User Manual for DBMS Inventory Management System

1. Introduction

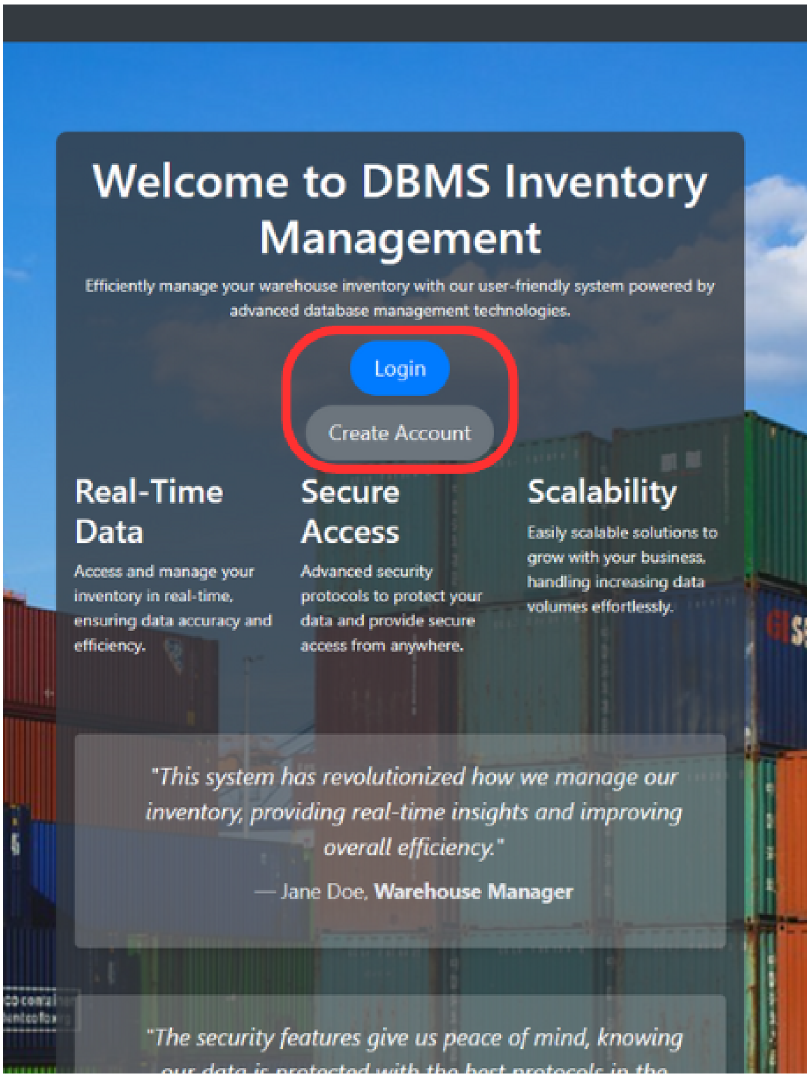
Welcome to the DBMS Inventory Management System! Our system is designed to efficiently manage your warehouse inventory using advanced database management technologies. This manual guides you through accessing and utilizing the various features of our system to ensure optimal performance and user experience.

2. Getting Started

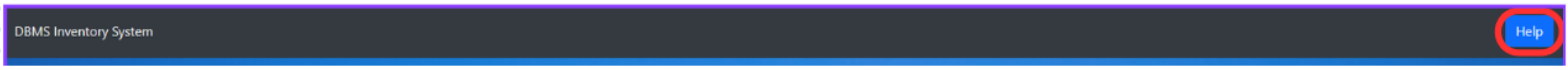
Accessing the System

To begin using the DBMS Inventory Management System, follow these steps:

- **Login**: If you already have an account, click on the "Login" button on the homepage to enter your credentials and access the system.
    - This version does not have functionality for logging in, The username and password are both “admin”.
- **Create Account**: New users should click on the "Create Account" button to register and create a new account.



The navigation bar includes a "Help" button for assistance.



2.1 Signing In

Overview

The SignIn page allows users to authenticate themselves using a username and password. It offers a straightforward interface for entering login credentials, including optional visibility toggling for the password field and social media login options.

Sign In Process

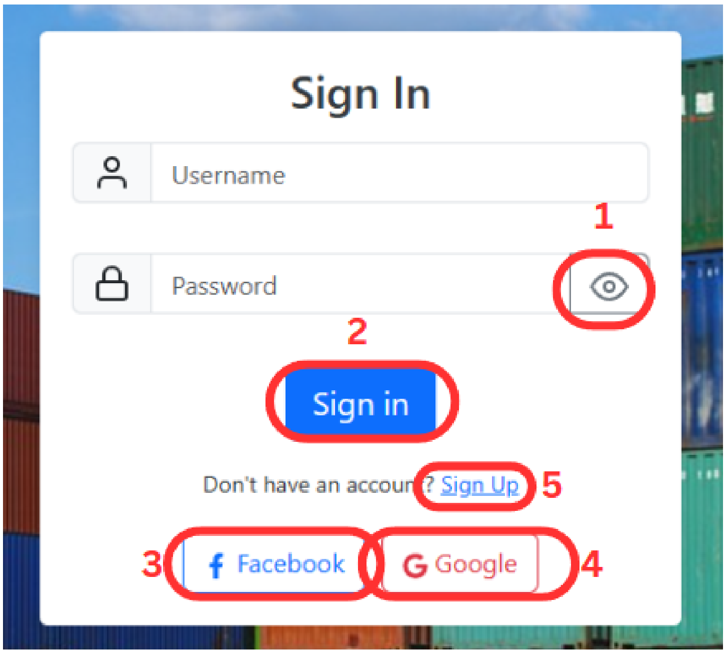
Username and Password: Enter your username and password in the designated fields. Icons next to each field help to visually distinguish them.

