

**Project Report**

**Course ID: CPS 3320\*01**

**Project 1: Project Reflection**

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**Context of Project:** I choose this project idea because as I mention before creating this analysis and coming up with ways to improve performance its a vital role at my job, I usually perform this type of analysis using sql and excel and I was interested in seen how faster and efficient I could do the same work with the help of python**,** working on this project has given me lots of ideas of how I can improve my work with python and the amount of capabilities I could create to process csv files. Most of the workload at my job is in excel and learning panda would improve my capabilities in this field.

**Challenges:** the most challenging part of the development process was to get the dataset been read by python, I struggle many hours trying to figure out what the error that I was getting was until I notice the excessive used of syntax in the “item description” I try many things to simplified but I thought that I was unnecessarily to expend so many ours editing my dataset so I end up deleting this column since its only usability is for an easier understanding of the product and could be later on vlook or query into the analyzeddataframe. Manipulating the data was easier than expected, I’m used to working with SQL and VBA and it was definitely a way smoother experience, and I was amused how easy it was to modify the dataset and create the pie chart.

**Future**: If I had more time to work in this project, I would definitely create a more in depth analysis, instead of only contracting two inventory report I would like to compilate a whole year worth of reports and analyzed the changes in discrepancies and spec out a more in depth analysis of the most common values and in what moths they tend to change. The problem with this is that this new process that we have was recently created and implemented and there’s not enough available data yet. If I could do this project again, I would manage my time a bit better to deliver a more in-depth analysis, I feel that I could have done way more with the presented data and could have even develop a small process for the automation of this report, where any user could load this data frame and extract the report asap.