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## Application Development and Emerging Technologies Laboratory

ITS120L – BM1

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### **Documented Acceptance Criteria**

#### **□ Prototype – User Interface (UI):**

##### **○ Home Page**

HOME CONTACT US ABOUT US SIGN IN SIGN UP

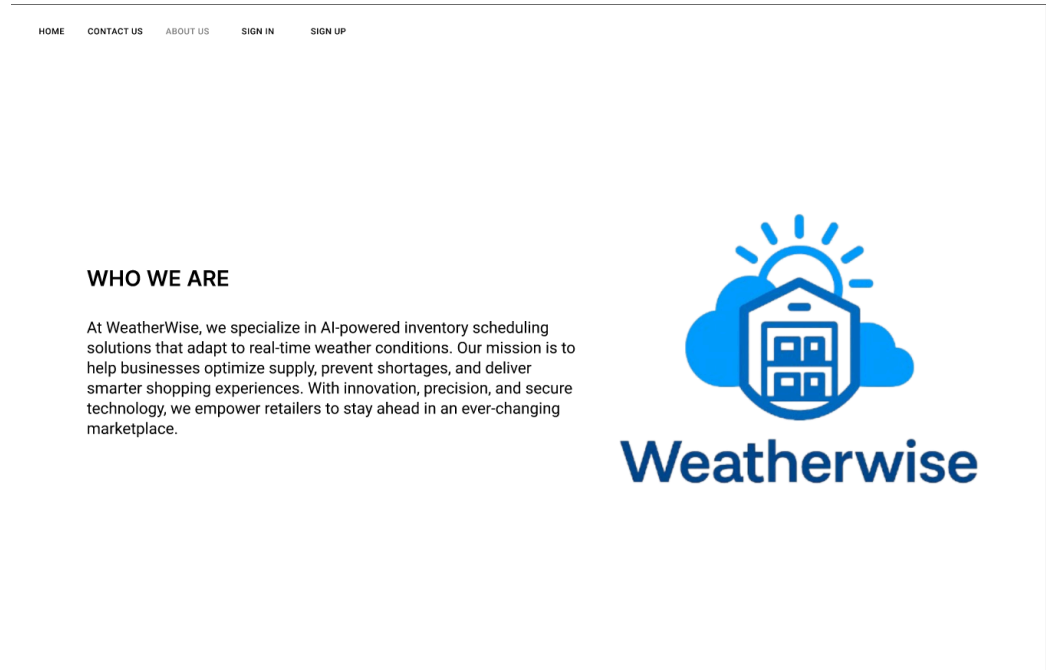
WeatherWise: is an AI-powered e-commerce inventory scheduling app that uses real-time weather data to predict supply surpluses and deficits. By combining smart forecasting, secure inventory management, and personalized product recommendations, we help businesses stay efficient, adaptive, and customer-focused—rain or shine

LEARN MORE



- a. The first page to show up when users search the web app's link.
- b. The Home page can show users the first impression of what the website's all about (its summarized functionalities).
- c. By clicking *Learn More*, it will direct users to the About Us page.

- About Us Page



- a. In the About Us page, users can see the specific goals of the website. Usually, it consists of the vision and mission of the group's objectives.
- b. Now, you can freely roam around the web app.

- Contact Us Page

## CONTACT US

If you're interested in collaborating, please provide your information, and we will contact you soon. We look forward to connecting with you.

Name

Email

Message


Send




- a. The Contact Page serves as the place for the users' concerns, comments, and such regarding the web application's usages.

### Sign Up Page

HOME CONTACT US ABOUT US SIGN IN SIGN UP





### Create an account

Start your 30-day free trial.


Name\*

Email\*

Password\*

Must be at least 8 characters.

Get started

 Sign up with Google

Already have an account? [Log in](#)

- a. Users can input their name, e-mail, and password in order to create an account or just use their existing Gmail verification.
- b. On the other note, users can click the *log in* if they have an existing account.

## ○ Sign In Page

[HOME](#) [CONTACT US](#) [ABOUT US](#) [SIGN IN](#) [SIGN UP](#)



### Log in to your workspace

Welcome back! Please enter your details.

