**Software Requirements Specification**

**for**

**School Management System**

**Prepared by**

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**1.1) Purpose :**

The student,admin,faculties,employee of students are very busy now days, so they can’t monitoring their children and them activities a properly and regularly. This school management system helps the student,admin,faculties,employee monitor their children from anywhere. They can check their children's academic performance from a remote location.as well as this software will make the work easy and study for the teachers and student to fetch ,update information of their respective need.

**1.2 Scope :**

E-School Management System is comprehensive web-based School Management

Software. It will design for better interaction between students, teachers, student,admin,faculties,employee & management.

**1.3 Definitions, Acronyms and Abbreviations :**

This document is formed using IEEE SRS format, headings are in bold capital letters and wherever necessary diagram is provided.

**1.4 References** :

--Software Engineering a Practitioner’s Approach by Roger

S. Pressman

--Class Power Point presentation slides.

--For technical perspective, JAVA Doc/PHP Doc.

--For Database, www.oracle.com

**1.5 Overview :**

Rest of this document contains General

Descriptions, General Constraints Specific Requirements etc.

1. **General Description :**

Client (Browser)

End User

Web Server

(

School Management System

)

Database

(

Like Student,Parent & Teacher Profile

)

Figure: 2.1 Conceptual Architecture of the System.

* 1. **Product Function Summary :**

The Characteristics of “**School Management System**” are as follows...

* + - This application is intended to Student,admin,faculties,employee of the

student .

* + - Every student,admin,faculties,employee of student gets the Login Id & password at the time of addmission of the student in the school.
    - Student,admin,faculties,employee can Check their childs performance, also they can check attendence of their child in the school.
    - Student,admin,faculties,employee are able to see progress & Online Result of their child.
    - Student,admin,faculties,employee can see fee structure, Syllabus & homework or assignments & tutorials given to student.
    - They can get Timetable & schedule of Exam.
    - Also can be able to see Various Notice Board.
    - Also they gets Holiday list & school bus details.
    - Student,admin,faculties,employee will get receive a e-mail from school about their student progress-summary by weekly/monthly.
  1. **User Characteristics :**

**Students:** They are the people who studying in the school.

**Teacher:** They are persons who teach a different subject **Admin/Principal**: He/They is/are the person who handle all over management of the school.

* 1. **General Constraints :**
     + Technology Constraints:

Proposed web application can be

implemented with c++ for front end design purpose & For the database purpose, we can opt forfile handling of c++

* + - Interface Constraints:

Since, this is a Web based application so it

should work on major browsers like Internet explorer, Mozilla Firefox, Google Chrome, Opera etc.

* + - Safety and Security Constraints:

Since, application is intended for the

authenticated users only, so anonymous person should not be able to access and operate over the user data.

1. **External Interface Requiremen ts :**
   1. **User Interface**:

Since this is a Web based application so it

should provide a very User friendly interface. It should be easy to navigate without any learn curve involved. A decent and pleasant appearance with ease of navigation should helps to users.

* 1. **Software Interface:**

The communication between client and server

is asynchronous. This will help to handle a large amount of users simultaneously. The portal should support all major web browsers that will make it convenient for the user to access our system with ease. The back- end i.e. the database services will be used to a great extent and hence it will be quiet efficiently designed.

* 1. **Hardware Interface:**

The hardware requirement at the user end is

really simple and the Portal will be available on the hardware that can run a basic simple browser, provided the hardware should be competent enough during peak times for the web servers.

### 4. OTHER NONFUNCTIONAL REQUIREMENTS

**4.1 Performance Requirements :**

As mentioned earlier, the portal should be able

to operate on all major web-browsers with all of its fundamental functions . It should not slow-down the system even at peak hours without affecting the quality of service of the system.

**4.2 Security Requirements :**

The system should provide a secure login to

the users by using advanced secure login algorithms and provide access only to the authorized users as security is the key requirement of this system. This system uses a database application, hence the 'Weak Authentication' threat should be taken care of.

**4.3 Software Quality Attributes :**

**System should be-** ➢ Consistent in performance

* Safe and Secure
* Robust
* Scalable
* Flexible
* User friendly
* Efficient
* Inter-operable ➢ Upgradable
* Available all the time.