Proposal of Project

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Abstract:

The project proposed is an inventory count system used for people that travel away from the central location of a company in order to complete jobs. This system will designed with mobility in mind so an app will be needed. This app will have features such as the ability to look up parts, find prices for parts, and check availability of parts. Also another aspect of this project will be a program that will be operated from the company's central location. This part of the project will be ran on a computer and will have functionality such as being able to add items to the inventory, make lists of the current inventory, adjust prices, and adjust inventory thresholds.

App Functions:

The purpose of the app is for it to be used by groups of workers who do not always have all the parts that they would need to fulfill a job. This app could be useful for estimations on prices and time frames on projects. The way it would work is that the user looks up an item in a database that is populated by the central location program (more on that later.) From here s/he can gain access to the price of that item and the availability of that item. This can be useful information when coming up with an estimate for a project.

Central Program Functions:

This program will be used by parts managers to keep track of inventory, set the prices of each part and to set the minimum amount of a part that they would wish to hold in stock. If a part becomes below threshold, it will be added to a list of items that need to be ordered. This system will be made with the goal of keeping items in stock and in an orderly fashion in order to keep work flowing smoothly and to reduce bottlenecks caused by waiting on parts.

Risk:

- Database management will be a key feature of this project and it will be important to get it right so that things work as intended. A good deal of planning will need to take place in order to offset getting a huge way into the development of the database and its functions only to find that a key feature is broken because of database design.
- Making an app will be difficult since only one person has actual app experience but by focusing on the aspects of the C# language needed and being focused this could be a good learning experience for the other two members.
- Making sure that the app and the central program operate together and do not

cause problems amongst themselves by creating conflicts in the database.

Increments:

- The first obstacle that needs to be conquered is the app itself. If we can get the basic design of the app down we can start to flush out the details of the database. From there we can start to work on the Central Program and use that to finish up the touches on the database and create the functions that will be used on the database from the Central Program.
- After the basic structure of all three piece has been designed, it will become important to make sure that they all three operate together in a way that no one part can break the operation of the other two.
- A good place to start with is a development diagram designed by the group that shows what direct to go and what is expected to come up. From there a schedule can be developed.
- Since this project will be worked on by three people with differing styles and experience, writing reader-friendly code or at the bare minimum creating readable documentation will need to be a step that is followed throughout the project