(1)Password Visibility: To toggle the visibility of your password, click the eye icon next to the password field. This feature allows you to check your password before submitting.

(2)Submit: Click the "Sign in" button to authenticate. If your credentials are valid, you will proceed to the next step of your session (e.g., 2FA page). Invalid credentials will trigger an alert, prompting you to try again.

(3)-(4)Social Media Sign-In: Users can also sign in using their Facebook or Google accounts by clicking the respective buttons.

(5)Sign Up: If you don't have an account, the sign-in page provides a direct link to the sign-up page. Click on "Don't have an account? Sign Up" to begin the account creation process.



Troubleshooting

If you encounter issues during sign-in, ensure:

- Your username and password are entered correctly.
- You are using the correct sign-in method (username/password or social media).
- You have an active internet connection.

2.2 Signing Up

Overview

The Signup page is designed for new users to create their accounts by providing details such as username, email, and a password.

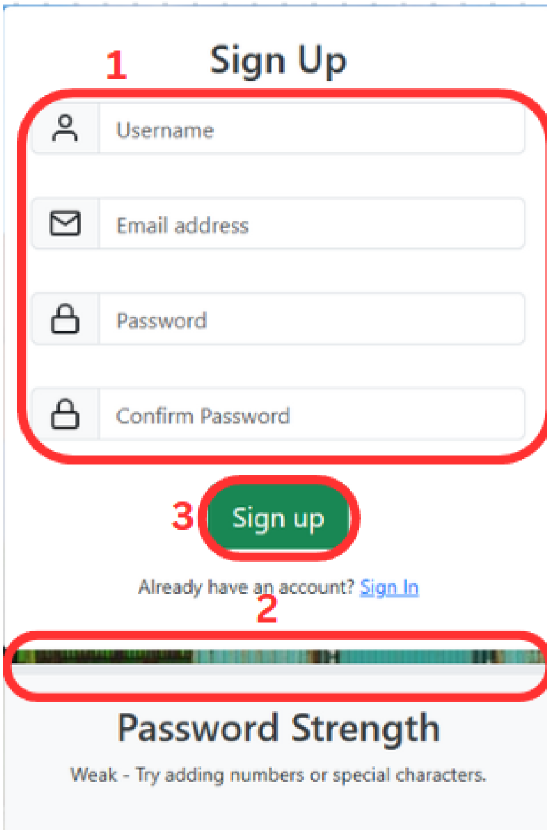
Registration Process

Navigate to Sign Up: From the homepage or the sign-in page, click on the "Sign Up" link to access the registration form.

(1)Enter Details: Fill in your chosen username, email address, password, and confirm your password.

(2)Password Strength Indicator: As you type your password, a progress bar and description below the password field will update to indicate the strength of your password. It's based on criteria such as length, use of uppercase and lowercase letters, numbers, and special characters.

(3)Form Submission: After filling in all fields and ensuring your passwords match and meet the strength requirements, click the "Sign up" button. If the information is validated successfully, you will receive a confirmation message, and you'll be redirected to the sign-in page.



Tips for a Strong Password

- Use a mix of uppercase and lowercase letters.
- Include numbers and special characters.
- Aim for a password that is difficult to guess but easy for you to remember.

Troubleshooting Registration Issues

- Ensure all fields are filled out and your passwords match.
- Follow the password strength recommendations to meet the minimum security requirements.
- If you encounter errors during registration, review your inputs and try again.

2.3 Two-Factor Authentication

Overview

For added security, our system implements two-factor authentication. This process requires users to verify their identity through a second step after entering their username and password, either by entering a code sent to their device or via voice authentication.

How to Use Two-Factor Authentication

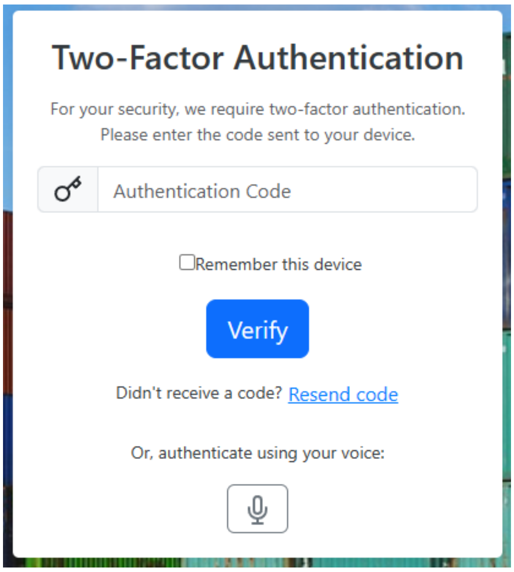
Entering the Authentication Code

Receive Code: After signing in, a unique verification code will be sent to your registered device.

- This is just "1111" for demonstration purposes

Enter Code: Navigate to the two-factor authentication page and enter the code in the designated field.

Verify: Click the "Verify" button. If the code matches, you will be granted access to the system. If not, an error message will be displayed, and you'll have the option to try again or resend the code.

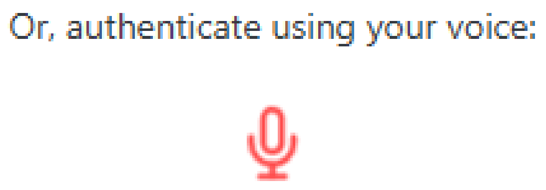


Voice Authentication

Start Voice Authentication: Click the microphone button to start voice authentication.

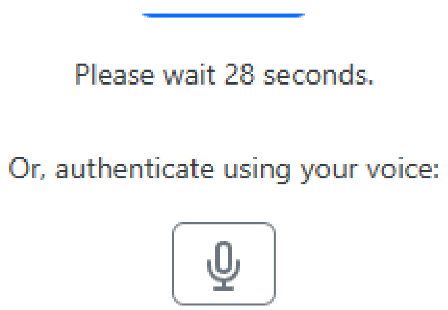
Speak: When prompted, speak your passphrase for voice verification.

