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Thursday: Cmpt-220
Project Two Milestone

To many individuals, the internet is a cornerstone of their everyday life, providing access to previously unattainable resources and information. However, alongside the idealistic access to almost boundless information and social media, the internet also hosts sites many would consider offensive, such as sites dedicated to potentially racist and otherwise crude humor. Furthermore, individuals may be unable to perform a preliminary evaluation of the site with any degree of accuracy. My project aims to fix this issue, and attempts to provide a way to perform a preliminary evaluation of an inputted web address. Specifically, for this assignment, I have worked to develop a WebCrawler program that determines the risk of a website being offensive.

As previously mentioned, my WebCrawler is intended to assess the risk of a website being offensive to the user. Therefore, the initial tasks of the program aim to implement a keyword system. Firstly, the program stores inputted keywords that the user considers offensive into an array of strings. However, before the input is stored within the array, it is converted to lower case, creating a standard case for future comparative processes. Afterwards, a self-coded selection sort method, *stringSort*(*String[] list)*, is invoked. This method utilizes Java's *compareTo* method to sort the input into ascending alphabetical order, allowing the program to implement more efficient keyword comparative and evaluation processes in future steps.

For future progress, I need to complete the webcrawler's comparative process, where the websites text content is compared to the elements of the keyword array, likely utilizing a search algorithm that incorporates string methods. Also, since the output of the program is intended to be a risk assessment, a counter of positive comparisons will be implemented, and if statements will be used to determine the outputted evaluation. Lastly, an early termination sequence will be implemented, terminating the program prematurely if the counter variable has reached a pre-determined value.

UML Diagram

Class name: Proj2
Data Fields: **length:int** **keyword: String[]** **counter: int**
Methods: **stringSort**