

CSE2211: Database
Management Systems-1
Lab Project
Submitted To:

Mr. Abu Ahmed Ferdaus,
Dept. of CSE, University of
Dhaka.

Redwan Ahmed
Rizvee, Dept. of CSE,
University of Dhaka.

Submitted By:
Ishrat Jahan Mim
and
Tabassum kabir

Supply Chain Management Database System(SCM)

&

Web Application



From
Warehouse
to Delivery

i

Problem Statement/ Motivation

Brief points:

- Traditional supply chain systems often suffer from manual errors, data inconsistency, and lack of real-time tracking.

Businesses need a centralized system to manage suppliers, employees, inventory, orders, and logistics efficiently.



Project Objectives

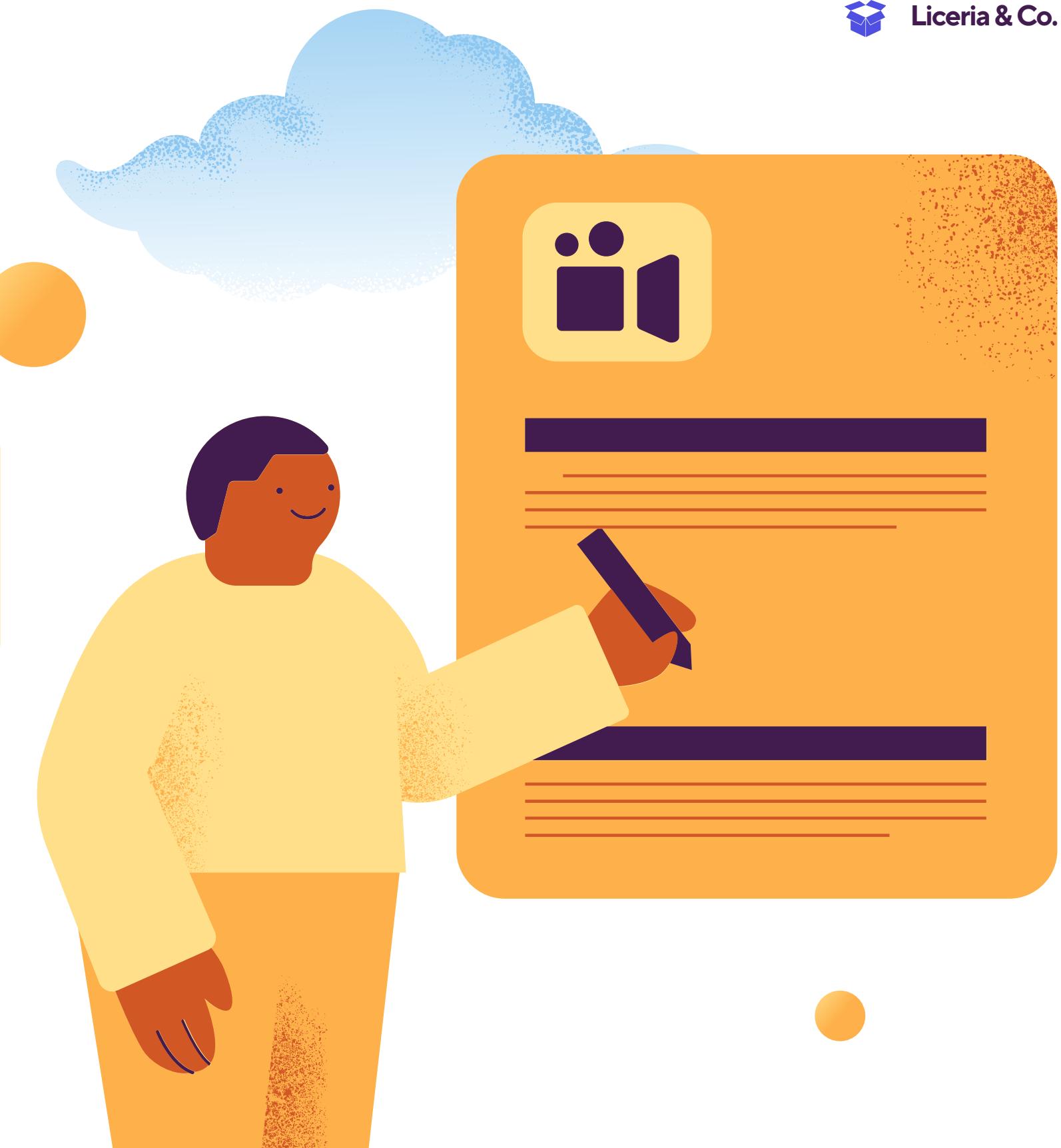
Design a normalized relational database

Manage employees, orders, shipments, and payments

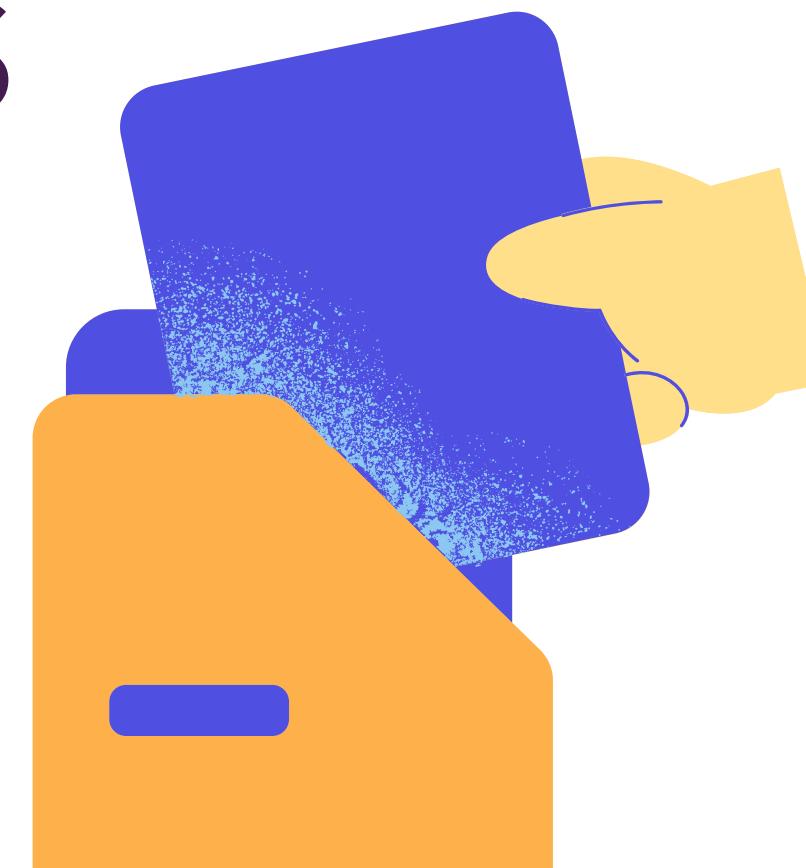
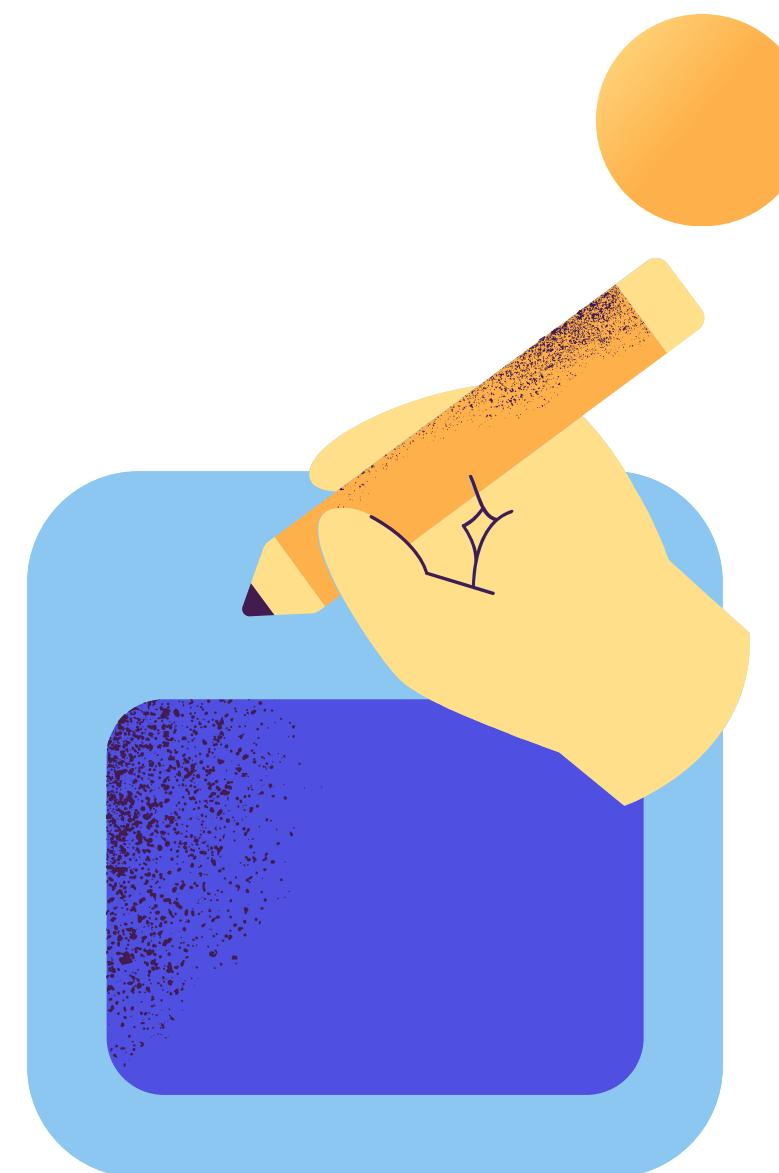
Track products, suppliers, and warehouses