Verification: The system will process your voice command. If recognized, access will be granted.



Resending the Code

If you did not receive the code or it expired, you can request a new code by clicking the "Resend code" link. There is a cooldown period of 30 seconds before you can request another code.



Remembering Your Device

You have the option to remember your device for future logins, reducing the need to perform two-factor authentication with each login. Simply check the "Remember this device" option during verification.

Troubleshooting

- **Incorrect Code**: Ensure the code is entered correctly. Double-check for any typing errors.
- **Code Not Received**: Wait a few moments as there might be a delay. If you still do not receive the code, use the "Resend code" option.

- **Voice Authentication Issues**: Make sure your microphone is enabled and working properly. Speak clearly and at a moderate pace.

3. Managing Inventory Items

Overview

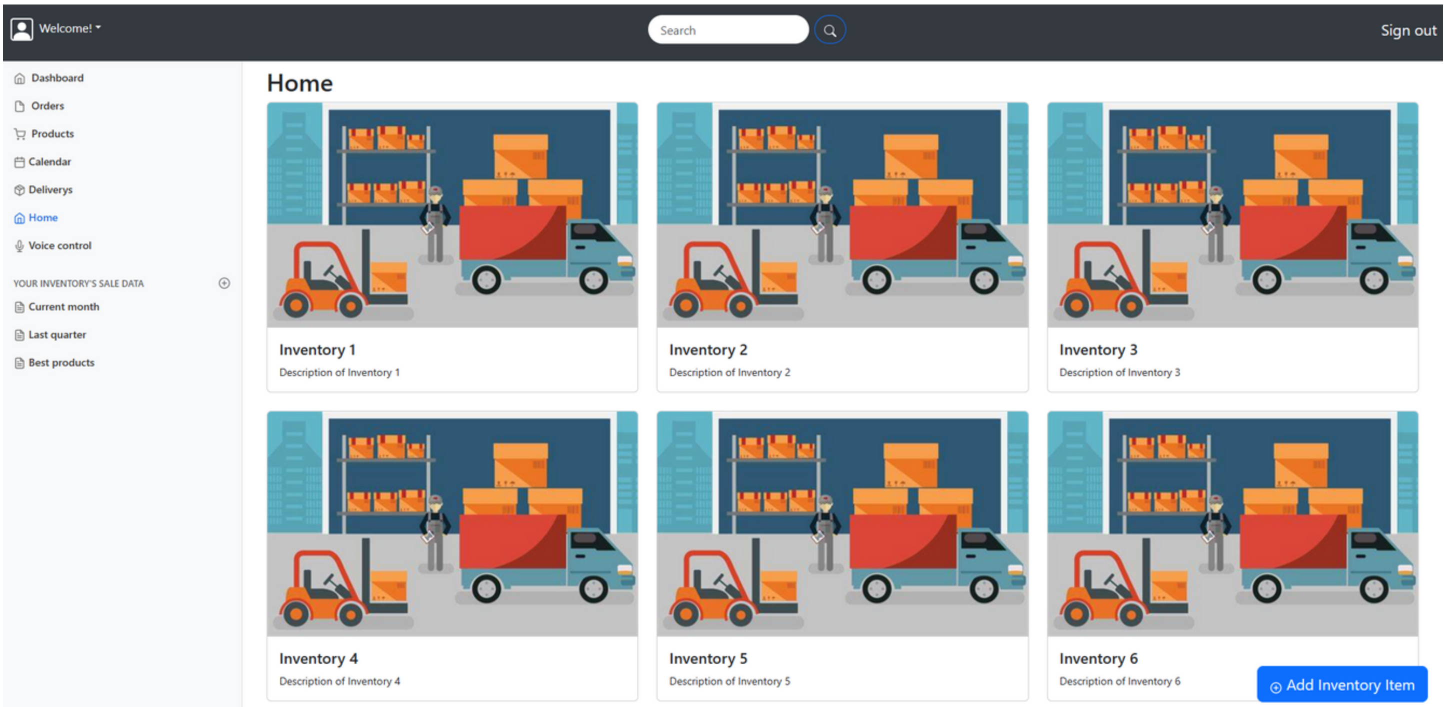
The Home Page is designed to give you a comprehensive view of your inventory items. It allows for easy access and management of your inventory, showcasing each inventory with its details. The page also provides a quick way to add new inventory items.

Navigating the Home Page

Upon successful login and completion of any required authentication steps, you'll be directed to the Home page. Here you will see a list of your current inventory items displayed as cards. Each card contains the name and a brief description of the inventory item.

Viewing Inventory Details

- **Inventory Cards**: Each inventory item is displayed on its own card. You can view the item's name and description at a glance.

