Sprint 1 Planning Document
Guaranty Sheet Metal Inventory Management Web App

Sprint Goals:

Objective 1: Set up and configure PostgreSQL database for inventory management and implement in AWS.

Objective 2: Develop a basic front-end application using React, including user authentication.

Objective 3: Build a REST API using Node.js and Express.js to connect the front-end application with the PostgreSQL database.

Sprint Duration:

Start Date: 1/29/2024
End Date: 2/27/2024
Duration: 3-4 weeks

Team Members:

Jacob Carney
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Tasks Breakdown:
Objective 1: PostgreSQL Setup and Configuration
- Task: Install PostgreSQL server.
  - Duration: 1 day
- Task: Design database schema for inventory management.
  - Duration: 2 days
- Task: Get it working on AWS for public team access
  - Duration: 2 days

Objective 2: Front-end Application Setup with React
- Task: Set up React project structure.
  - Duration: 1 day
- Task: Implement login page and authentication mechanism.
  - Duration: 3 days
- Task: Create a basic UI layout to display test data.
  - Duration: 2 days

- Task: Integrate front-end app with the REST API (pending API completion).
  - Duration: 2 days
- Task: Introduce formatting of inventory system
  - Duration: 4+ days
- Task: Begin working on dashboard after login
  - Duration: 4+ days

Objective 3: REST API Development with Node.js and Express.js
- Task: Set up Node.js and Express.js project structure.
  - Duration: 1 day
- Task: Develop API endpoints for authentication and test data retrieval.
  - Duration: 3 days
- Task: Integrate REST API with PostgreSQL database.
  - Duration: 2 days
- Task: Test API endpoints with Postman or similar tool.
  - Duration: 2 days

Stand-ups
Time: Anytime that is convenient for the team
Duration: 15-30 minutes
Purpose: To discuss progress, address impediments, and plan for the day.

Sprint Review Meeting
Scheduled for: Last day of the sprint
Participants: Entire team
Agenda: Review completed work, demo the web app, gather feedback, and plan for the next sprint.

Sprint Retrospective
Scheduled for: After the Sprint Review Meeting
Participants: Entire team
Purpose: Discuss what went well, what could be improved, and agree on action items to implement improvements in the next sprint.