Requirements Definition

*Tools Co-Op*

1. **Introduction and Context**

This project aims to build a system that facilitates a library-like loaning system for tools.

The tool system will allow users to reserve tools through our website, while also providing them with specific instructions and information related to the transaction. The underlying database will keep track of user accounts, lists of available tools and toolsets, and a superuser account that will allow employees to audit both tools and users.

1. **Users and their Goals**

*The user’s goal is to be able to check out tools for their various home needs. They can use our new system to both check availability as well as make reservations online. Users will be required to make monthly payments in order to check out tools and will need to check out the tools in person. Users want a fast, easy, and straightforward process through which they can make reservations.*

1. **Functional Requirements**

*The project’s basic functional requirements include a way to keep track of where all tools are, a way for customers to see what is available, and a way for customers to reserve tools.*

*REFER TO THE FOLLOWING FOR AN EXHAUSTIVE LIST:*

*docs/Requirements\_Definition (Original).pdf*

1. **Non-functional Requirements**

*The project must be able to prevent race conditions in the checkout process and allow users to only check out tools for a week at a time. Other than those requirements, we will have a lot of flexibility in the ways we will be able to develop this product.*

1. **Future Features**

*Beyond the scope of this project, we would love to see a blog-style page set up for every user. Users would be able to add a profile picture, write a short bio about themselves, and upload pictures of them using our company’s tools. We would also love to add an online payment system so that users can pay from the comfort of their home.*

1. **Glossary**

*Customer – The business that is hiring us to develop their software system.*

*Employee – Someone who works for the customer or has superuser privileges.*

*User – Someone who uses our system. Usually either an employee or a customer of the business.*

*Project – The software system that is being developed for this company.*

*Frontend – Referring to user-side website code.*

*Backend – Referring to database-side application code.*