

## Smart - Invoice Application

### Developed by:

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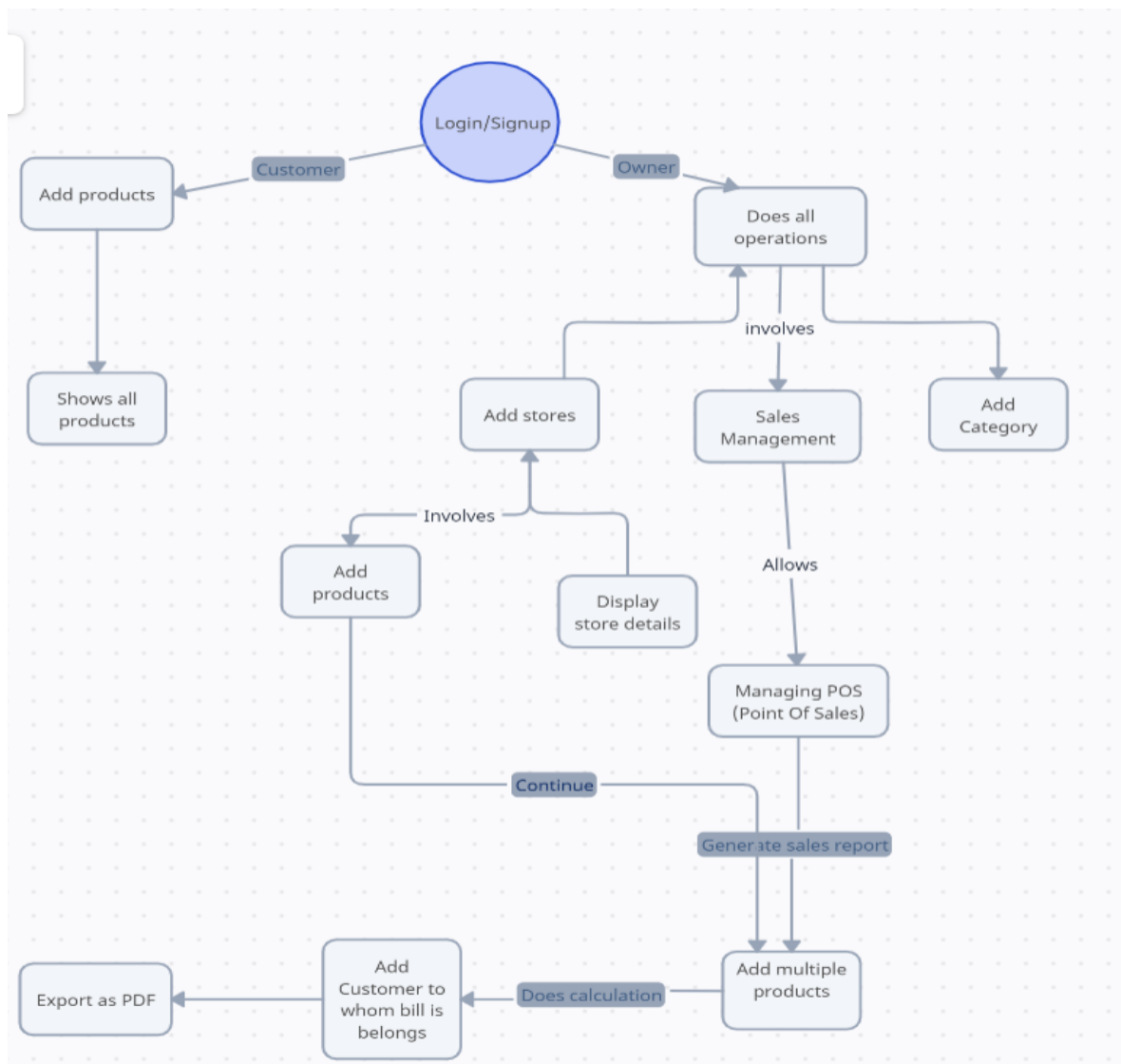
### Overview:

This application incorporates role-based access control, distinguishing between customers and owners, each with specific privileges for data modification. Users in the owner role can perform comprehensive modifications to customer information, ensuring seamless management. Additionally, the application offers robust functionality for product management through a Point of Sale (POS) system, streamlining the process of handling product-related tasks. A notable feature is the ability to generate professional and detailed invoices in PDF format, providing a polished and standardized output for customers.

