

## Suggested content for B – Solution Overview

1. Decomposition diagram (top-down)
2. Use-case diagram
3. Defining diagram (input/processing/output)
4. Systems flow chart (or data flow diagram, DFD)
5. Data dictionary
6. Test plan [Compulsory]
7. UML class diagram (initial – class name, attributes and relationships, but only essential methods → only those **other** than setters, getters, constructors, toString)
8. Pseudocode for search, sort and any validations, calculations, I/O operations required by your solution

**Remember that the Record of Tasks is also a compulsory component of criterion B.**

### Notes:

- Numbers 6 & 7 will be revisited post-development: 6 to show results of data testing and 7 to add the final complete class diagram generated by Netbeans 8 with the EasyUML plugin.
- In your CORE Computer Science textbooks, pages 35 to 39 explain system flow charts and DFDs; pages 210-217, you will find pseudocode algorithms for searching and sorting.

### Suggested software:

- Draw.io ([online](#) and [standalone desktop app](#))
- [MS Office](#) (Word, PowerPoint, Visio) or [LibreOffice](#) (Draw)
- [Visual Paradigm community edition](#) (free)
- [UMLet](#) standalone
- [StarUML](#)
- [Pencil](#)
- [Creately](#) (online)
- [LucidChart](#) (online)