Introduction

The team name for this project will be Minigreen. Team Members involved will be Benjamin Waters, Aaron Hebert, and Stephen Lawson.

Large businesses such as Amazon and Walmart have long used data as metrics for how supplies are ordered. Taking advantage of that has allowed them to predict when and where new supplies will be needed and shipped to ahead of time, allowing for major financial profit from quick turn-around on products, and minimal overstock. However, smaller companies are not as financially able as these two mega corporations to afford the software that runs them. A small financial loss for ordering too much product is minor to Amazon or Walmart but could put smaller businesses out of the competition.

The Business Opportunity

Smaller businesses are often not able to efficiently manage, order and predict needed inventory according to seasonal trends. This software will afford these businesses the ability to predict product need and assist with the ordering of inventory that will be needed.

Our goal is to meet the gap that is there in the lower-end, “Mom N’ Pop” sector by offering a cheaper and simpler alternative. We would give them access to quality product and merchandise management with seamless predictive capabilities that allow them greater accuracy in resupplying their stock or supplies. The users of this software will be business employees and management. Primarily, it will focus on those in charge of inventory and product orders. This will reduce the need for human resources in analysis and information collection.

In terms of user requirements, users will have an account to log into in order to manage their system. The user will expect the software to be able to handle inventory management, including adding, removing and editing items from the database. The software will take note of the times where the items are sold. The software will make predictions based on past trends and make suggestions for future transactions in order to ultimately help save time and money when planning. If explicitly instructed, the software would be able to automatically place orders on stock that will be in demand.

Technologies

The technologies that we presume will be used are GitHub, Django, JS, and Python. The database architecture will be MongoDB. Databases will include inventory and employees. The inventory would have space for item name, type, id, time ordered, time arrived, time sold, and supplier. Employee database would have employee name and hashed passwords.