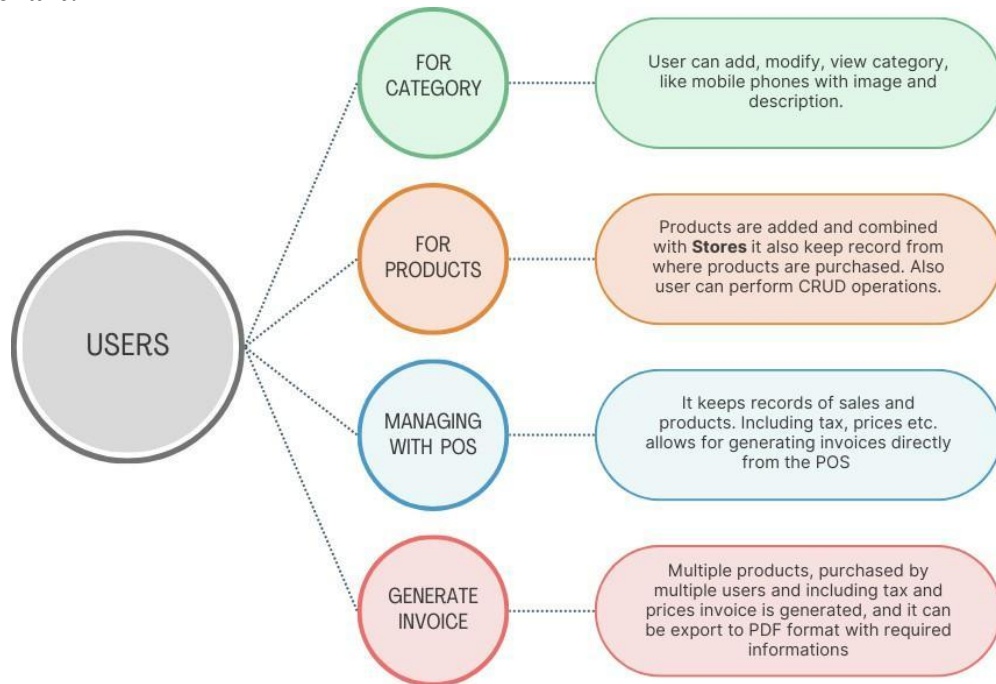
### Database: Smart-Invoice

Contains tables for,

User, Customer, Category, Product, Sale, Store, Quotation, Transfer.

