

Design Specification

29.09.2024

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1 Introduction

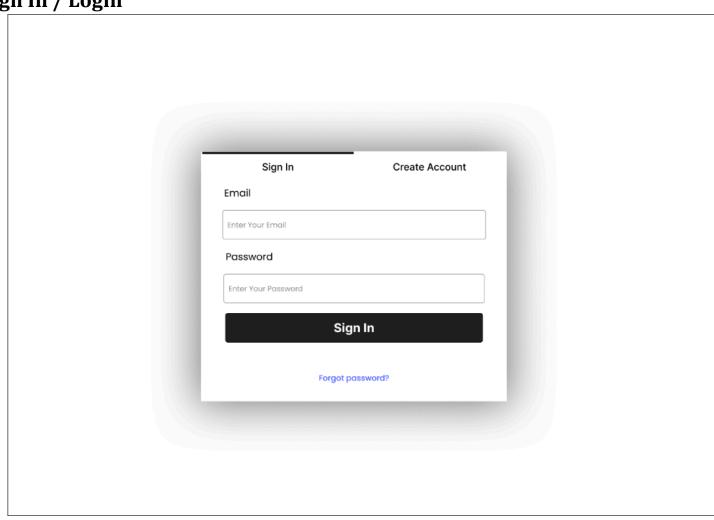
Smart Inventory is a comprehensive web-based application designed to revolutionize inventory management for businesses of all sizes, including restaurants and laboratories. This design specification outlines the visual elements and functionalities that will shape the user experience within Smart Inventory.

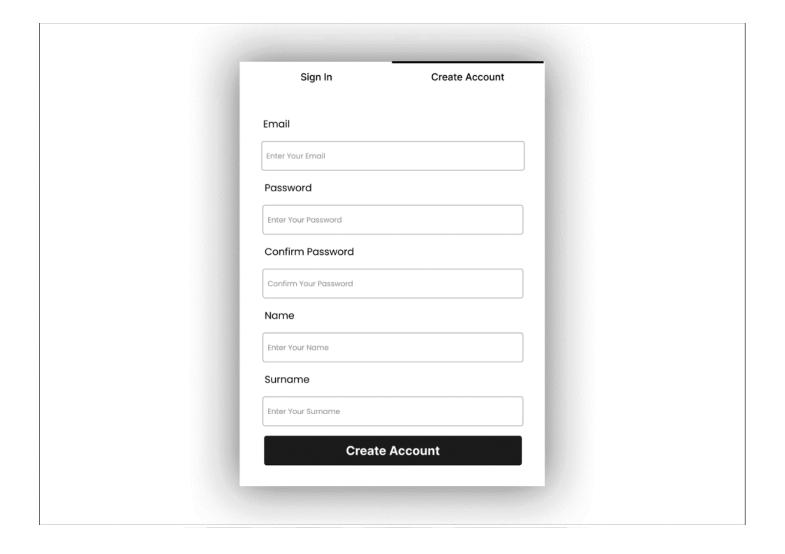
- Wireframes and detailed design mock ups will illustrate the user interface, navigation flow, and interaction patterns for each user role.
- Additionally, this document will include a section dedicated to the design of the database schema for Amazon DynamoDB, the NoSQL database service that will power Smart Inventory's data storage and retrieval capabilities.

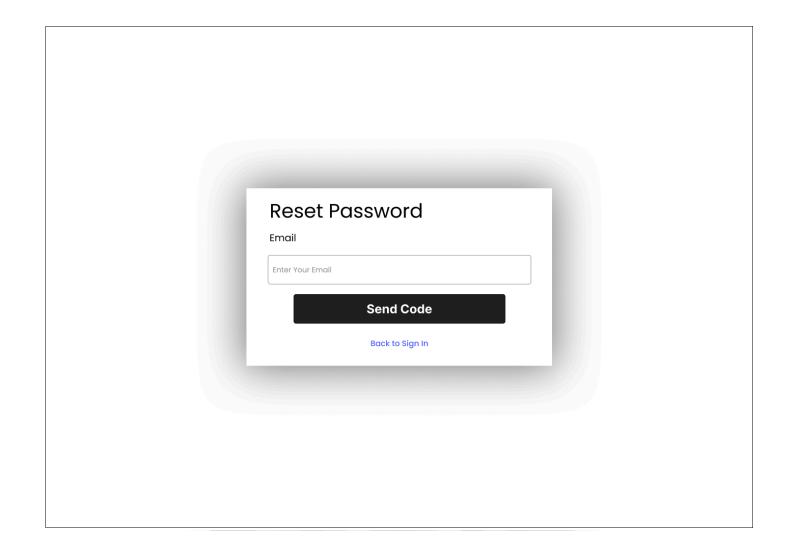
The document aims to provide a clear road-map for developers to translate the vision of Smart Inventory into a user-centric and efficient application.

