ATTENDANCE MONITORING

**REPORT**

CSE – I GROUP-10

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INTRODUCTION:

A new website is being setup to help MANIT teachers analyze and evaluate the attendance of the students. It also provides them with extensive information about their check in and check out times.

PURPOSE OF THE PROJECT:

This project has been made to provide additional help to the staff of MANIT to get a clearer view of the attendance of the students without having to individually enter the attendance of each student manually.

INTENDED AUDIENCE:

The intended audience of this project ideally includes all students and the staff of MANIT.

SCOPE OF THE PROJECT:

This project is specifically designed to create a formal and precise representation of the attendance of the students including the exact check in and check out time which can later be accessed by the teacher.

**OVERALL DESCRIPTION:**

1. OPERATING ENVIRONMENT:

This will be operating in any environment like desktops, laptops, mobiles and tables with access to browsers like Google Chrome, Mozilla Firefox etc. Most of the features will be compatible with the Mozilla Firefox and Opera 7.0 or higher version. The only requirement to use this online product would be the internet connection.

SOFTWARE CONFIGURATION:

* **FRONT END** (client side)-

Since our application is online, there must be proper front end for the different end users to interact (or communicate) effectively.

For making the web application, we will use the following software’s or languages.

* + HTML will make the skeleton of the page.
  + CSS is used for cascading styles or filling colors and styling the whole website elements.
* **DATABASE MANAGEMENT-**

MySQL is used to maintain database and respond to the queries made by the user.

* **BACK END** (server side)-

To make server interact with the database, a server side scripting language is used. We will be using PHP for the backend for form validation.

OPERATING SYSTEM:

It will work on any Operating system having an internet access to it.

LOGIN INTERFACE:

In case the user is not yet registered, he/she can enter the details and register to create his account. Once their account is created they can ‘Login’ through their login credentials username and password. If the user entered either his username or password incorrectly, then an error message appears.

NON-FUNCTIONAL REQUIREMENTS:

1. PERFORMANCE REQUIREMENT:

* The system should be able to handle large amount of data. Thus, it should accommodate high number of users without any fault.
* The system shall handle expected and non-expected errors in ways that prevent loss in information and long downtime period. Thus, it should have inbuilt error testing to identify invalid username and password.
* Responses to view information shall take no longer than 5 seconds to appear on the screen.
* The response should be fast enough to avoid users’ response collisions.
* The system should be available for use 24 hours per day, 365 days per year.

1. SAFETY REQUIREMENT:

* The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup so that the database is not lost. Proper UPS/inverter facility should be there in case of power supply failure.

1. SECURITY REQUIREMENT:

* System will use secured database.
* Normal users can just read information but they cannot edit or modify anything except their personal and some other information.
* System will have different types of users and every user has access constraints.
* Proper user authentication should be provided.
* Proper measures should be there so that users’ password becomes inaccessible to brute force attacks.