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PythonExcel App

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2. **Content**
   1. **Purpose**

The purpose of this feasibility study is to describe the project I am considering, which is a Python app, which should allow those working in larger businesses to manage and edit their large excel spreadsheets (commonly used in bigger companies) with little to no other help and relative ease.

* 1. **Scope**

The scope of this feasibility study is just to cover that of the Python App itself, and that of the website used to showcase what it does. This website includes a contact page for people to reach out to me the creator, Xavier Caldwell

* 1. **Overview**

This project is a solo project being made by me, using Python and a few imported libraries and the use of imported excel spreadsheets to filter, sort, clean up data, and create graphs, tables, and images, alongside formatting workbooks. In the end, this program should be able to manage multiple sheets and convert any applicable data. It will be fully operational when it is able to take in a spreadsheet, provide an interface with which to ask what the user would like to do, and then ‘do’ said thing such as sorting. In development, or at least for a prototype, it should at least be able to do so said things, but without a user friendly interface.

* 1. **Assumptions and Constraint**

Financially, this shouldn’t prove to be an issue, since all the apps are free, or relatively cheap, since Excel isn’t a huge lump sum payment to make in order to gain access. There should be very little to hinder the production of this app other than my own personal life and other work that I would need to do in order to pay the bills. All information and resources needed to complete this are available online.

* 1. **Approach**

This is relatively approachable, due to the ease of access straight from home, being able to work on this in just about any amount of free time that I might get between work and class. The benchmarking used to measure success of the project is basic functionality at first, and then a working interface with which to access the functions of the app without having to type complex code.

**2. Considerations**

**2.1 Objective**

The goal objective of this program is to provide a list of functions that aren’t normally available through Microsoft excel to ease the burden of office workers who use it on a daily basis for a large sample of people. This basically is to increase productivity and the ease of use of a common spreadsheet app used for business.

**2.2 Time and Resource Costs**

Realistically, the time needed to build this using a full time’s worth of work per week is probably only around 1-2 weeks, but because of the process wherein I have to write these beforehand, and because of other commitments I have in life, this will probably take double the amount of time to build. Resources however, are all accounted for, and nothing more than what I already have will be required, other than renewing my office subscription, which isn’t really an issue.

**2.3 Areas of Feasibility**

Technically, this can all be done relatively easily, but I am using a language I have never used before, so this may take a little bit more learning than some other projects might. However, the point of doing this in python is to show that I can be flexible and learn something else relatively quick.

Economic feasibility is simply just trivial. Again, there are no cost benefit calculations to produce here, because its free, and will stay free, and is basically the equivalent of a “labor of love”.