

Software Requirements Specification

for

SCHOOL MANAGEMENT SYSTEM

Prepared by Vintha Sai Vamsi Krishna Reddy

Yarlagadda Sai Koushik

NAVODAYA PUBLIC SCHOOL

10-10-2018

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

This SRS Document includes the complete software requirements for the School Website and describes the design decisions, architectural design. It also provides the visibility in the design and the information needed for website. New reliable and interactive website with great customer interface and support.

1.2 Document Conventions

*There were some different typographical conventions followed while making this documentation the **BOLD FONT** used in between the document will be mentioning about the main layers in the project and the **BOLD UNDERLINED FONT** will be used for mentioning about the usage of languages in the project.*

1.3 Intended Audience and Reading Suggestions

This document is targeted for developers, project managers, marketing staff, users, testers, and documentation writers. This documentation will be containing of the version list of the project and the revised parts of the project.

1.4 Product Scope

*Online Website is developing for **NAVODAYA PUBLIC SCHOOL** used to replace old paper work system like updating the upcoming events and any circulars ton announce will be displaying on the website in order to provide information efficiently .*

1.5 References

Online SRS documentations:

<https://www.scribd.com/document/56660861/School-Management-System>

<https://www.bartleby.com/essay/School-Management-F3YYKCY436YYS>

2. Overall Description

2.1 Product Perspective

These days the world in modifying day by day many things got changed. Internet had became one of the important tool. In this circumstances very thing is being digitalized. There were many websites which are user friendly but some websites are not so, being computer engineers

we had decided to build upon a user friendly website for a school this will reduce paper work for school and give publicity on the internet platform about the school.

2.2 Product Functions

The main Characteristics of School Management System will be :

- *This application is intended to anyone. Anyone can access to the website and can know all the details of the school and also can get any quieres clear about the about the school.*
- *In this application the Login is intended also to Parents and Teacher of the student.*
- *Every parent will be given a unique Login Id & password at the time of admission of the student in the school.*
- *Parents can check the performance, also they can check timetable of their child in the school.*
- *Parents can see fee structure of their ward.*
- *Also can be able to see Notice Board.*

2.3 User Classes and Characteristics

- a) Administrator: In aspect of the public admin will create all the details of the school regarding fees, academics, infrastructure and all details.*
- b) Parents and user: In this website anyone can know all the details they want to know about the school.*

2.4 Operating Environment

This software package is expected to work in the following environment

- 1) Microsoft stack consisting of*
 - a) Windows 10*
 - b) html, CSS, JavaScript.*
 - c) MYSQL, PHP*

2.5 Design and Implementation Constraints

This is designed to have a better reach in parents and students about school without any physical visit to school. One admin can connect through any number of students and parents and also to reduce the paper publicity done by the school.

2.6 User Documentation

- a) *This software package will come with a user manual as a guide to its interface actions.*
- b) *The details of the Analysis, Design and test cases will be delivered along with this project.*

2.7 Assumptions and Dependencies

- *The user should have a minimal knowledge about usage of computers.*
- *The computer should have a better Internet connection.*
- *The user must know the English language, as the user interface will be provided in English.*

3. External Interface Requirements

3.1 User Interfaces

The components will be using in this website are FRONT END ELEMENTS like Navigation structure, page layout, contents, login, and BACK END ELEMENTS like php, mysql and it will be a user friendly interface.

3.2 Hardware Interfaces

For using this website a person must have a computer with internet and being a website it doesn't require any special versions of software it will accessible to any device connected to internet. The data in this site will be covering all about the school.

3.3 Software Interfaces

The communication between client and server will be simultaneously . This will help to handle a large amount of users simultaneously. This portal should support all major web browsers 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.

