

## STUDENTS' ACADEMIC PERFORMANCE APPLICATION GUIDELINE

\*Norshuhada Samsudin<sup>1</sup>, Sharifah Sarimah Syed Abdullah<sup>2</sup>, Fuziatul Norsyiha Ahmad Shukri<sup>3</sup>, Wan Nur Shaziayani Wan Mohd Rosly<sup>4</sup>, Mawardi Omar<sup>5</sup>

\*norsh111@uitm.edu.my<sup>1</sup>, sh.sarimah@uitm.edu.my<sup>2</sup>, fuziatul@uitm.edu.my<sup>3</sup>, shaziayani@uitm.edu.my<sup>4</sup>, mawardio@uitm.edu.my<sup>5</sup>

<sup>1,2,3,4,5</sup>Jabatan Sains Komputer & Matematik (JSKM),  
Universiti Teknologi MARA Cawangan Pulau Pinang, Malaysia

### ABSTRACT

*Every educational institution has educators who participate in the recording of assessment results for students. This is to make sure that educators can continue to be held accountable for the confidential results of their students. Academic performance indicators, such as marks and grades, offer details about students' development and help educators to decide what kind of instruction their students will require. This study developed the Students' Academic Performance Application to track assessment outcomes simply for students. Hence, to construct this system, data studio application software was employed. Additionally, it can make it easy for educators to monitor students' growth and progress, as well as any weak areas. A great technique to precisely track each student's improvement is to create a special folder for them. Each folder can be used to store documents that serve as evidence of the students' academic achievement.*

**Keyword:** *students' performance, academic application, data studio*

### Introduction

The word "assessment" is frequently used in a variety of contexts and has various connotations for various people. Most students associate assessment with testing and grading, which involves determining quiz and exam scores and determining course grades. Educators frequently use assessment to inform students of their progress or performance in a course. An emerging idea of assessment is that it is a dynamic process that continuously produces data about how well students are doing in reaching their learning objectives (Garfield, 1994).

Some educators assign letter grades, while others assign numerical values, frequently the test's accuracy percentage. Afterwards, using either approach, the grades are averaged; frequently using a weighting procedure intended to give some grades a higher weight than others. Discussion of the advantages of various strategies typically focuses on the issue of whether averaging letter or numerical grades is preferable or regarding a specific aspect of the weighting process (Cross, 1994).

In addition, the study by Beguin & Wood (2015) found that assessment results are usually reported in terms of grades or marks. When properly understood and applied, the assessment results can be used to set educationally significant performance goals for the future. Educators can agree on their priorities, concentrating, for example, on specific curriculum domains in a coherent manner or on

student populations who are at risk. They can effectively set concrete, attainable goals for growth and track their progress toward those goals. The educational institutions themselves are in charge of and in control of their own development with this kind of evaluation. The robustness of evaluation and improvement systems may come into focus in the inspection and accountability frameworks over time, and there may be significant engagement.

Finally, since the nation has now entered an endemic phase, blended learning is still used for teaching and learning in higher education institutions. So many different techniques are used to make the teaching and learning process easier. Apart from that, a more systematic method of recording student evaluation scores is also very important to make the teaching and learning process run smoothly. A record system is defined as the system in which an organization's information is captured in its entirety. It is considered an important tool for organizational accountability, compliance with legislative requirements, and the development of corporate memory (Assaf et al., 2022). Since the invention of computers, students can now receive updates on their progress and feedback, limited only to the level of efficiency.

Therefore, students' academic performance applications have been created using Data Studio to track student evaluation results that can be available at anytime and anywhere. The aim of this project is to create an online application in which students can view their evaluation coursework and download answer scripts that have been checked by the educator.

### **A Brief Overview**

The students' academic performance application was developed to monitor student evaluation outcomes. This application has several interesting features and makes it easy for students to track their assessment scores immediately after an assessment is conducted. Figure 1 below shows the interface of this application that can be access thru the link given by educators.

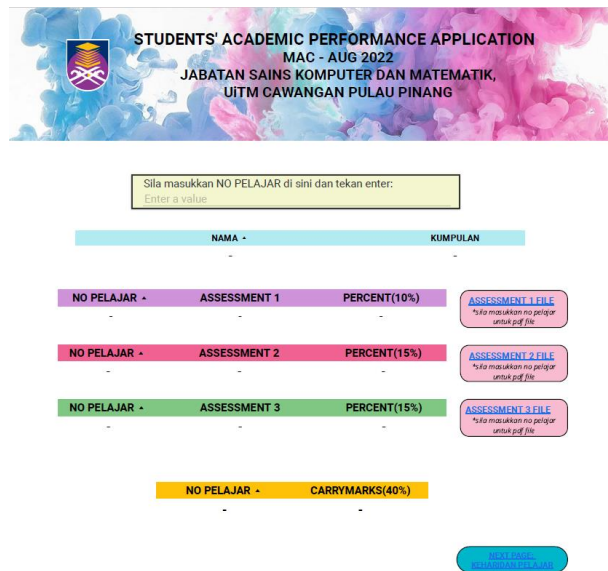


Figure 1: The students' academic performance application interface

Students need to enter their respective ID numbers to check their marks along with the files that have been uploaded by the educators as shown in Figure 2 below. The student's score will be displayed on the screen.

