**ToolExchange** (Working name): Project Charter

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**Problem Statement**

Many people encounter an issue in their everyday lives that will require the use of tools and equipment, whether it be fixing a malfunctioned automobile or simple home improvement. Many people have to go and buy expensive equipment to aid them with such ailments, equipment they may only have to use for that one occasion. Or, people will hire a professional to do a job which could cause them to spend more money than they have to. With “ToolExchange”, users can search their area for power tools that other users have made available to be borrowed/rent. Users can even put up their own equipment for use by other users.

**Project Objectives**

* Address the issue of buying and obtaining expensive power equipment.
* Create mobile application that allows users to search for tools they need to complete a task.
* Develop a simple UI/UX experience that allows the users to search and post tools for renting, while looking sleek and modern as well.
* Allow users to click on a tool that interests them, and then they can see the user.
* whom posted the tool, and the location of the tool w/ address and distance away.
* Also allow users to view details of the tool such as make, model, tags for the type of work the tool is involved in, etc.
* Allow tools to be filtered by tool name, type, or distance away.
* Allow messaging between users
* Use backend system for push notifications when your tool has been requested.
* Store all data using a database

**Stakeholders**

* Users: People whom need to complete some sort of manual task.
* Developers: Jackson Didat, Tanner Metzmeier, Joe Porter
* Project Manager: Jackson Didat
* Project Owner: Jackson Didat, Tanner Metzmeier, Joe Porter

**Deliverables**

* iOS application in which the users can request and share their own tools and equipment to the public.
* Configured Firebase database to hold all the data such as user profiles, tools and equipment, etc.