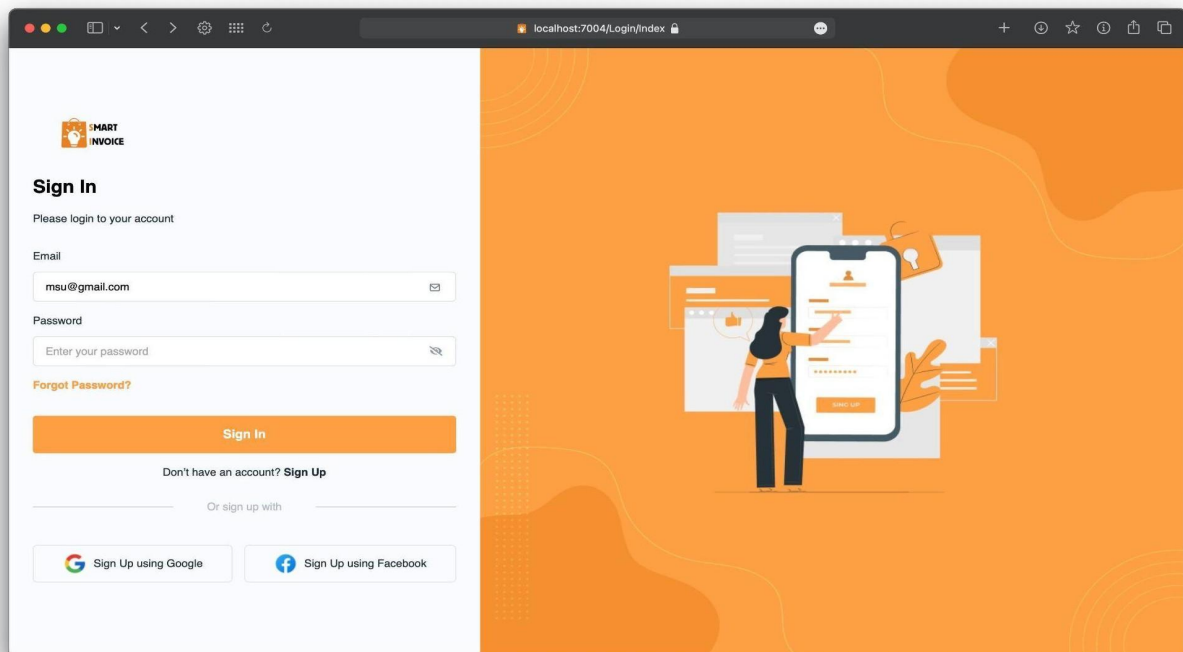


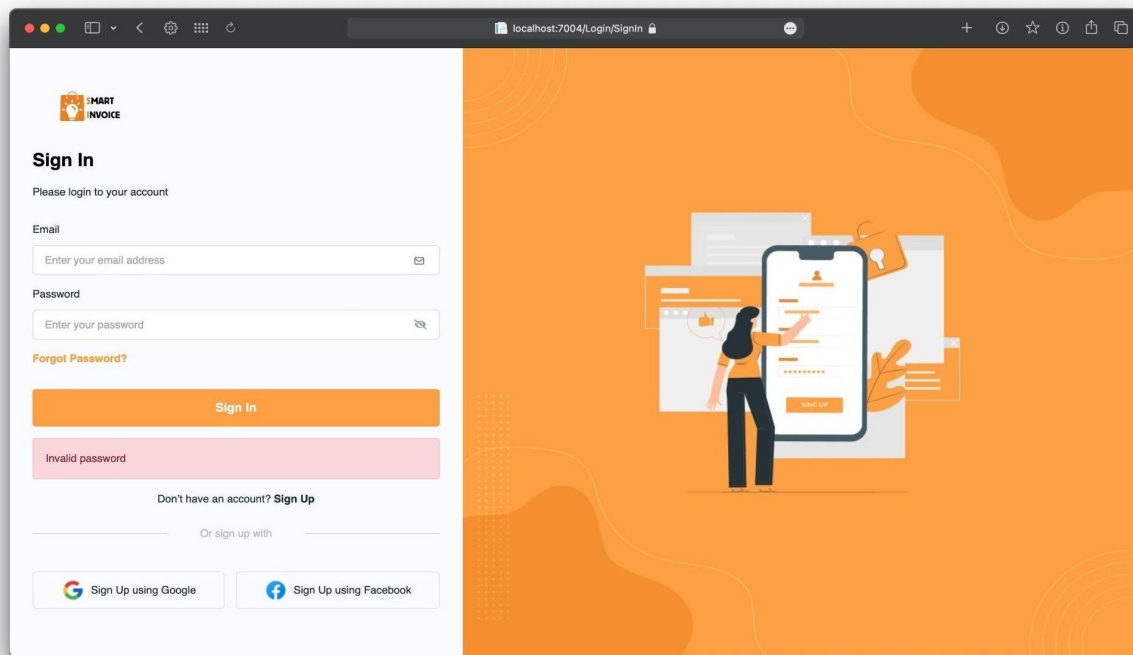
**Flow-chart:**



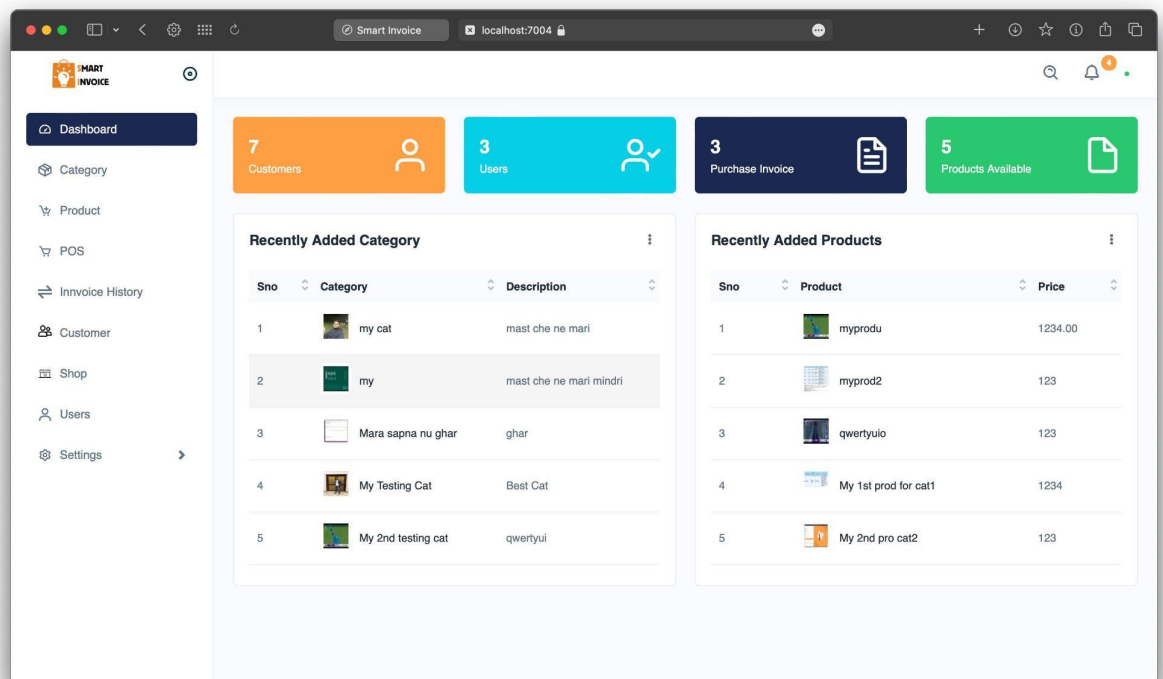
**Key-Features implemented:**

- Login/Signup :
  - Applied validation for both things.





- Dashboard:



- Customer Management:
  - Create, edit, and delete customer information.
  - Search and filter customers based on various criteria.
  - View customer purchase history and generate reports.

**iMART INVOICE**

Dashboard

Product

Sales

Return

**Customer**

Shop

Table

Report

Users

Settings

**Customer Management**  
Add/Update Customer

Customer Name Email Phone

Description

Store  
Select

Submit Cancel

**iMART INVOICE**

Dashboard

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**Customer Management**  
Add/Update Customer

