**inSight 2017**

**Department : Computer Science department**

**Problem Title : Attendance validation**

**Problem Code : PS04**

**Problem Description :**

There are certain situations like placements for the 4th year students; various technical events cultural events, etc. where in students have to participate. These students tend to miss their classes. Since there is an eighty five per cent (85%) attendance constraint in SIT, the students taking leave from classes for genuine reasons must get attendance for them.

An application which would enable the students to raise request for the attendance to the HOD with provision for the HOD to validate the genuinity of the request and then grant the attendance.

The faculty handling the subject should come to know that the request has been approved and give attendance to the student, i.e. the app should involve student, faculty and the HOD as the end users.

**Proposed solution:**

Solution to this problem should be versatile as well as should be protected too because it should in no case be misused. The solution for this is simple. A student is supposed to login and should select the event for which he/she attended. Then he/she will be allowed to write request. The other side head of the departments will be given an id and password. They will be able to view all the requests. Since its very difficult for someone to look in each and every request, HOD’s will just have to click on the event and click on permit , which automatically mail respective faculty members to provide attendance for respective student.

About authentication , it is done in three stages. Once when he/she try to log in. second when he/she try to click on the event link. Third when he/she make a request should enter the pin number which is given to the students during event . Also the mail id of the faculty , whose lecture he/she missed is to be selected (because the classes he/she might be missed is already predicted).

About sending mails to faculty, once HOD click permits, a mail is sent in name of each student who requested and to each faculty member they mentioned in their request.

**Technology Stack :**

Here in our project we are basically trying to develop web based application using the following requisites:

1. HTML and CSS: Creating template/ frontend

2. Javascript: Enhance user interactivity

3. MySQL: Retrieving content and information from database

4. PHP : Server side script language to develop logic

**Use Case:**

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**Team Members details:**

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