Specification Document

1. **Introduction**  *- describes the goals of the project*
2. **Functional summary -** *gives a brief overview of the main functions provided to the user*
3. **Assumptions** *- states any assumptions about system use or environment*
4. **Design Objectives**  *- guidelines to prioritise between design choices that are similar (e.g. prioritise security)*
5. **Functional Requirements**
   1. **System context** *– show the boundary/interfaces with the user and other systems/networks*
   2. **Detailed requirements list** *– itemised and numbered list of every individual system requirement. These will be mapped to subsystems during design.*
   3. **Data Requirements** – specify any external data that needs to be referenced as well as local data stores that need to be kept. Use Class Diagrams to specify these.
6. **Interface Specifications** *– specify all interfaces needed, including user interfaces, database interfaces and network protocols. For user interfaces specify all screen layouts, control actions and navigation. For other interfaces, specify the interface mechanism and data exchanged.*
7. **Non-functional Requirements** *- guidelines that help eliminate design alternatives. E.g. application must run on iOS. These are essentially constraints on the design.*
8. **Quality assurance provisions**
   1. **Software test procedures** *- procedures and tools to be used to test that the software meets the design specification.*
   2. **Software validation procedures** *- procedures and tools to be used to test that the software meets the requirements specification.*
9. **Methodology Overview** *– describe the process you will use to develop your system, e.g. Agile, V-Cycle etc. List the activities performed at each stage/iteration.*
10. **Project Plan** *– detailed project plan, including work breakdown structure, precedence diagram and gantt charts.*
11. **Risks and Contingencies** - identify any risks that might exist with the project and detail your contingency plans should any risk arise.

**Report 1 = Items 1-11,**

**Report 2 = Items 1-19**

1. *System Architecture*
2. *Subsystem 1 Design*
3. *Subsystem 2 Design…..*
4. *Interface 1 Design*
5. *Interface 2 Design……*
6. *Data Design*
7. *Test Cases*
8. *System Packaging*