3.4 Communications Interfaces

The HTTP protocol will be used to facilitate between the client and the server

4. System Features

No	Feature	Priority
1	Home	A
2	About us	A
3	View Fee Structure	A
4	View Staff	A
5	View Achievements	A
6	View Recent Activities	A
7	View Gallery	A
8	View Contact us	A
9	View Reviews	A
10	Login	A
11	View Timetable	A
12	View Marks	A
13	View Student Profile	A
14	View Fee Details	A
15	Write Reviews	A
16	Update Timetable	A
17	Update Student Profile	A
18	Update Marks	A
19	Update Fee Details	A

4.1 Home

4.1.1 Description and Priority

This home feature contains the the home page of the website. By clicking the home button the user can directly go into the home page which contains all the other features

4.1.2 Stimulus/Response Sequences

This is for user. Anyone can get into the website and select the option called home and they will directed into a page where they can get the whole information of the school.

4.1.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the home page.

4.2 View About us

4.2.1 Description and Priority

This About Us feature provides the complete description of the school about when did the school established and about the journey of the school till now and will show the founders of the school

4.2.2 Stimulus/Response Sequences

This is for user. Anyone can get into the website and select the option called About Us and they will directed into a page where they can get the whole information of the school.

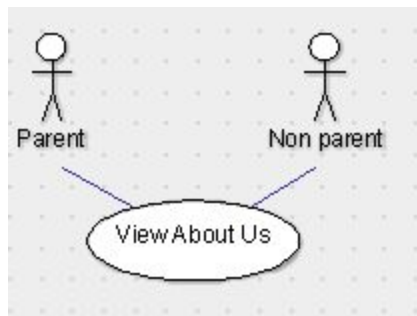
4.2.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the About us page.



4.3 View Fee Structure

4.3.1 Description and Priority

This feature includes the details of fees structure of various classes in the school and what would be the fees if they get any scholarship and how can they pay through Installments.

4.3.2 Stimulus/Response Sequences

This feature can be used by the user. User can go to fees detailed by getting into website and it will redirect into a page where they will get whole details of a fees structure.

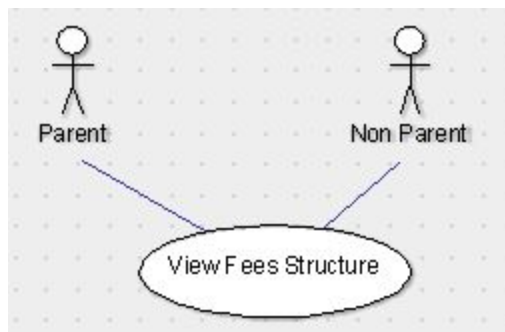
4.3.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Fees page



4.4 View Staff

4.4.1 Description and Priority

This feature contains the details of the staff working in the school and the qualifications of the staff and the contact details of the staff

4.4.2 Stimulus/Response Sequences

This feature is for user. User should get into the website and can select the option of staff and a page would be redirected where they can get the details of all the staff working in the school.

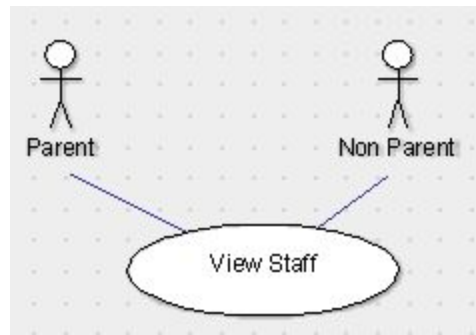
4.4.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Staff page.



4.5 View Achievements

4.5.1 Description and Priority

This feature contains all the Achievements done by the school in the past about the results they got in the exams and the awards they got

4.5.2 Stimulus/Response Sequences

This feature is for user. User should get into the website and can select the option of achievements and a page would be redirected where they can know all the achievements of the school

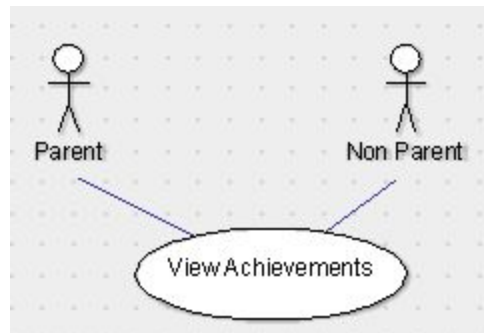
4.5.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the achievements page



4.6 View Recent Activities

4.6.1 Description and Priority

This Recent Activities contains all the events that are recently happened in the school and all the details of that activities happened recently

4.6.2 Stimulus/Response Sequences

This feature will be used by the user. In this the user will get into the website and can select the Recent activities that will redirect a page which contains the details of the activities.

