



Weatherwise

USER MANUAL

(**Link:** mddconstantino.pythonanywhere.com)

mddconstantino@mymail.mapua.edu.ph (09628493593)

radcordero@mymail.mapua.edu.ph (09088654210)

dmcflores@mymail.mapua.edu.ph (09062654515)

smzamoras@mymail.mapua.edu.ph (09626712840)

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User Manual

Prepared By: WeatherWise

1. Introduction

- Welcome to WeatherWise: AI-Based Inventory Management System!

This user manual provides understandable instructions for accessing, configuring, and operating the WeatherWise web application. While it is designed for retail and business owners, everyone has a chance to start their business with WeatherWise. It will help users to efficiently manage their inventory with an AI-powered weather forecast to predict sales flow and optimize stocks.

By going through this manual, users will be able to grasp the following:

- Understand the system's features and its functionalities.
- Navigate through the features (AI forecasting, inventory, supplier, and report generation).
- Maintain system performance through a secured and reliable application.

Whether you are a first-time user or an experienced administrator/owner, this manual will guide you through the flow of maximized experiences with WeatherWise.

2. Setup Guidelines

2.1. System Requirements

- To use the WeatherWise system smoothly and efficiently, ensure your device meets the following:
 - Operating System: Windows 10 or above / macOS Catalina or later.
 - Memory (RAM): Minimum 4 GB (8 GB recommended for smoother performance).
 - Storage: At least 500 MB of free disk space.
 - Internet Connection: Required for accessing the system (logging in, weather forecasting, email verification, and other features).
 - Web Browser: Google Chrome, Microsoft Edge, Safari (for Mac), and other applicable browsers that could run WeatherWise.

2.2. Installation/Operation and Access

- WeatherWise is a web-based system, meaning you can access it directly through a browser with no installation required.

To access the WeatherWise:

- 1.) Open your web browser.
- 2.) Type the system's address in the URL bar. (Link: mddconstantino.pythonanywhere.com).
- 3.) Log in using your registered email and password.
- 4.) If you are new to WeatherWise, select Sign Up or Sign Up with Google and complete the process.

2.3. New Users Configuration

- When you first log in:
 - Set up your user profile by completing the user's information (name, store name (if applicable), and contact details).
 - Review your inventory, suppliers, and orders section to check if the data inputted in the user's contact information is correct.
 - For security, complete the Two-Factor Authentication (2FA) process.

2.4. Updates

- Since WeatherWise is an academic project, updates may be done manually by the developers if they want to prolong the site.

To check for system updates:

- Contact the developers of WeatherWise.
- Ensure your browser is up-to-date for real-time accessibility.

2.5. Accessibility

- WeatherWise works across multiple devices and operating systems as tested by the developers:
 - Windows Users: Access through Chrome, Edge, or any other Windows browser.
 - Mac (Apple) Users: Access through Safari, Chrome, or any other Mac browser.

3. Getting Started

3.1. Logging In

- Take a tour outside the log-in page.
 - Hover and take a look at the navigation bar.

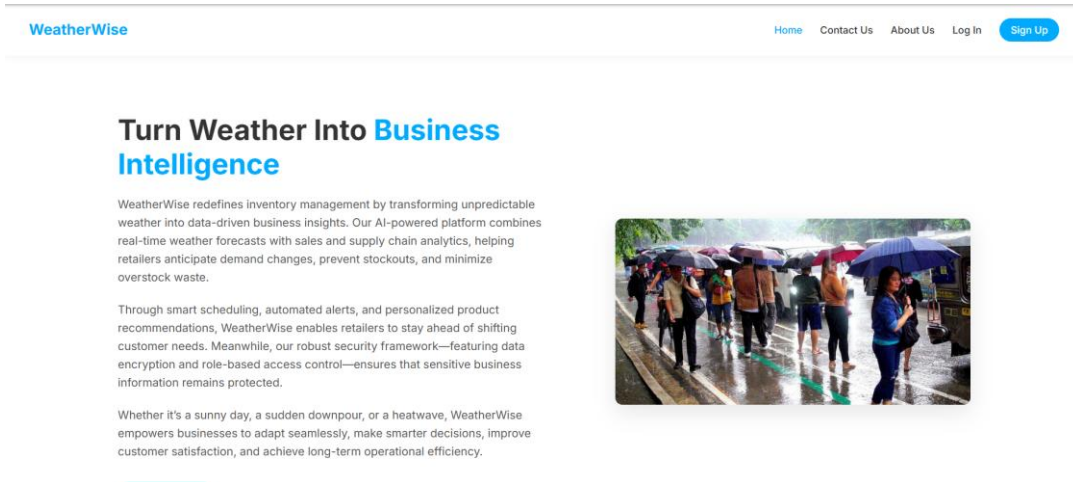


Figure 3.1. 1: Homepage Setup

- Creating an account.
 - Step 1: Visit WeatherWise through the official website link (mddconstantino.pythonanywhere.com).

