

# Project Name: E-Billing with Stock Management

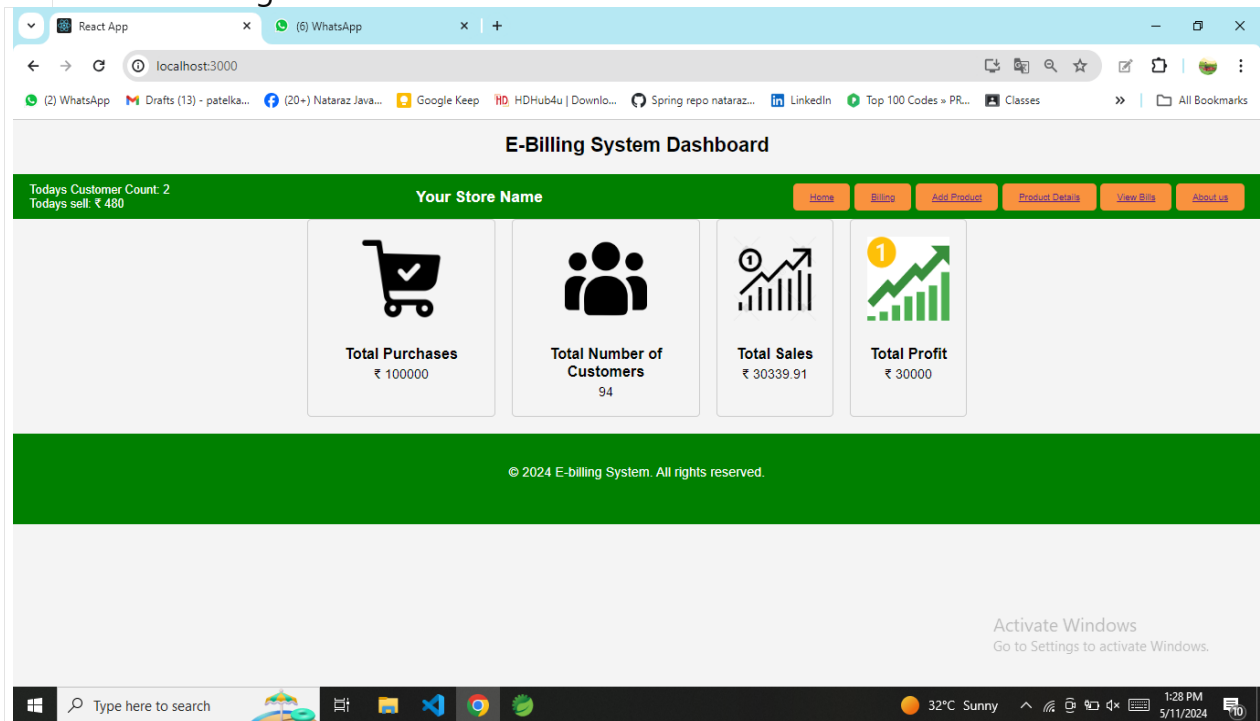
## Technology Stack:

- Backend: Java, Spring Boot, Java Mail Service, iText for PDF generation
- Frontend: React.js
- Database: MySQL

## Pages:

### 1. Dashboard:

- Provides an overview for shopkeepers including today's customer count, total sales, and quick access buttons for billing, adding products, viewing products, and viewing bills.



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## 2. Billing:

- Enables shopkeepers to generate bills for customers.
- Shopkeepers input customer details such as name, contact number, email, and payment mode.
- Shopkeepers select products from a dropdown menu, specify quantities, and the software calculates the total automatically.
- Products can be added incrementally, allowing for multiple items in a single bill.
- When the shopkeeper clicks on "Print Bill," the generated PDF bill will be sent to the customer's email ID. In future iterations, this functionality will extend to sending bills via WhatsApp.

