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**Discipline of Information Technology,**

**Media and Communications**

**College of Arts, Business, Law and Social Sciences**

**ICT374 ASSIGNMENT 2**

**PROJECT DECLARATION**

**Group Members (full name and student number):**

**Member 1:**\_Riaz Amin\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Member 2:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Tutor’s Name:** \_Hong Xie\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Assignment Due Date: \_29/10/2021\_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date Submitted: \_29/10/2021**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Number (please tick):**

🗹Project1: A Simple Unix Shell

🞎Project2: A Simple File Transfer Protocol

🞎Project 3: A Simple HTTP Client and Server

🞎Other Project (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Your assignment should meet the following requirements. Please confirm this (by ticking boxes) before submitting your assignment.**

* All details above are completed.
* We have read and understood the Documentation Requirements of this assignment
* **This assignment submission is compliant to the Documentation Requirements.**
* The archive file (a zip file) contains the file “Assignment2.docx”
* We have included all relevant Linux source code, executables and test files in the tar archive. The file names are chosen according to the project specification.
* This archive file will be submitted to ICT374 Unit LMS.
* We have kept a copy of this assignment, including this archive file, in a safe place.
* We have completed Task Allocation and Completion Record below.
* **We have signed the Group Declaration in the next page.**

**The unit coordinator may choose to use your submission as sample solutions to be viewed by other students, but only with your permission. Please indicate whether you give permission for this to be done.**

* Yes, we are willing to have my submission without change be made public as a sample solution.
* Yes, we are willing to have my submission be made public as a sample solution, as long as my submission is edited to remove all mentions of my identity.
* No, we are not willing to have my submission made public.

**Group Declaration**

As a group assignment, each member of the group is expected to make an equal contribution to the assignment and receives the same mark for the assignment.

However, we recognise that on some occasions and due to various reasons, the actual contributions to the assignment from the members could be unequal despite the best efforts of each member. In this case, we can still accept your assignment provided that all members of the group reach an agreement on their percentages of contribution to the assignment, and the agreement accurately reflects the real contribution by each member. In such a case, a member’s mark is linked to his or her agreed contribution to the assignment and is calculated using the following formula:

A member’s mark = minimum ( group mark x the member’s percentage of contribution x 2, group mark + 10, 100 )

On some rare occasions, the two members of the group fail to reach an agreement on their contributions to the assignment. In such a case, in order for your assignment to be marked, each member of the group must complete a detailed *Task Breakdown List* and state his or her own claim of the percentage of contribution to the assignment. Your tutor will then award each member a mark based on his assessment of the quality of the assignment as whole as well as his assessment of that member’s contribution to the assignment based on the information provided.

Please complete and sign ***one*** of the three declarations below:

|  |
| --- |
| *We have made* ***equal*** *contributions to this assignment. We understand that each of us will receive the same mark for this assignment.*  Signature (member 1): \_RA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_27/10/2021\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature (member 2): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| *We have made* ***unequal*** *contributions to this assignment. The percentage of contribution by each of us is given below (note the sum of the contributions by the two members must be equal to 100%):*  Member’s name: Contribution (%):  Member’s name: Contribution (%):  *We understand that each of us will receive a mark for this assignment that is linked to our contributions to the assignment. The mark will be calculated using the following formula:*  A member’s mark = minimum ( group mark x the member’s percentage of contribution x 2, group mark + 10, 100 )  Signature (member 1): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature (member 2): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| *We are unable to reach an agreement on the percentage of our contributions to this assignment. However, in order for our tutor to be able to properly assess the work completed by each of us, each of us has completed a detailed Task Breakdown List which is included in this submission. We will accept our tutor’s determination of our contributions to this assignment.*  Signature (member 1): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature (member 2): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**2. Extensions Granted**

No extensions were requested or granted for this assignment

**3. List of Files**

Below are the list of the relevant files for the assignment.

* main.c -
* main.o -
* Makefile -
* token.h -
* token.c -
* token.o -
* command.h -
* command.c -
* command.o –

**4. Project Description**

**Project 1 - A Simple Unix Shell**

The project requires the use of more Unix systems facilities and other functions than the other two projects. It also demands good C programming skills in designing the command line parser. Therefore, the project is considered to be more difficult to implement than the other two and this will be taken into consideration during assessment. A lot can be learnt about operating systems by doing this project.

*Add brief description*

**5. Self diagnosis and evaluation**

The list of the fully functional features are as follows:

The list of the features not fully functional are as follows:

**6. Discussion of Solution**

The solution blah blah

**8. Test Evidence**

**9. Source Code Listing**