SDPM PROJECT

SOFTWARE DEVELOPMENT PROJECT MANAGEMENT | SPRING 2019-2020

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 five 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

TASK	DEADLINE	EVALUATION FOR
Project Submission	13th Week	Final Project
Defense & Presentation	13th Week	Final Project

Marking Schemes

- ***Conceptual Foundation of the Project***

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?

Feasibility

- Is the team's project a reasonable solution to the problem or need they seek to address?
- Does the team discuss and respond to other solutions to the problem they seek to address?
- Does the team have a solid business model, and reasonably explain that business model?
- Is it clear what core technologies the team will use and how they are relevant to the project?
- Does the team demonstrate a realistic assessment of the costs to develop their project?
- Does the team discuss and respond to their competition in the target market?

- ***System Design Specification with UML Diagram [20%]***

- Does the use case diagram include the major use cases needed to deliver on the user scenario?
- Does the class diagram include the major classes needed to deliver on the user scenario?
- Does the activity diagram include the major activities needed to deliver on the user scenario?
- Does the ER diagram include the major data entities mentioned in the user scenario?
- Does the data dictionary cover all the entities as mentioned in the ER diagram?

- ***Effort Estimation [10%]***
  - Does the detailed effort estimation correspond with the WBS and schedule?
  - Does the detailed effort estimation compliment with the estimation at Feasibility Study?

- ***Work Break Down Structure [10%]***
  - Does the provided WBS correspond with the user scenario and the estimations made at the Feasibility study?

- ***Activity Planning [10%]***
  - Does the network diagram correspond with the provided WBS?

- ***Resource Analysis [10%]***
  - Does the resources are identified and allocated in different activities in the projects?

- ***Risk Analysis [10%]***
  - Does the risk analysis identify the existing and possible threats that the project might encounter?
  - Does the detailed risk estimation compliment with the risk identification?
  - Does the risk management plan cover all the identified and unexpected risks?

- ***Defense & Presentation [10%]***

✍ Best of luck