Workspace Code

Workspace0123

☐ Remember for 30 days [Forgot workspace code?](#)

Enter Workspace

Enter Workspace with Invite Link

Don't have an account [Create one](#)





## Log in to your account

Welcome back! Please enter your details.

Email

Testacc@gmail.com

Password

\*\*\*\*\*

☐ Remember for 30 days

[Forgot password](#)

Sign in



Sign in with Google

- a. Same with the Sign Up Page, users can create an account if they don't have one yet.
  - b. Upon entering the details of a newly created account, a workspace code will be given through an existing e-mail account that will serve as the user's unique dashboard code.
  - c. Then you will enter your newly created e-mail address and password.
- 
- 2 Factor Authentication



## Verify Your Identity

We sent a code to your email

Enter 6-digit code

☐ Remember device for 30 days

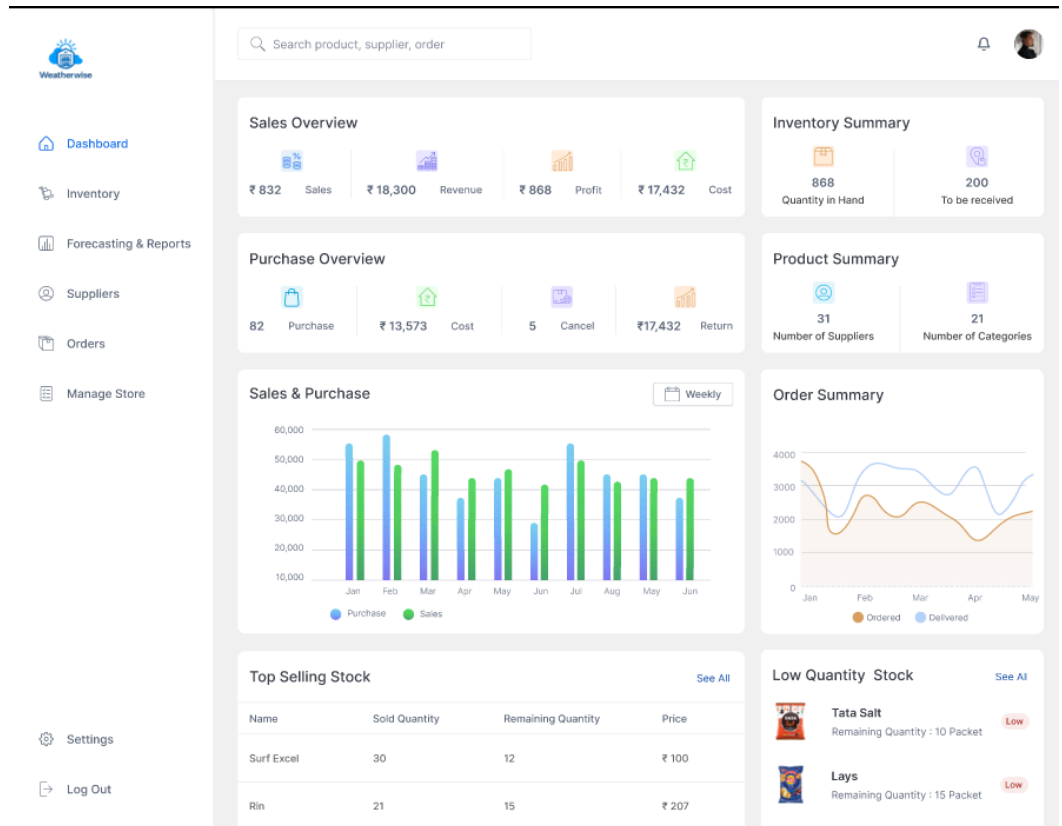
[Resend Code?](#)

Sign in

Back


- a. The system will then send a 6-digit code to the user's email, which is required for the user to access the dashboard.
- b. It will direct you to a workspace where you can buy orders and view the weather, sales, inventory, and such functionalities you could find on the website.

i. Dashboard



- In the Dashboard functionality, you can see how other users interact with your business online.
- Global navigation is seen all throughout the functionality pages (the profile for editing personal information like name, e-mail address, phone number, and passwords; the logo of the app and the log-out button, which directs you to the About Us page; the settings button, which enables you to personalize the functions of your features).