**Billing Information**

Customer Name:  Contact Number:  Email:  Payment Mode:

Product Name:  Quantity:  Product ID:  Price:

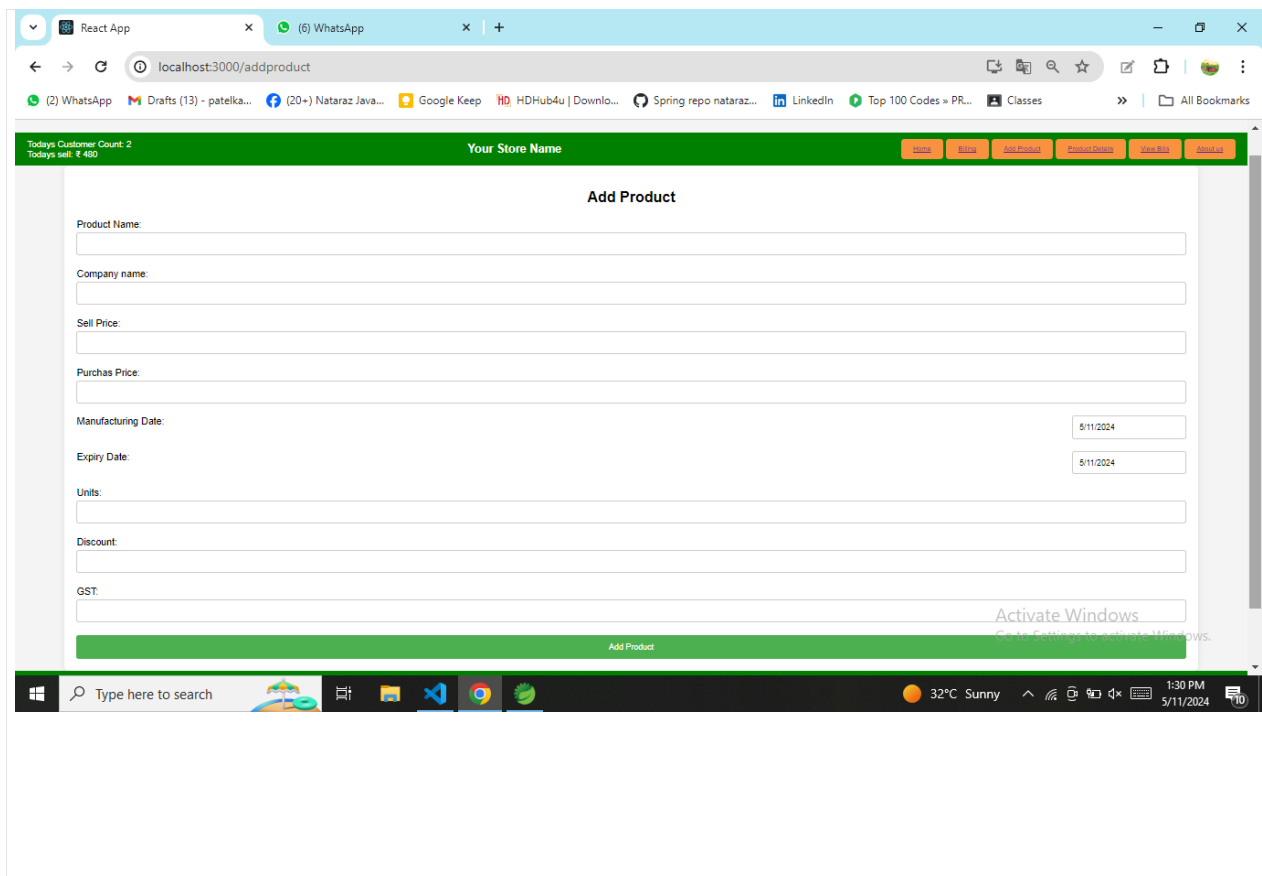
**Billing Table**

Sno	Product ID	Product Name	Quantity	Price	Total	Actions
1	653	Good Day	2	₹ 10	₹ 20.00	<input type="button" value="Cancel"/>
2	652	Milk	1	₹ 64	₹ 64.00	<input type="button" value="Cancel"/>
Total					₹ 84.00	

