

DESCRIPTION OF PRODUCT REQUIREMENTS

Group: C2SE.23

Project: Senior Project Management System for International School

Date: 18/02/2022

I. Short description of product ideas (less than 7 statements)

- Managing a Capstones project is an important and necessary task for the university. Previously, the school only organized manually using available support tools such as google form to get student information to register for capstones projects, using excel to temporarily store information, and using drop box software students submit documents. This makes it time-consuming for teachers and difficult for students to access the capstone project process.
- Realizing this problem, the team decided to build a system that could help the lecturer manage students' capstones, manage student workflow, grades and communicate plans to students in a timely manner. Fast and accurate way to save time and effort. Students can track and understand their capstone process.

II. Requirements

High-level Functional Requirements	1. Manage students
	2. Manage project implementation process
	3. Manage topics
	4. Manage group
	5. Notice of plans and changes.

	6. Report the working status of the groups.
	7. Manage Score of students.
	8. Manage mentor and the board of members

Quality Attributes Requirements (example related to issues: Ease Use, Easy to Like, Easy to Learn, Easy to Understand, Easy to Buy / Yes, ...)	1. Easy to use
	2. Easy to understand

Operation Requirements (related to issues: Speed, Accuracy, Performance, Stability, Load Resistance, Scalability, Safety, ...)	1. The system has accurate and transparent data, functions that do exactly their job.
	2. Performance (processing lower than 30s)
	3. Low latency (Time to respond to user)

Environment & Operation Requirements (related to issues: physical impacts on the environment, interact with relevant or existing systems, conditions for product commercialization, ...)	1. Run in web browser
	2. Windows, Linux, Mac OS.

Requirements for Maintenance & Support	1.
	2.
	3.
	4.
	5.

Security/ Safety Requirements (related to issues: conditions of use / access to products, personal freedom, inspection, ...)	1. Personal freedom (Guest user)
	2. Inspection (System Admin)

Culture Requirements	1.
	2.
	3.
	4.
	5.

Evaluate the complexity of engineering problems	✓	1. Involving wide-ranging or conflicting technical issues
		2. Having no obvious solution
		3. Addressing problems not encompassed by current standards and codes

		4. Involving diverse groups of stakeholders
	✓	5. Including many component parts or sub-problems
		6. Involving multiple disciplines
		7. Having significant consequences in a range of contexts

Standard requirements	✓	1. Code standard. (GNU, Oracle standard for Java, ..)
		2. Design standard. (design patterns, object-oriented analysis and design,...).
		3. IEEE (1058, 1540, 830, 1016, 829, 1012, 1008)
		4. ISO/IEC/IEEE 12207:2017 (TCVN 10539:2014); ISO/IEC 25051:2006(TCVN 10540:2014);
		5. Other standards. (related to specific topics)