## ii. Inventory



Dashboard

Inventory

Forecasting & Reports

Suppliers

Orders

Manage Store

Settings

Log Out

Search product, supplier, order

Overall Inventory

Categories

14

Last 7 days

Total Products

868

Last 7 days

Revenue

₱25000

Surplus

10

Last 7 days

Excess

₱45000

Deficits

12

Last 7 days

Low Stock

₱32,000

Shortage

View Products

Add Product

Filters

Download all

Products	Buying Price	Quantity	Threshold Value	Expiry Date	Availability
Maggi	₱430	43 Packets	12 Packets	11/12/25	In- stock
Bru	₱257	22 Packets	12 Packets	21/12/25	Out of stock
Red Bull	₱405	36 Packets	9 Packets	5/12/25	In- stock
Bourn Vita	₱502	14 Packets	6 Packets	8/12/25	Out of stock
Horlicks	₱530	5 Packets	5 Packets	9/1/25	In- stock
Harpic	₱605	10 Packets	5 Packets	9/1/26	In- stock
Ariel	₱408	23 Packets	7 Packets	15/12/26	Out of stock
Scotch Brite	₱359	43 Packets	8 Packets	6/6/26	In- stock
Coca cola	₱205	41 Packets	10 Packets	11/11/25	Low stock

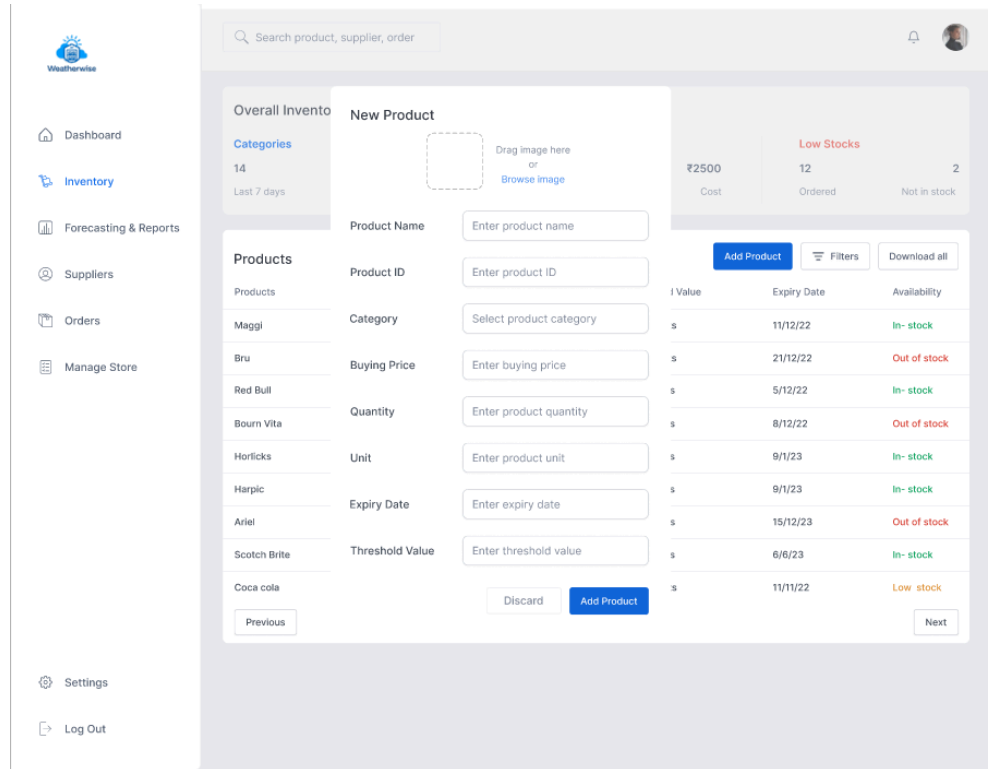
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- Under the inventory, you could view your overall product sales.
- All of them are clickable (the Maggie, 430 pesos, 43 packets, and such).
- You could click the Add Product button, which leads you to adding details on the product you're selling or want to sell.





