**TestTracker**

Needs it meets:

1. Manage testcases and project testing better/more efficiently/quickly.
2. Ability to import testcases from current Excel test documents.
3. Generate pdf reports for individual test runs and overall project.
4. Automatically fill out Redmine bugs and pull the bug number.
5. Remind the users of bugs related to testruns/cases and to check if they can be closed.
6. Automatically run AutoIT and Ruby scripts.
7. Add accountability to our testresults

Necessary Libraries:

1. MySQL Database Connector (connects python application to the database)
2. XLRD, XLWT (pulls data from Excel documents)
3. Tkinter GUI (the graphical user interface)
4. Python-Redmine (library for connecting python applications to Redmine)
5. Some kind of library for log in authentication
6. MatPlotLib (creates graphical representations of data, IE. Pie charts, scatterplots…)

Should it be done in Python? Or should it be done in C#?

The benefits of Python are that it is easy to read, quick to implement, according to stack overflow it is one of the most wanted and well known programming languages, there are libraries for GUI automation, and there are thousands of libraries for other prebuilt code.

Downside of Python is that there isn’t a quick drag and drop GUI builder.

The benefits of C# are that it has a quick drag and drop winforms GUI builder and Steve and Ray are very familiar with the language.

Downside is it would take more time for me to learn because it’s more complicated than Python.