Support real-time inventory control

Provide structured data for decision-making

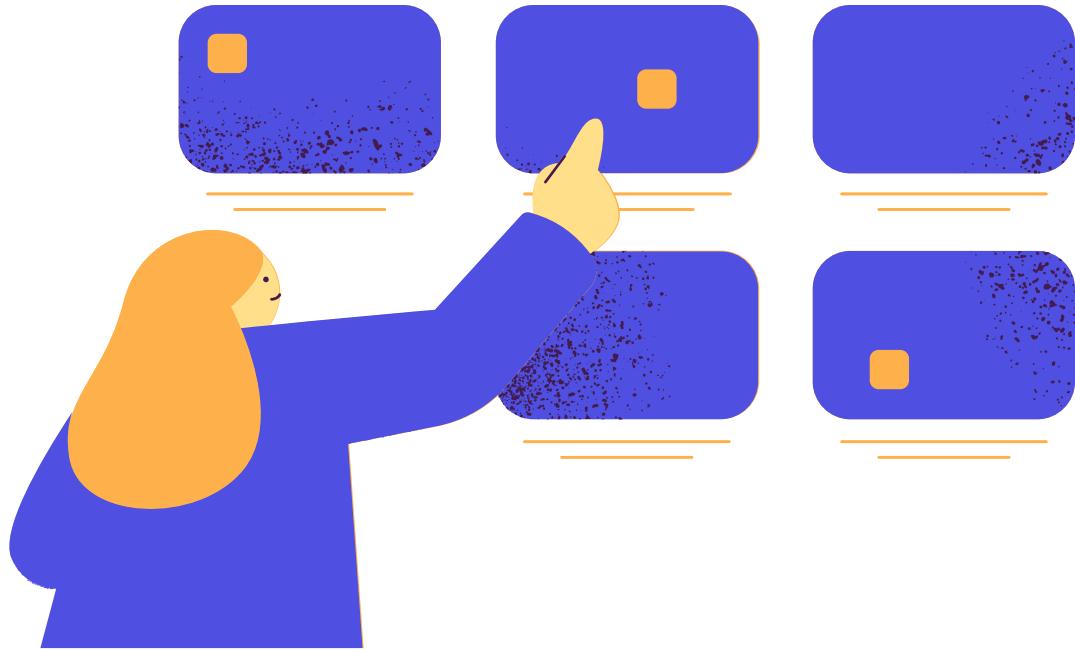


Key Features & Benefits



- **Integrated supplier-customer workflow**
- **Secure and consistent data**
- **Scalable for future ERP integration**
- **Employees, orders, customers, inventory all can be managed by using one.**

