Munster Technological University
COMP7039 – Agile Processes
SD3_A

October 2023

Individual skills evaluation – Git (20 %)

Time allowed: 90 minutes
Instructions:

- Create a ***solutions-document*** to hold your answer screen-shots. The ***structure*** of your solutions-document should appear as:

Student name:	*Your name*
MTU student ID:	*Your MTU Student ID*

    Task 1 - Create a folder called SD3_A_GitAsses_23 and initialize it as Git managed
    Screen-shot

    Task 2 - Configure Git with your email and username.
    Screen-shot
    .   .
    .   .

- Use the following *naming convention*:

    YourFirstName_YourLastName_YourLab_Group.pdf
    e.g.   *Chris_O'Leary_SD3A.pdf*

- ***Complete*** each of the below-listed enumerated-tasks, ***in order of appearance***. Use a terminal/Git BASH interface to undertake your tasks. Use of Git "*cheat-sheets*" is ***not permitted***.
- In your solutions document, ***number each task clearly.***
- ***For each*** numbered-task, insert a **screenshot** into solutions document, showing **commands you executed** for this step and the **system's response/output**.
- Ensure that the text in your ***screen shots*** is ***legible***.
- Keep a *copy* of your *repository* for possible review by lecturer.
- Ensure that you ***save*** your solution document ***after each step***.
- Do not communicate with other students during the assessment.
- The use of ***ear-buds/head-phones/…. is not permitted*** for the duration of your assessment.
- No ***edited screenshots*** will be marked. Each screenshot must show the ***commands*** you entered ***followed immediately by*** your system's ***response***.

Submission Instructions:

Upload your solution document to **Canvas** ***by/before end of assessment***.
Accepted formats: *doc/docx/pdf/odt*

Git Assessment Tasks

1. Create a folder called *SD3_A_GitAsses_23* and initialize it as Git managed.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [2 marks]

2. Configure Git with your email and username. Enter command to show valid configuration. **Note:** For *username* you **must** enter your *name* **and** your MTU *Student Number*, e.g. *Alex Good R00012345*

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [2 marks]

3. Create a text file called *lyrics.txt* in your *SD3_A_GitAsses_23* folder. Copy the first 2 lines of the song from the attached *SD3_A_SongData* file and paste into the *lyrics.txt* file. Save and close file. [2 marks]

4. Stage the initial version of *lyrics.txt* Show the status of the git repository.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [4 marks]

5. Commit the initial version of the file with a suitable message.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [6 marks]

6. Show a short log of the repository.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [4 marks]

7. Add the next 2 lines of lyrics from *SD3_A_SongData* to the *lyrics.txt* file. Save and close the file.

Stage and commit the changes to your lyrics.txt file.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response. [6 marks]

8. Repeat step 7 two more times, i.e. step 7 executed *3 times in total*.

No Screenshot.

9. Execute command to show full log of repository.

Insert a screenshot into solutions document showing command(s) executed and your system's response.   [6 marks]

10. Create a new *branch* called *extra_lines* at the Head of the repository. Switch to this branch.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response.   [4 marks]

11. Copy the next 4 lines from *SD3_A_SongData* into *lyrics.txt* file on the *extra_lines* branch. Save and close the file.

Stage and commit the changes to the repository.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response.   [4 marks]

12. Merge the *extra_lines* branch version into the *master/main* branch of your repository. Stage and commit merged changes on master/main branch.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response.   [6 marks]

13. Copy the next 2 lines from *SD3_A_SongData* into *lyrics.txt* file on the master/main branch. Save and close the file.

Stage and commit changes on the master/main branch.

Insert a screenshot into solutions document showing command(s) executed for step and your system's response.   [4 marks]

14. Show the differences between the very first commit of *lyrics.txt* and the second commit.

Insert a screenshot into solutions document showing command(s) executed and your system's response.   [4 marks]

15. Copy the next 2 lines from *SD3_A_SongData* into *lyrics.txt* file on the master/main branch. Demonstrate stashing when changing to extra_lines branch.

Insert a screenshot into solutions document showing command(s) executed and your system's response. [6 marks]

16. Return to master/main branch and recover the stashed content. Save this to *lyrics.txt*. Stage and commit these changes.

Insert a screenshot into solutions document showing command(s) executed and your system's response. [6 marks]

17. Show a complete log of your repository. Show contents of *lyrics.txt*.

Insert a screenshot into solutions document showing command(s) executed and your system's response. [8 marks]

18. Tag Head of repository as *v2.0* with message "Extended version".

Tag commit on extra_lines branch as *v1.0* with message "Radio version".

List tags in repository.

Insert a screenshot into solutions document showing command(s) executed and your system's response. [10 marks]

*** End Git Assessment! ***