

SQT PROJECT

SOFTWARE QUALITY AND TESTING | SUMMER 20 21

What to make?

Each team is required to come up with a great idea (either **Category A** or **Category B**), make a plan and submit. It can be either purely software or a combination of software and hardware. You must choose at least one of the options for technology, but if any team is optimistic enough: can choose all of the available options.

How is a team made?

A team is up to four students. In addition to each team, other people are allowed to help. A team can have a mentor, who advises on the project. A team can also have associates, who must be eligible students that can help the team with things, with business model planning, marketing, and so on. These people are not members of the team as such but it's good to have help sometimes.

Problem domain

Category A: Find a problem in the world, even in your own life or community, and then work to solve it. Build a project that could change lives.

OR

Category B: The next big thing could come from you. Facebook and Twitter started as student projects. Your ideas could be next. Come up with an innovative application idea and proceed accordingly.

Technology

- Option A:** Web
- Option B:** Desktop
- Option C:** Mobile Phones/Handheld Devices

Important milestones

TASK	DUE DATE	EVALUATION FOR
Project Submission	15/08/2021 (Sunday) 11.55 PM	Final Project

Marking schemes

☐ **Concept [20%]**

- Does the project have a clear target market or audience?
- **For Category A:** Does the project address a clear need, problem, or opportunity and is the solution clearly explained?

OR

For Category B: What makes this project new, innovative, interesting, or otherwise distinct from other similar projects? Does the project duplicate functionality already available in the market?

- Does the team demonstrate a thorough understanding of the need, problem or opportunity, including evidence of research into the need, problem or opportunity?
- Is the project's purpose and basic functionality easily understood?

☐ **System Specification [20%]**

Functional Requirements

- Do the functional requirements demonstrate the functionality of the software?
- Do the functional requirements have been leveled?
- Do the functional requirements have been prioritized?

Non-Functional Requirements

- Do the non-functional requirements demonstrate the qualities of the software?
- Do the non-functional requirements have been prioritized?
- Do the non-functional requirements have been leveled?

☐ **Other Requirements**

☐ **Test Plan [60%]**

- Test Plan Identifier (e.g. TP_ProjectName_1.02)
- Test Items/Test Case
- Item Pass/Fail criteria (percentage of acceptance without any major error)
- Test Deliverables (e.g. test case, test plan, bug report, test summary report)
- Testing Approach (e.g. level, tools, meetings, etc.)
- Staffing and Training needs (staffing for QA and necessary training for them)
- Testing Responsibilities
- Testing Schedule
- Planning Risks and Contingencies for testing
- Items not to be tested
- Approvals (Name and Signature of the test lead, Project manager, etc.)

- ☐ **NOTE: Upload project soft copy to as per your section on or before 15/08/2021 (Sunday) 11.55 PM in "<https://forms.office.com/r/ACAKUYzQDZ>". You can't upload after deadline. If I see any copy paste among any group both group will get 0 marks.**

- ☐ **NOTE: I am giving different file upload link for different sections. Please upload it for your designated section place only.**