UNIVERSITI SAINS MALAYSIA

School of Computer Sciences
CAT201 Integrated Software Development Workshop

CAT201 Project (50%)

Objective:
Construct a software based on JAVA programming language with user-friendly graphical user interface in a team.

Description:
Develop an e-commerce website using web server and Java. Web application frameworks, e.g. Spring, Google Web Toolkit, Struts, … cannot be used.

- Form a group consisting of 3-4 members.
- Appoint a project manager.
- Project manager: Report any member who is missing in action (MIA) for more than 2 weeks. MIA: member who does not reply/respond during project development. The MIA member will get zero for the project.

Mark distribution:
◦ Web GUI: 40%
◦ Background Java processing: 40%
◦ Git Version Control: 10%
◦ Overall: 10%

Final program and report:
Submit a full report that describes the program, screenshots, and members' contributions; source codes and references to libraries/API/engine.

Demo and presentation:
Each team is required to demonstrate the e-commerce website in a scheduled Webex online meeting session. The duration for the presentation is 15 minutes, and 5 minutes for Q&A. Each member is required to present their own module.

Important Dates:
Final program and report submission at eLearn: 11 January 2026
Demo and presentation (Webex online): 12 January 2026 – 16 January 2026

Team Registration:
Register your project team in the Google form (https://forms.gle/h6GyBTuehkssTp9s6) by 10 October 2025.

Evaluation Rubric

	Excellent (80-100%	Good (65-79%)	Moderate (40-64%)	Poor (0-39%)	Marks
Part 1: GUI (40%)	GUI is user friendly for user and administrator. Demonstrate the Web technologies (e.g. javascript) taught.	GUI is user friendly for user or administrator only. Demonstrate the web technologies (e.g. javascript) taught.	GUI is user friendly for user and administrator. Do not demonstrate the web technologies (e.g. javascript) taught.	GUI is not user friendly. Do not demonstrate the web technologies taught.	
Part 2: Java (40%)	Demonstrate many functionalities of processing, input and output using OOP Java.	Demonstrate a few functionalities of processing, input and output using OOP Java.	Demonstrate a few functionalities of processing, input and output using Java. Codes do not demonstrate OOP.	Java is not used.	
Part 3: Git (10%)	Use Git and GitHub for version control frequently during software development.	Use Git and GitHub for version control infrequently during software development.	Use Git and GitHub for version control very minimally during software development.	Do not use Git and GitHub for version control.	
Part 4: Overall (10%)	Excellent presentation	Good presentation	Moderate presentation	Poor presentation	
				Total	