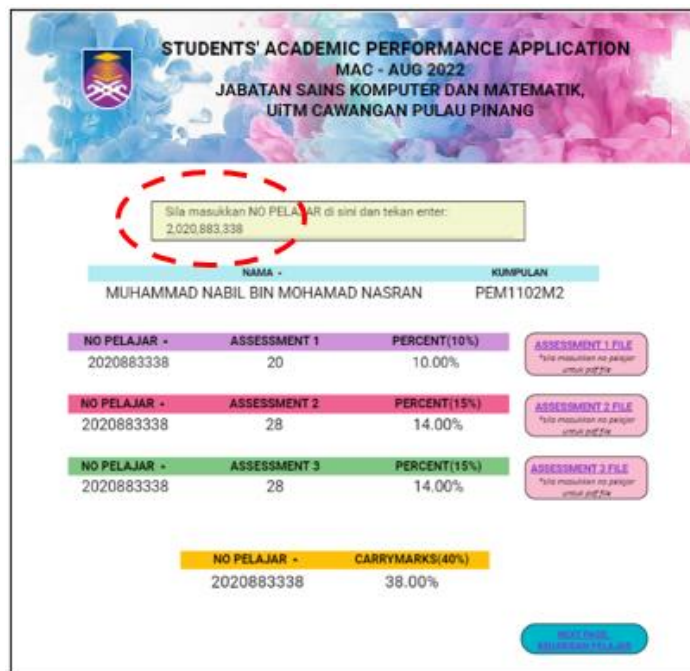


Figure 2: Insert student 's ID number

Figure 3 shows that the assessment file button that students need to click the to view the file that has been marked by the educators in Google Drive.

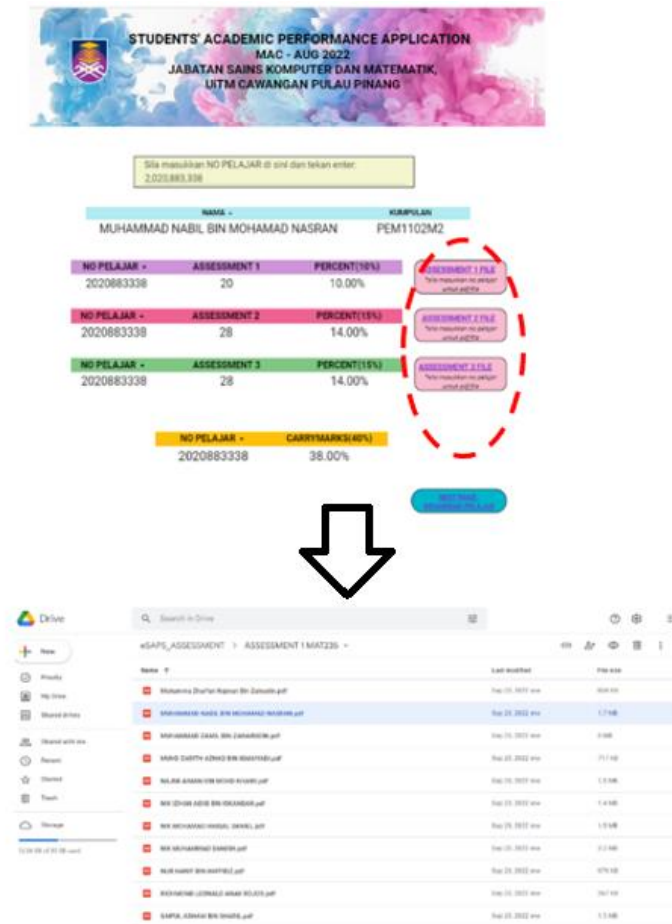


Figure 3: Click to view assessment file

Since all student files are confidential, they need to enter their student number to view their respective files as shown in Figure 4 below.

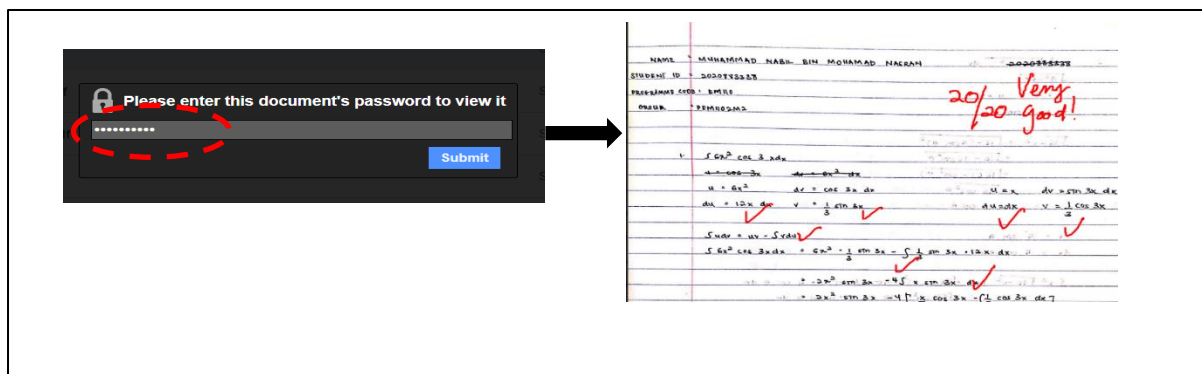


Figure 4: Enter student's ID number

Finally, this application also shows student attendance during the assessment. As a result, the record can be used as evidence of attendance by both students and educators.