## 3. Add Product:

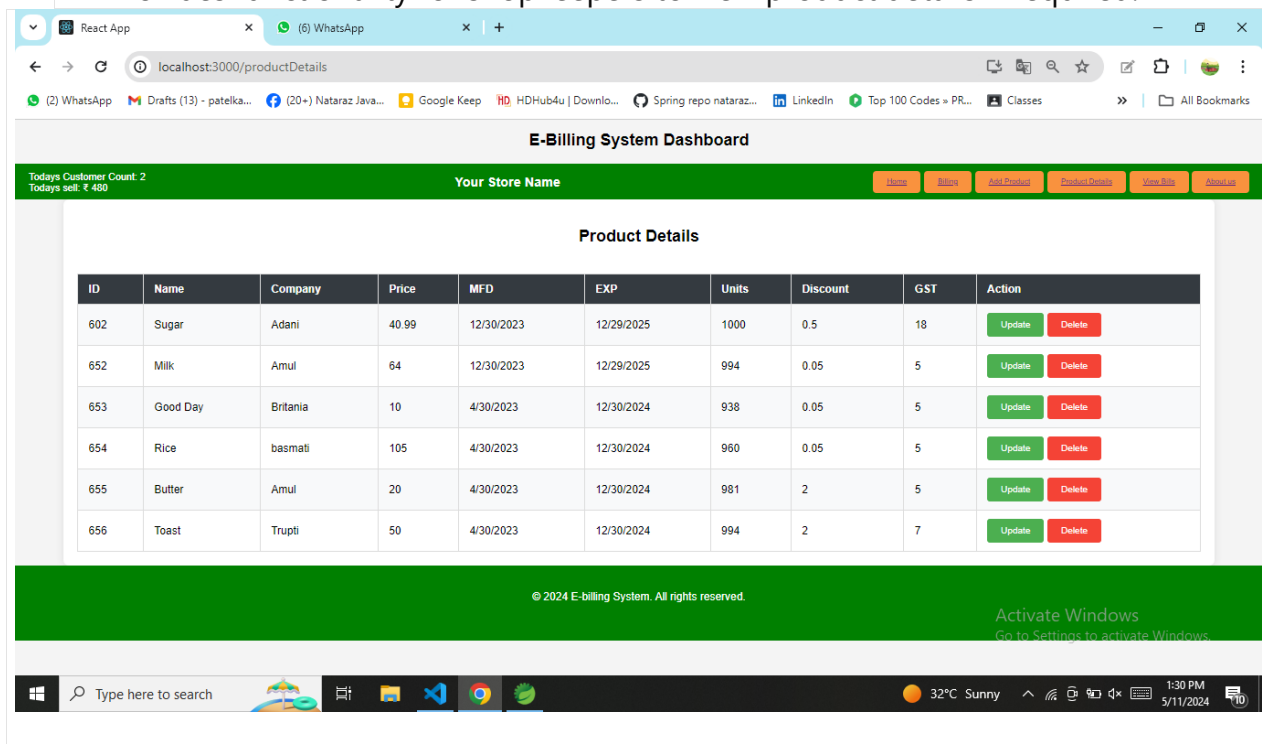
- Allows shopkeepers to register new products for selling.
- Fields for registering a product include:
  - Name
  - Purchase price
  - Selling price
  - Manufacturing date
  - Expiry date
  - Units available
  - GST
  - Company name

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#### 4. View Product:

