Computing Intermediate Project Sections

Cover Page – find this on JC VLE

Authentication page – find this on JC VLE

1   Problem Definition

Describe the problem being programmed (about 200 – 300 words).

2   Design

2.1   Data Flow Diagram

This section should include one level 0 Context Data Flow Diagram with a brief explanation.

2.2   Classes

This section should include:
- Class diagram
- Explanation of each class including
  - data structures e.g. array list etc.
  - variables
  - methods
  - imported packages

2.3   Algorithms

Describe each method using pseudocode or a flowchart. Use both techniques i.e. describe some methods using flowcharts and some others using flowcharts.

2.4   Test Plans

This section should include the tests planned to test the program.

3   Implementation

3.1   Program Code

Print all the classes

Points:
- use indentation
- add comments to the code
- program should include:
  - primitive data types
  - variables
  - loops

- o conditional & switch statements
  - o methods with and without parameters
  - o arrays or array-lists
  - o exception handling
- credit is given to
  - o efficient algorithms (sorting, searching)
  - o re-usable and non-redundant code
  - o robustness of program
  - o user friendliness in interfaces
  - o good use of object-oriented techniques i.e. encapsulation, inheritance etc.
  - o appropriate use of files
  - o appropriate use of JAVA APIs

3.2   Testing

This section should include:
- a description explaining that the tests were performed
  - o in the case that the program still has bugs this must be mentioned in the documentation
  - o screen shots showing program execution

4   User Manual

A concise, but complete, user's manual with clear, annotated screen shots, aimed at non-technical, end users explaining how the application can be installed and used.

5   Evaluation

This is done in the form of an overall critical appraisal of the assignment, indicating whether or not the assignment goals have been reached. This should be accompanied with justification for any deviations from the original plan.

6   Conclusion and Future Improvements

This should highlight the benefits of the current system, and any areas in the assignment that could be improved in the future.