# COMP7500/7506 Lecture 15

# Project 3-3 AUbatch – Program Structure, Functions, Data Structures

**🟊: >85%, 🟊🟊: 70-85%, 🟊🟊🟊: 55-70%, 🟊🟊🟊🟊: 40-55%, 🟊🟊🟊🟊🟊: < 40%**

**🟊🟊 Exercise 1 (Program Structure):** Please design a program structure diagram from your data flow diagram. Dr. Qin’s sample DFS is given below for your reference.

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**🟊🟊 Exercise 2:** Please design the following function prototypes for the modules plotted in your data flow diagram.

**An Example:** comandline\_parser(cmdline, \*argc, \*argv).

“\*” before a parameter indicates that it’s an output parameter.

(1) scheduler();

(2) dispatcher();

(3) comandline\_parser(comandline, \*argc, \*argv).

(4) display\_job\_queue();

(5) help(); /\* help -l or help -list \*/

(6) performance\_measure();

(7) auto\_perfermance\_evaluation();

**🟊🟊🟊 Exercise 3:** Please design data structures for the parameters in the above function prototypes.

**🟊🟊🟊 Exercise 4:** Please design the algorithm for AUbatch’s main function.