2 Wireframes

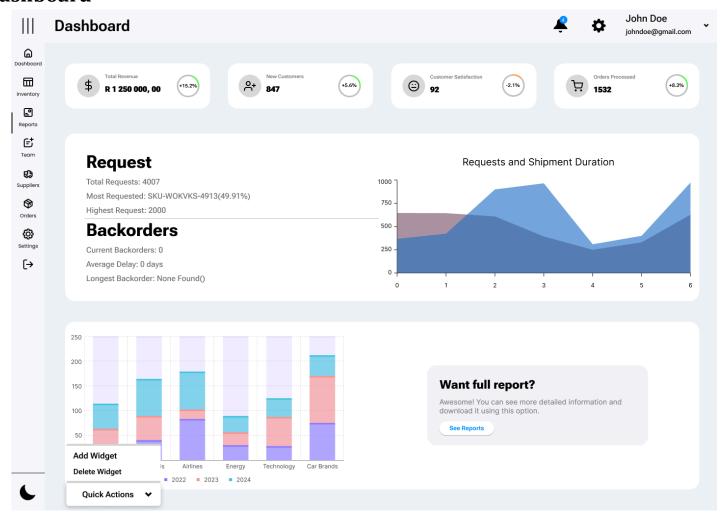
2.1 Sign In / Login

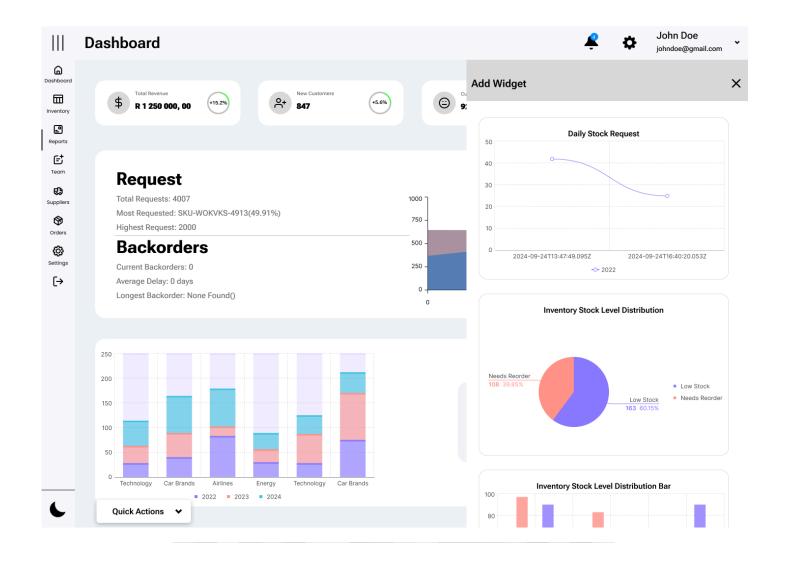




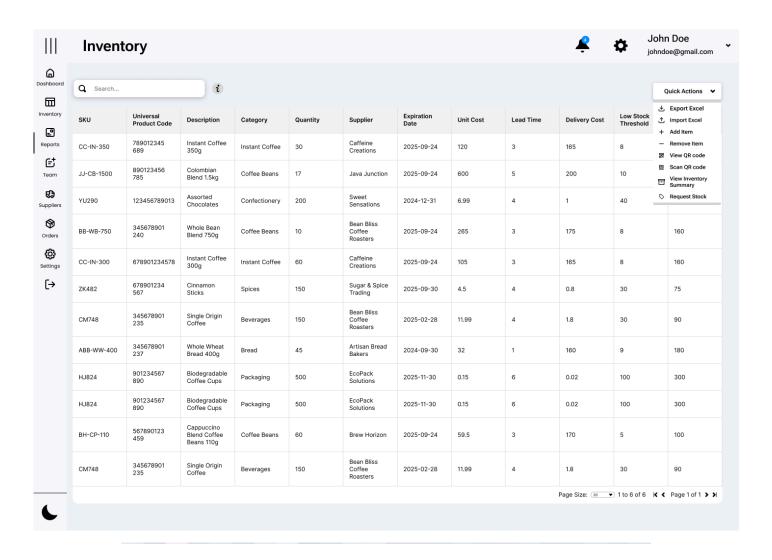


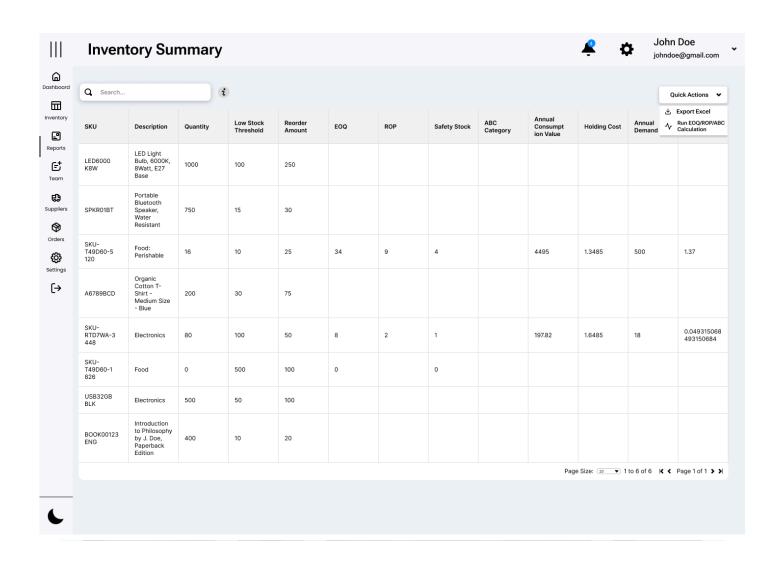
2.2 Dashboard



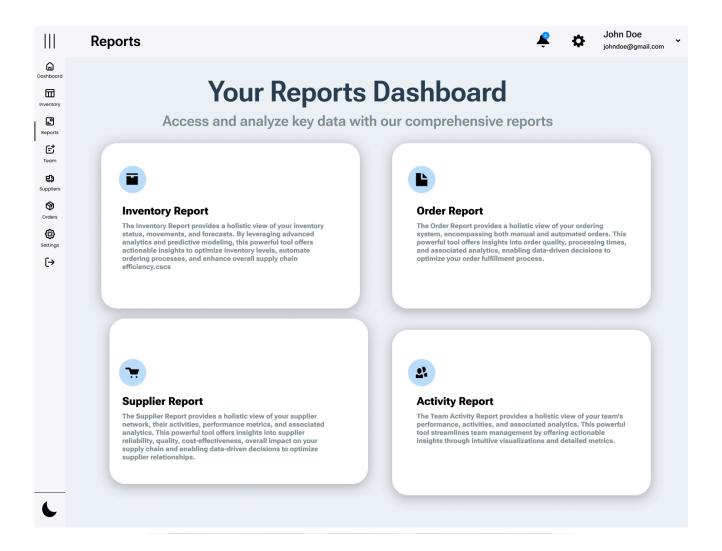


2.3 Inventory/Inventory Summary

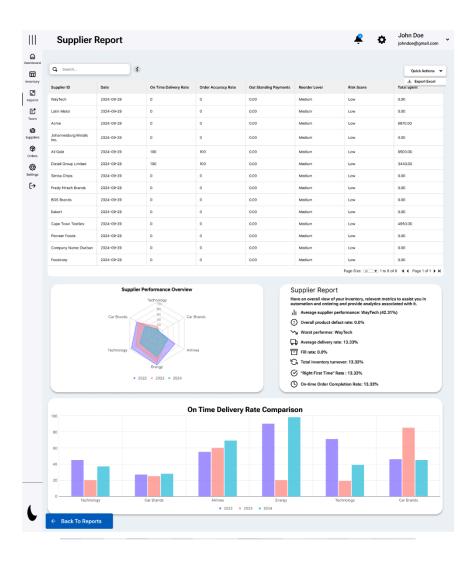




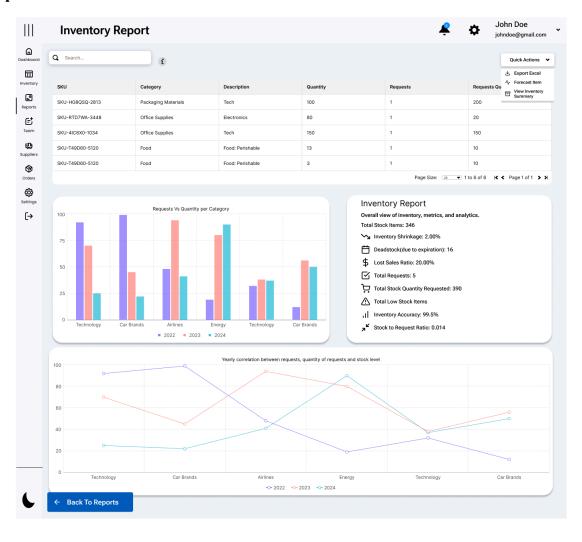
2.4 Reports



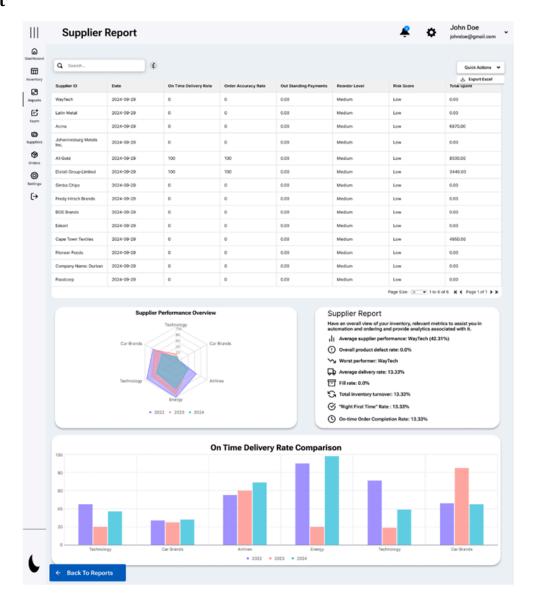
2.4.1 Orders Report



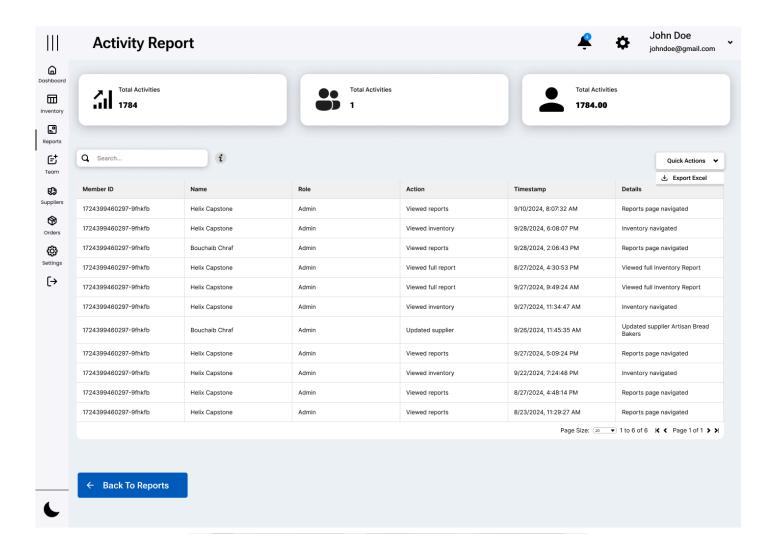
2.4.2 Inventory Report



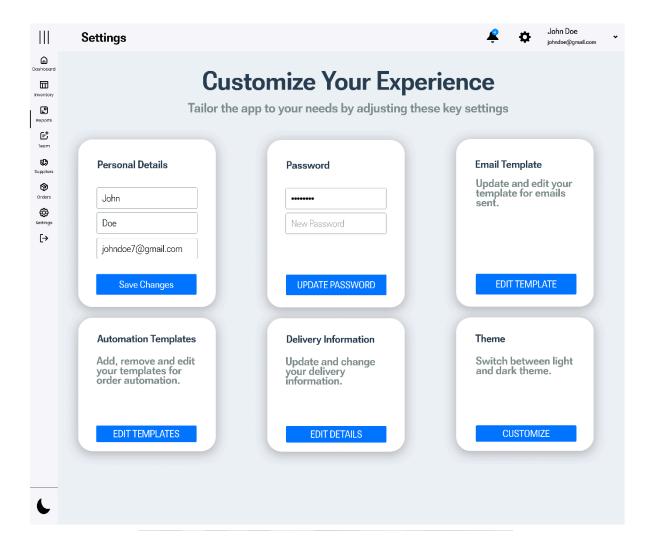
2.4.3 Supplier Report