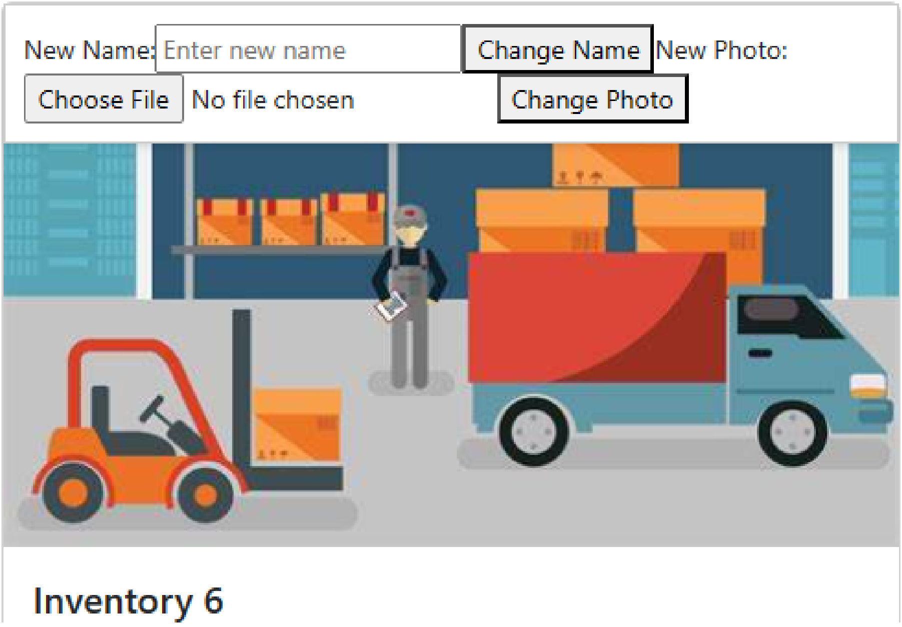


Adding a New Inventory Item

- **Add Button**: To add a new inventory item, click on the "Add Inventory Item" button located at the bottom-right corner of the page. This button is represented by a plus circle icon.

- **Automatic Addition**: Upon clicking the add button, a new inventory item with a default name and description will be automatically added to your list. The name and description follow the pattern "Inventory X" and "Description of Inventory X", where X is the sequential number of the item.

- **Customization**: After the item is added, you may customize it by editing its name and description to reflect the specific details of the new inventory item.



Tips for Efficient Inventory Management

- Regularly review inventory items for accuracy and relevance.
- Update item descriptions and details as needed to ensure they reflect the current status and information.
- Utilize the add, edit, and delete functionalities to keep your inventory list current and useful.

4. Navigating the Dashboard

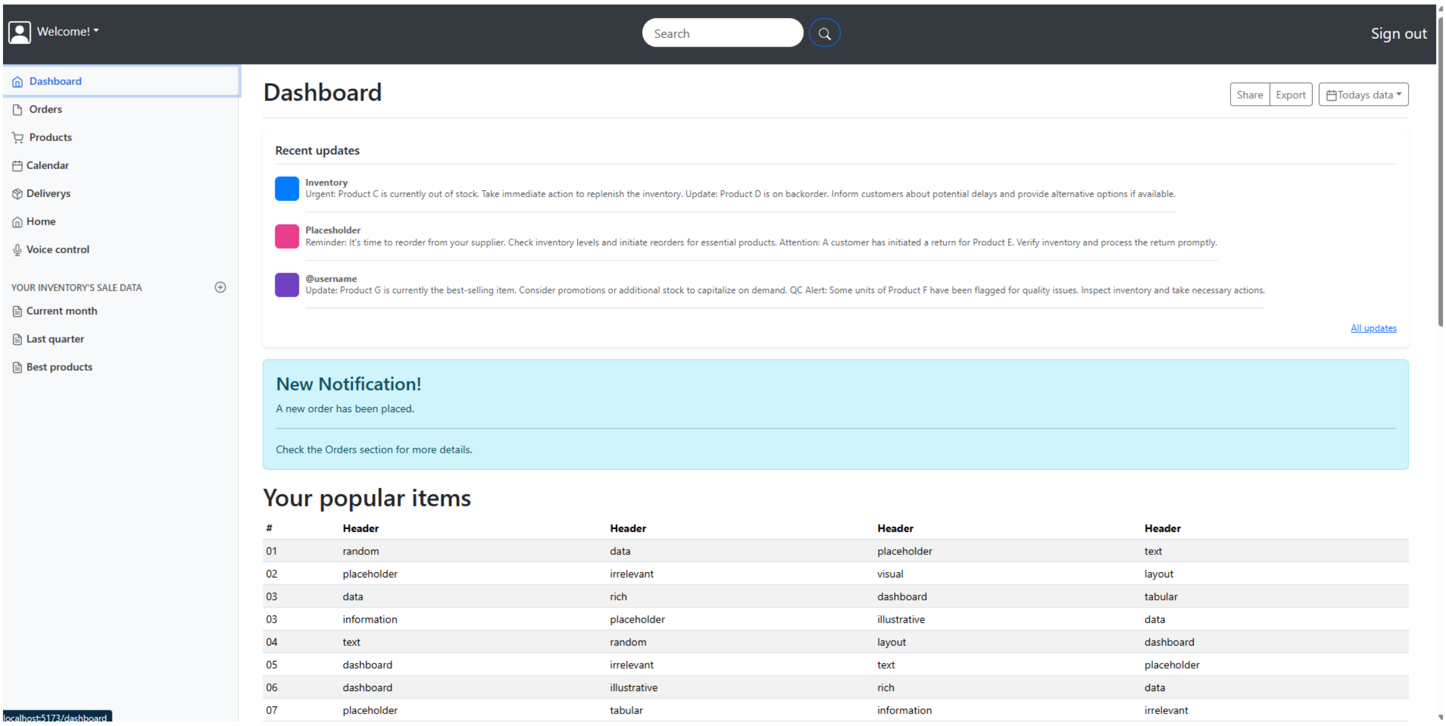
Overview

The Dashboard serves as the central hub for your DBMS Inventory Management System. It provides a quick overview of sales trends, inventory levels, recent updates, notifications, and a task list to keep track of your daily activities.