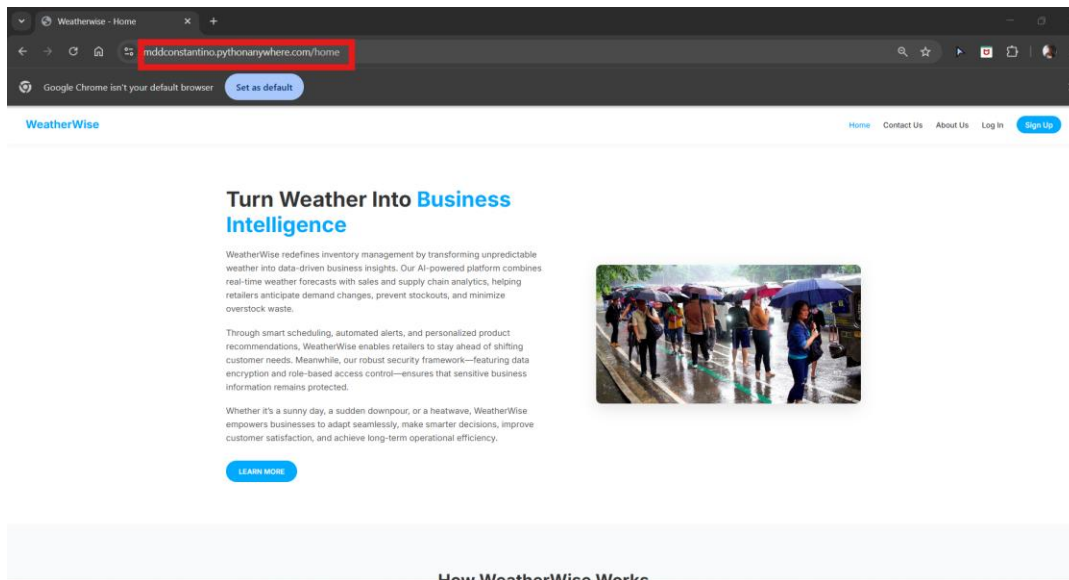


Figure 3.1. 2: Website Link Configuration

- Step 2: Go to the Signup Page to create an account.

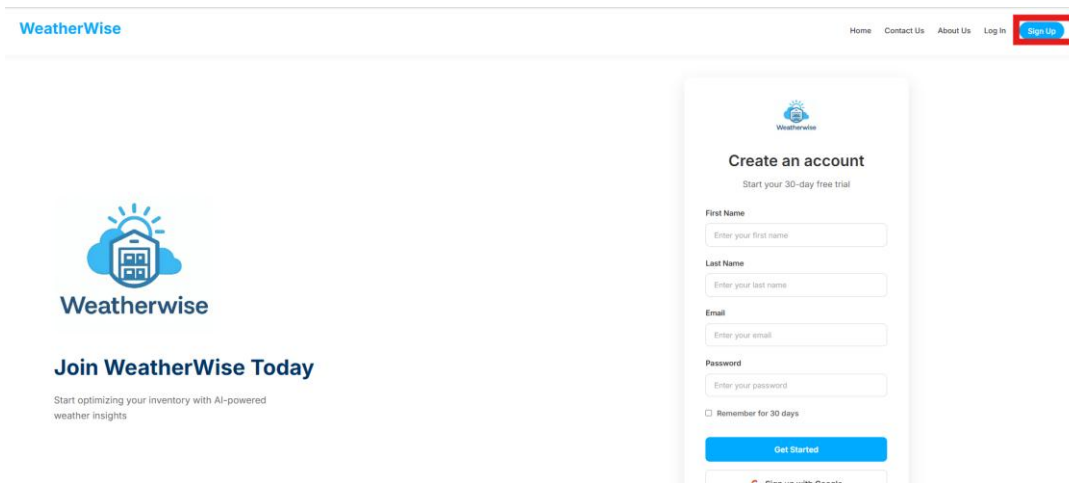



Figure 3.1. 3: Sign-Up Page

- Step 3: Enter the requested credentials below or click “Sign Up with Google”.



Weatherwise

Join WeatherWise Today

Start optimizing your inventory with AI-powered weather insights

Create an account
Start your 30-day free trial

First Name


Last Name

Email

Password

☐ Remember for 30 days

Get Started

 Sign up with Google

Already have an account? [Sign In](#)

Figure 3.1. 4: Credentials Form

- Step 4: You may now see and access your dashboard.