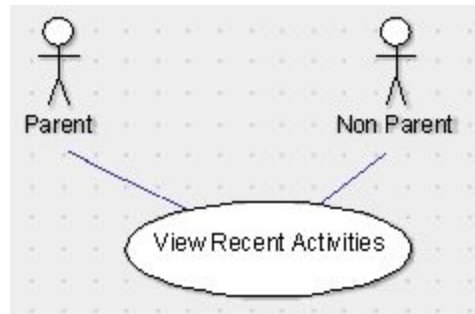
4.6.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Recent activities page.



4.7 View Gallery

4.7.1 Description and Priority

This Gallery feature contains all the photos of various points of school such as labs, ground and all the activities going on the school

4.7.2 Stimulus/Response Sequences

This feature will be used by the user. In this the user will get into the website and can select the Gallery that will redirect a page which contains the images of the school and all the activities going in the school

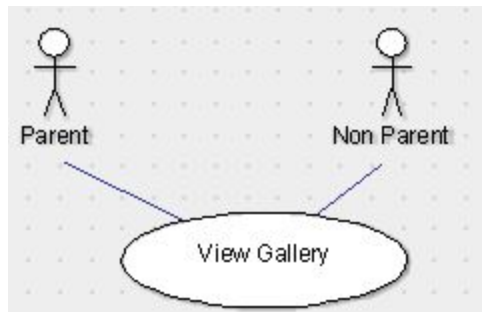
4.7.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Gallery page.



4.8 View Contact Us

4.8.1 Description and Priority

This contact us feature contains the contact details of the school .This contain school phone numbers and mail address and also the address of the school.

4.8.2 Stimulus/Response Sequences

This feature will be used by the user. In this the user will get into the website and can select the Contact Us that will redirect a page which contains the contact details of the school and their mail address

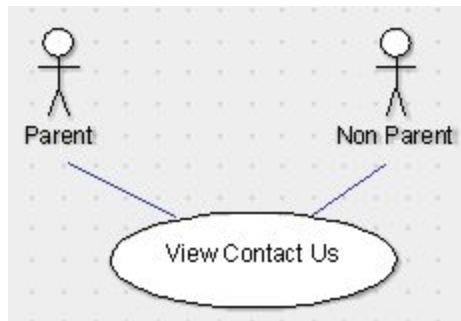
4.8.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Contact Us page.



4.9 View Reviews

4.9.1 Description and Priority

This reviews feature contains the reviews of parents . Any user can read all the reviews given by parents about the school

4.9.2 Stimulus/Response Sequences

This feature will be used by the other user. In this the user will get into the website and can select the reviews that will redirect a page which contains the feedback form which they can read all the reviews

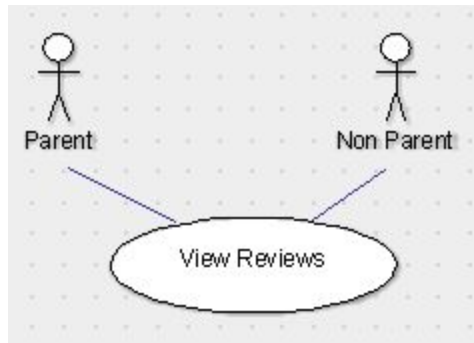
4.9.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should get into the website before getting into the Feedback page



4.10 Login

4.10.1 Description and Priority

This login feature will be shown on the website where parent can login into the website where they can see the performance of their child and by logging into the website the administrator can update the all details of the student. This Login feature contains a Id and Password

4.10.2 Stimulus/Response Sequences

This feature will be used by both the parent and the administrator where parent can see the performance of the child and the administrator can update all the details of the student studying in the school. The login will be failed if the parent have not entered the correct details

