Functional Requirements Specification

**Project Name:** Ton Tycoon - Phase 2 Expansion  
**Version:** 1.0  
**Prepared by:** IT Business Analyst Team

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Revision History

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| **Name** | **Date** | **Changes** | **Version** |
| IT BA Team | 18/04/2025 | Initial Draft | 1.0 |
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# Introduction

## Purpose

<Identify the product whose functional requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this FRS, particularly if this FRS describes only part of the system or a single subsystem.>

## Document Conventions

<Describe any standards or typographical conventions that were followed when writing this FRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>

## Requirement Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here. An FRS that specifies the next release of an evolving product should contain its own scope statement as a subset of the long-term strategic product vision.>

## References

<List any other documents (BRD, SRS) or Web addresses to which this FRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>

# Overall Description

## Product Perspective

<Describe the context and origin of the product being specified in this FRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the FRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>

## Product Features

<Summarize the major features the product contains or the significant functions that it performs or lets the user perform. Details will be provided in Section 3, so only a high level summary is needed here. Organize the functions to make them understandable to any reader of the FRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or a class diagram, is often effective.>

## User Classes and Characteristics

<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the favored user classes from those who are less important to satisfy.>

## Operating Environment

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.>

## Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the FRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>

# Functional Requirements

## Context

*<Provide a context diagram of the system, with explanations as applicable. The context of a system refers to the connections and relationships between the system and its environment.>*

## Data/User Flow Diagrams

*<Provide a diagram if applicable. Otherwise, it can be added later during the development phase>*

## Functional Requirements

### [Module 1 or Requirement 1*, i.e FR-001, depending on whether this document is for the whole product or specifically for a requirement*]

*<Itemize the detailed functional requirements associated with this feature. Remember to describe details of Data Retention (the length of time various forms of data must be retained and the requirements for its destruction), Error Handling, Validation Rules, etc where necessary.>*

### [Module 2 or Requirement 1]

# Nonfunctional Requirements

## Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

## Safety Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied.>

## Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

## Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>