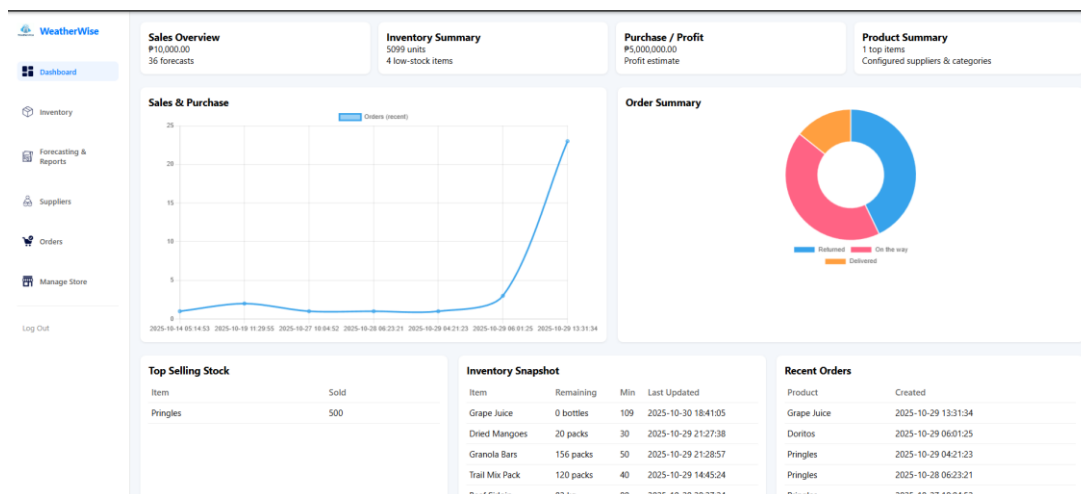


Figure 3.1. 5: Dashboard Section

3.2. User Roles

- WeatherWise has different role access depending on the user's roles:

ROLE	DESCRIPTION
1.)Admin	Has full access to the system (managing users, inventory, orders, and reports).
2.)Manager	Can manage product inventory, view and generate reports, and assist with business operations.
3.)Staff	Can view and process sales, check stock market levels, and record transactions.

3.3. Main Interface Overview

- Navigation Bar: Gives access to the features (Dashboard, Inventory, Forecasting & Reports, Suppliers, Orders, and Manage Store).
- Dashboard: View sales summaries, inventory status, profit reports, and recent activities
- Sales & Inventory Charts: Monitor sales trends, stock levels, and highest gross products.
- Order Summary: Track recent transactions (orders and deliveries updates).

4. Operational Procedures

4.1. Daily Operations

4.1.1. Inventory Management

- This module is where you can add your stocks. It will also notify you if your stock is still in surplus or deficit.

The screenshot shows the WeatherWise Inventory page. The browser address bar indicates the URL is `mddconstantino.pythonanywhere.com/inventory`. The page has a sidebar with navigation links: Dashboard, Inventory, Forecasting & Reports, Suppliers, Orders, and Manage Store. The main content area features a summary dashboard with three key metrics:

- Total Products: 21
- No. of products with surplus stock: 1
- No. of products with stock deficit: 4

Below the summary is a table titled "View Inventory" with columns: Inventory ID, Product ID, Supplier ID, Product Name, Category, Quantity, Unit, Minimum Threshold, Maximum Threshold, and Last Updated. The table contains five rows of data:

Inventory ID	Product ID	Supplier ID	Product Name	Category	Quantity	Unit	Minimum Threshold	Maximum Threshold	Last Updated
27	23	1	Grape Juice	Beverages	0	bottles	100	21	2025-11-07 18:52:53
25	22	8	Dried Mangoes	Fruits	20	packs	30	100	2025-10-29 21:27:38
24	21	8	Granola Bars	Snacks	158	packs	50	200	2025-10-29 21:28:87
23	20	8	Tail Mix Pack	Snacks	120	packs	40	200	2025-10-29 14:45:54
22	19	5	Beef Sirloin	Meat	82	kg	80	200	2025-10-29 20:27:24

At the bottom right of the table, there are links for "Previous", "Page 1 of 5", and "Next".

