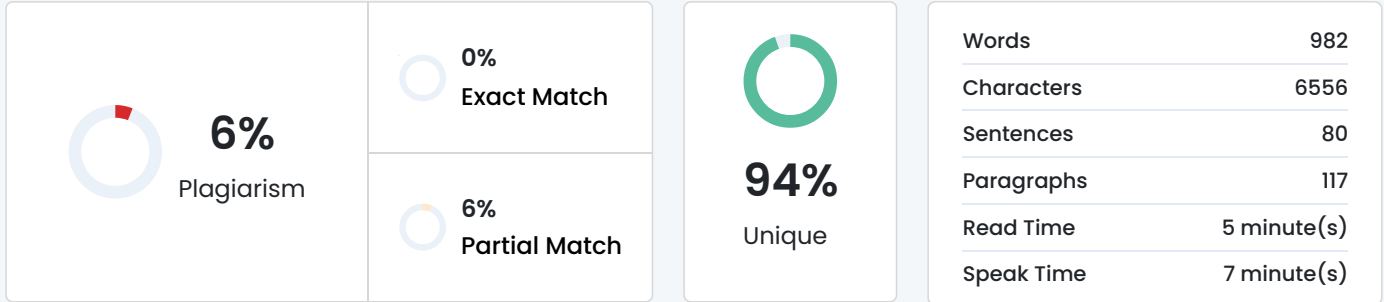


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Chapter 2

Software Requirement Specification

This chapter describes the software requirement specification of my application.

2.1 Introduction

2.1.1 Purpose

This chapter's goal is to give an overview of the web application for the hall management system. It describes the system's main attributes and capabilities as well as system features, functional and non functional requirements, user scenario and operating environment.

2.1.2 Document Conventions

The document uses the following conventions.

Table-2.1: Document Conventions

Short Form Abbreviation

DB Database

CS Comparative Studies

ER Entity Relationship

OS Operating System

SQL Structured Query Language

VS Code Visual Studio Code

HMS Hall Management System

JUST Jashore University of Science and

Technology

SRS Software Requirement Specification

2.2 Overall Description

2.2.1 Domain Analysis

The current hall management system is manual, students need to submit an application and submit all documents manually, which leads to delays and also results in errors. The proposed hall management system aims to digitalize these tasks, such as providing any notice regarding hall and room allocation for students.

2.2.2 Product Features and Prioritization

This section explains the key features of the Hall Management System (HMS)

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1. Normal Requirements: Normal requirements consist of the fundamental objectives, goals, and minimal functionality agreed by university and hall authority. For hall management system,

- For students: Login, view notices, apply for seat online, update profiles, and track applications.
- For admins: Approve/reject applications, manage students, publish notices, sched-

ule viva for each event of hall seat allocation, allocate rooms, manage department information, manage hall notices.

- For super-admin: Manage admin accounts and all the feature that admin account have.

2. Expected Requirements: Expected requirements cover those fundamental which needs to prevent dissatisfaction if absent. The expected requirements of this project are:

- Internet accessibility to enable users to connect remotely.
- Mandatory email verification for students.
- Secure login and logout functions for all user roles.
- A centralized, reliable database to store and manage application records and seat allocations.
- Password change functionality along with clear, appropriate error messaging to guide users in case of issues.
- A mobile responsive design to ensure access from various devices.

2.2.3 User Characteristics

The system supports three types of user privileges : student, admin, and super admin.

Student: The student is the primary user who interacts with the system for their hall seat allocation and also for getting any notice regarding hall. The student should be able to do the following:

- View available hall vacancies and read published notices regarding application deadlines, viva schedules, and room and seat allocations results.
- Register an account, log in securely, and update personal information as needed but need the administrator's approval.
- Submit hall seat applications along with required documents through an online submission form.
- Check the status of their application.

Admin: The admin is responsible for managing user management and the overall hall allocation process. The admin should be able to :

- Verify and validate student registration.
- Publish and update any notice regarding the hall.

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- Review and verify student applications applying for a seat in the hall, including uploaded documents, and update application statuses accordingly.
- Schedule and manage interviews (viva sessions) to verify applicants for hall seat eligibility.
- Allocate rooms and seats based on interview results and application data.

Super Admin: The super admin oversees the entire hall management system. The super admin should be able to:

- Verify and validate student and admin registration.
- All the process done by admin can also be done by super admin and he can also manage admin accounts.

2.2.4 User Scenario

The user story provides clarity on the roles, responsibilities, and actions. Below are detailed user stories for each class of user:

- As a student :

He/she can register in the system if he/she doesn't have the account. For registration, there are two-factor authentication options available. After admin's approval the student can log in using email and password. View and update their information but need the admin's approval. The student can view hall seat vacancy notices, apply for a hall seat, track the status of the application through the online platform.

- As an admin:

He/she can register in the system if he/she doesn't have the account. After super admin's approval, the admin can log in using email and password. He/she can log in to the system and access his/her dashboard. The admin can publish notices related to hall seat availability and also any other notices. Furthermore, the admin is responsible for

reviewing student applications, user management, scheduling interviews, and allocating rooms and seats based on the evaluation of applicants.

- As a super admin:

He/she can log in to the system and manage all administrative functions. The super admin has the ability to manage admin and user accounts and manage the entire hall management process.

2.2.5 Operating Environment

Hall Management System is developed to run on a versatile and robust operating environment that ensures flexibility, scalability, and cross-platform compatibility. The following components constitute the core operating environment for this application:

- Operating System: Windows, Linux, MacOS.
- Database: MySQL.

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- Frontend Technologies: HTML, CSS, JavaScript, Bootstrap, jQuery.
- Backend Technologies: PHP.
- Development Tools: Visual Studio Code.

2.3 System Features

2.3.1 User account creation and management

This section handles the registration, authentication, and role-based access control for all users of the system. It ensures secure account management for students, admins, and super admins.

- The system shall allow users (students, admins) to register with necessary details.
- The system will validate user-provided credentials during registration and login.
- The system will allow users to update their personal information.
- The system will allow password reset functionality via email.
- The system will allow admins to enable or disable student accounts and also allow super admin to enable or disable student accounts.

Matched Source

Similarity 2%

Title: Rules, Regulations & Procedures – Morgan State University

Students must attend each mandatory floor/ hall meeting called by an authorized agent of the Office of Residence Life or University. NOISE All residents and...Missing: goals, functionality

<https://www.morgan.edu/residence-life-and-housing/policies-and-procedures/rules-regulations-procedures>

Similarity 2%

Title: Schedule a town hall in Microsoft Teams

After your town hall is published, attendees will automatically receive the email invite and updates about any changes to the event. Troubleshooting. What do...Missing: notice | Show results with:

<https://support.microsoft.com/en-us/office/schedule-a-town-hall-in-microsoft-teams-d493b5cc-9f61-4dac-8027-d837dafb7a4c>

Similarity 2%

Title: Require admin approval for device access – Google Help

Check the Require admin approval box. Enter an email address to get notifications when users enroll their devices and require approval before they can access...Missing: notice | Show results with:

<https://support.google.com/a/answer/7508418%3Fhl%3Den>

