

User Requirement Document

Attendance Management System

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Introduction:

This document has the requirements of Attendance Management tool. The AMS tool is used by Class Representatives . By using the AMS Tool, It provide an interface to the students to mark their attendance and interact with lecturers.

Purpose:

The purpose of this document is to gather the requirements that are needed for implementing the Attendance Management Tool. It also focuses on various key features such as asking doubts about the subjects to the lecturers. The purpose of AMS tool is to provide on-line solutions to students and lecturers in maintaining Attendance.

Intended audience:

The intended audience will be the students and lecturers who want to get on-line attendance and Queries about the studies.

Stakeholders:

Client: Class Representative – Name of CR

Users: Students or Lecturers or administration who use the AMS Tool

Product Vision

Vision Statement:

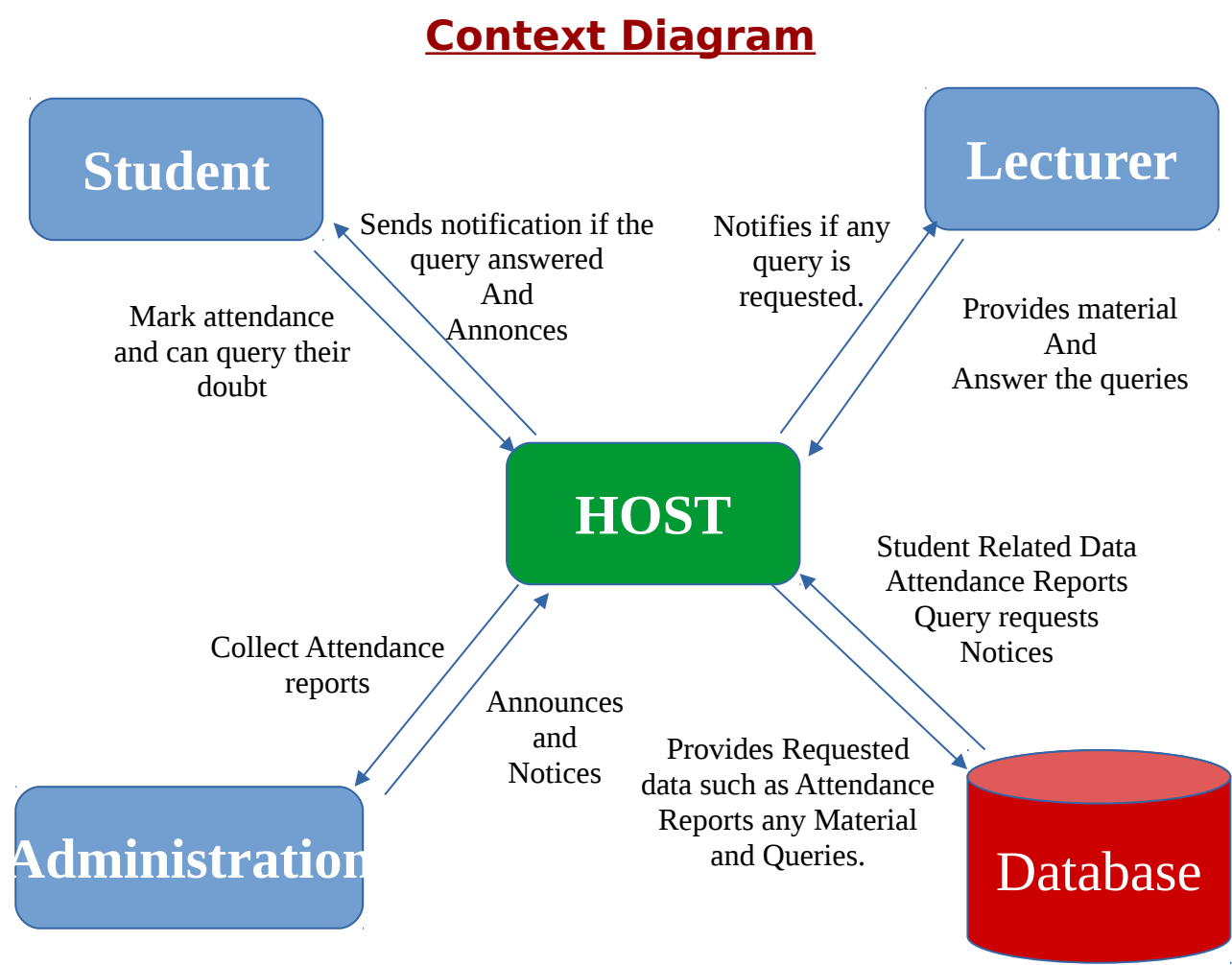
The product vision is to develop a AMS Tool, which is user friendly and easily accessible. This AMS Tool helps to Students to mark their daily attendance and querying about their doubts to the lecturers and also It helps to administration to gather the report of attendance .

