**\*\* This document contains the general outline that you should adopt for your Functional Specification \*\***

**Table of contents**

A table of contents with pages numbers indicated for all sections / headings should be included.

**1. Introduction**

**1.1 Overview**  
Provides a brief overview of the system / product to be developed. It should include a description of the need for the system, briefly describe its functions and explain how it will work with other systems (if appropriate).

**1.2 Business Context**  
Provides an overview of the business organization sponsoring the development of this system / product or in which the system / product will / could be deployed. *Note - may not be applicable to all projects*

**1.3 Glossary**  
Define and technical terms used in this document. *Only include those with which the reader may not be familiar.*

**2. General Description**

**2.1 Product / System Functions**  
Describes the general functionality of the system / product.

**2.2 User Characteristics and Objectives**  
Describes the features of the user community, including their expected expertise with software systems and the application domain. Explain the objectives and requirements for the system from the user's perspective. It may include a "wish list" of desirable characteristics, along with more feasible solutions that are in line with the business objectives.

**2.3 Operational Scenarios**  
This section should describe a set of scenarios that illustrate, from the user's perspective, what will be experienced when utilizing the system under various situations.

In the article Inquiry-Based Requirements Analysis (IEEE Software, March 1994), scenarios are defined as follows:  
In the broad sense, a scenario is simply a proposed specific use of the system. More specifically, a scenario is a description of one or more end-to-end transactions involving the required system and its environment. Scenarios can be documented in different ways, depending up on the level of detail needed. The simplest form is a use case, which consists merely of a short description with a number attached. More detailed forms are called scripts.

**2.4 Constraints**  
Lists general constraints placed upon the design team, including speed requirements, industry protocols, hardware platforms, and so forth.

**3. Functional Requirements**

This section lists the functional requirements in ranked order. Functional requirements describes the possible effects of a software system, in other words, *what* the system must accomplish. Other kinds of requirements (such as interface requirements, performance requirements, or reliability requirements) describe *how* the system accomplishes its functional requirements.

As an example, each functional requirement could be specified in a format similar to the following:

* **Description -** A full description of the requirement.
* **Criticality -** Describes how essential this requirement is to the overall system.
* **Technical issues -** Describes any design or implementation issues involved in satisfying this requirement.
* **Dependencies with other requirements -** Describes interactions with other requirements.
* **Others as appropriate**

**4. System Architecture**

This section describes a high-level overview of the anticipated system architecture showing the distribution functions across (potential) system modules. Architectural components that are reused or 3rd party should be highlighted.

**5. High-Level Design**

This section should set out the high-level design of the system. It should include one or more system models showing the relationship between system components and the systems and its environment. These might be object-models, DFD, etc.

**6. Preliminary Schedule**

This section provides an initial version of the project plan, including the major tasks to be accomplished, their interdependencies, and their tentative start/stop dates. The plan also includes information on hardware, software, and wetware resource requirements.

The project plan should be accompanied by one or more PERT or GANTT charts.

**7. Appendices**

Specifies other useful information for understanding the requirements.