Project Scope



Supplier & Product Management



Inventory & Warehouse Management



Order Lifecycle Management



Procurement & Purchase Orders



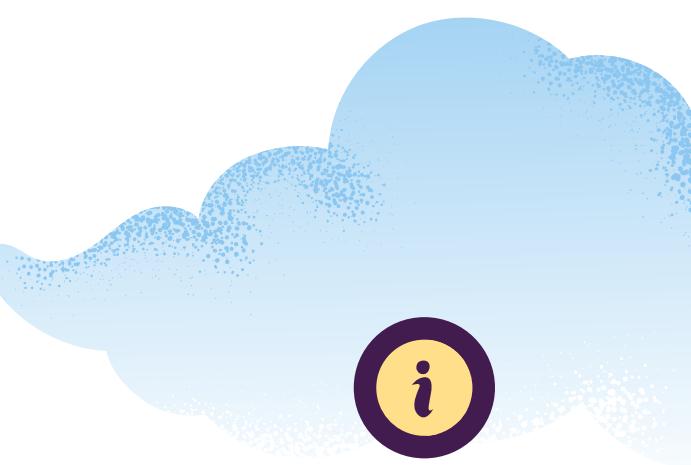
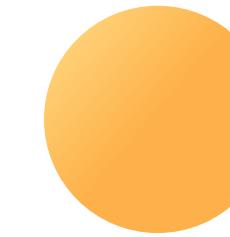
Shipping & Logistics