Technologies:

HTML, JAVA Servelets,PHP,MySQL, JAVA SCRIPT and Glass-Fish or Tomacat Server or XAMPP.

System in Context:

AMS Tool is a multi user system which provides online solutions to given problem for students and also to mark attendance. It takes query request from student and provide query id to student. It assigns query request to lecturer. It provides status of the query request to student, lecturer and administrator. It allows administrator and lecturer to change query request status.



User Characteristics:

The users are typical computer users.

System Wide Requirements(Received)**Actors:**

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

Events:

AMS is a multi user system ,which provides help to the students.

The most critical events are:

1. First of all Student has to login into the website for marking their attendance and asking queries.
2. Administration sends if any student's attendance is less than the required attendance.
3. Lecturer provides the material needed to the students.
4. Lecturer can also do any kind of registration forms for the students.
5. Lecturer can chat with the student and make their doubts clarify.
6. Administration can make any announcements if needed.

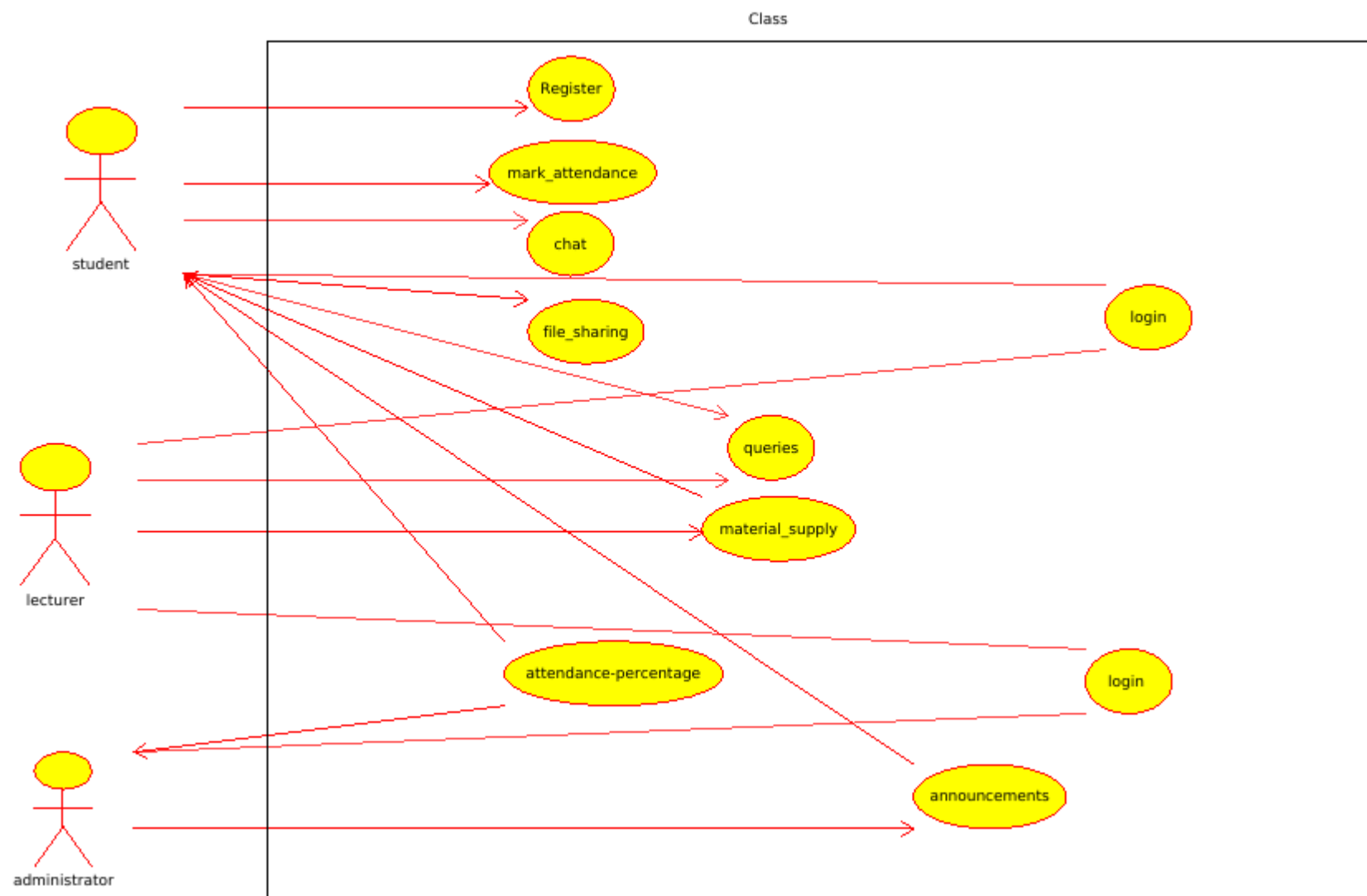
S.NO	Actor	Action	Object	Frequency	Arrival pattern	Response
1.	Student	opens	Web page	1/day	Episodic	Page open links for Login,Register
2.	Student	selects	Login page	1/day	Episodic	Shows User login Form.
3.	student	Register	Register Page	1/day	Episodic	Got a form for registration to the class database.
4.	Student	selects	Mark Attendance Link	1/day	Episodic	He/She can mark attendance for that respective period.
5.	Student	selects	Attendance Percent Link	1/day	Episodic	It shows attendance percentage of him.
6.	Student	selects	Query Link	1/day	Episodic	Forwards to the query forum for submitting queries.