Customer Name Email Phone

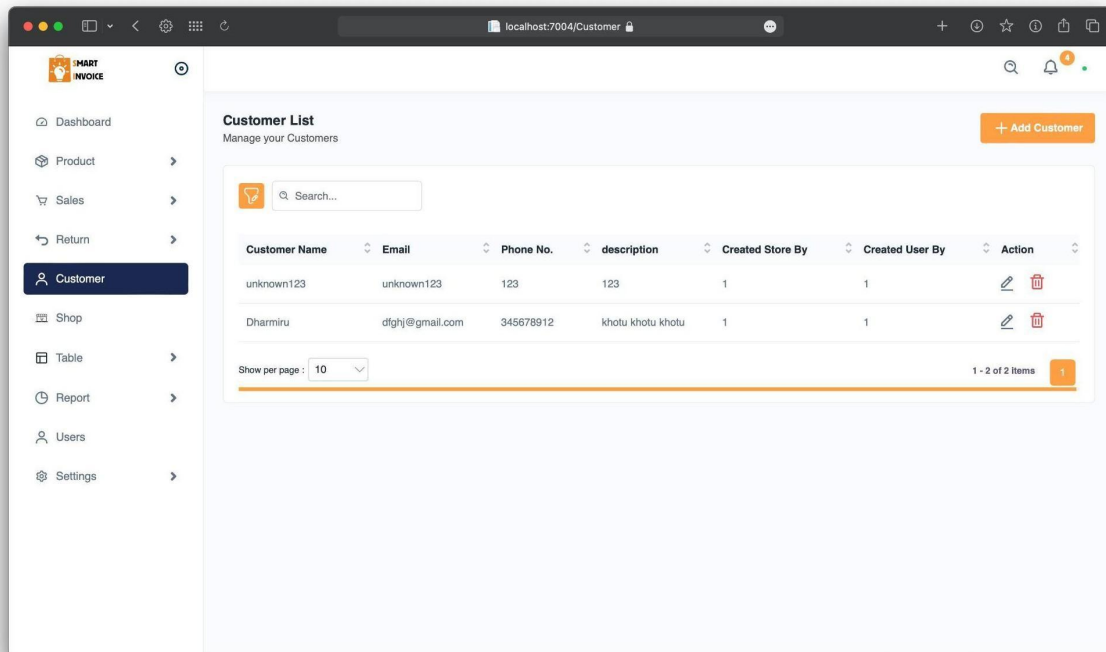
unknown123 unknown123 123

Description

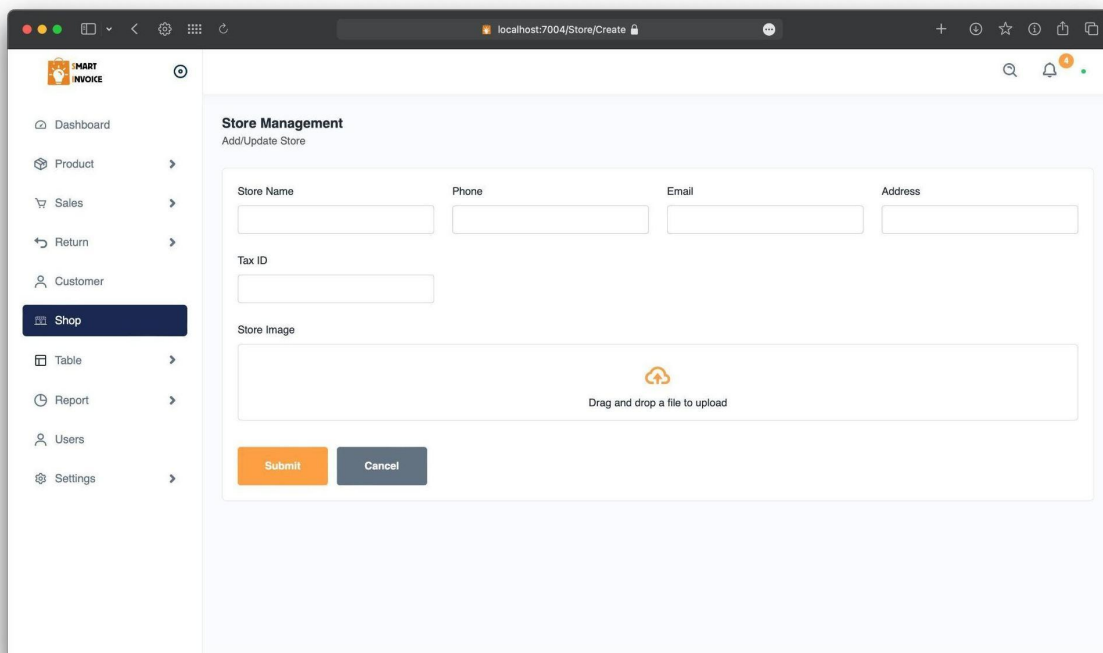
123

Store  
mulraj

Submit Cancel



- Store Management:
  - Manage store information and connect with all other attributes present in application, to access and search data easily.



**SMART INVOICE**

Dashboard

Product

Sales

Return

Customer

**Shop**

Table

Report

Users

Settings

**Store Management**  
Add/Update Store

**Edit Store**

Store Name: marwadi

Phone: 12345

Email: must@gmail.com

Address: 12345

Tax ID: 3245

Store Image

Drag and drop a file to upload

Update Cancel

- **Product Management:**
  - Add, edit, and delete product information including description, price, and inventory levels.
  - Manage product categories and tags for improved organization.
  - Track product sales and generate reports.