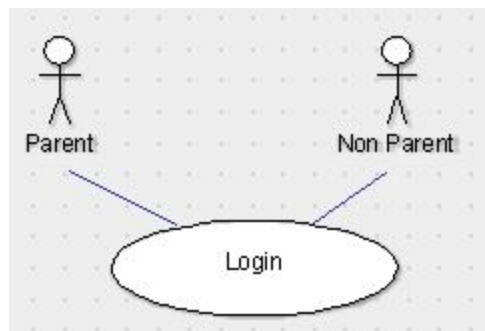
4.10.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The parent should enter correct details to log into the website.



4.11 View Time table

4.11.1 Description and Priority

This time table feature contains the student time table where parent can see the whole time table of the student.

4.11.2 Stimulus/Response Sequences

This feature will be used by the parent. Parent has to log into the website where they will be shown some options in that the parent has to select Time table in order to see the time table of the student

4.11.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The user should login first in order to get the time table of the student.



4.12 View marks

4.12.1 Description and Priority

This view marks feature contains the marks of the student studying in the school. Parent can login into the website and can see the marks of the student.

4.12.2 Stimulus/Response Sequences

This feature will be used by the parent. where parent can see the marks of the student got in the exams student had to log into the website and can see the marks of the student

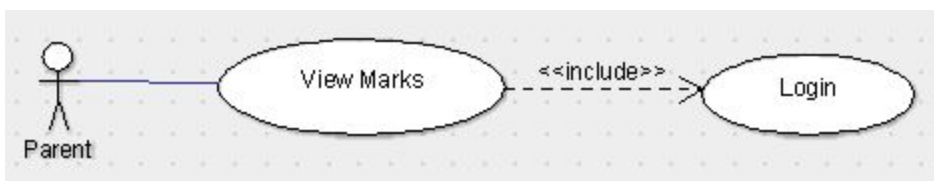
4.12.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The parent should enter correct details in the login to see the marks of the student.



4.13 View Student Details

4.13.1 Description and Priority

This student details contains the details of the student studying in the school. Parent can log into the website and can see Student Details.

4.13.2 Stimulus/Response Sequences

This feature will be used by the parent. The parent has in get into the website and has to login by the entering the correct details. By that parent can see the profile of the student studying in the school.

4.13.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The parent should enter correct details in the login to see the details of the student.



4.14 View Student Fees

4.14.1 Description and Priority

This fees details contains the fees of the student where parent can see the whole amount of paid fees and the balance amount of fees.

4.14.2 Stimulus/Response Sequences

This feature will be used by the parent. The parent has in get into the website and has to login by the entering the correct details. By that parent can see the fees details of the student studying in the school.

4.14.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The parent should enter correct details in the login to see the fees details of the student.



4.15 Write Reviews

4.15.1 Description and Priority

This review feature contains the option to write a review about the school by a parent. Parent can log into the website and can write the reviews about the school.

4.15.2 Stimulus/Response Sequences

This feature will be used by the parent. The parent has to get into the website and has to login by entering the correct details. By that parent can write the reviews about the school according to their wish.

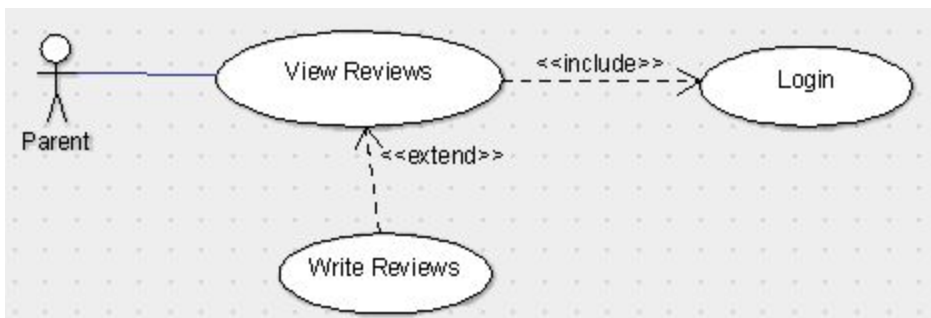
4.15.3 Functional Requirements

REQ-1: The user should have proper internet connection

REQ-2: User should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website

REQ-4: The parent should enter correct details in the login to write the reviews about the school.



