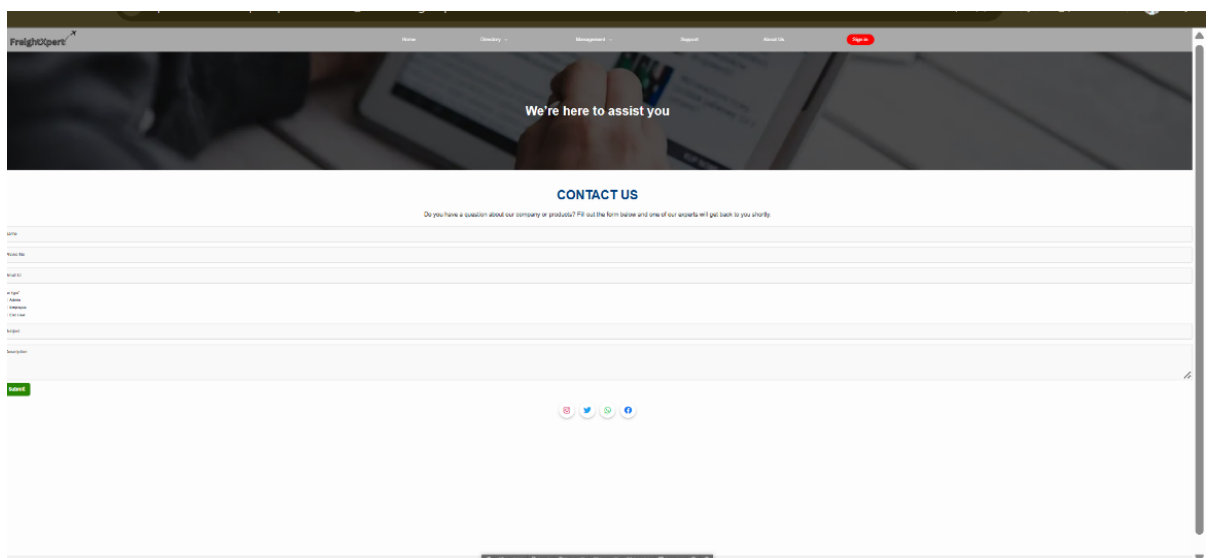
### 4.4.3 Shipment Management

- **Shipment Tracking System:** Users enter a shipment or tracking number in a search box to retrieve real-time shipment details.



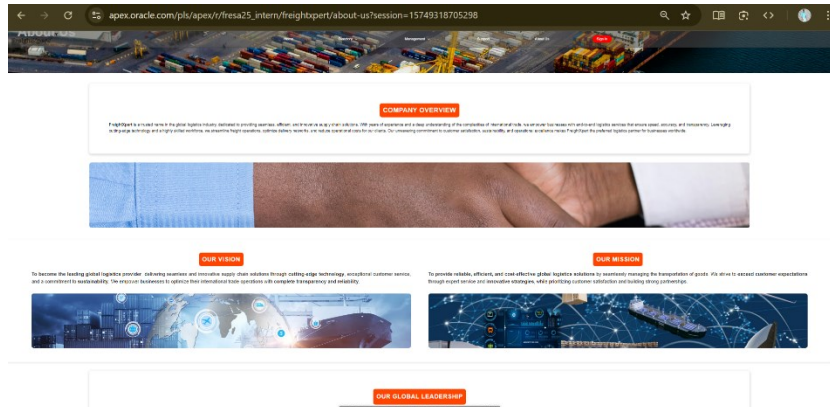
## 5.Support

- Functions like a "Contact Us" page.
- Users can submit queries via a form.
- Admins receive the queries and respond via email.



## 6. About Us

- Provides an overview of the company, including:
  - Company profile
  - Vision and mission
  - Global leadership
  - Social welfare initiatives



## 7. Sign-In Page

- Users and admins can log in to access different functionalities.

A screenshot of a 'Sign In' form. At the top, there is a blue square icon containing a white key symbol, followed by the text 'SIGN IN' in bold. Below this, there are two input fields: the first is labeled 'Username' with a red asterisk, and the second is labeled 'Password' with a red asterisk. The password field has a small eye icon to its right. A blue 'Login' button is positioned below the input fields. At the bottom, there is a link that says 'not an user? Sign up'.

## 8. Implementation Strategy

- **Phase 1:** Design the front-end using HTML, CSS, and JavaScript.
- **Phase 2:** Develop backend functionalities using Oracle APEX Workspace and SQL.
- **Phase 3:** Implement database structures and integrate forms for shipment booking and management.
- **Phase 4:** Deploy the platform and conduct user testing.

## 9. Database Design

- **Customer Table:** Stores customer details, including name, contact information, and booking history.
- **Shipment Table:** Contains shipment details, including product type, transport mode, and delivery status.
- **Employee Table:** Stores employee details for internal management.
- **Product Table:** Maintains a list of products available for transportation.
- **Sales Table:** Records financial transactions and revenue.

## 10. User Roles & Access

- **Customer:** Can book shipments, track orders, and view product listings.
- **Admin:** Manages bookings, verifies customer details, and oversees financial transactions.
- **Support Team:** Responds to customer queries and assists with shipment tracking.

## 11. Security Features

- Secure login authentication for users and admins.
- Data encryption for sensitive customer information.
- Role-based access control to ensure data protection.



## 12. Testing & Quality Assurance

- **Unit Testing:** Ensures individual components work correctly.
- **Integration Testing:** Verifies seamless interaction between modules.
- **User Testing:** Collects feedback to enhance user experience.
- **Performance Testing:** Checks the system's efficiency under heavy traffic.

## 13. Deployment & Maintenance

- Hosted on a cloud platform for scalability.
- Regular updates to improve functionality and security.
- Continuous monitoring to ensure optimal performance.

## 14. Expected Outcomes

- A fully functional logistics shipment booking system.
- Streamlined booking, tracking, and management processes.
- Enhanced customer engagement and service transparency.
- Efficient financial and sales management through data-driven reports.

## 15. Future Enhancements

- AI-based predictive analytics for shipment trends.
- Mobile application integration for better accessibility.
- Blockchain technology for secure and transparent transactions.
- Multi-language support for global reach.

## Conclusion

FreightXpert is a robust and scalable logistics management solution that simplifies shipment booking, tracking, and business operations. By integrating modern web technologies and database management, the platform ensures a seamless experience for customers and administrators. This project aims to revolutionize the logistics industry with efficiency and transparency. For more details, visit our platform at [FreightXpert](#).

