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# <JOSHSIAH: BOARDING HOUSE MANAGEMENT SYSTEM>

## NON-FUNCTIONAL REQUIREMENTS DEFINITION

Version <1.0>

<10/04/2023>

*Please note that the content of this Non-Functional Requirements Definition document is subject to change as the project evolves, and it does not constitute a legally binding contract.*

## VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Arjay Manacap	09/21/2023	Axel Sebastian Narciso	09/25/2023	Initial Non-Functional Requirements Definition draft

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# **1 INTRODUCTION**

## **1.1 PURPOSE OF THE NON-FUNCTIONAL REQUIREMENTS DEFINITION**

The purpose of this Non-Functional Requirements Definition document is to outline the technical and operational requirements that must be met by the Boarding House Management System. These non-functional requirements are essential for ensuring the system's reliability, performance, security, and maintainability. They serve as a foundation for system design and development and will guide the project team throughout the development process.

# **2 BUSINESS REQUIREMENTS OVERVIEW**

## **2.1 ASSUMPTIONS / CONSTRAINTS**

- The Boarding House Management System will be developed for use in the Philippines and will adhere to local regulatory requirements and standards.
- The system will be designed to support a reasonable number of concurrent users, with scalability considerations for future growth.
- Boarding house owners will provide necessary hardware infrastructure for system installation and operation.

# **3 NON-FUNCTIONAL REQUIREMENTS**

## **3.1 HARDWARE REQUIREMENTS**

- Database Server: A separate database server with adequate resources to ensure database performance and data integrity.
- Network Infrastructure: Stable and secure network infrastructure to support real-time data synchronization and access.
- Client Devices: Support for a variety of client devices, including desktop computers or laptops

## **3.2 SOFTWARE REQUIREMENTS**

The software requirements for the Boarding House Management System include:

- Operating System: The system will be compatible with Windows.
- Database Management System: The system will utilize a robust and scalable database management system (e.g., MySQL or PostgreSQL) for data storage.
- Web Application Framework: The system will be developed using a modern web application framework.
- Compatibility: The system must be compatible with commonly used web browsers such as Chrome, Firefox, Safari, and Edge.

## **3.3 PERFORMANCE REQUIREMENTS**

Performance requirements for the system include:

- Response Time: The system must respond to user requests within two seconds on average.
- Scalability: The system should be able to handle a minimum of 100 concurrent users without significant degradation in performance.

- Data Throughput: The system must support a minimum of 1000 transactions per minute.
- Availability: The system should have an uptime of at least 99% during business hours.

### **3.4 SUPPORTABILITY REQUIREMENTS**

Supportability requirements include:

- Coding Standards: Adherence to coding standards and best practices for maintainability.
- Documentation: Comprehensive documentation for system administrators and users.
- Maintenance Access: Provision for remote system maintenance and updates.
- Backup and Recovery: Regular data backups and a robust disaster recovery plan.

### **3.5 SECURITY REQUIREMENTS**

Security requirements encompass:

- Data Encryption: Encryption of sensitive data in transit and at rest.
- Access Control: Role-based access control to restrict unauthorized access to system functions and data.
- Regular Security Audits: Periodic security audits and vulnerability assessments.

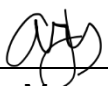
### **3.6 AVAILABILITY REQUIREMENTS**


- Hours of Operation: The system should be available 24/7 for user access.
- Downtime Impact: Planned maintenance downtime should be minimized and communicated to users in advance.
- Support Availability: Technical support should be available during business hours and for critical issues on a 24/7 basis.


*Non-Functional Requirements Definition Approval*

The undersigned acknowledge they have reviewed the [<JoshSIAH: Boarding House Management System > Non-Functional Requirements Definition](#) and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

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