**Course Project**

**Milestone 1: Design**

***GitHub Notification Bot***

**Problem Description:**

***What are the problems?***

One of the issues on GitHub, in a particular repository, is if a user has multiple collaborators which keep updating the repository by providing commits, it is sometimes difficult to manage everything. Secondly, if an *issue* is assigned, which needs to be resolved in stipulated time, notifications would be a good way to know about such conditions. Sometimes, while working parallelly on a project, it is important to know which task is completed and when so that the future tasks can be carried out accordingly. Finally, it is also important to maintain pull requests on the repository in order to maintain the progress of the project.

***Why is it a problem?***

Regularly reviewing the commits will be easy for the user as well as all the collaborators in maintain the project. Not maintaining updates can sometimes lead to merge conflicts which can cause deeper issues. One of the ways this is possible is when people make different changes to the same line of the same file on different branches in your Git repository. This conflict can sometimes prevent updating of a particular file on the repository. These merge conflicts must be resolved before merging a pull request on GitHub.

***Extra:***

The GitHub Notification bot will be an extension that can be added to a browser. This extension will be linked a GitHub account and will provide regular updates regarding the repository related to an account. The notification will include time and details regarding any changes to the account in a timely interval of 30 seconds.