### iii. Forecasting and Reports



Dashboard

Inventory

Forecasting & Reports

Suppliers

Orders

Manage Store

Settings

Log Out

Search product, supplier, order



### Overview

₱21,190	₱18,300	₱17,432
Total Profit	Revenue	Sales
₱117,432	₱80,432	₱30,432
Net purchase value	Net sales value	MoM Profit
		₱1,10,432
		YoY Profit

Today, 24 September

# 24

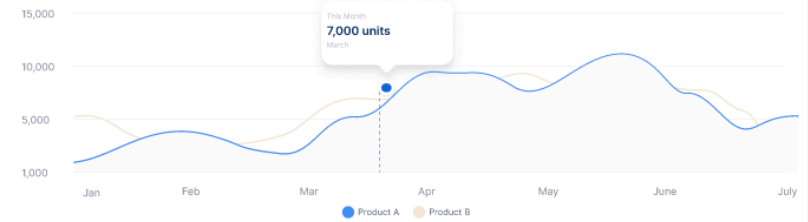
Rainy



Wind 11.1 km/h  
Hum 100 %


### Seasonal Product Sales

Weekly






a. The forecasting & reports only show which products are in demand in the summer or rainy season.

iv. Suppliers



Search product, supplier, order

 Thunderstorm expected in 3 days. Orders may be affected

Dashboard

Inventory

Forecasting & Reports

Suppliers

Orders

Manage Store

Settings

Log Out

Suppliers

Auto-Reorder

Add Supplier

Filters

Download all


Supplier Name	Product	Contact Number	Email	Supply Category	Lead Time (Days)
Richard Martin	Kit Kat	7687764556	richard@gmail.com	Non-Perishable	13
Tom Homan	Maaza	9867545368	tomhoman@gmail.com	Non-Perishable	7
Veandir	Tomatoes	9867545566	veandir@gmail.com	Perishable	2
Charin	Iodized Salt	9267545457	charin@gmail.com	Non-Perishable	12
Hoffman	Nescafe Gold	9367546531	hoffman@gmail.com	Non-Perishable	7
Falinden Juke	Lettuce	9667545982	falinden@gmail.com	Perishable	2
Martin	Ground Pepper	9867545457	martin@gmail.com	Non-Perishable	10
Joe Nike	Zonrox Bleach	9567545769	joenike@gmail.com	Non-Perishable	14
Dender Luke	Zonrox Bleach	9667545980	dender@gmail.com	Non-Perishable	7
Martin	Vegetable Oil	9867545457	martin@gmail.com	Non-Perishable	8
Joe Nike	Macaroni Pasta	9567545769	joenike@gmail.com	Non-Perishable	12
Dender Luke	Natruue Oat Milk	9667545980	dender@gmail.com	Perishable	2
Joe Nike	Mi Goreng	9567545769	joenike@gmail.com	Non-Perishable	12
Joe Nike	Mi Goreng	9567545769	joenike@gmail.com	Non-Perishable	12

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- In this page, you can see a database full of different suppliers that you can connect with.
- Most needed products are also recommended when you click the thunderstorm above, besides the profile logo.
- The auto-reorder button is used to auto-order or automatically ship a supply when needed based on inventory demographics.
- When the add supplier button is clicked, it will go straight to the orders.



Dashboard

Inventory

Forecasting & Reports

Suppliers

Orders

Manage Store

Settings

Log Out

Search product, supplier, order

Overall Orders

Total Orders

37

Last 7 days

Total Received

32

Last 7 days

Total Returned

5

Last 7 days

On the way

12

Ordered

Cost

₹2500

Cost

₹2356

Products

Maggi

Bru

Red Bull

Bourn Vita

Horlicks

Harpic

Ariel

Scotch Brite

Coca cola

New Order

Product Name

Enter product name

Product ID

Enter product ID

Category

Select product category

Order value

Enter order value

Quantity

Enter product quantity

Unit

Enter product unit

Buying price

Enter buying price

Date of delivery

Enter date of delivery

☒ Notify on the date of delivery

Discard

Add Product

Add Product

Filters

Order History

Expected Delivery	Status
11/12/22	Delayed
21/12/22	Confirmed
5/12/22	Returned
8/12/22	Out for delivery
9/1/23	Returned
9/1/23	Out for delivery
15/12/23	Delayed
6/6/23	Confirmed
11/11/22	Delayed

