Solution Description:

The GitHub Notification bot will be an extension that can be added to a web browser (E.g. Google Chrome). This extension will be linked to a GitHub account and will provide regular updates regarding the selected repositories for that account. The notification bot will interact with GitHub APIs every 30 seconds and will pop notifications time to time. The notification will include the details regarding any Commit, Pull Request or Issue Assignment related to those repositories, and details about the person who made that update. Notification bot will help all the collaborators to stay tuned with the changes made to their repositories. The bot will speed up the process of reviewing the pull requests or resolving the issues and will increase the chances to avoid merge conflicts. Thus, our bot will help the users to manage their repositories in timely manner.

To interact with the bot, the user first needs to install and add the extension to the web browser. The user needs to provide “Personal Access Token” created from GitHub Account only for first time. The token will be stored locally in encrypted format for later use. In action, the bot will provide the list of repositories linked to that account. The user will select the repositories for which he/she wants to get notified. Bot will then start popping notifications to the user. User will have an option to enable or disable notifications for those repositories. The bot will also notify again after some time for which the user has set the reminder.