4.1.1. 1: Inventory Page

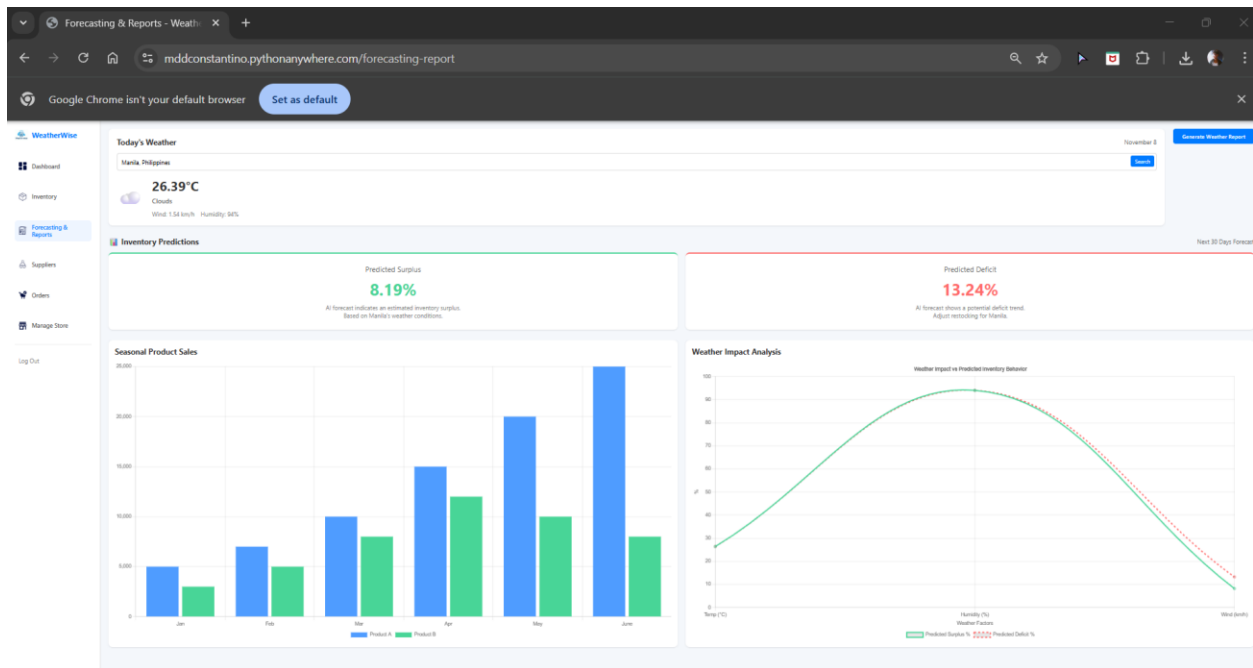
- For completion necessities and business transparency, you can download a list of your stock items in the market.

InventoryID	ProductID	SupplierID	ProductName	Category	Quantity	Unit	MinThreshold	MaxThreshold	LastUpdated
27	23	1	Grape Jui	Beverages	0	bottles	109	21	2025-11-07 18:52:53
25	22	8	Dried Man Fruits		20	packs	30	180	2025-10-29 21:27:38
21	8	Granola Bi	Snacks		156	packs	50	250	2025-10-29 21:28:57
23	20	8	Trail Mix P	Snacks	120	packs	40	200	2025-10-29 14:45:24
19	5	Beef Sirloi	Meat		82	kg	80	260	2025-10-29 20:27:24
18	5	Pork Chop	Meat		150	kg	70	250	2025-10-29 14:45:24
17	5	Chicken Br	Meat		220	kg	100	300	2025-10-29 14:45:24
16	4	Bottled W	Beverages		800	bottles	300	900	2025-10-29 14:45:24
15	4	Iced Tea	Beverages		350	bottles	100	500	2025-10-29 14:45:24
14	4	Coca-Cola	Beverages		600	bottles	200	700	2025-10-29 14:45:24
13	2	Mangoes	Fruits		120	kg	40	200	2025-10-29 14:45:24
12	2	Oranges	Fruits		200	kg	60	300	2025-10-29 14:45:24
11	2	Bananas	Fruits		180	kg	50	250	2025-10-29 14:45:24
10	3	Piatto's Ch	Snacks		450	pcs	150	500	2025-10-29 14:45:24
9	3	Nova Mult	Snacks		250	pcs	80	300	2025-10-29 14:45:24
8	3	Olahi Praw	Snacks		350	pcs	100	400	2025-10-29 14:45:24
7	1	Water Jui	Meat		45	g	66	78	2025-10-29 12:22:49
6	1	Orange Jui	Beverages		4	bottles	5	6	2025-10-29 12:19:50
5	1	Lays	Snacks		1	pcs	1	1	2025-10-28 17:23:03
4	1	Doritos	Snacks		501	pcs	200	400	2025-10-28 17:23:03
3	1	Pringles	Snacks		500	pcs	100	500	2025-10-29 11:54:22