**SMART INVOICE**

Dashboard

**Product**

Category

**Product**

Import Products

Print Barcode

Sales

Return

Customer

Shop

Table

Report

Users

Settings

**Product Add**  
Create new product

Product Name

Category: Select

Min Quantity

Quantity

Description

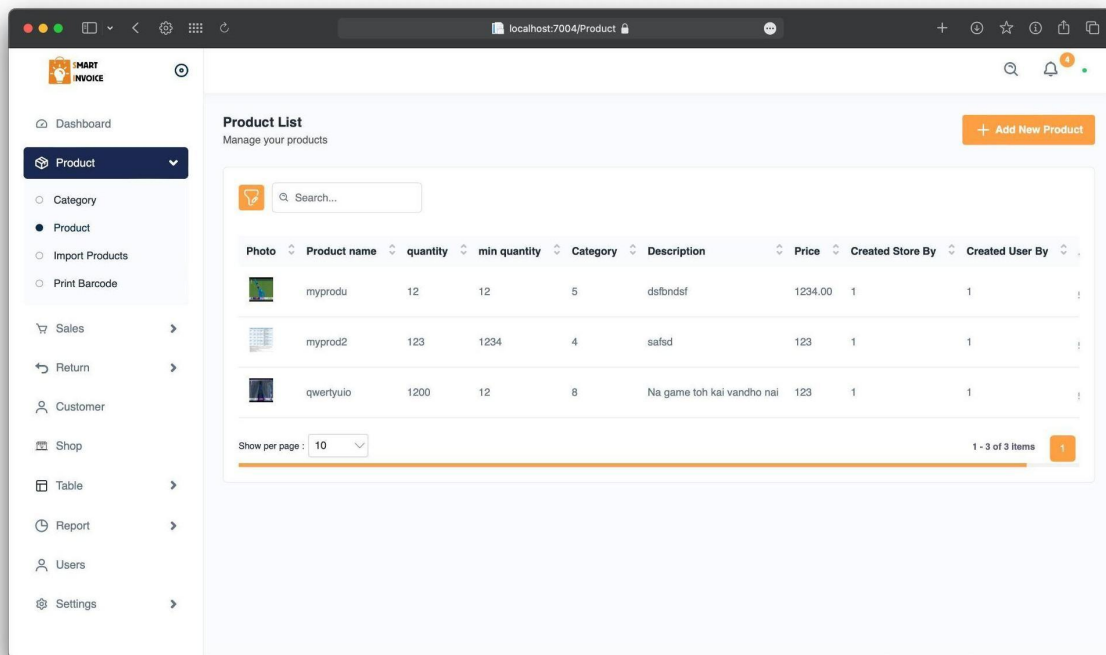
Store: Select

Price

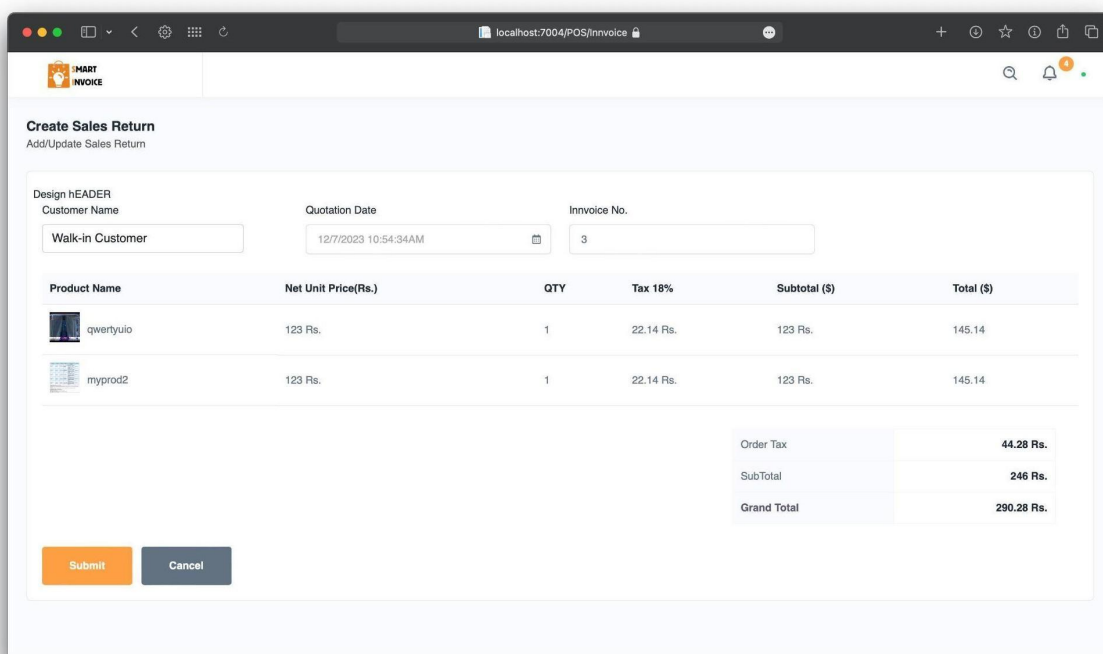
Product Image

Drag and drop a file to upload

Submit Cancel



- Invoice Generation:
  - Generate invoices based on selected products and customer information.
  - Calculate taxes and discounts based on configurable settings.
  - Export invoices as PDF documents for printing.



- Role-Based Access Control:
  - Define roles with specific permissions for different user types (e.g., customer, owner, admin).
  - Restrict access to sensitive information and functionalities based on user roles.
  - Maintain data security and ensure appropriate user access levels.

**Profile**  
User Profile

Updates Your Photo and Personal Details.

First Name: trial, Last Name: Kern, User Name: wqe, Password: [masked]

Phone: 123, Email: msu@gmail.com

User Image: Drag and drop a file to upload

Buttons: Submit, Cancel

**User List**  
Manage your User

+ Add User

Search...