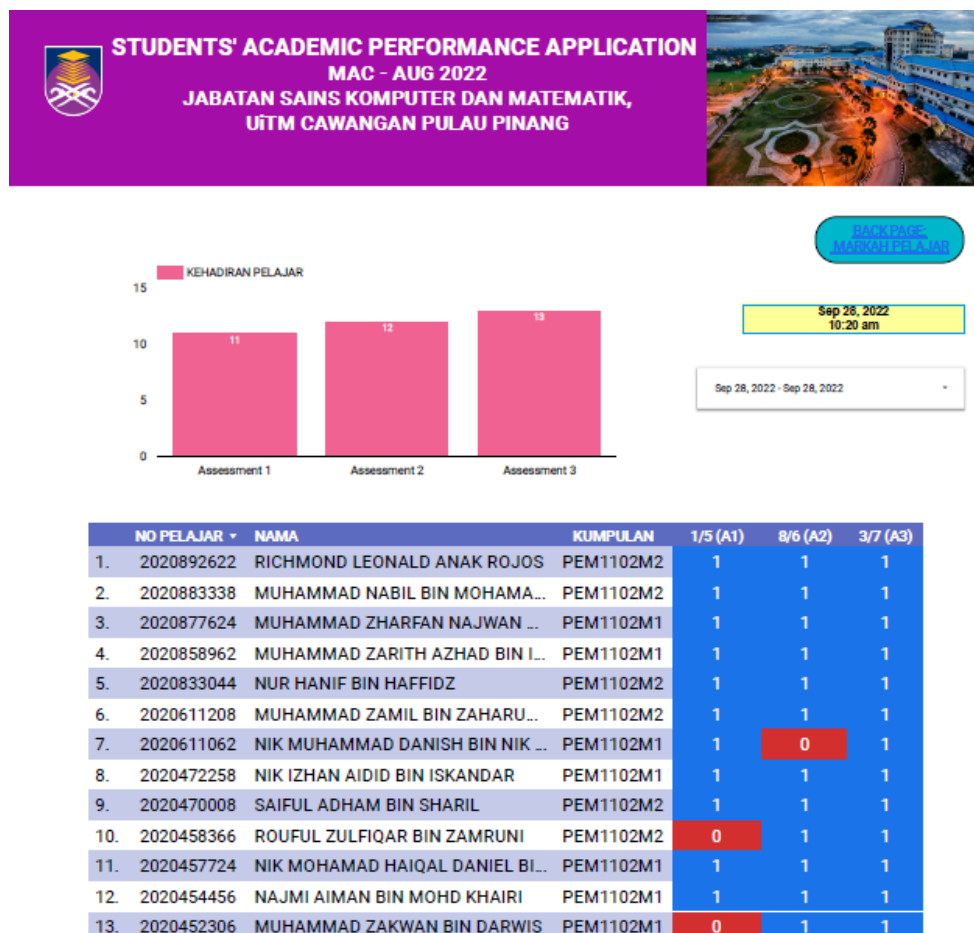


Figure 5: Students' attendance list

## Conclusion

The students' academic performance application was developed to record and store student assessment data, especially in higher education institutions. This is one of the practical applications for students as technology advances in online teaching and learning. In general, this application has fulfilled its development objective of changing traditional methods to online applications. It is one of the innovative activities in the world of education where students can view their evaluation coursework and download their answer scripts that the educator has checked. For future improvement, the students' academic performance application can add a proof of absence function to the student attendance list section throughout the semester.

**References:**

Assaf, M., Lakmes, A., Alobaidy, M. G., Shabou, F., Ahmad, W., Alhasan, M., Trayek, F., & de Vries, L. A. (2022). Evaluating the effectiveness of student-record systems in conflict-affected universities in northwest Syria relative to student transition and mobility. *International Journal of Educational Research Open*, 3. <https://doi.org/10.1016/j.ijedro.2022.100128>

Béguin, A. & Wood, A. (2015). Using exam results to inform teaching and accountability, *The Future of Assessment, 2025 and Beyond*, 7, 44-53.

Cross, L. H. (1994) "Grading Students," *Practical Assessment, Research, and Evaluation*, 4(8).

Garfield, J. B. (1994). Beyond Testing and Grading: Using Assessment To Improve Student Learning, *Journal of Statistics Education*, 2(1).