4.1.1. 2: Inventory Records

4.1.2. Forecasting & Reports System

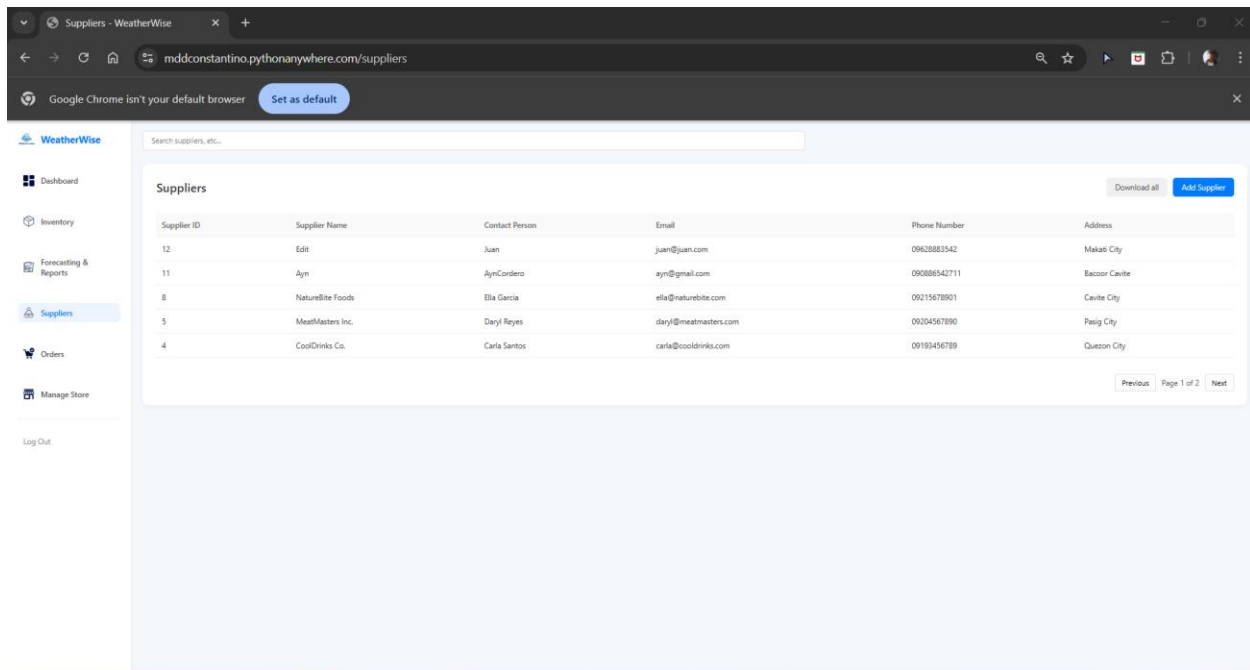
- For easy decision-making, this AI-forecasted weather system helps you to know when you will restock items, know which products are good for today's weather, and know the market trend if many people have the possibility to go outside and visit your store.



