Inventory Management System

We have developed a comprehensive inventory management system that allows warehouse managers to easily add, update, and transfer items in the inventory. This efficient system simplifies the entire process, improving productivity and accuracy.

Development Team

Dharani Thallapally

Dharani played a crucial role in designing the system's user interface and ensuring a seamless user experience.
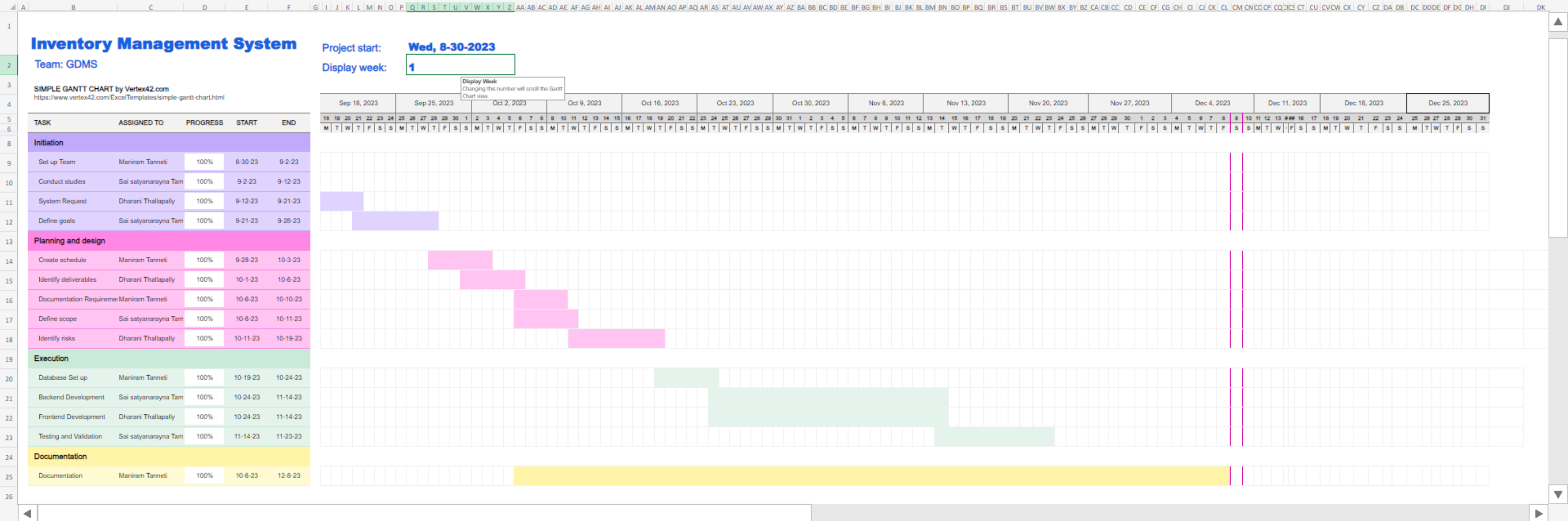
Maniram Tanneti

Maniram focused on developing the backend functionalities of the inventory management system and implementing efficient data handling.

Sai Satyanarayana Tammineedi

Sai contributed his expertise in database management, ensuring the system's data integrity and security.

Inventory Management System

Team: GDMS

SIMPLE GANTT CHART by Vertex42.com
https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html

Project start: **Wed, 8-30-2023**
Display week: **1**

TASK	ASSIGNED TO	PROGRESS	START	END
Initiation				
Set up Team	Maniram Tanneti	100%	8-30-23	9-2-23
Conduct studies	Sai satyanarayna Tam	100%	9-2-23	9-12-23
System Request	Dharani Thallapally	100%	9-12-23	9-21-23
Define goals	Sai satyanarayna Tam	100%	9-21-23	9-28-23
Planning and design				
Create schedule	Maniram Tanneti	100%	9-28-23	10-3-23
Identify deliverables	Dharani Thallapally	100%	10-1-23	10-6-23
Documentation Requiremer	Maniram Tanneti	100%	10-6-23	10-10-23
Define scope	Sai satyanarayna Tam	100%	10-6-23	10-11-23
Identify risks	Dharani Thallapally	100%	10-11-23	10-19-23
Execution				
Database Set up	Maniram Tanneti	100%	10-19-23	10-24-23
Backend Development	Sai satyanarayna Tam	100%	10-24-23	11-14-23
Frontend Development	Dharani Thallapally	100%	10-24-23	11-14-23
Testing and Validation	Sai satyanarayna Tam	100%	11-14-23	11-23-23
Documentation				
Documentation	Maniram Tanneti	100%	10-6-23	12-8-23

Project Status

Before Mid-Term

- Developed use case diagrams, activity diagrams for the scope
- Formed the functional and non-functional requirements for the scope.
- Documented the requirements.
- Finalized the technology that needs to be adopted for implementation, python and flask framework

Post Mid-Term

- Setting up Database
- Setting up User interface
- Linking the Backend and User interface
- Testing
- Enhancing the Data Validations

System Overview

① **Efficient Inventory Management**

Our system provides features like adding, updating, and transferring items with ease, streamlining the inventory management process.

② **Real-time Data**

The system ensures that inventory information is always up-to-date, enabling accurate decision-making for warehouse managers.

③ **Data Validations**

Receive alert messages or popup notifications if there's an invalid data entry.

User Login

1 **Seamless Sign-up or Login Process**

Users can easily create a new account or log in using their existing credentials, ensuring a hassle-free experience.

2 **Robust User Authentication**

Our system integrates advanced security measures to protect user information and prevent unauthorized access.

Inventory Operations

(1) — **Add Items to Inventory**

Easily add new items to the inventory by providing relevant details such as item name, price, quantity, and location.

(2) — **Update Items in Inventory**

Effortlessly modify item information, including quantity, location, and other attributes, ensuring accurate inventory records.

(3) — **Transfer Items Between Locations**

Seamlessly move items from one location to another by specifying the origin and destination, simplifying logistics processes.

Purpose and Benefits

① **Enhance Efficiency**

Our inventory management system optimizes workflows and reduces manual effort, leading to increased operational efficiency.

② **Improve Accuracy**

Minimize human errors and maintain accurate inventory records, ensuring better decision-making and preventing stockouts.

③ **Save Time and Costs**

Streamline inventory-related tasks, reduce unnecessary purchases, and eliminate inventory discrepancies, resulting in significant time and cost savings.

④ **Enhance Customer Satisfaction**

Efficient inventory management translates into faster order processing and timely deliveries, satisfying customer expectations.