Features and Functionality

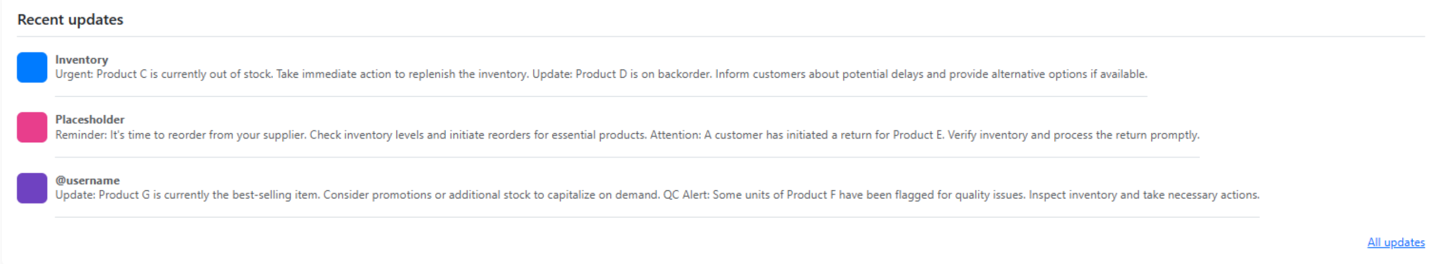
Charts and Analytics

- **Sales Trends**: A line chart displays sales data over time, helping you identify trends and make informed decisions.
- **Inventory Levels**: A bar chart shows the current inventory levels of different products, allowing you to manage stock efficiently.



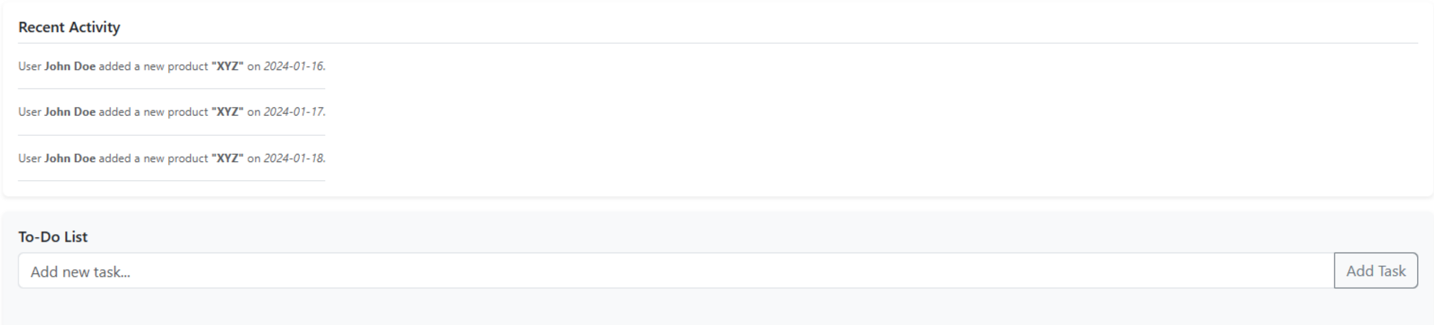
Notifications and Updates

- **Recent Updates Section**: Displays urgent alerts, such as out-of-stock notices or backorder information, ensuring you can act quickly to manage inventory.
- **New Notification Alert**: Alerts you to new orders or important updates, ensuring you don't miss critical actions.



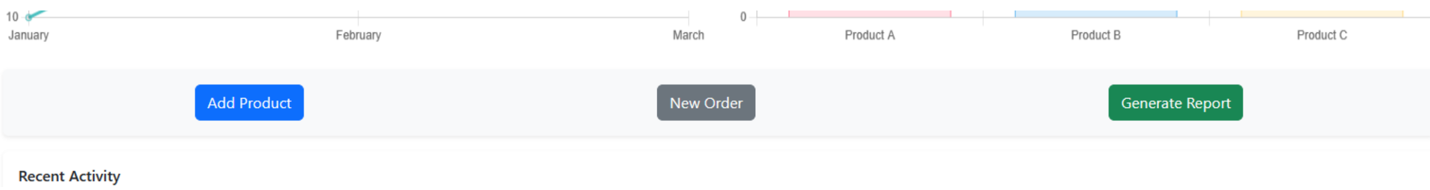
Task List

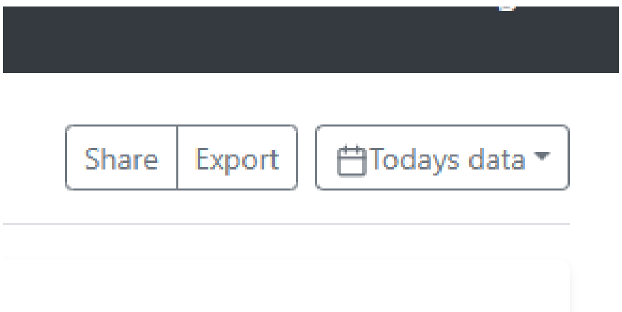
- **Adding a Task**: Enter a task in the input field and click the "Add Task" button or press Enter. This helps you keep track of what needs to be done.
- **Toggling Task Completion**: Click on a task to mark it as complete or incomplete, helping you track your progress.
- **Removing a Task**: Double-click on a task to remove it from the list, keeping your task list tidy and focused.



Quick Actions

- **Add Product**: Quickly navigate to adding a new product to your inventory.
- **New Order**: Open the order creation page to process new orders efficiently.
- **Generate Report**: Access reporting tools to create detailed reports on sales, inventory, or other analytics.





Utilizing the Dashboard

- Navigate through the dashboard sections to get a comprehensive view of your inventory system's current state.
- Use the quick action buttons to perform common tasks more efficiently.

- Keep the task list updated with your daily goals and objectives to stay organized.

Tips for Effective Dashboard Management

- Regularly check the notifications and updates section to stay informed about important changes or actions required.
- Utilize the charts to monitor business health and make data-driven decisions.
- Keep your task list manageable by adding only immediate and important tasks.

5. Analysing Sales Data

Overview

The Sale Data page provides a comprehensive overview of your sales data through various charts and a detailed sales data table. This analysis helps in understanding sales trends, identifying top-performing products, and evaluating sales performance across different regions and categories.

