

USER REQUIREMENT DOCUMENT

SMART ATTENDANCE MANAGEMENT SOFTWARE

DETAILS OF THE TEAM MEMBERS:

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Introduction:

This document provides the information about the system Smart Attendance Management Software includes all the features and functions needed to efficiently manage a student performance. The system provides the performance of a student and his status.

Purpose:

The purpose of this document is to gather the requirements that are needed for implementing the smart attendance management system. The purpose of SAMS tool is to provide student performance to Student & Teacher. The system keeps records of student performance along with associated each subject are well maintained in database . The administrator can easily track the progress of the each student and teacher in the system.

Intended Audience:

The Intended audience will be the Teachers and Students.

Teachers: Teacher who can provide the performance of the student.

Student: Student who can track their progress of the Academics

Stakeholders:

>>Teachers
>>Student

Product Vision:

Vision Statement:

The product vision is to develop an online website, which is helpful to Students for getting information about Attendance percentage.

Technologies:

HTML,CSS,JAVASCRIPT,REACT JS,NODE JS,EXPRESS JS,SQL,FLASK,PYTHON LIBRARIES

System in Context:

CONTEXT DIAGRAM

User Characteristics:

The Users are typical computer users and mobile users. The users are familiar with using internet.

Constraints:

>> Any teacher wants to provide attendance to the student, they must login/sign up into the website.

>> Any student want to check their progress,they have to login into the website.

System-Wide Requirements:

Actors:

The system interacts with four kinds of users. Each user has own functions to access with system. The functionalities of user are dependent on each other.

Events:

CSMS Tool is a multi-user system which provides the help to users.

The most critical events are:

- 1)Teacher wants to update/modify the progress of the students, they must have to login / signup the website.
- 2)Teacher controls the progress of the student.
- 3)Database need to maintain well. Calculate the accurate results from the database
- 4)Students can track their progress.
- 5)Visualizations are displayed to both teachers and students, according to their request

The below table provides a set of use visible events that defines the functionalities that are in SAMS.

S.NO	ACTOR	ACTION	OBJECT	RESPONSE
1	Teacher	Opens	Login in Webpage	Page opens it asks credentials to login /sign up. After login it will display the event details/match details.
2	Student	Opens	Login in Webpage	Page opens it asks credentials to login /sign up. After login it will display the

				event details/match details.
3	Teacher	Modify	Manipulate Attendance	Maintain the progress of the students.
4	Students	Retrieve	Progress visibility	Students can track their progress.
5	Database	Maintains	Storing credentials	It can store the Student and Teacher credentials when login into website.
6	Database	Maintains	Storing progress	When teacher provides information about students, it stores.
7	Database	Displays	Provides progress	It will store the information of student with respect to Roll Number, who login into the database to track their progress for each subject.
8	Visualization	Displays	Pictorial Representation	It retrieves the student data from database, provides the graphical representation

Functional Requirements:

Use case Overview:

S.NO	USECASE ID:	USECASE NAME:	PRIORITY	STABILITY	VERIFIABILITY
1	UC_SAMS_LOGIN	User Login/Sign up	High	Stable	Verifiable
2	UC-SAMS_VUN	Validate User Name	High	Stable	Verifiable
3	UC-SAMS_VP	Validate Password	High	Stable	Verifiable
4	UC-SAMS_DSP	Display Student Progress	High	Stable	Verifiable
5	UC-SAMS_AA	Admin Access	High	Stable	Verifiable

USE CASE DIAGRAM

Use case Specifications:

1.UC_SAMS_LOGIN:LOGIN

Use case ID:UC_SAMS_LOGIN:	Use-Case Name: LOGIN
Description	Student login into website for tracking their progress Teacher login into website for updating/Modification of student performance
Pre-Conditions	Students and Teacher must give his credentials correctly
Success guarantee: (post-condition)	After login Teacher and Student can view the respective dashboard accurately
Main Success Scenario: (basic flow)	1.Teacher can access the system 2.They can select the batch and section of the student. 3.They can update/modify the progress of the student
Extensions : (Alternate flow)	If teacher or student give wrong /mismatched credentials a. The system prompts the teacher or student to fill/check the details again
Frequency of occurrence	High
Frequency of use:	High

2.UC_SAMS_VUN:Validate User Name:

Use case ID:UC_SAMS_VUN	Use-case Name: validate username
Description:	In login, user have to enter their names
Pre-Conditions	Registration has been done with that name
Success guarantee: (post-condition)	After successfully registration, he/she login into the system.
Main Success Scenario:	1.Registartion,he/she redirects to login

(basic flow)	After page 2.In login page, user must be enter valid username 3,user have to give appropriate credentials 4.if not he/she not login into the system
Extensions : (Alternate flow)	If he/she are give wrong username then the system prompts to check the username again
Frequency of occurrence:	High
Frequency of use:	High

3.UC_SAMS_VP:Validate Password

Use case ID:UC_SAMS_VP:	Use case Name: Validate Password
Description:	In login, user have to enter their names, and password
Pre-Conditions	Registration have to be done with that name and password
Success guarantee: (post-condition)	Registration have to be done with that name
Main Success Scenario: (basic flow)	1.Registration, he/she redirects to login after homepage 2.In login page ,user must be enter valid username 3.user have to give appropriate credentials 4.If he/she not login into the system
Extensions : (Alternate flow)	If he/she are given wrong password then the system prompts to set the correct password again/check the password again.
Frequency of occurrence:	High
Frequency of use:	High

4.UC_SAMS_DSP:DISPLAY STUDENT PROGRESS

Use case ID:UC_SAMS_DS:	Use case Name: Display Student Progress
Description:	After login of the student, will display the performance.
Pre-Conditions	The student performance need to calculate accurately
Success guarantee: (post-condition)	Showing the accurate result and pictorial representations to the students
Main Success Scenario: (basic flow)	The match details will be visible to the spectator
Extensions : (Alternate flow)	Manager has to visible correct match details

Frequency of occurrence:	High
Frequency of use:	High

5.UC_SAMS_AA:Admin Access

Use case ID:UC_SAMS_SS:	Use case Name: Admin Access
Description:	After login of the Teacher,Showcase teacher dashboard
Pre-Conditions	Validate the Teacher credentials and choose the appropriate batch and section of the students.
Success guarantee: (post-condition)	Teacher can successfully provide, modify and monitor the student progress details.
Main Success Scenario: (basic flow)	Teacher can track the particular student progress.
Extensions : (Alternate flow)	If Teacher doesn't select the batch and section ,it alerts the teacher..
Frequency of occurrence:	High
Frequency of use:	High

Non-Functional Requirements:

Reliability:

Users should get appropriate information about his performance and specifies the probability of software performing without failure for a specific number of users or amount of time.

Usability:

This platform should has user friendly GUI. Users can use it effectively.

Availability:

Users should get information 24x7.

Accessibility:

This tool support multi user accessing. Any user can access the system from

different places to use the tool.

Performance:

User should have fast access to get the information from the help center.
User should retrieve the information from help center database very quickly.

Security:

As it is a web based application it should be more secure.

Platform Compatibility:

This has to work on any kind of operating system without modifying

THE END