

SDPM PROJECT

SOFTWARE DEVELOPMENT PROJECT MANAGEMENT | SPRING 2016-2017

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

TASK	DEADLINE	EVALUATION FOR
Concept, Feasibility Study, User Scenario, UML	Week 6	Midterm
WBS, Effort Estimation, Activity Planning Risk Analysis, Resource Allocation, SPMP Documentation, Defense & Presentation	Week 15	Final

Marking Schemes

□ **Conceptual Foundation of the Project [20%]**

Concept [10%]

- Does the project have a clear target market or audience? (10 points)
- **For Category A:** Does the project address a clear need, problem, or opportunity and is the solution clearly explained? (10 points)

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? (10 points)

- Does the team demonstrate a thorough understanding of the need, problem or opportunity, including evidence of research into the need, problem or opportunity? (10 points)
- Is the project's purpose and basic functionality easily understood? (10 points)

Feasibility [10%]

- Is the team's project a reasonable solution to the problem or need they seek to address? (10 points)
- Does the team discuss and respond to other solutions to the problem they seek to address? (10 points)
- Does the team have a solid business model, and reasonably explain that business model? (10 points)
- Is it clear what core technologies the team will use and how they are relevant to the project? (10 points)
- Does the team demonstrate a realistic assessment of the costs to develop their project? (10 points)
- Does the team discuss and respond to their competition in the target market? (10 points)

□ **System Design [30%]**

User Scenario (User Story) [10%]

- Does the user scenario clearly depict a user's journey through the most important functionality of the project? (10 points)
- How well does the user scenario address the specific needs of the intended target audience? (5 points)
- Does the user scenario demonstrate reasonable user paths within the user scenario? (5 points)
- Is the user scenario well labeled and explained? Can one understand the scenario just by examining this one document? (10 points)

UML [20%]

- Does the use case diagram include the major use cases needed to deliver on the user scenario? (10 points)
- Does the use case narrative clearly depict the mentioned use cases? (10 points)
- Does the class diagram include the major activities needed to deliver on the user scenario? (10 points)
- Does the ER diagram include the major data entities mentioned in the user scenario? (10 points)
- Does the data dictionary cover all the entities as mentioned in the ER diagram? (10 points)
- Does the activity diagram include the major activities needed to deliver on the user scenario? (10 points)

☐ **Work Break Down Structure [10%]**

- Does the provided WBS correspond with the user scenario and the estimations made at the Feasibility study? (10 points)
- Does the network diagram correspond with the provided WBS? (10 points)

☐ **Effort Estimation [10%]**

- Does the detailed effort estimation correspond with the WBS and schedule? (10 points)
- Does the detailed effort estimation compliment with the estimation at Feasibility Study? (10 points)

☐ **Risk Analysis [10%]**

- Does the risk analysis identify the existing and possible threats that the project might encounter? (5 points)
- Does the detailed risk estimation compliment with the risk identification? (5 points)
- Does the risk management plan cover all the identified and unexpected risks? (10 points)

☐ **Resource Allocation [10%]**

- Do all the required resources are identified in the project development? (10 points)
- Do the resources are allocated in an effective manner in the project? (10 points)

□ **SPMP Document [10%]**

- Does the SPMP document correspond to the provided document template? (10 points)
- Does the SPMP document include all that's been mentioned above? (10 points)

□ **Defense & Presentation [10%]**

☺ Best of luck