Name	Avatar	User name	Phone	Email	Role	Action
Mustafa Bharmal		Mustafa	7817878653	mustafa@admin.com	Admin	<a href="#">Edit</a> <a href="#">Delete</a>
mustafa bharmal		1234	12345	mustafa@gmail.com	Admin	<a href="#">Edit</a> <a href="#">Delete</a>
dharml javiya		123	1234	2134	User	<a href="#">Edit</a> <a href="#">Delete</a>
trial qw		wqe	123	msu@gmail.com	Admin	<a href="#">Edit</a> <a href="#">Delete</a>

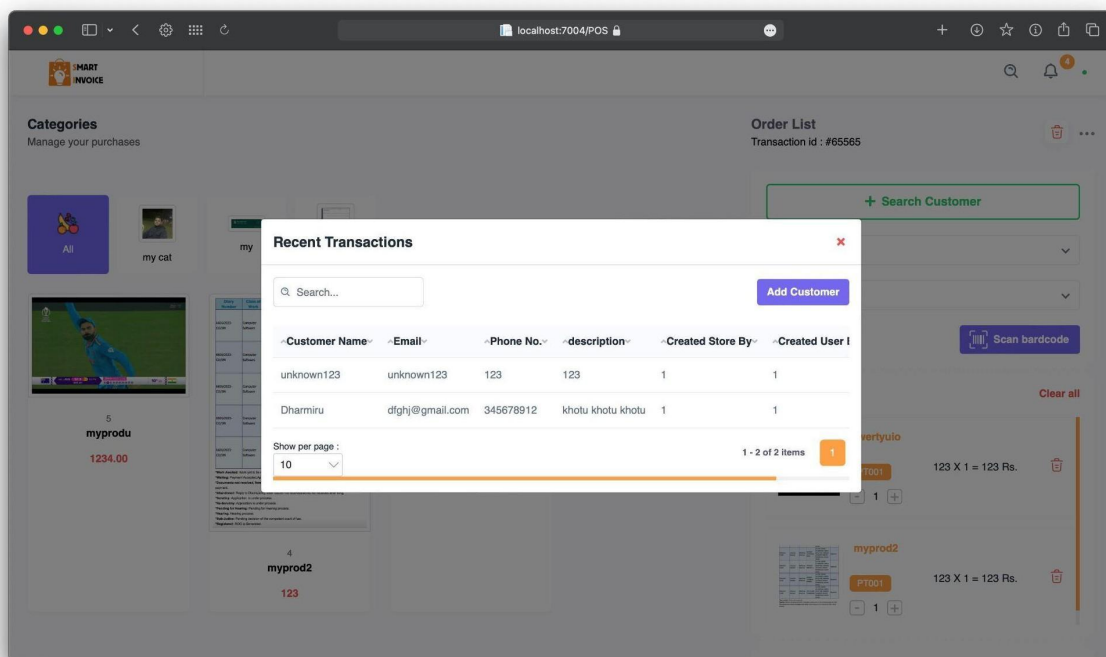
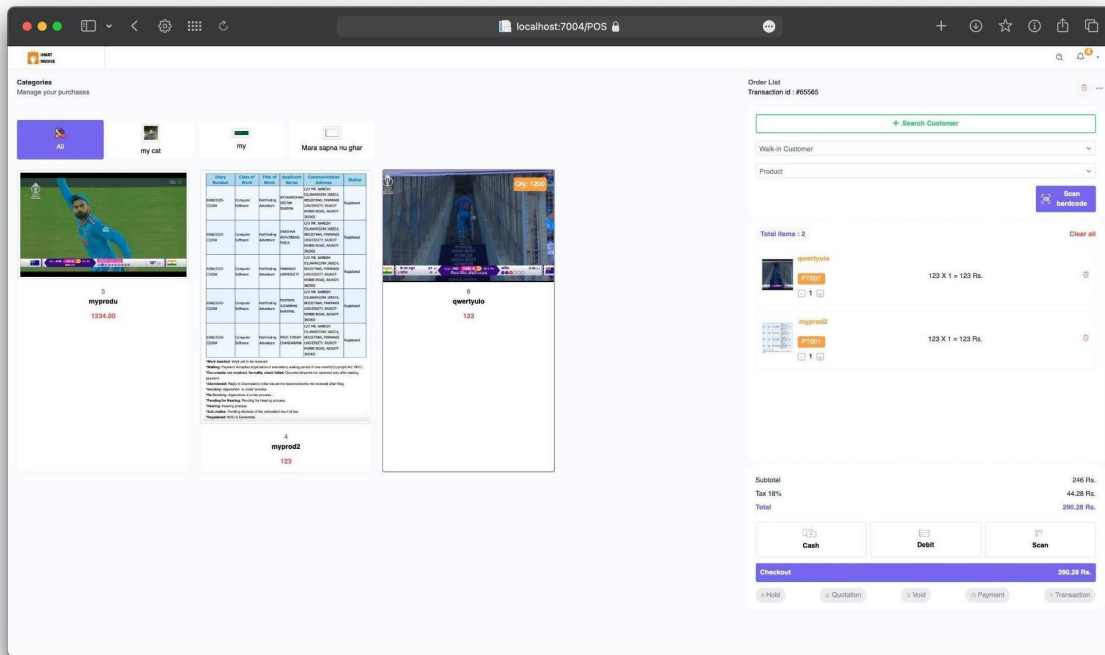
Show per page: 10 1 - 4 of 4 items