7.	Student	selects	Chat Link	1/day	Episodic	Can chat with the reamining students and with the lecturers too.
8.	Student	Select	File Share Link	1/day	Episodic	Provides interface to share files to alla the students.
9.	Lecturer	Selects	Queries Link	1/day	Episodic	Provide interface to answer the query asked.
10.	Lecturer	sends	Files or Material	1/day	Episodic	It makes the lecturer to provide material to all the students.
11.	Lecturer	selects	Chat Lik	1/day	Episodic	Can chat with the students.
12.	Administration	selects	Announcements Link	1/day	Episodic	Administration can circulate any anounces to all the students.
13.	Administration	Attendance percentage	Att. Percentage Link	1/day	Episodic	It can view all the students attendance percentage.
14.	Administration	sends	warning	1/day	Episodic	Sends notification to students whose Att. Percentage is less than required.

Funtional Requirements:

Use case overview:

s.no	Use-case ID:	Use-case name:	priority	stability	verifiability
1.	UC-AMS-SR	Student_Register	High	Stable	Verifiable
2.	UC-AMS-SL	Student_Login	High	Stable	Verifiable
3.	UC-AMS-SMA	Student_Mark_attendance	High	Stable	Verifiable
4.	UC-AMS-SQ	Student_Query	High	Stable	Verifiable
5.	UC-AMS-SC	Student_Chat	Moderate	Stable	Verifiable
6.	UC-AMS-SFS	Student_File_Sharing	Moderate	Stable	Verifiable
7.	UC-AMS-SCA	Student_Check_Attendance	High	Stable	Verifiable
8.	UC-AMS-LL	Lecturer_Login	High	Stable	Verifiable
9.	UC-AMS-LQ	Lecturer_Query	High	Stable	Verifiable
10.	UC-AMS-LMS	Lecturer_Material_Supply	High	Stable	Verifiable
11.	UC-AMS-AL	Administration_Login	Hogh	Stable	Verifiable
12.	UC-AMS-AA	Administration_Announcements	High	Stable	Verifiable
13.	UC-AMS-AAP	Administration_Attendance_Percentage	High	Stable	verifiable
14.	UC-AMS-ANS	Administration_Notify_Students	High	Stable	verifiable

