Contents

[1. Introduction 1](#_Toc151835790)

[1.1 Purpose 1](#_Toc151835791)

[1.2 Document conventions 1](#_Toc151835792)

[1.3 Project scope 1](#_Toc151835793)

[1.4 References 1](#_Toc151835794)

[2. Overall description 1](#_Toc151835795)

[2.1 Product perspective 1](#_Toc151835796)

[2.2 User classes and characteristics 1](#_Toc151835797)

[2.3 Operating environment 1](#_Toc151835798)

[2.4 Design and implementation constraints 1](#_Toc151835799)

[2.5 Assumptions and dependencies 1](#_Toc151835800)

[3. System features 1](#_Toc151835801)

[3.x System feature X 1](#_Toc151835802)

[3.x.1 Description 1](#_Toc151835803)

[3.x.2 Functional requirements 1](#_Toc151835804)

[4. Data requirements 1](#_Toc151835805)

[4.1 Logical data model 1](#_Toc151835806)

[4.2 Data dictionary 1](#_Toc151835807)

[4.3 Reports 1](#_Toc151835808)

[4.4 Data acquisition, integrity, retention, and disposal 1](#_Toc151835809)

[5. External interface requirements 1](#_Toc151835810)

[5.1 User interfaces 1](#_Toc151835811)

[5.2 Software interfaces 1](#_Toc151835812)

[5.3 Hardware interfaces 1](#_Toc151835813)

[5.4 Communications interfaces 1](#_Toc151835814)

[6. Quality attributes 1](#_Toc151835815)

[6.1 Usability 1](#_Toc151835816)

[6.2 Performance 1](#_Toc151835817)

[6.3 Security 1](#_Toc151835818)

[6.4 Safety 6.x [others] 1](#_Toc151835819)

[7. Internationalization and localization requirements 2](#_Toc151835820)

[8. Other requirements 2](#_Toc151835821)

[Appendix A: Glossary 2](#_Toc151835822)

[Appendix B: Analysis models 2](#_Toc151835823)

# **1. Introduction**

## **1.1 Purpose**

The purpose of this Software Requirements Specification (SRS) document is to outline the detailed requirements for the Hostel Management System (HMS), version 1.0. The HMS is designed to streamline and automate various aspects of hostel operations within an educational institution or similar facility. This document serves as a guide for both the development team and stakeholders, providing a comprehensive understanding of the functionality, constraints, and features expected in the HMS.

The scope of this SRS encompasses the entire Hostel Management System, detailing its core functions, user interactions, and external interfaces. It is intended to act as a reference for the development team to implement, test, and deliver a system that meets the specified requirements. Any subsequent revisions or releases will be documented separately.

This SRS specifically addresses the software requirements for the entire HMS; however, it may not cover the broader institutional management system unless explicitly stated. It is crucial for stakeholders to recognize the limitations and focus on the functionalities related explicitly to hostel management.

Stakeholders involved in the development and usage of the Hostel Management System include hostel administrators, staff, and residents. Additionally, this document is designed to provide clarity for quality assurance teams, project managers, and other individuals involved in the development life cycle.

## **1.2 Document conventions**

## **1.3 Project scope**

The Hostel Management System (HMS) is a software solution designed to automate and streamline hostel management processes in educational institutions, aiming to enhance administrative efficiency by centralizing tasks such as room allocation, registration, attendance tracking, and communication. The system's primary objectives include developing a user-friendly interface, ensuring data security, and improving the overall user experience for administrators, staff, and residents. Through automation, the HMS contributes to increased operational efficiency, reduced errors, and enhanced communication channels, aligning with the institution's commitment to providing a well-managed living environment for students.

## **1.4 References**

# **2. Overall description**

## **2.1 Product perspective**

## **2.2 User classes and characteristics**

## **2.3 Operating environment**

## **2.4 Design and implementation constraints**

## **2.5 Assumptions and dependencies**

# **3. System features**

## **3.x System feature X**

## **3.x.1 Description**

## **3.x.2 Functional requirements**

# **4. Data requirements**

## **4.1 Logical data model**

## **4.2 Data dictionary**

## **4.3 Reports**

## **4.4 Data acquisition, integrity, retention, and disposal**

# **5. External interface requirements**

## **5.1 User interfaces**

## **5.2 Software interfaces**

## **5.3 Hardware interfaces**

## **5.4 Communications interfaces**

# **6. Quality attributes**

## **6.1 Usability**

## **6.2 Performance**

## **6.3 Security**

## **6.4 Safety 6.x [others]**

# **7. Internationalization and localization requirements**

# **8. Other requirements**

## **Appendix A: Glossary**

## **Appendix B: Analysis models**