**FUNCTIONAL SPECIFICATIONS TEMPLATE**

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Description automatically generated with medium confidence**

**FUNCTIONAL SPECIFICATIONS**

**Joseph M. Evan I. Shayan S. Emma M.**

**00/00/0000**

**Version 0.0.0**

| VERSION HISTORY | | | | |
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| VERSION | APPROVED BY | REVISION DATE | DESCRIPTION OF CHANGE | AUTHOR |
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**Functional Specifications Document**

**Authorization Memorandum**

I have carefully assessed the Functional Specifications Document for the < PROJECT NAME >.

MANAGEMENT CERTIFICATION - Please check the appropriate statement.

\_\_\_\_\_\_ The document is accepted.

\_\_\_\_\_\_ The document is accepted pending the changes noted.

\_\_\_\_\_\_ The document is not accepted.

We fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized.

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NAME DATE

Project Manager

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NAME DATE

Director

*Add other names and roles as necessary.*

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# INTRODUCTION

Provide an overview of the entire Functional Specifications Document including the purpose, scope, definitions, acronyms, abbreviations, references, etc.

## Purpose

*Describe the purpose of the Functional Specifications Document. What is its intended use and audience? Why is it being created?*

## Reference Documents

*List any reference documents or sources of information that were used to develop the functional specifications. This could include project requirements documents, design documents, standards, or external sources.*

## Abbreviations and Acronyms

*Define any abbreviations or acronyms used throughout the document to ensure clarity and consistency in communication.*

## Document Conventions

*Specify any conventions or formatting guidelines that should be followed when creating or reviewing the document. This could include naming conventions, formatting styles, or citation formats.*

# GENERAL DESCRIPTION

## Product Context

*Describe the broader context in which the product will operate. This could include the industry or market sector, existing systems or technologies, and any relevant background information.*

## User Classes and Characteristics

*Identify the different types of users who will interact with the product and describe their characteristics, needs, and expectations. This could include end users, administrators, or other stakeholders.*

## Overview of Functional Requirements

*Provide a high-level overview of the functional requirements that the product must fulfill. What are the key features and functionalities that users expect from the product?*

## Overview of Data Requirements

*Summarize the data-related requirements of the product. What types of data will be collected, stored, processed, or transmitted by the system?*

## Operating Environment

*Describe the environment in which the product will operate. This could include hardware platforms, software dependencies, network configurations, and any other relevant factors.*

## General Constraints, Assumptions, Dependencies, Guidelines

*Identify any constraints, assumptions, dependencies, or guidelines that may impact the development or deployment of the product. This could include budget constraints, timeline dependencies, or regulatory requirements.*

## Design and Implementation Constraints

*Specify any constraints or limitations related to the design and implementation of the product. This could include technical limitations, compatibility requirements, or architectural constraints.*

## User Documentation

*Describe the documentation that will be provided to users to help them understand and use the product. This could include user manuals, tutorials, help guides, or online documentation.*

# REQUIREMENTS

## External Interface Requirements

### User Interfaces

*Describe the user interfaces that will be part of the product. This could include graphical user interfaces, command-line interfaces, or other forms of interaction.*

### Hardware Interfaces

*Specify any hardware interfaces that the product must support or interact with. This could include compatibility with specific devices, sensors, or peripherals.*

### Software Interfaces

*Describe the communication protocols or standards that the product must adhere to for data exchange or interoperability. This could include network protocols, data formats, or messaging systems.*

### Communications Interfaces

## Functional Requirements

### Template for functional requirements

* **Purpose / Description:** *Clearly define the objective or goal of the requirement.*
* **Inputs:** *Describe the input data or information required to fulfill the requirement.*
* **Processing:** *Explain the processing or actions that the system must perform to meet the requirement.*
* **Outputs**: *Specify the expected outputs or outcomes of the requirement.*

## Performance Requirements

*Define any performance criteria or benchmarks that the product must meet. This could include response times, throughput, scalability, or resource usage.*

## Security

*Specify the security requirements and measures that must be implemented to protect the product and its data from unauthorized access, manipulation, or breaches.*

## Usability

*Describe the usability requirements that the product must meet to ensure an intuitive and user-friendly experience. This could include accessibility, navigation, or interface design considerations.*

## Other Requirements

*Identify any other requirements that are not covered by the previous sections. This could include legal or regulatory requirements, performance warranties, or industry standards compliance.*

1. Analysis Models

List any attached / referenced documentation such as data flow diagrams, class diagrams, state-transition diagrams, entity-relationship diagrams, etc.

| ANALYSIS MODELS | | |
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| DOCUMENT NAME | DESCRIPTION | LOCATION |
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1. Issues List

Detail any unresolved issues.

| ISSUES LIST | | |
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| ISSUE ID | ISSUE DESCRIPTION | STATUS |
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