Software Requirements Specification

for

School Management System

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1. Introduction

1.1 Purpose

The SRC is an overview of the whole project scenario. The actual aim of SRC is to represent all the necessary details and project requirements. The purpose of the project is to is to integrate the administration of the course by providing information on the following in a user friendly manner to its four different

1.2 Product Scope

Our Project is a major tool through which we will be able to manage the process by making a continuous communication between headmaster, teacher, parents and student. So in order to achieve that goal, we need a Website that covers the needs of all users at the same time. For Students, they can view their subject's grades, contact the headmaster and teachers for any complaint, recommendation or an absence permission. For Teachers, they can add student's grades or edit it for their own subjects only, and they have a direct connection with students and their parents .For Parents, they have an access for their wards grades without any possibility to edit on it, and they can directly contact teachers and headmasters. All the system users can publish whatever they need within the educational process on the last updates section, and these posts are visible for all the users.

1.3 References

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[2] S. R.Bharmagoudar, Geeta R.B and S.G. Totad, "Web based student management system.", Andra Pradesh, vol.2 June 2013. (base paper)

[3] D. Zhibing Liu, Huixia Wang, Hui Zan "Design and implementation of student information management system." 2010 International Symposium on intelligence information processing and trusted computing.

[4] M.A.Norasiah and A.Norhayti “Intelligent student information system.”, 4th International conference on telecommunication technology proceedings. Shah Alam, Malaysia, 0-7803-7773-7/03 2013 IEEE

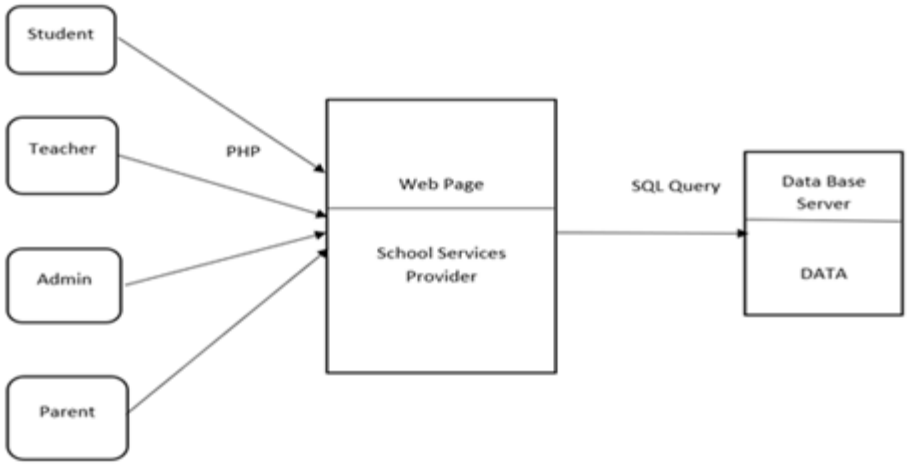
[5] CAI Chang-an, WaNG Qi, “Design and implementation of student information management system based on B/S model”, computer engineering and design, Beijing, 2012.

2. Overall Description

2.1 Product Perspective

This project contains the admin, teacher, parent and student side. Admin can manage students, Fees, teachers, classes, subjects, academic calendars. Teachers' role is to mark attendance, upload the marks, worksheets, teaching content, class recordings and give feedback of students to their parents. Student role is to view their marks, attendance, view teaching content, academic calendar, and write blogs. Parent role is to view their child's performance, give feedback about the school, and view the child fee structure.

School management system is a web enabled application developed in PHP and a powerful MYSQL database backend. To implement a School management system application, it does not need expensive hardware and software, they just need an internet connection and desktops. Our system works as a centralized database and application that schools can easily access the system from anywhere based on the login credentials.



2.2 Product Functions

- students ,parents and teacher should be able to create an account.
- Teacher can post course material.
- Students can view the material and attendance.
- Teacher can evaluate the submitted assignments.
- Teacher can post and modify the grades of the students.
- Student can view their grades.
- Parents can view the attendance and performance of the students.

2.3 User Classes and Characteristics

Students should be able to login, navigate through the website and use the basic functionalities of the software.

The instructor/teacher should also be able to login, navigate through the website. Apart from this they should be able to use more complex functionalities of the software.

2.4 Operating Environment

This software can be used on desktop platform.

The device from which the website is being accessed must have a browser and must have an Internet connection.

2.5 Design and Implementation Constraints

Some of the users of this software will not have high-end computers or devices with which to access this module. Therefore, we must take into account processing and Internet speed limitations when designing the system.

2.6 Assumptions and Dependencies

- We assume that the school management system shall be able to access and store data in any Data Base Management System (DBMS) through the standard interface mySQL. provided by development environment.
- School Management System shall run on various platforms and be able to communicate with its subsystems via Internet.

3. External Interface Requirements

3.1 User Interfaces

The user must have a basic Internet connection to be able to use the website for uploading materials,uploading attendance, uploading grades, accessing course materials, etc.

The information of each user is being stored in a database with the help of php.

3.2 Hardware Interfaces

The website can be accessed from a PC or a Desktop computer.

3.3 Software Interfaces

The user must have a basic Internet connection to be able to use the website for uploading materials, uploading grades,uploading attendance, accessing course materials, etc.

The information of each user is being stored in a database with the help of php.

3.4 Communications Interfaces

The means of communication used in this product is a message tool.

4. System Features

4.1 Functional Requirements

Home Page:

- Users should be able to have a glance of the school that should include about us, contact us and gallery.
- Users Should be able to download the admission form online.

Admin

- Create, edit and delete student accounts.
- Create, edit and delete teacher accounts.
- Create, edit and delete parent account.
- Post tasks or any updates for users (Teacher, Student, and Parent).
- Store, edit, delete, calendar and print student's grade.
- Add Classes and Subjects and connect them with the subject’s teachers.

Teacher

- Enter Student's grades per Subject.
- Enter Student’s attendance.
- Post tasks or any updates for Students.

Student

- View their grades and download the marksheet.
- View Attendance, events.
- Student's can download Study materials.

Parent

- View the grades and feedback.
- View the attendance of their child.
- View events in the school.

5. Nonfunctional Requirements

Non-functional requirements define the needs in terms of performance, logical database requirements, design constraints, reliability, availability, security, maintenance, and portability.

5.1 Performance Requirements

Performance requirements define acceptable response times for system functionality.

- The load time for user interface screens shall take no longer time.
- The log in information shall be verified.
- The system shall consume very little of primary memory.

5.2 Software Quality Attributes

5.2.1 Reliability

Software should be working properly without failure in any condition and in any operating system.

5.2.2 Availability

The software shall be available 24*7.

5.2.3 Maintenance

The School Management System software is being developed in php. php is a scripting language and can is easy to maintain.

5.2.4 Portability

This software should be able to installed in any operating system i.e the School Management System software shall run in any Microsoft Windows environment.