SIT764 – Team Project (A)

Individual Pass Task 3.1: Git and Bitbucket

Overview of the Task

In Week 1, issues with regards to collaborative working in a team environment were briefly discussed and `git` as a version controlled, distributed repository was introduced. In this task, students will be able to put the main workflow of `git` into practice and complete the main steps on how one works with `git`. Further aspects of `git` will be discussed in Week 4 which should give students enough time to complete this task.

The following describes a number of steps that you need to complete working with `git`. After completing *each step*, please create a screenshot (or similar) that clearly indicates that you have completed this step in its entirety – your name and/or Student ID should be clearly visible in your screenshots. Once you have completed all steps, create a document where you provide evidence of completing each step of this task.

1. Using a web browser of your choice, log into the local Bitbucket server: https://bitbucket-students.deakin.edu.au/ - please use your student credentials.

   NOTE: please do not use the cloud-based Bitbucket server for this unit as you will need to create new credentials (and we have no control what happens on the cloud-based server).

2. Locate the repository "SIT764-T120-Task3.1" and create a `fork` of this repository *into your personal workspace* on the local Bitbucket server. The menus on the left of your browser window have an icon where you can **fork** this repository.
   NOTE: you do not have write permission in the repository "SIT764-T120-Task3.1" itself and hence you have to create your own fork.

3. By using a git client of your choice (e.g., Atalassian's SourceTree) `clone` the forked repository from your personal space onto your working machine (i.e. your desktop of laptop). The URL of your repository will appear once you press the `clone` icon on the left.

4. Once you have a local clone of the repository ready, check out the "`hello-world`" branch of the repository.

5. You will see a file called "`hello-world.txt`" on the "`hello-world`" branch – this file is not present on the "`master`" branch and hence if you cannot see this file, you have checked out the wrong branch. Open this file (with a text editor of your choice) and edit it as per the instructions given in the file.

6. `Commit` the changes you have made – please use *an appropriate commit message* to indicate the changes you have made. It is important that you get used to creating meaningful commit messages for your project work.

7. Create a *new* file in the "`hello-world`" branch (choose a suitable file name – your choice), add some contents to this file, `add` it to the repository, and `commit` your changes (again, use a meaningful commit message).

8. Inspect the *log history* of your repository in order to see what changes have been made. Include the commits of *all branches* in the log history.

9. `Push` the changes you have made locally on your working machine to your repository onto the local Bitbucket server.

10. Back in the browser window, create a `pull request` back to the repository "SIT764-T120-Task3.1". You will find a corresponding icon on the left of your screen.
    NOTE: your pull request is likely to be *denied*, but the task is complete once you have submitted your pull request.

If you have any questions with regards to using `git` or the `git` installation on our local Bitbucket server, please contact the Capstone Projects Helphub at Greenwood Park for assistance.

NOTE: in order to complete this task, you very likely have to consult external resources about git. This is intentional so that you get used to consult external resources when you have challenges with technologies used in the context of your project.

Please note that if you copy steps of you completing this task (either in full or partially) from another student or any other (online) resource, this will be considered as academic misconduct and we will investigate this accordingly. Copying somebody else's work is also an example of unprofessional behaviour, something that is not tolerated in the School of Information Technology's capstone project units.

Submission Details

Please export your document where you evidence the completion of all the steps of this task into PDF format and then submit via the SIT764 OnTrack site.