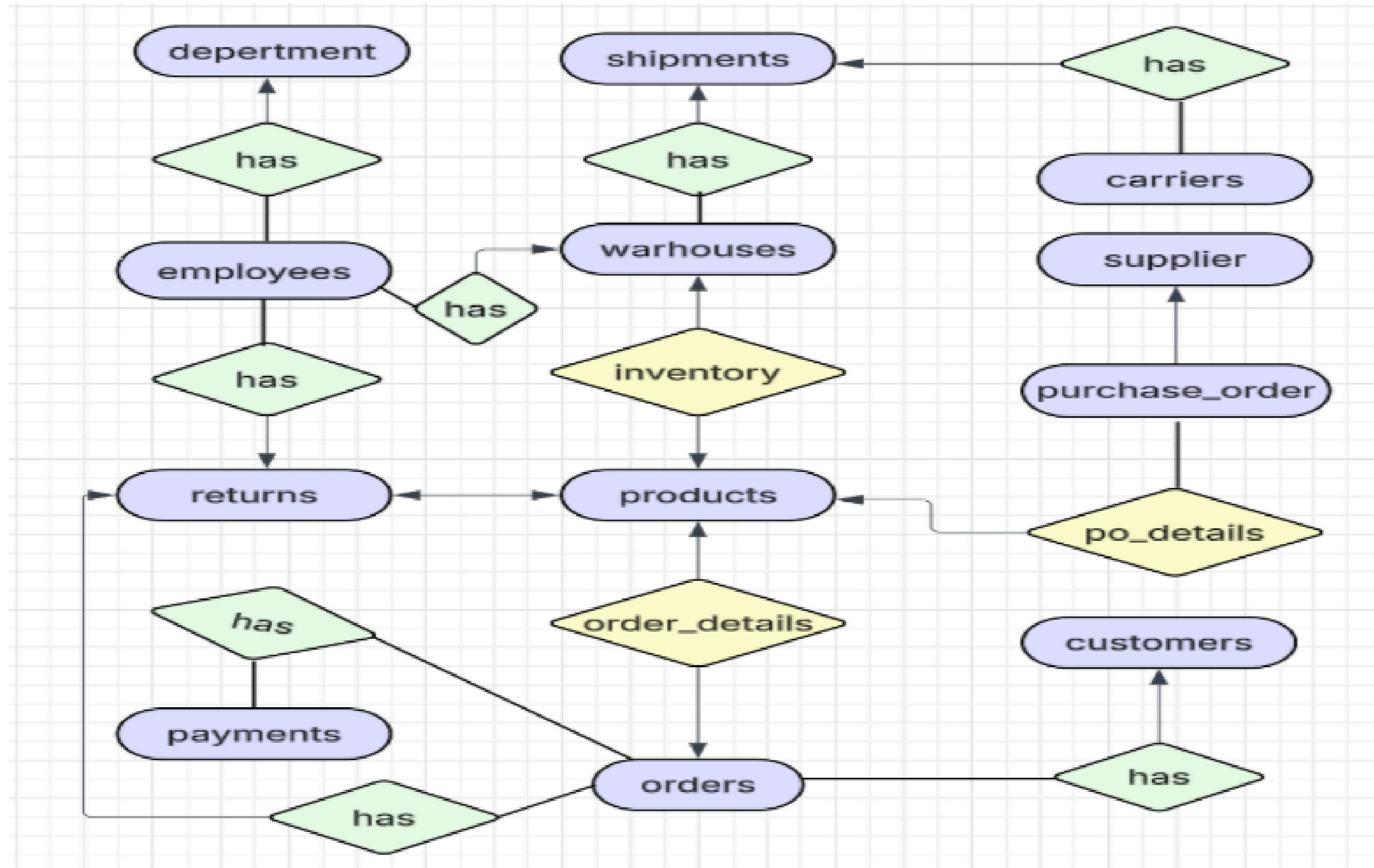


Employees & Departments



Payments & Returns



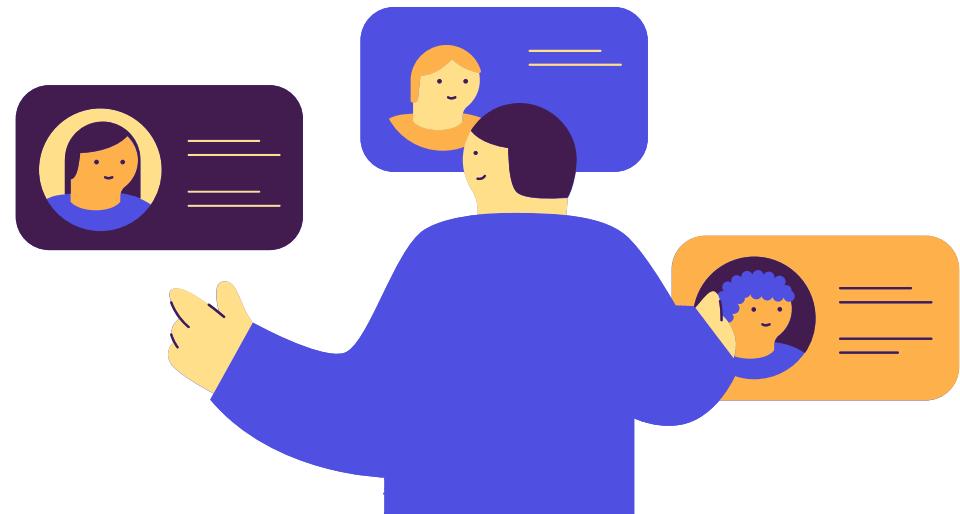
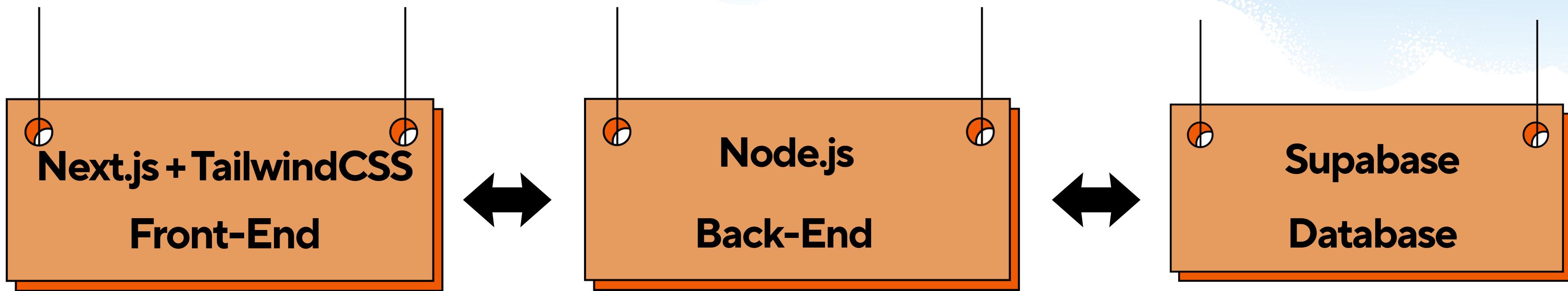


