Software Requirements Specification

for

Online DDU Hostel Management System

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The Software Requirements Specification (SRS) will provide a detailed description of the requirements for the Hostel Management System (HMS).This SRS will allow for a complete understanding of what is to be expected of the HMS to be constructed. The clear understanding of the HMS and its' functionality will allow for the correct software to be developed for the end user and will be used for the development of the future stages of the project. This SRS will provide the foundation for the project. From this SRS, the HMS can be designed, constructed, and finally tested.

1.2 Document Conventions

<Describe any standards or typographical conventions that were followed when writing this SRS, 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.>

1.3 Intended Audience and Reading Suggestions

This document is intended for developers ,projectmanagers ,marketingstaff ,testers and documentation writers only. This document has all the information related to the product and it is sequenced as per the life cycle of the product. All readers should start reading from the beginning of this document where developers should focus more on functional requirements ,marketing staff on key features and documentation writers on all the information regarding the product**.**

1.4 Product Scope

The product DDU hostel management System is meant for all hostel boys students and administrator by decreasing manual human effort. This system is limited for DDU college students only.

1.5 References

1.IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications.
2.Software Engineering by Rogers Pressman.

2. Overall Description

2.1 Product Perspective**

Existing System and other Hostel Management System need lots of efforts and consume enough time, hence our System provides better and efficient hostel management System by avoiding the problems which occur when work is carried manually.

2.2 Product Functions

- System provides Registration for new Students who want accommodation based on college ID.
- System accommodates a room to student based on student's choice and availability of room.
- System enables Student to register their complaints.
- System enables Administrator to update the notice column.
- System updates the mess menu details on daily basis.

2.3 User Classes and Characteristics

- *Administrator - He has rights to handle the System by managing the user records and daily activities.*
- *User- He is a Student who can view his own details.*

2.4 Operating Environment

The product is an online system so it works on all operating system as well as on all mobile phones provided it has an internet access. All the devices must have browser applications for accessing the system.

2.5 Design and Implementation Constraints

- The System restricts the registration to 120 users only on first come first served.
- The System allows only DDU college student to register.
- The System doesn't provide any refund for cancellation of admission once registered.

2.6 Assumptions and Dependencies

3. External Interface Requirements

3.1 User Interfaces

<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>

3.2 Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.>

3.3 Software Interfaces

<Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications. Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way (for example, use of a global data area in a multitasking operating system), specify this as an implementation constraint.>

3.4 Communications Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

4. System Features

4.1 System requires registration for new user

- i/p:user-credentials
- o/p:registration-flag
- description: System takes user credentials as input and returns registration –flag

4.1.1 System takes user credentials..

- i/p : user-credentials
- o/p:user-credential- flag
- description :System takes user credential and return user-credential flag true if all user- credential are provided by user else false

4.1.2 System provides categories of room

- i/p:room-category
- o/p:room-alloted
- description: System takes input as room category & returns a list of available room and user select room from available room list

4.1.3 System asks for payment

- i/p:payment-type
- o/p:payment-confirm
- descript: System takes payment-type as input and returns payment-confirm for payment completion of selected room

4.1.4 System confirm the registration

- i/p:user-credential ,payment-confirm
- o/p:registration-flag
- descript: System checks user-credential & payment-confirm flag ,if both true then set registration flag true else error

4.2 System provides login

- i/p:login-credential
- o/p:login-successful
- description: System takes login-credentials as input & set login-successful true if credentials are validated

4.3 System can update user record

- i/p: user-detail
- o/p:updated-detail
- descript: System takes user-details as input & makes updated-detail true

4.3.1 System can update user information

- I /p: user-detail
- o/p:updated-detail-flag
- descript: System takes user-details as input & makes updated-detail-flag true

4.3.2 System can update expense list of user

- i/p:expense-details
- o/p:updated -expense
- description: System takes expense type &amount & sets expense-updated flag true by updating or adding expense or penalty

4.3.3 System updates mess details

- i/p:mess-menu
- o/p:mess-menu-updated
- descript: System updates mess menu on daily basis & sets mess-menu-updated true

4.3.4 System updates canteen expense

- i/p:food-order
- o/p:expense-updated
- descript: System updates user expense by taking order as input & set expense-updated true

4.4 System provides complaint box for user

- i/p:user-complaint
- o/p:admin-response
- description: System takes user complaint as input &then admin can give response to their complaint..

4.5 System display notice board to user

- i/p-admin-update
- o/p:notice-board
- descript: System updates notice board & user can check updated notice

4.6 System deletes the record for check out user

- i/p:user-request
- o/p:record-deleted-flag
- descript: System deletes the record for user , makes room-slot empty who requests for checkout

5. Other Non-Functional Requirement

- **System provides laundry facility**
- **System provides library management**