Use Case diagram:



Use case Specifications:

1. UC-AMS-SR:Student_Register

Use-case ID:UC-AMS-SR:	Use-case name: Student_Register
Discription:	1.student must view the university website. 2.student must fill the all details.
Pre-conditions	Student login with user name and password.
Success guarantee (post-condition)	Student will get a success message with registerd form other wise he will get a unsuccessfull message.
Frequency of use:	High
Main success scenario (or basic flow)	1.Student can access the Attendance Portal. 2.Student login with their user id and password. 3.Then they will get registration form. 4.Selct the listed services in the AMS Portal
Extensions(or alternate flows)	1.If student doesn't fill required details or entered invalid details like id number or password 2.If students did not Marks his attendance a.The system prompts the student to check the attendance again.
Frequency of occurrence	Very High

2.UC-AMS-SL:Student_Login

Use-case ID:UC-AMS-SL:	Use-case name: Student_Login
Discription:	Student must view the AMS website.
Pre-conditions	Student login with user name and password.
Success guarantee (post-condition)	Student will get attendance marking,chatting,file sharing and quering.
Frequency of use:	High
Main success scenario (or basic flow)	1.student access the AMS Home Page. 2.Avalability of listed services
Extensions(or alternate flows)	1.If student doesn't fill required details or entered invalid details like id number or password a.The system prompts the student to check the login details again.
Frequency of occurrence	Very High

3.UC-AMS-SMA:Student_Mark_Attendance

Use-case ID:UC-AMS-SMA:	Use-case name: Student_Mark_Attendance
Discription:	He/She can mark attendance
Pre-conditions	Student login with user name and password
Success guarantee (post-condition)	He will get successfully marked message.
Frequency of use:	High
Main success scenario (or basic flow)	1.Student access to mark his attendance
Extensions(or alternate flows)	Show pop-up message like Attendance Marked Successfully
Frequency of occurrence	Very High

4.UC-AMS-SQ:Student_Query

Use-case ID:UC-AMS-SQ:	Use-case name: Student_Query
Discription:	He/She can submit the query to the lecturer
Pre-conditions	Student login with username and password
Success guarantee (post-condition)	He/She can view the page with query form
Frequency of use:	High
Main success scenario (or basic flow)	1.Student access to submit a query
Extensions(or alternate flows)	1.If query submitted to the database it shows successfull message.
Frequency of occurrence	Very high

5.UC-AMS-SC:Student_Chat

Use-case ID:UC-AMS-SC:	Use-case name: Student_Chat
Discription:	He/she can chat with students/Lecturers
Pre-conditions	Student login with user name and password
Success guarantee (post-condition)	He/She can view the chatting page
Frequency of use:	Moderate
Main success scenario (or basic flow)	1.Student access to the chatting page
Extensions(or alternate flows)	1.If message sent succefully it pops Messega sent Successfully
Frequency of occurrence	Very High

6.UC-AMS-SFS:Student_File_Sharing

Use-case ID:UC-AMS-SFS:	Use-case name: Student_File_Sharing
Discription:	He/She can share files to all the students
Pre-conditions	Student login with user name and password
Success guarantee (post-condition)	He/She can view the file sharing page
Frequency of use:	Moderate
Main success scenario (or basic flow)	He/She can access to the files shared
Extensions(or alternate flows)	Pop up Message like File Shared Successfully
Frequency of occurrence	Very high

