

Software Requirements Specification (SRS)

Introduction

The purpose of this document is to specify the requirements of the School Management System (SMS), which is designed to streamline and automate various administrative and academic processes within a school.

Scope

The School Management System will cover key functionalities including student enrollment, attendance tracking, grade management, teacher assignment, and communication between stakeholders such as students, parents, teachers, and administrators.

Definitions, Acronyms, and Abbreviations

- SMS: School Management System
- SRS: Software Requirements Specification
- Admin: System Administrator

Product Perspective

The SMS will be a standalone system interacting with external databases for student and staff information. It should be compatible with modern web browsers and mobile devices.

Core Features

1. Student Management:
 - Enroll students.
 - Maintain student records including personal information and academic history.
2. Attendance Tracking:
 - Record and monitor student attendance.
 - Generate reports on attendance for students and teachers.
3. Results Management:
 - Allow teachers to input and manage grades.
 - Generate report cards for students.
4. Teacher's Information:
 - Assign teachers to classes and subjects.
 - Track teacher schedules.
5. Communication:
 - Enable communication between students, teachers, and parents.
 - Notifications for important events.

Additional Features

1. Library Management:
 - Manage library inventory.
 - Allow students to check in/out books.
2. Examination System:
 - Schedule and manage examinations.
 - Publish exam results.
3. Financial Management:
 - Manage school fees and financial transactions.

User Classes and Characteristics

- Admin:
 - Has full access to all features.
 - Manages user roles and permissions.
- Teachers:
 - Manages class information, attendance, and grades.
- Students:
 - Access personal academic information.
- Parents:
 - Monitors a child's academic progress.

Specific Requirements

External Interface Requirements

User Interfaces

- Intuitive and user-friendly interfaces for all user classes.
- Responsive design for mobile access.

Hardware Interfaces

- Compatible with standard computers and mobile devices.
- Requires internet connectivity.

Software Interfaces

- Integration with external databases for student and staff information.

Functional Requirements

Enrollment

- Admin can add new students, including personal details and enrollment information.

Attendance Tracking

- Teachers can mark daily attendance for each student.
- System generates attendance reports for students and teachers.

Grade Management

- Teachers can input and update grades for students.
- System generates report cards.

Teacher Assignment

- Admin assigns teachers to classes and subjects.

Communication

- Messaging system for communication between students, teachers, and parents.
- Notification system for important events.

Library Management

- Admin manages library inventory.
- Students can check in/out books.

Examination System

- Schedule and manage examinations.
- Publish exam results.

Financial Management

- Manage school fees and financial transactions.

Other Requirements

Performance

- The system should be able to handle a minimum of 500 simultaneous users.

Documentation

- Comprehensive user manuals and system documentation.

Training

- Training sessions for administrators, teachers, and support staff.

Legal and Compliance

- Compliance with data protection and privacy regulations.

This template provides a structured framework for capturing the essential aspects of a School Management System. Make sure to customize it based on the specific needs and context of your school.