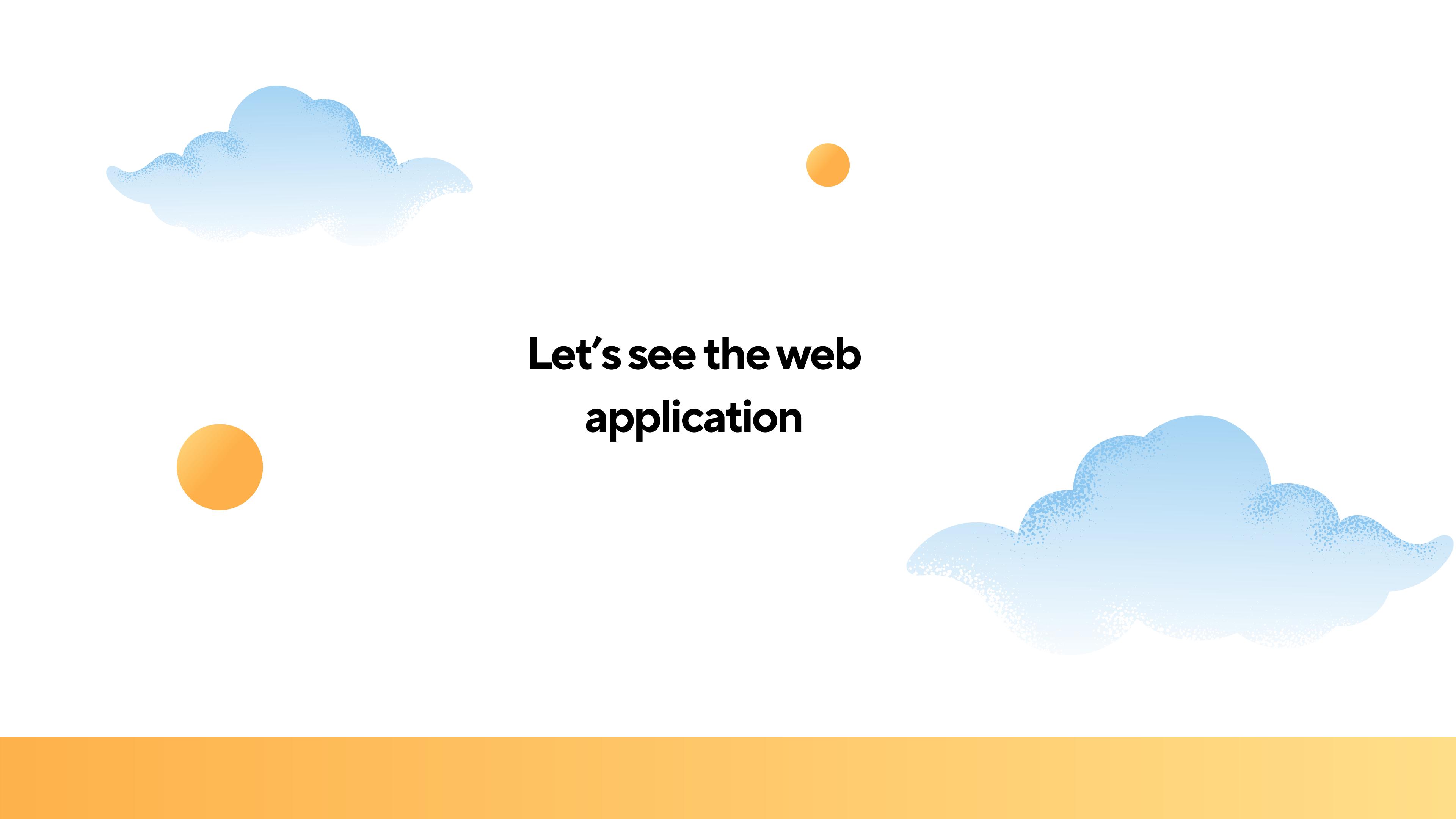
Key Tables:

- Products (Icon: Box)
- Warehouses (Icon: Shelves)
- Shipments (Icon: Truck)
- Employees (Icon: Person)
- Payments (Icon: Credit Card)
- Returns (Icon: Arrow)
- Orders (Icon: Document)

Entity-Relationship Diagram

System Architecture





**Let's see the web
application**

Conclusion:

The system provides an organized and efficient platform for managing suppliers, employees, products, orders, inventory, shipping, and returns. It ensures secure and consistent data while improving operational workflow.

Future Enhancements:

Mobile app version for on-the-go access

Predictive analytics / AI-based demand forecasting

API integration with external business systems





Get in Touch with Us

tabassumkabir34@gmail.com

ishratcsedu29@gmail.com



THANKYOU