7.UC-AMS-SCA:Student_Check_Attendance

Use-case ID:UC-AMS-SCA:	Use-case name: Student_Check_Attendance
Discription:	He/She can view attendance percentage
Pre-conditions	Student login with user name and password
Success guarantee (post-condition)	He/She can see his/her attendance
Frequency of use:	High
Main success scenario (or basic flow)	1.He/She can access to the attendance percentage page
Extensions(or alternate flows)	-----
Frequency of occurrence	Very high

8.UC-AMS-LL:Lecturer_Login

Use-case ID:UC-AMS-LL:	Use-case name: Lecturer_Login
Discription:	Lecturer must see the AMS Login homepage
Pre-conditions	Lecturer login with user name and password
Success guarantee (post-condition)	He/She will get message like successfully logged in or not
Frequency of use:	High
Main success scenario (or basic flow)	1. Lecturer access the AMS website homepage. 2.Lecturer login with their user id and password.
Extensions(or alternate flows)	Pop up message like Logged in successfully
Frequency of occurrence	Very high

9.UC-AMS-LQ:Lecturer_Query

Use-case ID:UC-AMS-LQ:	Use-case name: Lecturer_Query
Discription:	Lecturer can answer to the queries
Pre-conditions	Lecturer login with user name and password
Success guarantee (post-condition)	He will get the information about what the query is and who asked it
Frequency of use:	high
Main success scenario (or basic flow)	Lecturer can acess to the queries page
Extensions(or alternate flows)	If data is not available regarding queries it shows no queries
Frequency of occurrence	Very high

10.UC-AMS-LMS:Lecturer_Material_Supply

Use-case ID:UC-AMS-LMS:	Use-case name: Lecturer_Material_Supply
Discription:	Lecturer can share the material to all the students
Pre-conditions	Lecturer login with user name and password
Success guarantee (post-condition)	Lecturer webpage will be redirected to the material supply page
Frequency of use:	High
Main success scenario (or basic flow)	Lecturer can access the material sharing page
Extensions(or alternate flows)	If material shared successfully Susscefully shared message is shown
Frequency of occurrence	Very high

11.UC-AMS-AL : Administration_Login

Use-case ID:UC-AMS-AL:	Use-case name: Administration_Login
Discription:	Administration must see the login page
Pre-conditions	Administration login with user name and password
Success guarantee (post-condition)	Administration will get entered into the homepage of AMS
Frequency of use:	High
Main success scenario (or basic flow)	Admin can access to the homepage of AMS
Extensions(or alternate flows)	Will get success message
Frequency of occurrence	Very high

12.UC-AMS-AA:Admnistration_Announcements

Use-case ID:UC-AMS-AA:	Use-case name: Administration_Announcements
Discription:	Administrator can make announcements
Pre-conditions	Administratio login with user name and password
Success guarantee (post-condition)	Admin will access to the announcements page
Frequency of use:	High
Main success scenario (or basic flow)	Admin can post the announcements
Extensions(or alternate flows)	Notifies if the announcement successfully submitted
Frequency of occurrence	Very high

13.UC-AMS-ANS:Administration_Notifies_Student

Use-case ID:UC-AMS-ANS:	Use-case name: Administration_Notifies_Student
Discription:	Admin can notify the student
Pre-conditions	Admin login with user name and password
Success guarantee (post-condition)	Admin can access to the notify page
Frequency of use:	High
Main success scenario (or basic flow)	Admin will get the list of the students to be notified And can notify to the students
Extensions(or alternate flows)	If notification sent successfully the Pop up message like Notified Successfully
Frequency of occurrence	Very high

Non-Functional Requirements:

Reliability:

Student should get appropriate information about his attendance and query.

Usability:

This tool should has user friendly GUI. User can use it effectively.

Availability:

Student can get information within 6 or 7 working hours. Student can access at any time with this tool.

Accessibility:

This tool support multi user accessing. Any user can access the system from any place to use the tool

Performance:

User should have fast/moderate access to get the information from the lecturer. User should retrieve the information from query database very quickly.

Security:

As it is a web based application it should be more secure in order to save attendance and also to make session for a student and lecturer confidential data from hackers.

Platform Compatibility:

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