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Next

Search product, supplier, order

Overall Orders

Total Orders

37

Last 7 days

Cost

₹25000

Total Returned

5

Last 7 days

Cost

₹2500

On the way

12

Ordered

Cost

₹2356

Products

Order Value

Quantity

Order ID

Expected Delivery

Status

Maggi	₹4306	43 Packets	7535	11/12/22	Delayed
Bru	₹2557	22 Packets	5724	21/12/22	Confirmed
Red Bull	₹4075	36 Packets	2775	5/12/22	Returned
Bourn Vita	₹5052	14 Packets	2275	8/12/22	Out for delivery
Horlicks	₹5370	5 Packets	2427	9/1/23	Returned
Harpic	₹6065	10 Packets	2578	9/1/23	Out for delivery
Ariel	₹4078	23 Packets	2757	15/12/23	Delayed
Scotch Brite	₹3559	43 Packets	3757	6/6/23	Confirmed
Coca cola	₹2055	41 Packets	2474	11/11/22	Delayed

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## v. Orders

- a. The orders page is for inputting an order manually, and it will show up in the orders' database table.

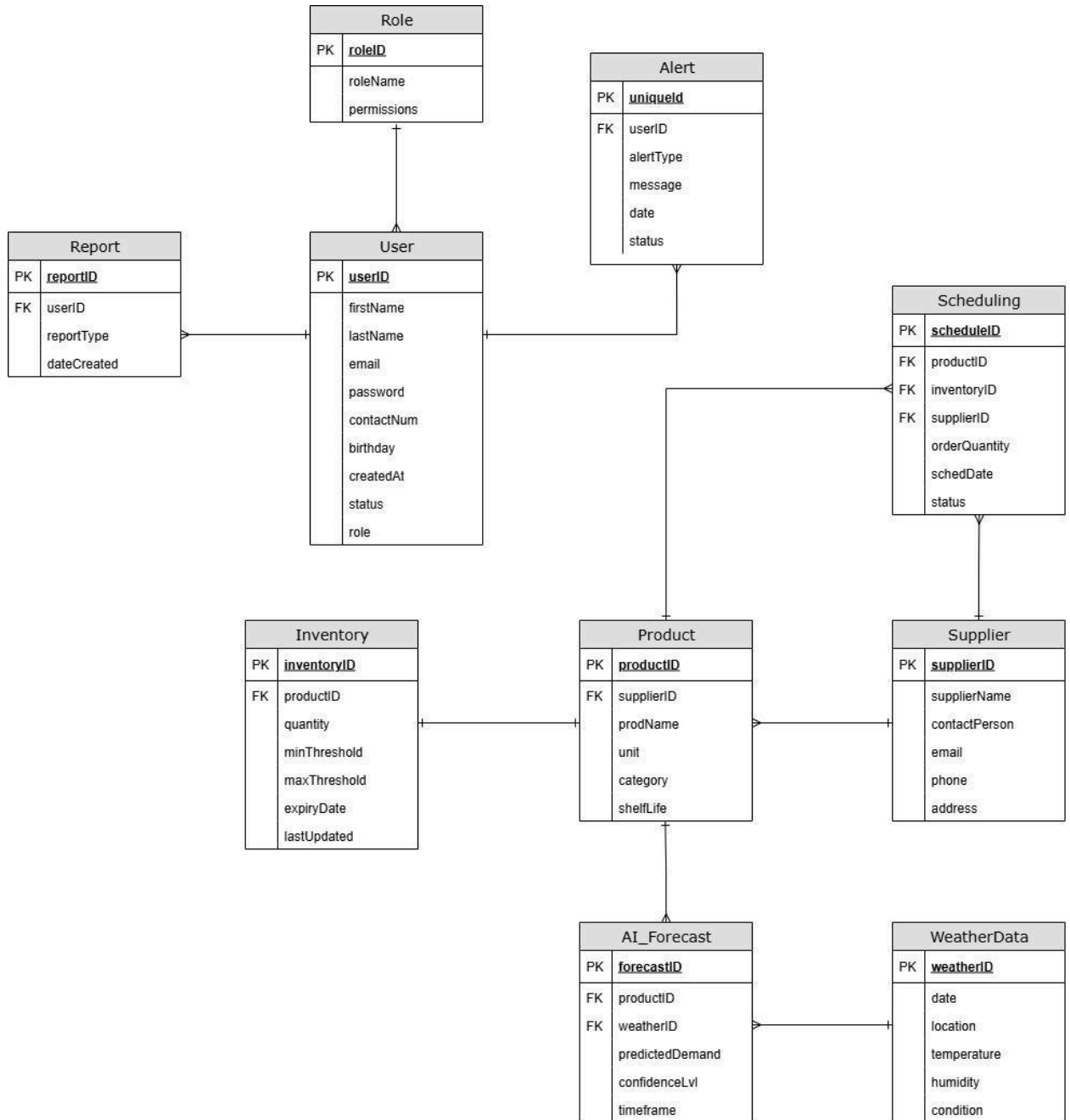
vi. Manage Store

The screenshot displays the 'Manage Store' interface. On the left is a sidebar with navigation links: Dashboard, Inventory, Forecasting & Reports, Suppliers, Orders, Manage Store (highlighted), Settings, and Log Out. The main content area is titled 'Store Profile' and includes an 'Edit' button. A grey box with '6/12' is positioned next to the 'Store Name' field. The form fields are as follows:

Field	Value
Store Name	6/12
Store Type	Retail Store
Store Code	MKT01-612
Branch/Location	Makati City
Full Address	123 Ayala Avenue, Barangay San Lorenzo, Makati City 1223, Philippines
Manager	Juan Dela Cruz
Contact	09828389238
Email Address	sixtwelve@gmail.com

- a. This allows users to input their store brand name (if applicable).

**Entity-Relationship Diagram (ERD):**



- USERS have a ROLE
- ROLE defines a USER
- USERS manage PRODUCT
- PRODUCT is managed by USERS
- PRODUCT is affected by DEMAND
- DEMAND is predicted by AI MODEL