2.4.4 Activity Report

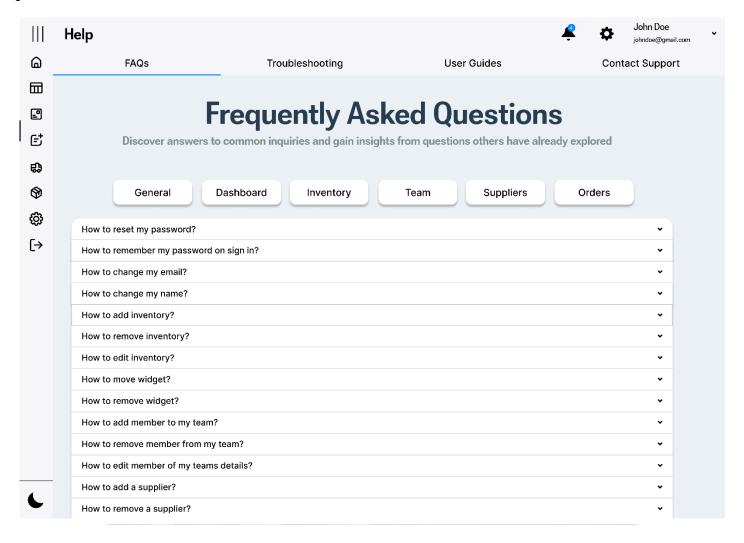


2.5 **Settings**

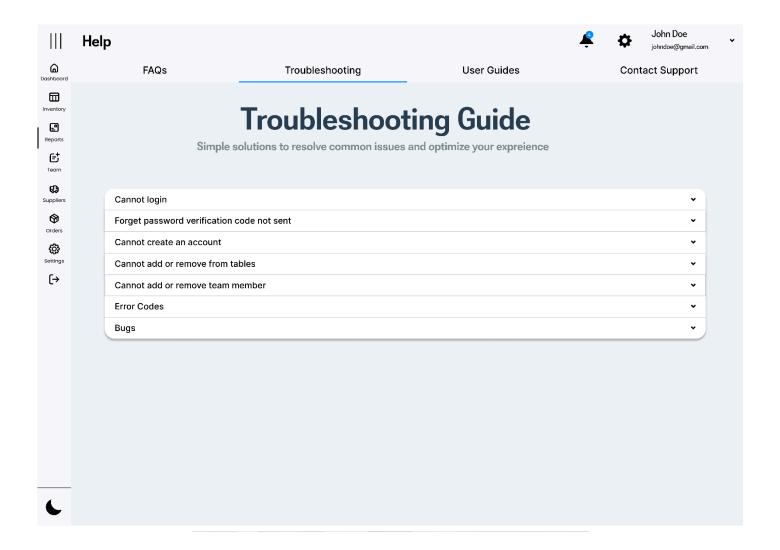


2.6 Help

2.6.1 FAQs



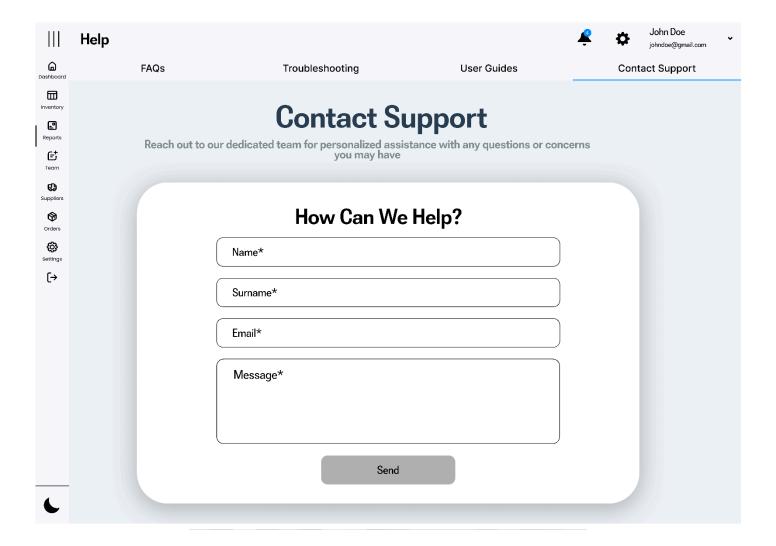
2.6.2 Troubleshooting



2.6.3 User Guides



2.6.4 Contact Support



3 Database Design

The Smart Inventory system will utilize Amazon DynamoDB, a fully managed NoSQL database service provided by Amazon Web Services (AWS). DynamoDB offers high scalability, low latency, and flexible data modeling, making it suitable for the inventory management system. The key tables and their sample data are as follows:

