**CS408 Project Charter**

**Team 2**

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**1.Problem Statement**

We would like to create a tool that can help us grab information from websites. For example, we would like to grab all the student organization names and acronym from Boilerlink.purdue.edu or check the available course seat to register on mypurdue.purdue.edu. Also, we would like to make this tool available both in command line and GUI.

**2.Project Objectives**

**(a) Grab specific information from the website.**

    When the user enter the “beginning key word” and “ending key word”, the tool can retrieve information between these key or retrieve specific numbers of word after the key. If possible using different algorithm or method.

**(b)Repeat mode or Periodic mode.**

The tool needs to have two modes. **Repeat** mode and periodic mode. If the user chooses the **Repeated** mode, the tool will ask for the website URL and increment times; If the user chooses periodic mode, the tool will ask for the website URL and time interval.

**(c)Notification when the job is done.**

The user should choose whether to use this function or not.If it is the repeat mode, when we finished the increment times then send notification to the user (Email or screen popping). If it is the periodic mode, send notifications to the user when the information changes.

**(d)Concurrency**

    It should be able to run different jobs in the same time.

**(e)GUI and command line**

Provide a UI display to the user and command line instruction to use this tools. The GUI will be user friendly and very easy for user to utilize.

**(f)Filter**

    When the key do not satisfy the user’s requirement, user can use the filter remove unwanted information.

**3.Stakeholders**

**a) Users:**

Analyst, Database Admin and Programmer

          Any people who want to gather large amount of information from specific website.

**b) Customer:**

         Information Analyst Corporation.

         Any people who use this tool would be the customers.

**c) Software developers:**

          Hanxun Huan, Sun Kai, Yijie Wu, Longding Zhang, Di Yao.

**d) Development Managers:**

           Nick Stanish

**4.Deliverables**

Platform: Command line and GUI using Java.

A tool is available both in GUI and command line. The GUI will be user friendly and command line will provide enough instruction. User will be able to grab specific information from the website repeatedly or periodically. The user will need to provide a url and increment numbers when choose repeat mode. The user will need to provide a url and time interval using periodic mode. The result can be print out in shell or GUI. Also, the result can be save in a file. The users can choose to send the notification when the job is done. The tool will able to run multiple jobs in the same time using thread.