George Camac

GitHub Assignment

GitHub is an online repository that can help you keep track and organize work. Not only can GitHub keep all your projects and repositories in one cloud base platform, but it can also make sure all your coworkers, friends, etc. can access them as you update them. This is a large reason why GitHub is also a great place for finding public code and information. A countless number of users put public code onto GitHub for anyone to use for whatever purpose it may be. You can find anything from programs to help keep notes on your desktop to penetration testing instruments to help you find vulnerabilities. Overall, a lot of people use GitHub because of its ease use and easily integrable interface. GitHub allows you to connect your IDE’s if they are compatible with extension, but even then, you can always turn desktop folders into a cloud-based repository so no matter your IDE or extensions you will always be able to connect to the cloud with the GitHub Desktop version.

To every repository there are the basics of putting the code inside of it, and one must know how to do so. So, whenever a user enters the code to be saved and subsequently sent to the repository it is called Commit. Although, once the commit is made the user must then also push the commit to the repository. Once the commit has been pushed to the repository the new code will now be there. These commits can be used as a version control and will allow you to rollback to different saves or patches. This allows the user to undo any mistakes they may have made throughout the updating process of the program which is especially helpful when a bug goes unnoticed even after release.

When working in a team repositories your team must be able to effectively work on the project together, whether you are physically together or not. With GitHub it allows you to branch the repository, or break up the project into different sections, for individuals to work on their branch without interfering with other branches. Similarly to this, once the developer has finished his section, or branch, they can send a Pull Request which will allow you and your team to effectively merge the branches together while being able to review any overlapping code or accidents you may have crossed along the way. However, it will not allow you to merge the code until a review has been taken place by you and your team.

Another essential part of GitHub are their Forking features. This will allow you to copy the code of those who you are working with. Not only does it copy the code but makes an Identical repository version of the original code. From this user can make alterations and fix bugs without having any change to the actual program. This helps the user avoid unfixable changes they could have made during their patching. Similarly to Forks Clones copy the code and make an exact copy of the desired repository, but the main difference between the two is that Clones will save the repository locally and within your files rather than on the online repository under your account.