4.1.2. 1: Forecasting & Reports Page

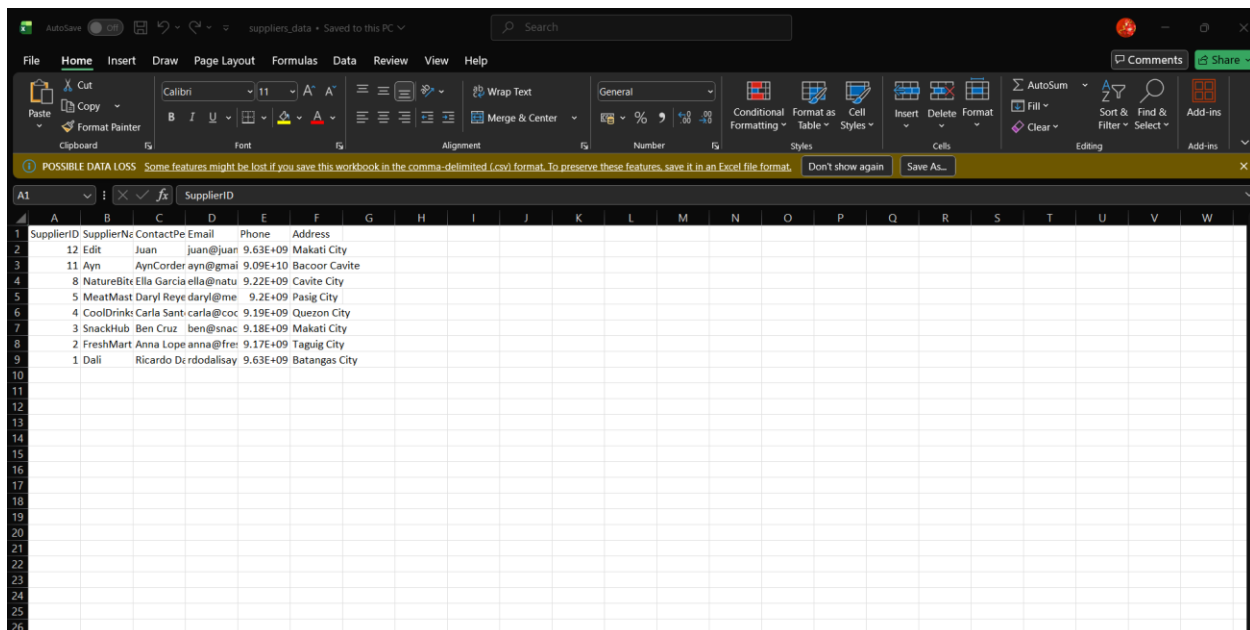
4.1.3. Supplier Tracking

- In this section, you can track your list of suppliers that your store has contact with.



4.1.3. 1: Suppliers Page

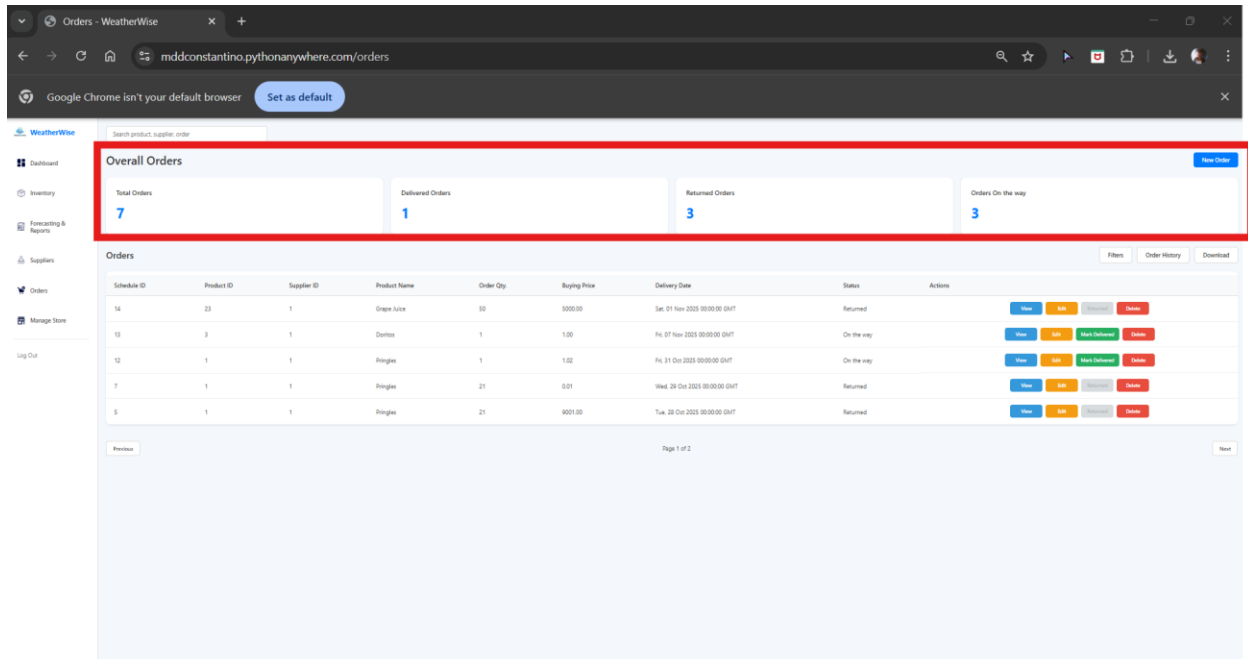
- In order to keep all data backed up and transparent, you can download a .csv (Excel) file for the list of suppliers.



4.1.3. 2: Suppliers Records

4.1.4. Orders Viewing

- In this feature, you can track your business's operations when someone places an order with your company.



4.1.4. 1: Orders Page

- You can generate a record for your list of orders.

ScheduleID	ProductID	SupplierID	ProductName	OrderQty	BuyingPrice	DeliveryDate	Status
14	23	1	Grape Juice	50	5000	Sat	01 Nov 20 Returned
13	3	1	Doritos	1	1	Fri	07 Nov 20 On the way
12	1	1	Pringles	1	1.02	Fri	31 Oct 20 On the way
7	1	1	Pringles	21	0.01	Wed	29 Oct 20 Returned
5	1	1	Pringles	21	9001	Tue	28 Oct 20 Returned
3	2	1	Lays	5000	20999.99	Thu	30 Oct 20 On the way
1	1	1	Pringles	500	10000	Fri	12 Dec 20 Delivered

4.1.4. 2: Orders Records

4.1.5. Manage Store Feature

- This section is where you finish filling out all the information fields regarding your store.

