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**BTEC Higher National Diploma in Computing & Systems Development**

**Project Documentation**

**Institute Name: IDM Computer Studies Pvt. Ltd.**

**Unit Name: Software Development project**

**Unit Value: Unit 4**

**Lecturer:**

**Unit Outcomes:**

1. **Be able to formulate a project**
2. **Be able to implement the project within agreed procedures and to specification**
3. **Be able to evaluate the project outcomes**
4. **Be able to present the project outcomes**

**Grading Opportunities Available**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Outcomes/ Grade Descriptors*** | **P4.1** | **P4.1** | **P4.3** | **P4.4** | **M1** | **M2** | **M3** | **D1** | **D2** | **D3** |
|  | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** |

|  |  |
| --- | --- |
| **Date Set:** | **Due Date:** |
| **Student Name:** | **Student No:** |

**Outcomes/Grade Descriptors Achieved (Please Tick)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Outcomes/ Grade Descriptors*** | **P4.1** | **P4.1** | **P4.3** | **P4.4** | **M1** | **M2** | **M3** | **D1** | **D2** | **D3** |
|  |  |  |  |  |  |  |  |  |  |  |

**Assessor Comments:**

**Signature: Date: \_\_/\_\_/\_\_**

**IV Comments:**

**Signature: Date: \_\_/\_\_/\_**

PROJECT PROPOSAL

**STUDENT GRADE MONITORING SYSTEM**

**(SGM)**

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# COMPANY DETAILS

A Student Grade Monitoring system (SGM) can be used to track the progression of students. This project is to implement a Students’ Grade Monitoring System with Advanced analysing graphs. This system is for school children from grade 6-11.

Tracking the marks of students, analysing students' progression, and analysing performance variation over the years in school are the main functionalities of this system.

A lot of graphs are added with the system and the user can select two parties to compare. Teachers and students are the target users of this system.

## RELATED WORK

There are already a lot of applications which can keep students’ details and the records of grades. But the issue is there is no tool to analyse the grades and take decisions/predictions about the students’ progression.

**PowerSchool**

PowerSchool empowers teachers and administrators to use real-time data insights and analysis to adjust instruction from the student to the school level. This system helps teachers to see where a student’s strengths and weaknesses lie. PowerSchool helps students to understand their learning. It shows their progress, gives real-time feedback and scores and fosters engagement in learning through content and assignments. Then parents have a benefit from the transparency of their child’s assignments, scores, and grades, getting real-time insight into their child’s learning, growth, and weaknesses.

**KIOSK (Student’s grade monitoring system)**

KIOSK is a module that can easily provide the grades of the students even the faculty members are not present in the community. It only calculates the general average of the student and allows to view the previous grades also.

**QuickSchools –GradeBook**

QuickSchools Gradebook feature makes recording and calculating grades simple and efficient. Simply enter student grades and let QuickSchools do the rest. Fully customizable, you can weight individual assignments or categories to suit your class’s needs, add and delete assignments, and redefine assignments and grade weighting. After new grades are entered, the overall class grade is averaged and updated.

# SCOPE OF THE PROJECT

The scope of this system is limited to students and teachers. Because of only teachers and students are allowed to access the system. And only the students in grade 6 to 11 are targeted. And also there is a limited number of choices for graphs in the dashboard.

# FUNCTIONS OF THE PROPOSED SYSTEM

The Main Functions of this student grade monitoring system is to track the marks of each student and analyse those marks in a meaningful way. The way we used to analyze the marks is following.

* Track the student’s progression for each subject
* Track the average of a student when he/she is different grades
* Track his/her marks for mathematics
* Compare the specify student with the marks of the best student in the class
* Track his position in the class in different grades
* Average marks for all subjects

Teachers can see the progression of each student individually and overall in parents meetings or other special occasions. Using these analysed graphs teacher or parents can study whether there is a turning point or not. So teachers can keep touch in weak students like that.

# USER REQUIREMENTS

User requirement describes the business needs for what end-users require from the system. Although the above school's Grade monitoring tools provide particular functionalities, end-user does not satisfy by those functionalities. The analysis proves that end-user needs additional functionalities such as

* Neediness to monitor students individually.
* To compare students’ marks with their previous grades.
* Need to track weak students and the turning pointof them.
* Compare the average marks of a student with a class average.

# DRAWBACKS OF THE EXISTING SYSTEM

* It has additional functionalities that we do not need such as conducting assignments
* Domain knowledge required to handle the system.
* Cannot compare the ower result with other students
* More complex
* Paid licence
* Cannot get a good overview regarding the position in the class

# PROPOSED SOLUTION

The method to solve this problem is to create a web-based Student Grade monitoring system. Here students can their progress in each year and each subject. And the Student will be able to compare their marks with among equal competitive in their class. A Teacher can upload marks CSV file in each term easily. Simple UI is used to develop the system. There are no fancy functionalities. Just students and their parents easily understand the weaken subjects and can work hard to get high marks.

* Make sure the student confidentiality
* It will ensure data accuracy.
* Minimum time needed for the various processing.
* It will provide a better Service.

# PROJECT PLAN

## Gantt chart