4.16 Update Time table

4.16.1 Description and Priority

This time table feature contains the student time table. This function is not available to the user. This helps to update timetable by the administrator.

4.16.2 Stimulus/Response Sequences

This feature will be used by the admin. Admin can update the timetable and publish.

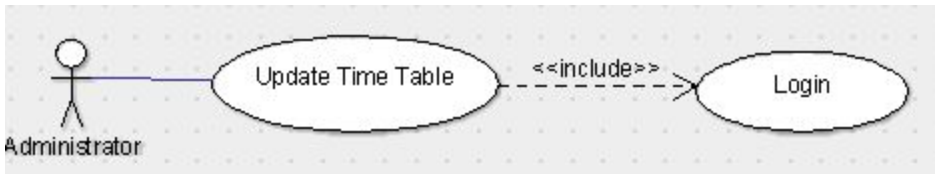
4.16.3 Functional Requirements

REQ-1: The admin should have proper internet connection

REQ-2: Admin should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website.

REQ-4: The admin should login first in order to update the time table of the student.



4.17 Update Student Profile

4.17.1 Description and Priority

This Student Profile feature contains the student Profile. This function is not available to the user. This helps to update Student Profile by the administrator.

4.17.2 Stimulus/Response Sequences

This feature will be used by the admin. Admin can update the Student Profile and publish.

4.17.3 Functional Requirements

REQ-1: The admin should have proper internet connection

REQ-2: Admin should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website.

REQ-4: The admin should login first in order to update the of the student.



4.18.1 Update Marks

4.18.1 Description and Priority

This Student feature contains the student Profile. This function is not available to the user. This helps to update marks by the administrator.

4.18.2 Stimulus/Response Sequences

This feature will be used by the admin. Admin can update the Student Profile and publish.

4.18.3 Functional Requirements

REQ-1: The admin should have proper internet connection

REQ-2: Admin should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website.

REQ-4: The admin should login first in order to update the marks of the student.



4.19.1 Update Fee Details

4.19.1 Description and Priority

This Student Profile feature contains the student Profile. This function is not available to the user. This helps to update fee details by the administrator.

4.19.2 Stimulus/Response Sequences

This feature will be used by the admin. Admin can update the fee details and publish.

4.19.3 Functional Requirements

REQ-1: The admin should have proper internet connection

REQ-2: Admin should have browser to access to the website

REQ-3: The user should have some minimum knowledge about Internet and how to get into the website.

REQ-4: The admin should login first in order to update the fee details of the student.



5. Other Non-Functional Requirements

5.1 Performance Requirements

As mentioned earlier, the portal should be able to run on all major browsers with all fundamental functions. It should not slow down the system at peak hours without making any difference in the quality of service provided by the system.

5.2 Safety Requirements

If there is extensive damage to the database due to sudden failure, such as a database misinterpretation or disk crash, the recovery method restores a past copy of the database that was backed up to storage and reconstructs the same database as of previous one. We will use Prepared Statement which will prevent sql injections.

5.3 Security Requirements

The system should provide a secure login to the users and provide authentication to only authorised users as security is the fundamental requirement of this system. This system will have database integration , hence the weak authentication threat should be taken care of.

5.4 Software Quality Attributes

System should be-

- *Consistent in performance*
- *Safe and Secure*
- *Scalable*
- *Reliability*
- *Flexible*
- *User friendly*
- *Efficient*
- *Upgradable*
- *Available all the time.*

5.5 Business Rules

The parents can login and check their ward's performance and fee details and admin can update things like marks, fees timetable and student profile. Besides this any user can access to this website to get the knowledge about the school.

6. Other Requirements

Appendix A: Glossary

All Requirements were mentioned above.

Appendix B: Analysis Models

Appendix C: To Be Determined List

USE CASE DIAGRAM:

