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Summer Project Report,  
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## **Project Report**

### **Purpose:**

This project can help students to easily access their grades through the institute's home website and administration to maintain records of the students' academic profile in database other than papers.

### **Tools:**

Firstly the project was worked out on software named XAMPP which integrates apache web server and MySQL Database. The languages made use were php and HTML in addition cascading style sheets (css) were used for creating web interface.

### **How does it work:-**

At the first place we have a login page which is where either administrator or student can login by specifying their category either as admin or as student by clicking on the radio button. The student will gain the access to his/her grades by logging in using his/her roll number as username and password. If the user logged in as category student then it will direct the user to student interface. If the user logged in as category admin then it will direct the user to administrator interface. It will give access to the user absolutely nothing without logging in.

### **Interface for the Administrator:**

Once the administrator will login, he/she is provided with three options:

**1) Search:** Using this admin can search a particular pupil's record by submitting any of the following combinations.

1. Roll No: This will list out all the records having this 'roll no'.
2. Roll No & Course: This will show only one record with this 'roll no' and 'course'.
3. Roll No & Semester: This will list out all the records with this 'roll no' on that particular 'semester' specified by administrator.
4. Batch & Course: This will list out all the records with this 'course' on that particular 'batch' specified by administrator.

5. Batch, Course & Semester: This will list out all the records with this 'course' on that particular 'batch' and 'semester' specified by administrator. Specification of 'semester' is optional, if you do specifies the semester then it will take less time to search than in another case.

Once the list has been displayed, the administration is provided with two options namely 'edit' to modify the record in the database and 'delete' to delete the record from database. With the edit option administrator can only change the 'student name' and 'grade', not the 'roll no' and 'course name' because if the administrator changes any of these ('roll no', 'course') then it may cause the records to be redundant. If the administrator wants to change the 'roll no' or 'course' then there is no other way than 'delete' the record from the database and add the record again with the changed 'roll no' or 'course'. Additionally administrator has to enable the cookies in their browsers, because after the submission of modified data in 'edit' form or after the deletion of record from the database we need cookies to display the modified grades list otherwise administrator has to search for the modified record to see the whether it is modified or not.

2) **Add a grade:** Using this administrator can add grades individually one by one; this is preferable only to add additional one or two grades.

**3) Upload:** This option lets the admin to upload a list of grades. The administrator uploads the excel sheets by saving them as CSV (Comma delimited) (\*.csv) format into the database by specifying the 'course name', 'semester' and 'batch'. Moreover the (\*.csv) files must present in C drive in a folder named "csv". Importantly, the excel sheet should have only three columns namely 'roll no', 'student name' and 'grade'; additionally administrator have to make sure that the new line with record in (.csv) file won't starts with comma as ( , roll no, student name, grade) otherwise it (the record starts with comma) won't get uploaded to database. If it doesn't have a record in the new line and it starts with comma like this ( , , , , , ) then there is no problem at all. The administrator doesn't have to worry about the header line (Roll no, student name, grade), this won't get uploaded to database in other words the code just skips the first line with the record. Moreover if the (.csv) have the record with the same pair ('roll no', 'course') which is already there in database then it won't allow that record to get uploaded to database, because the pair('roll no', 'course') is the primary key so that it won't allow redundant records.

Example of .csv file:

```

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Roll no, student name, grade, , , , ,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CS08B037, suresh, A, , , , , , , ,
Cs08b015, abhinay, A
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

```

The administrator will have the choice to change their password and logout.

**Interface for the Student:**

Once the student logging in, then he/she has a list of all the grades displayed in a tabular form and he/she also has option to see the list of the grades semester wise by specifying the semester in the semester option. Moreover student will have the choice to change their password and logout.

**Conclusion:**

We have taken care of all the cases that may cause redundancy of data and from the above methods the search time for records is absolutely less.