Sales Data Visualization

Monthly Sales Data Table

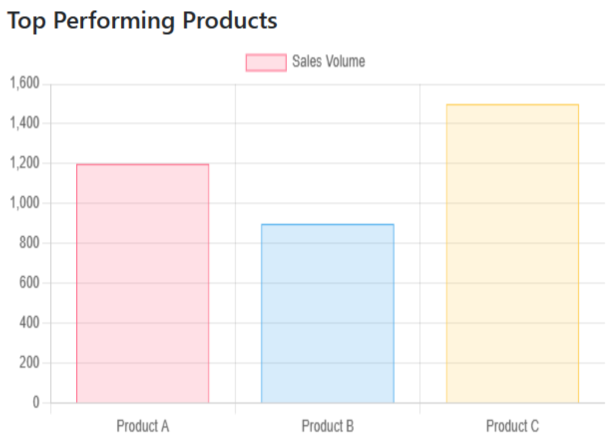
- **Overview**: Displays detailed information about sales transactions, including date, product, quantity sold, and revenue.
- **Navigation**: Scroll through the table to view all entries. This table helps in tracking sales performance over time and identifying which products are selling well.

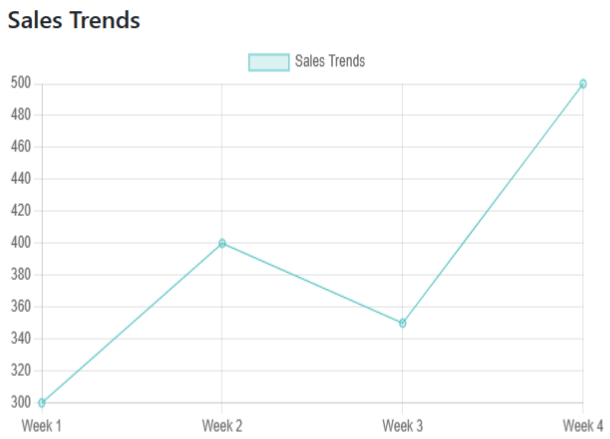
Monthly Sales Data

#	Date	Product	Quantity Sold	Sales Revenue
1	2024-02-01	Product A	120	£1,200
2	2024-02-05	Product B	90	£900
3	2024-02-10	Product C	150	£1,500
1	2024-02-01	Product A	120	£1,200
2	2024-02-05	Product B	90	£900
3	2024-02-10	Product C	150	£1,500
1	2024-02-01	Product A	120	£1,200
2	2024-02-05	Product B	90	£900

Top Performing Products

- **Bar Chart**: Visualizes the sales volume of the top-performing products. This chart is instrumental in identifying which products contribute the most to your sales.
- **Interpretation**: Use this data to focus on high-demand products and optimize inventory accordingly.





Sales Trends

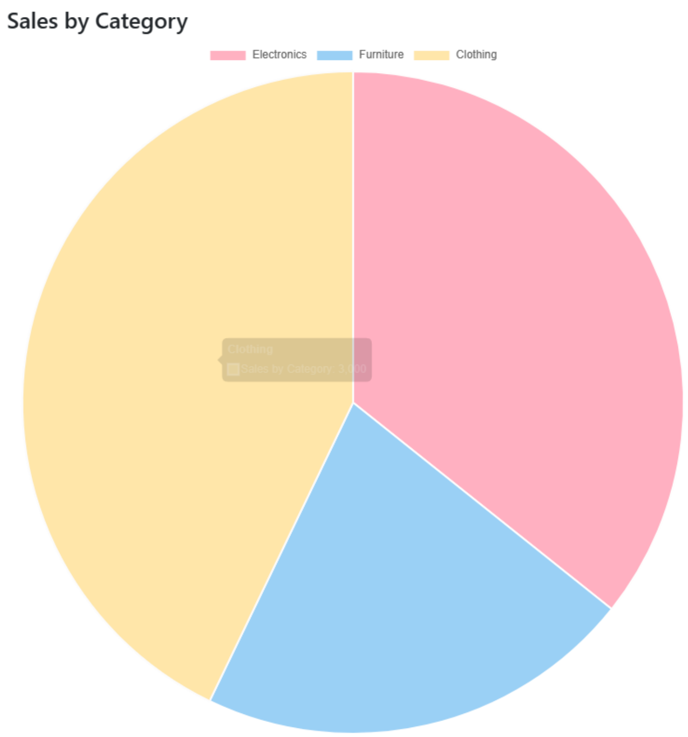
- **Line Chart**: Shows sales trends over a specified period (e.g., weekly). This chart is crucial for understanding sales patterns and planning for peak sales periods.
- **Analysis**: Analyse trends to forecast future sales and adjust marketing strategies to boost sales during slow periods.

