**Project Proposal**

**Project Name:** PyCirrus

**Problem:** When designing a Python application connecting and saving data to the cloud is difficult. Also it is difficult to analyze data that multiple applications can aquire. By data I mean structured database like information, such as users, or anything of that nature. There are services, but some might be difficult to understand.

**Previous Solutions:** There are applications like Parse, Firebase or mySQL that allow for applications to store data in with the use of JavaScript or web based applications. The problem with these applications is they lack usability and are to complex for a casual user. They are really well done, so I want to replicate there anility on my own.

**Proposed solution:** Using DropBox API along with Tkinter I will make the module and application where users can update, see and add database classes, like Parse does. Along with that I will provide the code with and ways to understand manual on how to query through the database and how changing information.

How the problem will be solved is using the DropBox API I will save data and pull data into a text file where data will be saved in a CSV text format. With the functions I make a user can create classes, or tables, and they can see data, query through it and change information about it.

My solution will provide a tool for students to create many applications with an easy to use cloud service.

The way that the application will work when it comes to the user, it downloads text files into file and changes information and uploads it back to the cloud. When using the application users have to follow instructions to set up their own Dropbox and using my own API I will store each users information so that they can access and make applications.

When coming to the problem of having multiple users access the same data each text file has a clone file that has data on how its been accessed. So when data is being accessed it stores a value letting know other applications is being accessed. When uploading is finished it changes the data on the partner file and it allows other s in the queries to save data.