Table 1: Users Table (Cognito)

Partition Key:	Username	
Attributes:		
Username	First	
Email	Last	
Verified	tenetID	

Table 2: Suppliers Table

Partition Key:	SupplierID
Attributes	
supplierID	contactPhone
Address	createdAt
contactEmail	name
updatedAt	

Table 3: Stock Request Table

Partition Key	stockRequestId
Attributes	
stockRequestId	SKU
tenetId	Supplier
createdAt	Type
qtyReq	

Table 4: Inventory Table

Partition Key: Sort Key:	inventoryID tenentId
Attributes	
inventoryID	lowStockThreshold
tenetId	upc
Category	reorderFreq
createdAt	SKU
Description	Supplier
expirationDate	

Table 5: Orders Table

Partition Key: Sort Key:	Order_ID Order_Date	
Attributes		
Order_ID	Order_Status	
Order_Date	Quote_ID	
Actual_Delivery_Date	Quote_Status	
Creation_Time	Selected_Supplier	
Expected_Delivery_Date	tenentId	

Table 6: Generated Quote Suppliers

Partition Key: Sort Key:	QuoteID Company_name
Attributes	
QuoteID	SupplierID
Company_name	tenentId

Table 7: Generated Quote Items Table

Partition Key: Sort Key:	QuoteID ItemSKU
Attributes	
QuoteID	Quantity
ItemSKU	tenentId
inventoryID	

Table 8: Supplier Quote Summary Table

Partition Key: Sort Key:	QuoteID SupplierID	
Attributes		
QuoteID	Subtotal	
SupplierID	Total_Quote_Value	
VAT_Percentage	Currency	
VAT_Amount	Additional_Comments	

Delivery_Date	tenentId
Delivery_Cost	Timestamp

Table 9: Supplier Quotes Prices Table

Partition Key: Sort Key:	QuoteID Upc_SupplierID
Attributes	
QuoteID	TotalPrice
upc	Discount
SupplierID	IsAvailable
ItemSKU	tenentId
UnitPrice	Timestamp
AvailableQuantity	

DynamoDB's querying capabilities and AWS integration make it suitable for the Smart Inventory system. The design can evolve, leveraging DynamoDB's scalability and flexibility.