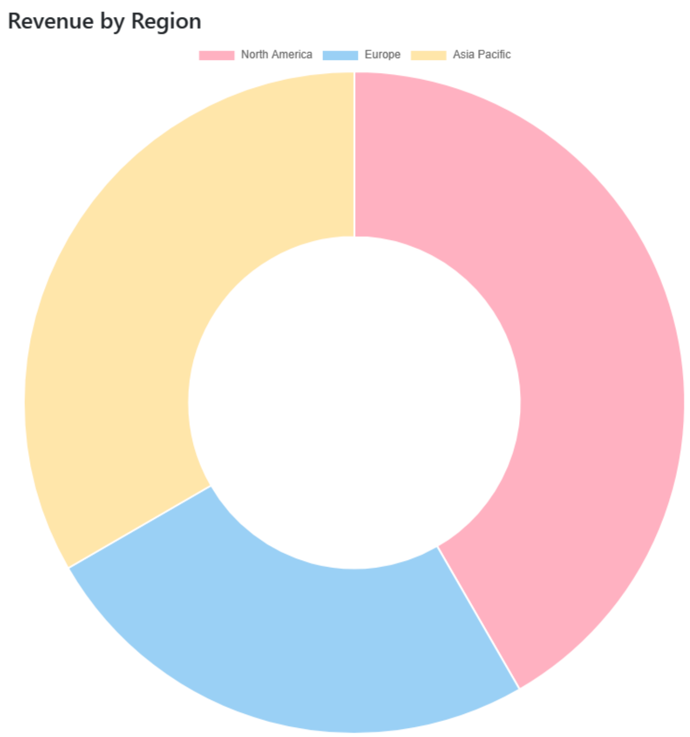
Sales by Category

- **Pie Chart**: Breaks down sales by product category, providing insights into which categories are most popular among your customers.
- **Decision Making**: Use this information to allocate resources effectively across different product categories and tailor your product offerings.

Revenue by Region

- **Doughnut Chart**: Displays the distribution of revenue across different regions. This chart helps in understanding geographical market strengths and areas for expansion.
- **Strategic Planning**: Analyse regional sales performance to identify markets with growth potential and develop region-specific strategies.





Utilizing Sales Data for Business Insights

- Regularly review the sales data table and charts to stay informed about your business's sales performance.
- Use insights from the top-performing products and sales trends to make informed decisions about inventory management, marketing efforts, and sales strategies.
- Analyse sales by category and revenue by region to tailor your product offerings and expansion strategies to meet market demand.

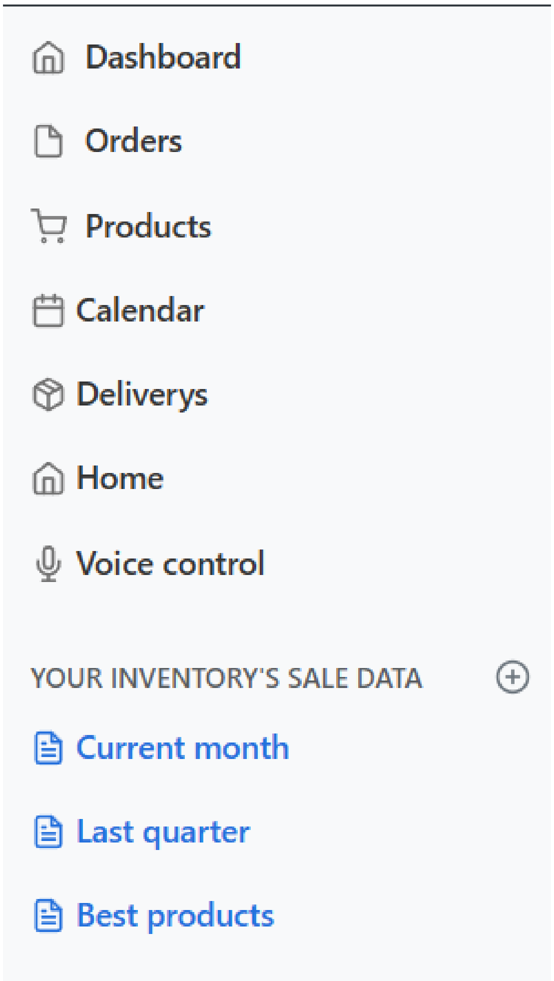
Tips for Effective Sales Data Analysis

- Compare sales data over different periods to identify growth trends and patterns.
- Pay attention to sudden changes in sales volume, as these may indicate shifts in consumer behaviour or market conditions.
- Use the insights gained from sales data analysis to drive decision-making in other areas of your business, such as product development, customer service, and supply chain management.

6. Navigating with the Sidebar Menu

Overview

The Sidebar component provides a convenient navigation menu for accessing various sections of the dashboard application, such as Dashboard, Orders, Products, Calendar, Delivery, Home, and Voice Control. Additionally, it includes a dynamic section for user-generated reports, enhancing customization and accessibility.



Using the Sidebar

Accessing Dashboard Sections

- **Dashboard**: Click on the "Dashboard" link to view an overview of your dashboard, including charts, notifications, and task lists.
- **Orders**: Navigate to the "Orders" section to manage customer orders, view order history, and process returns.
- **Products**: Access the "Products" section to manage your inventory, add new products, or update product details.
- **Calendar**: Use the "Calendar" link to view your schedule, set reminders, or plan for upcoming events and promotions.
- **Delivery**: The "Delivery" section allows you to manage shipping, track deliveries, and review delivery schedules.
- **Home**: Return to the homepage of your dashboard by clicking the "Home" link.
- **Voice Control**: Explore voice control options for your dashboard by selecting the "Voice Control" link.

Managing Reports

- **Viewing Reports**: The sidebar includes a dedicated section for reports, offering quick access to sales data and analytics.
- **Adding a New Report**: To add a new report, click the plus circle icon next to "Your inventory's sale data". Enter the name of the new report in the prompt, and it will be added to the list.
- **Accessing Reports**: Click on any report name to view the detailed sales data overview associated with that report.

Customizing the Sidebar

The sidebar's dynamic report section allows for personalization, enabling you to tailor the dashboard to your specific needs by adding reports relevant to your business operations.

Tips for Efficient Sidebar Navigation

- Familiarize yourself with the icons next to each section for quicker navigation.
- Regularly update the reports section with relevant data analyses to keep key insights at your fingertips.
- Utilize the sidebar to streamline your workflow by having frequently used sections easily accessible.

7. Other Features

Real-Time Data

Our system allows you to access and manage your inventory in real-time, ensuring data accuracy and enhancing efficiency.

Secure Access

We employ advanced security protocols to protect your data, providing secure access from anywhere.