The screenshot shows the 'Manage Store' page in the WeatherWise application. The page title is 'Store Profile' and it includes a 'Profile Completion' progress bar at 4/8. The form is divided into two main sections: 'Basic Information' and 'Contact Information'. The 'Basic Information' section contains fields for 'Store Name', 'Store Type' (a dropdown menu), 'Store Code', 'Branch/Location', and 'Full Address'. The 'Contact Information' section contains fields for 'First Name', 'Last Name', 'Contact Number', and 'Email Address'. On the right side, there is a 'Quick Actions' panel with buttons for 'Export Store Data' and 'Reset to Default'. A sidebar on the left lists navigation options: Dashboard, Inventory, Forecasting & Reports, Suppliers, Orders, and Manage Store (which is currently selected).

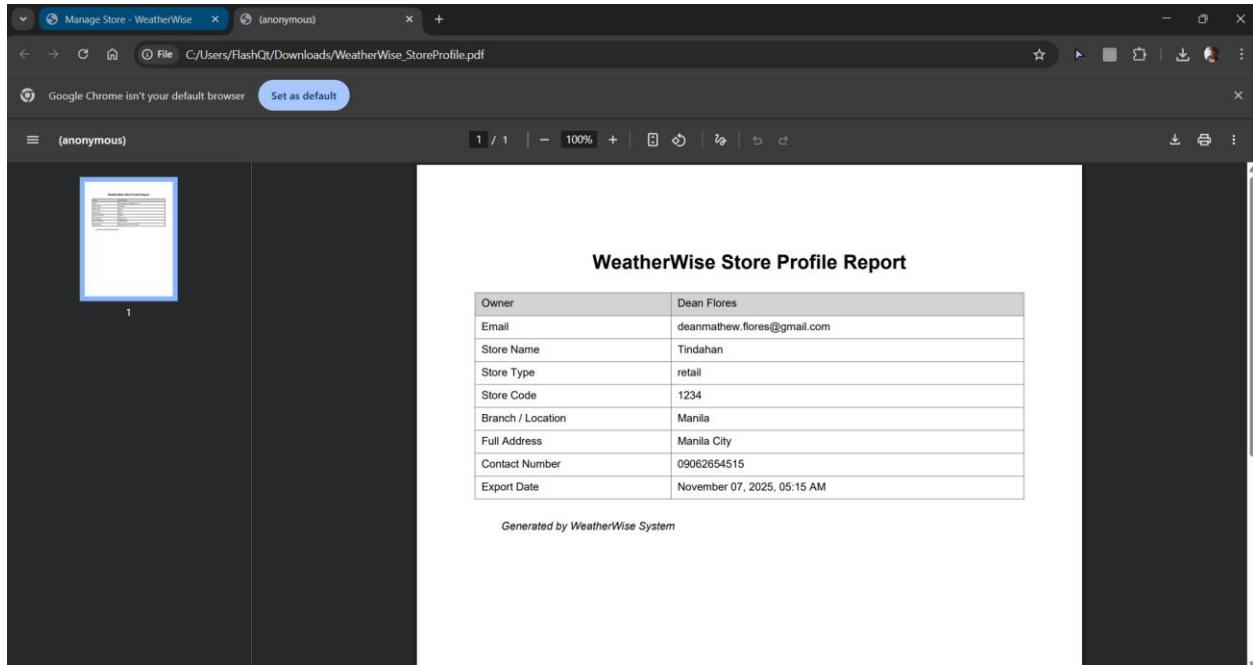
4.1.5. 1: Manage Store Page

- Before exporting data, you can see the information on the upper right corner that matches your basic information and contact information answered fields.

This screenshot shows the 'Manage Store' page with data entered into the form. The 'Basic Information' section is highlighted with a red box, showing 'Store Name' as 'Tindahan', 'Store Type' as 'Retail Store', 'Store Code' as '1234', 'Branch/Location' as 'Manila', and 'Full Address' as 'Manila City'. The 'Contact Information' section is also highlighted with a red box, showing 'First Name' as 'Dean', 'Last Name' as 'Flores', 'Contact Number' as '09062654515', and 'Email Address' as 'deanmathew.flores@gmail.com'. On the right, a 'Tindahan' summary box is highlighted with a red box, displaying 'Store Code: 1234', 'Location: Manila', 'Manager: Dean Flores', and 'Contact: 09062654515'. The 'Quick Actions' panel remains visible on the right.

4.1.5. 2: Manage Store Information

- Now, you can export your store data for owner identity after finishing all the information given.