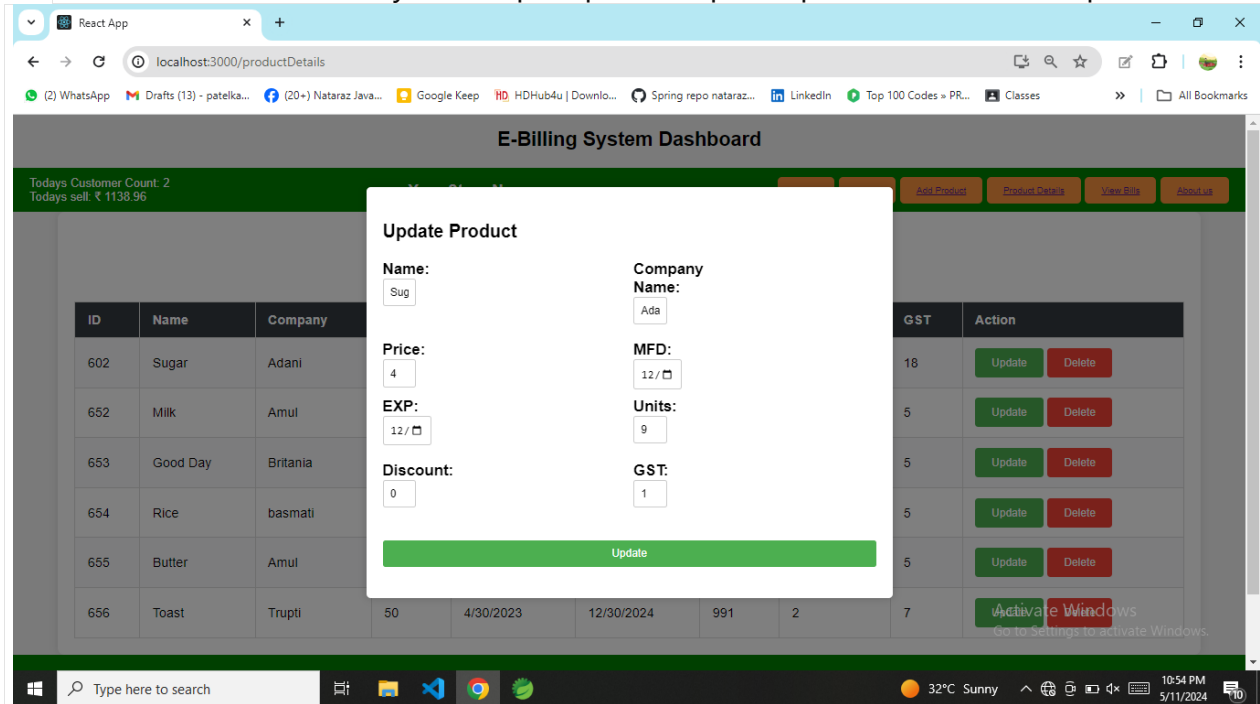
- Provides functionality for shopkeepers to view product details if required.