- WEATHER influences DEMAND
- INVENTORY contains PRODUCT
- PRODUCT is stored in INVENTORY
- AI MODEL generates RECOMMENDATION
- RECOMMENDATION suggests PRODUCT
- CUSTOMERs receive RECOMMENDATION
- USERs are notified by ALERT
- ALERT notifies USERs
- USERs create REPORT
- REPORT is created by USERs

#### 1. Entity Coverage

- The ERD shall include all core entities identified in the requirements: User, Product, Inventory, Supplier, Scheduling, Forecasting, and Reports.
- Each entity must contain all relevant attributes such as IDs, names, units, dates, and other required fields (like role for User).

#### 2. Primary Keys & Foreign Keys

- Each entity shall have a clearly defined primary key that uniquely defines records.
- All necessary foreign key relationships must be established to ensure referential integrity.

#### 3. Relationship Accuracy

- The ERD shall represent correct cardinalities (1:1, 1:M, M:1, M:N where appropriate).
- Role has a 1:M relationship with User
- User has 1:M relationship with Report
- User has 1:M relationship with Alert
- Product has 1:M relationship with Scheduling
- Scheduling has M:1 relationship with Supplier
- Supplier has 1:M relationship with Product
- Product has 1:1 relationship with Inventory
- Product has 1:M relationship with AI\_Forecast
- AI\_Forecast has M:1 relationship with WeatherData

#### 4. Traceability to Requirements

- Each functional requirement shall map to at least one entity/relationship in the ERD.

#### 5. Security & Roles Representation

- The ERD shall support role-based access control through the User entity, which should include a 'roles' attribute.
- Relationships should reflect which entities each role interacts with through the User entity.

#### 6. Clarity & Documentation

- The ERD shall use clear and consistent naming conventions.
- All relationships must be labeled and documented in order to show direction and cardinality.