

# Software year 12 task 1 logbook

## Noah Hallows

Entry 1 29/10/23

Aim: My aim today was to make an official start to my project and setup the libraries I am going to use in the major project.

Work completed:

- Started Gannt chart
- Started log book
- setup Opencv, distrobox and “face-recognition”(a python package for face recognition)

Work to be continued:

I plan to continue updating the software I have installed and my log book and gannt chart.

Issues:

Opencv doesn't provide an install guide for Arch Linux, so instead of working it out my self I have setup a Fedora Linux container.

Entry 2 31/10/23

Aim: My aim today was to get a significant amount of my defining and understanding section done

Work completed:

- DFD
- IPO diagram
- Identification of the problem
- Social and ethical issues

Work to be continued:

- Structure chart

Issues: I had difficulty finding a program to make my diagrams

Entry 3 1/11/23

Aim: To complete my context diagram

Work complete:

- Context diagram

Work to be continued:

- NA

Issues: NA

Entry 4 2/11/23

Aim: To finish my system modeling tools

Work completed:

- Strucute chart

- System flow chart
- Data dictionary
- Generation of ideas section
- Communication with others section
- Updated IPO diagram
- Selected appropriate data types
- Draft interface design
- Setup github repo to store my work

Work to be continued:

- NA

Issues: Microsoft Visio is bad, I had a bit of difficulty setting up github for the first time and for some reason the github android app doesn't let my upload files. I tried to use 'Mockups' to make my draft UI but I quickly got annoyed with it and make the smart decision to make a static website using Dreamweaver and the Bootstrap framework as the mockup UI instead.

Entry 5 3/11/23

Aim: I planned on making my pseudocode and algorithm flowchart

Work complete:

- Pseudocode
- Algorithm flow chart
- Updated gannt chart
- Updated IPO diagram

Work to be continued:

- NA

Issues: Once again I do not like Microsoft Visio and I'm not 100% sure how I will tell opencv which face to blur

Entry 6 4/11/23

Aim: I plan on completing the remaining work for my assessment

Work complete:

- Selection of software environment
- Identification of appropriate hardware
- Defining files
- Refined system flow chart
- Refined data dictionary
- Identification of potential subroutines
- Identification of appropriate test data
- Planed enabling of user feedback and update system
- Reconsideration of social and ethical issues
- More communication with others
- Management of project using tools
- Compiling all work into single document ready for submission

Work to be continued

- NA, first assessment completed

Issues: I encountered no major issues today, the libraries and language I am using have no clear minimum hardware requirements, so I had to work them out myself.

Entry 7 21/11/23

Aim: Create prototype to include in assessment

Work completed:

- The prototype is largely done; however, it doesn't search sub directories. This will be fixed in the final version

Work to be continued:

- Na

Issues: See above

Entry 8 23/11/2023

Aim: to fix minor issues in my portfolio, particularly improve the UI mock-up

Work completed:

- Improved UI mock-up
- Improved pseudo-code
- Included data structure

Work to be continued:

- Na

Issues: Due to communication from the head teacher, I realised that I had missed the section of data structures.

Entry 9 4/1/2024

Aim: To reorganise the the folder structure of my project

Work complete:

- Created python virtual environment
- Moved documentation into separate folder
- Setup modules

Work to be continued:

- NA

Issues: NA

Entry 9 5/1/2024

Aim: To create the GUI

Work complete:

- The start/data input screen is working

Work to be continued:

- Progress bar
- End screen
- Connect GUI to backend

Issues: The progress bar isn't working, it gives a X error when I try to update it from a separate thread. I may have to change UI frameworks

Entry 10 6/1/2024

Aim: Get the progress bar to work

Work completed:

- NA

Work to be continued:

- Progress bar

Issues: The progress bar still isn't working, I may rewrite in C++

Entry 11 8/1/2024

Aim: Switch to a different UI frameworks

Work completed:

- Selected PySide6 (a python port of QT6) as my UI framework

Work to be continued:

- Remake ui using pyside6

Entry 12 12/2/2024

Aim: Fix the github repository for my project

Work completed:

- Fixed git repo

Work to be continued:

- NA

Issues: Because I hadn't bothered to commit some changes the repo broke

Entry 13 13/2/2024

Aim: Get the ui to function with the backend

Work completed:

- Got main ui elements working

Work to be continued:

- Get progress bar working
- Implement input checking
- Stop ui from freezing when image processing is run

Issues: I had some issues getting the frontend and backend components to work

Entry 14 17/2/2024

Aim: Setup separate backend and frontend threads to fix multiple issues

Work complete:

- Setup multiple threads so the frontend ui doesn't freeze when backend is run
- Implemented progress bar
- Implemented some input checking

Work to be continued:

- NA

Issues: I had some trouble getting the program to be thread safe which was caused by my use of global variables

Entry 15 20/2/2024

Aim: Update the documentation

Work completed:

- Updated algorithm flow charts
- Updated gantt chart
- Updated system flow charts

Work to be continued:

- Continue updating documentation

Entry 16 29/2/2024

Aim: Finish updating pseudocode

Work completed:

- NA

Work to be continued:

- Updating pseudocode

Issues: Normal txt files don't support underlining

Entry 17 5/3/2024

Aim: Starting on the slide show

Work completed:

- Started on presentation
- Started updating data dictionary

Work to be continued:

- Presentation
- Updating data dictionary

Entry 18 12/3/24

Aim: Continue working on my presentation

Work complete:

- NA

Work to be continued:

- Presentation

Entry 19 16/3/24 – 17/3/24

Aim: Update documentation and ensure code is functional

Work complete:

- updated algorithm flow charts
- updated data dictionary
- updated pseudo-code
- re-implemented multi-threading
- make user manual

Work to be continued:

- Minor refinement of documentation

Issues: I had to re-implement the multi-threading system in my application due to issues with the way the threads were running. This caused me to have to update some of my documentation. As a result the program is significantly more stable.

Entry 20 19/3/2024

Aim: Finish documentation and presentation

Work completed:

- Presentation

Work to be continued:

- There are still some organisational changes I want to make to my documentation and files.

Issues: The marking criteria is extremely vague and only says “clarity of presentation”. This implies that I could make a clear presentation about what ever I want and still get full marks. Furthermore out of the three examples only one has a powerpoint presentation.

Entry 21 20/3/2024

Aim: Ensure all work necessary for this task is completed

Work complete:

- Updated manual
- restructured files
- minor changes to code

Work to be continued:

- NA

Issues: My application’s backend thread would continue running until it was killed from the terminal or task manager. I have fixed this issue.s