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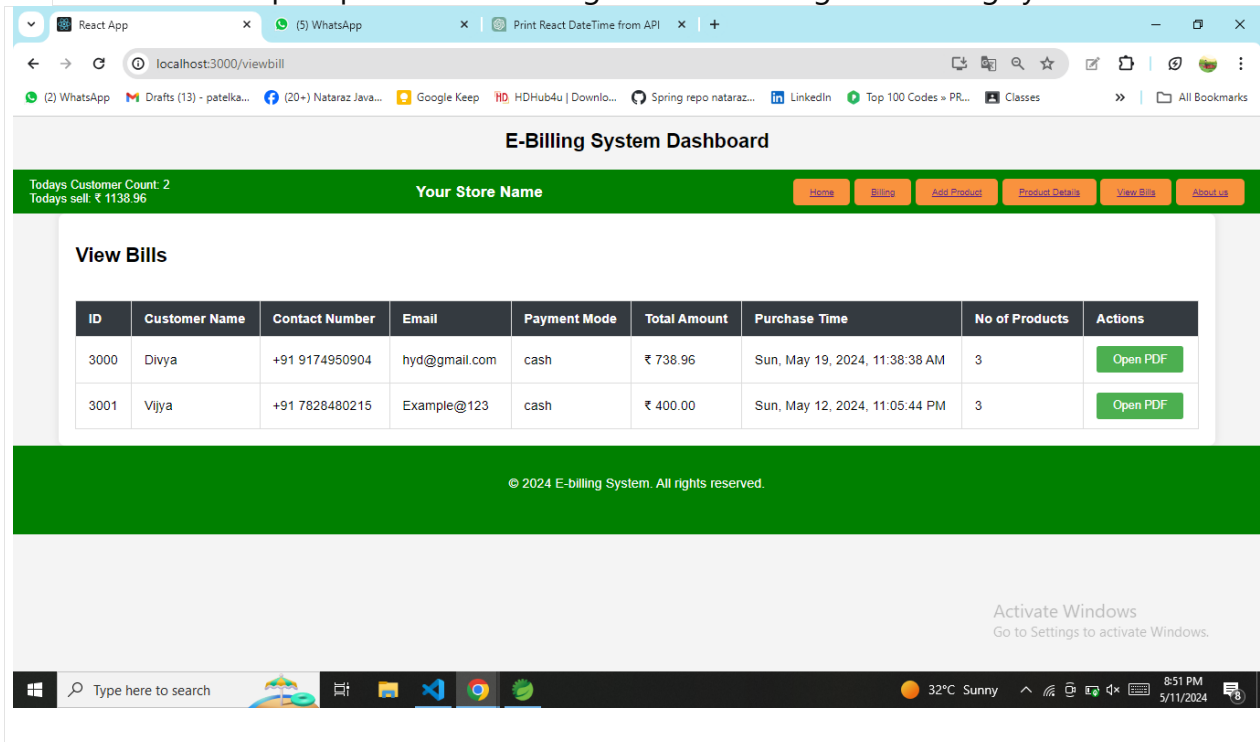
## 5. Update Product:

- Provides functionality for shopkeepers to update product details if required.



## 6. View Bills:

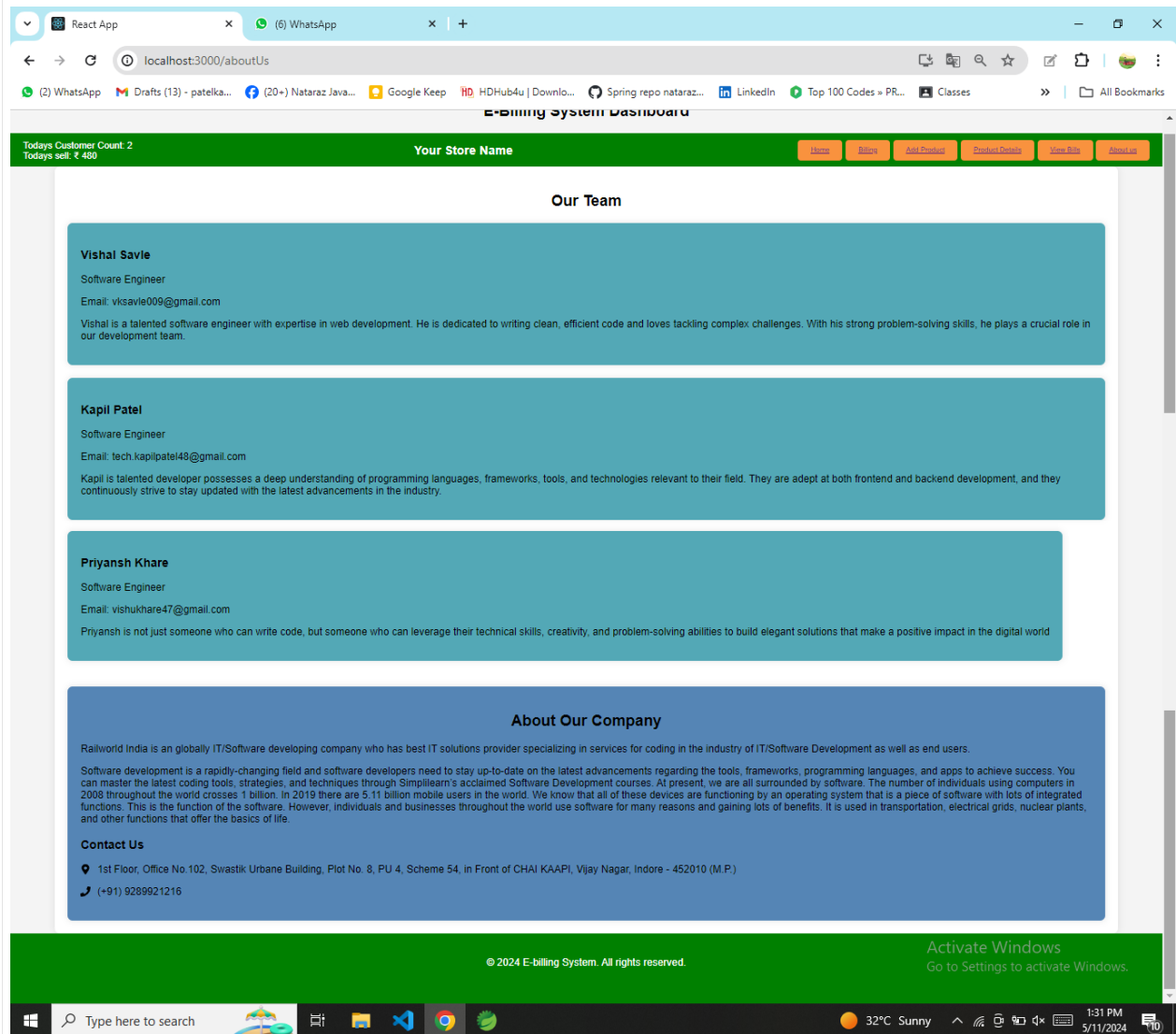
- Enables shopkeepers to view bills generated through the billing system.



