**Sprint 3 Planning Document**

**Guaranty Sheet Metal Inventory Management Web App**

**Sprint Goals:**

1. *Enhance the PostgreSQL database to support new features: Settings, Inventory, Jobs, Purchases, and Dashboard.*
2. *Expand the React front-end application to include the new pages (Settings, Inventory, Jobs, Purchases, and Dashboard) and ensure they communicate effectively with the backend through API calls.*
3. *Extend the REST API using Node.js and Express.js to handle requests from the new front-end components.*

**Sprint Duration:**

Start Date: 3/26/2024

End Date: 4/23/2024

Duration: 3-4 weeks

**Team Members:**

* Jacob Carney
* Brandon Bejarano
* Michal Zajac
* Waleed Kambal
* Mason Wittkofski

**Tasks Breakdown:**

**Objective 1: Document New Features and API Endpoints**

* **Document API Endpoints**
* Task: Create comprehensive documentation for all new API endpoints developed under the previous objectives.
* Duration: 2 days
* Document New Pages
* Task: Write detailed user and technical documentation for the new pages developed in the front-end application.
* Duration: 3 days

**Objective 2: Thoroughly Test New Functionalities**

* **Test Front-end Pages**
* Task: Conduct thorough functional and user interface testing on the new Settings, Inventory, Jobs, and Purchases pages.
* Duration: 3 days
* **Test API Endpoints**
* Task: Perform comprehensive testing of all new API endpoints to ensure they meet functional and performance requirements.
* Duration: 3 days
* Integration Testing
* Task: Execute integration testing to verify that new pages work seamlessly with the updated APIs and database schema.
* Duration: 2 days

**Objective 3: Identify and Resolve Bugs**

* **Front-end Bug Fixes**
* Task: Identify and fix any bugs found in the new front-end pages during testing phases.
* Duration: 3 days
* API Bug Fixes
* **Identify and resolve any issues or bugs in the new API endpoints.**
* Duration: 3 days
* **Database Bug Fixes**
* Task: Troubleshoot and correct any issues arising from the new database schema implementations.
* 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 new pages of 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.