

Alternative Assessment made easy with CSPracTIS

Computer Science Practicum Information System

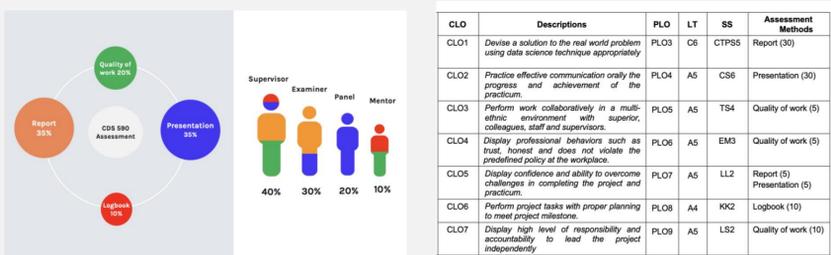


ABSTRACT

The implementation of alternative assessment for a course with 7 learning outcomes, multiple assessors, and multiple types of assessments posed a great challenge for the course coordinator of CDS 590 Consultancy Project and Practicum. This 8-unit core course for Master of Science Data Science and Analytics program requires 60 students to undergo practicum at the industry to complete a data science project every semester. Types of assessment are report, presentation, logbook, and quality of work. The assessors include academic supervisor, industry mentor, panel, examiner. Each assessor uses different assessment rubrics with different weightage. Apart from the complexity in managing the assessment, scheduling of final presentation is painful too due to the same academic may take up multiple roles in the assessment process. Therefore, Computer Science Practicum Information System (CSPracTIS) was developed to make the alternative assessment process easy and convenient to all users: course coordinator, assessors and students. The uniqueness of the assessor module is it attracts the attention of the assessor to read the rubrics when assessing. SmartieS, the scheduling module, is an intelligent system powered by a genetic algorithm that can generate perfect schedule for parallel sessions with up to 3 assessors present at the same time for each student. The uniqueness is, it can cater for various constraints such as the unavailability of the assessor, student on certain day or time, preference of presentation location and regenerate a new schedule easily. Finally, the student module provides easy input of logbook with logged hours and submission of reports.

OBJECTIVE

- 1) To ease the process of alternative assessment by multiple assessors with multiple types of assessment rubrics.
- 2) To ease the compilation of grades, reports and logbooks.
- 3) To aid the scheduling of final presentation that caters for multiple assessors with different roles and parallel sessions.



CLO	Descriptions	PLO	LT	SS	Assessment Methods
CLO1	Devise a solution to the real world problem using data science technique appropriately.	PL03	C6	CTPS5	Report (30)
CLO2	Practice effective communication orally the progress and achievement of the practicum.	PL04	A5	CS6	Presentation (30)
CLO3	Perform work collaboratively in a multi-ethnic environment with superior, colleagues, staff and supervisors.	PL05	A5	TS4	Quality of work (5)
CLO4	Display professional behaviors such as trust, honest and does not violate the predefined policy at the workplace.	PL06	A5	EM3	Quality of work (5)
CLO5	Display confidence and ability to overcome challenges in completing the project and practicum.	PL07	A5	LL2	Report (5) Presentation (5)
CLO6	Perform project tasks with proper planning to meet project milestones.	PL08	A4	KK2	Logbook (10)
CLO7	Display high level of responsibility and accountability to lead the project independently.	PL09	A5	LS2	Quality of work (10)

USEFULNESS



Credit: icons from noun project

EASY and intuitive user interface | ORGANISE all documents in one place | easy MONITORING of students' progress



ADDED VALUES

SAVE time | SAVE cost | Convenient



COMMERCIALIZATION POTENTIAL

CSPracTIS is pending submission for COPYRIGHT. The scheduling module, SmartieS has a great potential to be commercialized as an independent system or offered as Software as a Service.



RECOGNITION

Alternative Assessment Category

2022 | 1st Runner up



GOLD



GOLD



Wong Li Pei



Chew XinYing



Nasuha Lee Abdullah
Leader



Nur Fatin Amara Che Zaki



Farahiyah Abu Bakar
PPKT