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## 7. About Us:

- Information about E-billing system Development Team & Company.



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**Database Tables:**

**1. Table: bill\_details**

- **Columns:**
  - id (int, PK),
  - contact\_number (varchar(255)),
  - email\_id (varchar(255)),
  - name (varchar(255)),
  - payment\_type (varchar(255)),
  - purchase\_time (datetime(6)),
  - total\_amount (double),
  - transaction\_id (varchar(255)),
  - pdf\_path (varchar(255)),
  - product\_count (int)

**2. Table: product\_details**

- **Columns:**
  - id (int, PK),
  - company\_name (varchar(255)),
  - discount (double),
  - exp (date),
  - gst (double),
  - mfd (date),
  - name (varchar(255)),
  - price (double),
  - units (int),
  - purchase\_price (double)

This project aims to streamline billing processes for shopkeepers while effectively managing stock through a user-friendly interface powered by Java and React.js technologies.

## Future Enhancements:

1. **QR Code Payment Integration:** Implementation of a QR code generation feature within the billing system to encode the customer's bill amount. This feature will enable customers to conveniently scan the QR code using their mobile devices, facilitating seamless and efficient bill payment processes.
2. **WhatsApp Billing Integration:** Expansion of the billing system's functionality to include the option of sending generated PDF bills to customers via WhatsApp. This enhancement aims to provide customers with an additional communication channel for receiving and reviewing their bills, enhancing convenience and accessibility.
3. **Analytics Dashboard Development:** Development of an advanced analytics dashboard designed to provide comprehensive insights into sales trends, product popularity, and customer behavior. Leveraging data collected from past transactions, this dashboard will empower shopkeepers with actionable information for informed decision-making regarding inventory management, pricing strategies, and customer engagement.
4. **Customer Data Management Enhancement:** Implementation of an enhanced customer data management system to cater to recurring customer visits. This system will capture and store relevant customer data, including purchase history, preferences, and contact information. By effectively managing customer data, businesses can personalize the shopping experience, foster customer loyalty, and optimize marketing strategies.