The screenshot shows the 'User Management' section with the 'Add User' form. The form includes input fields for First Name, Last Name, User Name, Password, Phone, Email, and Role (a dropdown menu). There is also a 'User Image' section with a drag-and-drop upload area. At the bottom, there are 'Submit' and 'Cancel' buttons. The left sidebar contains navigation links: Dashboard, Product, Sales, Return, Customer, Shop, Table, Report, Users (highlighted), and Settings.

- Point-of-Sale (POS) Integration:
  - Efficient integration with POS systems for real-time product selection and invoice generation.
  - Streamline the sales process and improve efficiency.

The screenshot shows the POS interface. On the left, there's a 'Categories' section with a grid of product cards. Each card displays a product image, name, and price. For example, 'myprodu' is priced at 1234.00 and 'myprod2' at 123. In the center, there's a table listing products with columns for product ID, name, price, and status. On the right, there's an 'Order List' section with a 'Transaction id : #65565'. It includes a '+ Search Customer' button, a 'Walk-in Customer' dropdown, a 'Product' dropdown, a 'Scan barcode' button, and a 'Total Items : 0' display with a 'Clear all' button.



**Create Sales Return**  
Add/Update Sales Return

Design hEADER

Customer Name: Walk-in Customer

Quotation Date: 12/7/2023 10:54:34AM

Invoice No.: 3

Product Name	Net Unit Price(Rs.)	QTY	Tax 18%	Subtotal (\$)	Total (\$)
qwertyuio	123 Rs.	1	22.14 Rs.	123 Rs.	145.14
myprod2	123 Rs.	1	22.14 Rs.	123 Rs.	145.14

Order Tax: 44.28 Rs.

SubTotal: 246 Rs.

Grand Total: 290.28 Rs.

Submit Cancel

- PDF Generation:
  - Generate professional-looking invoices in PDF format with custom branding and formatting.
  - Ensure document clarity and accessibility for customers (example of another product)

**Create Sales Return**  
Add/Update Sales Return

Design hEADER

Customer Name: Walk-in Customer

Quotation Date: 12/7/2023 6:47:03 PM

Invoice No.: 1

Product Name	Net Unit Price(Rs.)	QTY	Tax 18%	Subtotal (\$)	Total (\$)
Iphone	Rs.70000	1	70000*(0.18)	1	82600 .

Order Tax: Rs.12,600

SubTotal: Rs.70000

Grand Total: Rs.82,600

Submit Cancel

12/7/23, 6:48 PM

Smart Invoice

Print

File | D:/College%20docs/SEM-5/.NET/Smart-Invoice-main%20(1)/Smart-Invoice-main/PDF/sale1.pdf

1 of 1

https://localhost:7004/POS/Invoice

1/1

- **Challenges Addressed:**

Streamlining Table Management: The application simplifies the complexities associated with handling multiple tables by providing seamless CRUD (Create, Read, Update, Delete) operations, facilitating efficient management of diverse data sets.

Centralized Product Cart Management: The Point of Sale (POS) system consolidates product cart management into a single, user-friendly interface. This feature enhances the overall user experience by offering a unified platform for handling product-related tasks.

Dynamic PDF Generation: The application excels in generating dynamic PDFs that combine various elements. This functionality ensures the creation of comprehensive and customizable PDF documents, enhancing the usefulness of the generated outputs.

- **Application:**

This application is useful for Retailers, both brick-and-mortar and online, who can benefit from this system by quickly adding new products to their catalog. It also facilitates accurate tracking of product availability and pricing. Then in the supply chain, suppliers and stakeholders often need to communicate, exchange invoices, and manage inventory. To reduce manual work for people working in the domain.