

Systems Software Report CA1

TU8??

BSc in Computer Science

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# *Functionality Checklist*

|  |  |  |
| --- | --- | --- |
| ***Feature*** | ***Description*** | ***Implemented*** |
| F1 | System Architecture including makefile | Yes or No |
| F2 | Daemon (Setup/Initialisation/Management) | Yes or No |
| F3 | Daemon (Implementation) | Yes or No |
| F4 | Backup Functionality | Yes or No |
| F5 | Transfer Functionality | Yes or No |
| F6 | Lockdown folder for Backup / Transfer | Yes or No |
| F7 | Process management and IPC | Yes or No |
| F8 | Logging and Error Logging | Yes or No |

Have you included a video demo as part of the assignment: Yes or No

Link to Video: please paste link here

Declaration

I hereby declare that the work described in this dissertation is, except where otherwise stated, entirely my own work and has not been submitted as an exercise for a degree at this or any other university.

Signed:

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<Student Name>

<Date>

# *Feature 1 - System Architecture including makefile*

Detailed description of the system architecture choices made.

How Separation of Concerns (SoC) and Single Responsibility Principle (SRP) was followed.

Architecture Diagram.

# *Feature 2 - Daemon (Setup/ Initialisation/ Management)*

Detailed description of the daemon setup:

Startup Script and init process

Daemon control options

# *Feature 3 - Daemon (Implementation)*

Detailed description of the process followed to create the background process.

# *Feature 4 - Backup Functionality*

Detailed description of the backup implementation

# *Feature 5 - Transfer Functionality*

Detailed description of the transfer implementation

# *Feature 6 - Lockdown directories for Backup / Transfer*

Detailed description of the lockdown functionality/implementation

# *Feature 7 – Process management and IPC*

Detailed description of how child processes communicate success/failure of tack to be completed to parent process etc….

# *Feature 8 - Logging and Error Logging*

Detailed description of the error and logging functionality included in the code solution.

# *Conclusion*

Summary of the implementation and achievement