Scalability

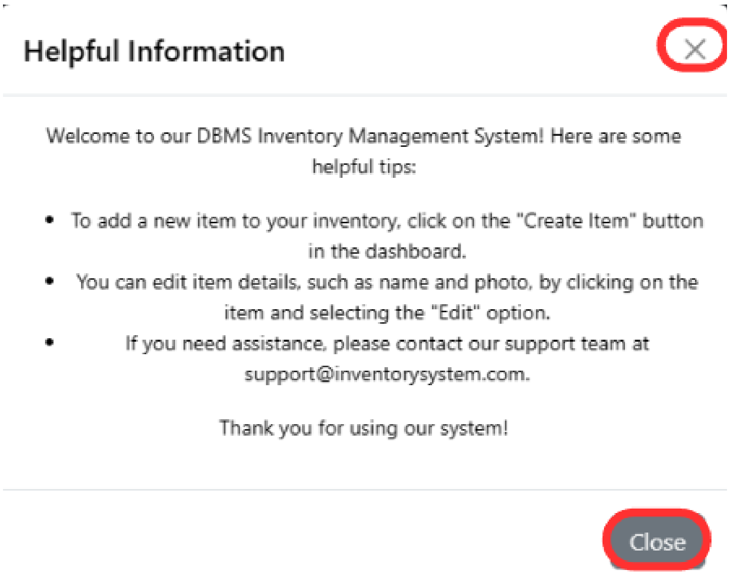
Our solutions are designed to grow with your business, easily scaling to handle increasing data volumes without hassle.

4. Help and Support

For additional help, click the "Help" button in the navigation bar. A Pop-Up will appear with helpful tips, including:

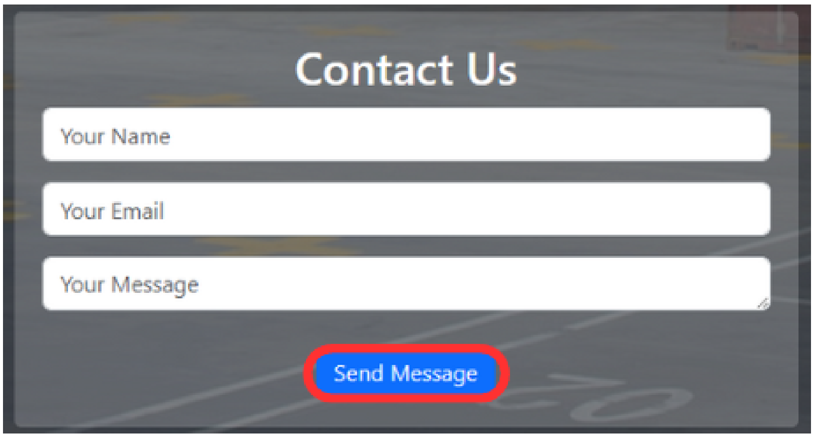
- Adding a new item to your inventory.
- Editing item details.
- Contacting support for further assistance.

Click “Close” or the x to remove the modal from the screen:



5. Contact Us

For any inquiries or further assistance, navigate to the "Contact Us" section at the bottom of the homepage. Fill out the form with your name, email, and message, then click the "Send Message" button.



6. Frequently Asked Questions (FAQs)

Q: What should I do if I forget my password?

A: If you forget your password, please use the password recovery feature or contact support for assistance.

Q: Can I use my social media accounts to sign in?

A: Yes, you can sign in using your Facebook or Google account by selecting the respective sign-in option on the sign-in page.

Q: What are the requirements for a strong password?

A: A strong password should be at least 6 characters long and include a combination of uppercase and lowercase letters, numbers, and special characters to enhance security.

Q: Can I change my password later?

A: Yes, you can change your password at any time through the account settings after you log in.

Q: Can I opt-out of two-factor authentication?

A: For security reasons, two-factor authentication is mandatory for all users. However, you can reduce its frequency by opting to remember your device.

Q: What should I do if I'm having trouble with voice authentication?

A: Ensure your microphone is enabled and functioning. Try to speak clearly and directly into the microphone. If issues persist, contact support for assistance.

Q: How many inventory items can I add?

A: The system is designed to handle a significant number of inventory items. However, for optimal performance, it's recommended to manage the items efficiently and archive or delete those no longer needed.

Q: Can I undo the deletion of an inventory item?

A: The ability to undo deletions depends on the system's specific implementations and settings. It's advisable to double-check before deleting any item.

Q: How often is the data on the dashboard updated?

A: Dashboard data is typically updated in real-time, ensuring you always have access to the most current information.

Q: Can I customize what appears on my dashboard?

A: Customization options depend on the system's implementation. Generally, dashboards are designed to provide a comprehensive overview and may offer some level of customization to fit individual user needs.

Q: What should I do if I notice discrepancies in the dashboard data?

A: If you encounter any discrepancies or issues with your dashboard data, please contact technical support for assistance and troubleshooting.

Q: How often is the sales data updated?

A: Sales data is typically updated in real-time, ensuring you have access to the latest information for decision-making.

Q: Can I export the sales data for further analysis?

A: The ability to export data depends on the system's specific features. Look for an "Export" button or check with your system administrator for more details.

Q: How can I improve the accuracy of sales forecasts based on this data?

A: Improve sales forecasts by regularly updating sales data, analyzing trends and patterns, and considering external factors such as market conditions and consumer behavior.

Q: Can I customize the links in the sidebar?

A: The ability to customize sidebar links depends on the application's configuration. Generally, adding reports is supported, but further customization may require developer intervention.

Q: How do I remove a report I no longer need?

A: Currently, the sidebar does not include functionality to remove reports via the UI. To modify or remove reports, consider contacting your system administrator or developer.

Q: Is it possible to reorder the sections in the sidebar?

A: Reordering sidebar sections typically requires changes in the codebase. If you need this functionality, please discuss it with your development team.