

Farm Management System

Brief user guide

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How to Run the Project

This is a simple farm management system built using HTML, CSS, and JavaScript. To run the project:

Using VS Code with Live Server Extension:

- Open the project folder in Visual Studio Code.
- Find the index.html file.
- Right-click on index.html and select "Open with Live Server." This will run the project in your default web browser.

Running Directly in a Web Browser:

- Locate the index.html file in your project folder.
- Double-click the index.html file, or right-click and choose "Open with" and select your preferred web browser.
- Now, you will be redirected to the login page. This system uses the browser's localStorage for authentication.

To log in, use one of the following predefined username and password combinations:

Username: admin

Password: admin123

Or

Username: user

Password: user123

These credentials are set in the auth.js file.

Application Overview

Dashboard

This is a simple dashboard with five data cards:

Navigation Bars:

- Side Nav Bar: Used for navigation.
- Top Nav Bar: Includes the logo, search bar, and a dropdown button for the profile. Currently, this button only has a "Log Out" option, which allows you to log out from the website.

Data Cards:

- Four of these cards dynamically display data based on user inputs from forms located in the management pages.
- The last card shows weather information using an API key (note: the API may not always respond correctly).
- Crop Names Synchronization: After adding crops in the Crops Management page, the first card on the dashboard will update to display the crop names you've added.

Crops Management

- Here, you can manage crops. This section has three parts:

Form to Enter Data:

- When you enter data in the form, it will appear in the data table below.
- The table allows you to manage the entered data with two buttons: Update and Delete.
- Update Button: When clicked, the data will repopulate in the form, allowing you to make changes and submit again.
- Delete Button: When clicked, it deletes the entire row.

Crop Stages:

- This section includes a dropdown list and a date selector.
- The dropdown list is populated based on the data entered in the table. After adding data, you can select the crop name from the dropdown and choose a date.
- The system will then count the days from the planted date you entered to the selected date.
- When you click the "Show Stages" button, the current crop stage, stage details, and other recommendations will be displayed. These recommendations are predefined in the JavaScript file.
- Validations: Some validations are implemented to ensure correct data entry.

Workers Management

- This page has similar functions as the Crops Management page:
- Data Input Form: Users can input worker data using the form.
- Data Table: The entered data will appear in a table below, with options to Update and Delete.
- Data Cards: There are three main cards to display the total number of workers, as well as the counts for male and female workers.
- Dashboard Synchronization: When you add workers on this page, the dashboard is updated accordingly. The dashboard includes a pie chart that displays the total number of workers and the breakdown of male and female workers.

Fields Management

- This page follows the same layout and functionality as the Crops and Workers Management pages.
- It also updates the dashboard when data is added or modified.

Task Management

- This page has three components:
- Data Entry Form: Used to input task data.
- Data Display Layout: Shows the details of a selected task.
- Data Table: Displays a list of entered tasks.
- Task Selection: When you add data to the table and click on a task, the details will be displayed in the data view layout.

Inventory Management

- This page is a simple inventory management system:
- Data Form: Used to add inventory data.
- Data Table: Displays the added data with options to Update and Delete.
- Data Cards: There are four cards to display total inventory statistics.

Footer

- This is a simple footer that appears on all pages.