4.1.5. 3: Manage Store Records

4.2. System Maintenance

- Always make sure to log out and close WeatherWise to ensure data protection.
- Keep WeatherWise up-to-date by checking for available updates.
- Back up your data always to avoid data loss.

4.3. Troubleshooting

4.3.1. Common Issues

Problem	Possible Cause	Solution
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Log-in failure.	Incorrect credentials.	Verify credentials and reset password (if applicable).
Inventory not updating.	Internet connection missing.	Check the network connection.
Weather data not responding.	API service issues or network issues.	Find a stable connection.
Unresponsive app.	Low system resources.	Close unused applications and restart WeatherWise.
Reports are not generating.	Insufficient server permissions.	Check server status.
Backup failed.	No storage space.	Free up space.

4.3.2. Support

- Consult this user manual for additional troubleshooting and clarifications for the step-by-step solutions.

5. Safety and Security Measures

5.1. Data Security

- Do not ever share your login credentials (email and password) or your Gmail verification codes with others.
- Always make it a habit to log out after using the website when accessing it on a public device.
- Regularly generate your reports in case of the system's backup errors.
- Use strong passwords and enable Two-Factor Authentication (2FA) for protection.

5.2. System Safety

- Install updates from the official WeatherWise development unit.
- Avoid changing directories on WeatherWise to avoid data loss issues.
- Make sure to have a stronger and more secure browser and internet before entering the system.

5.3. Maintenance

- WeatherWise is available on authorized devices and supported browsers for precise and optimal performances.
- When issues are encountered, contact the WeatherWise developers immediately.
- Regularly check the system's database to gather accurate and synchronized reports between modules (Inventory, Orders, AI-Forecast Stocks, etc.).

6. Advanced Features

6.1. Multi-User Session Access

- Allows multiple users to enter and use the system at the same time.
- Tracks user's activity transparency and maintains accountability within the business.
- Gives secured movement and coordination between administrators, managers, and staff while having secured data.

6.2. AI Forecast Integration

- Uses weather data to make predictions on the potential stock trends for business product demand.
- Suggests increasing inventory for certain products that are in high demand during a rainy or summer season.

6.3. Sales Reports and Performance Tracking

- Automatically generates detailed reports of sales and performance metrics summaries.
- Users can be able to view total sales, market demand, and inventory movements from the dashboard.

6.4. Alerts and Notifications

- The system sends instant alerts to the user when there are changes in the business updates, such as:
 - Low stock levels.
 - Incoming deliveries.
 - System updates.

7. Frequently Asked Questions (FAQs)

- **Q:** What is WeatherWise used for?
- **A:** WeatherWise helps businesses grow by supporting them through its features (managing inventory, suppliers, and product forecasting that utilizes AI-powered weather data) for improving stock decisions and profitability.
- **Q:** How do I enter the system?
- **A:** Open the application and connect it to your Google accounts or use your existing registered email and

password. Make sure to complete the 2-Factor Authentication (2FA) for safety purposes.

- **Q:** Can I add, update, or remove products in the inventory?
- **A:** Yes. Admin users can add, edit, or remove stocks through the Inventory Management section that can be found from the dashboard.
- **Q:** How do I manage orders and deliveries?
- **A:** Navigate to the Orders section to record, monitor, and update suppliers and buyers about their orders and delivery statuses.
- **Q:** How can I view the AI-generated sales forecasts?
- **A:** The AI Forecasting feature provides predictive information based on real-time weather conditions, which is helpful for stock planning.
- **Q:** Is it possible to generate and export reports?
- **A:** Yes. Generate and save important records (as PDF) regularly, such as store profiles, forecasts, and inventory through the Reports section.
- **Q:** How do I back up and secure my data?
- **A:** Export important records regularly and ensure your account's credentials are safe.
- **Q:** What should I do if I forget my password or have multiple attempts?
- **A:** Select the "*Forgot Password*" on the login page to reset your password. An email will be sent to your registered cloud.
- **Q:** Who can I contact in case of system failure?

- **A:** Contact the WeatherWise developer team through the contact information provided in the user's manual.

8. Warranty and Support

- Refer to your vendor's software policy for warranty coverage and limitations.
- Register the WeatherWise system with the developer's authorization to receive software update launching and maintenance help.
- Keep proof of your installation credentials, license key, and support contact information for future purposes.
- For long-term application, only the authorized maintenance will perform updates.

9. Contact Information

- Support Email(s):
 - mddconstantino@mymail.mapua.edu.ph
 - radcordero@mymail.mapua.edu.ph
 - dmcflores@mymail.mapua.edu.ph
 - smzamoras@mymail.mapua.edu.ph
- Phone Number(s):
 - Constantino: 09628493593
 - Cordero: 09088654210
 - Flores: 09062654515
 - Zamoras: 09626712840