

# Assignment 1 - Capability Maturity Model

## Fall 2017

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Score percentage: 10%

### 1 Work description

Homework 1 consists of understanding the Capability Maturity Model (CMM) for software. The reading material is included in the “Reading Materials” content folder. The students will discuss the topic in class on Sep. 5, 2017. Then each student will submit a report that reflects his understanding of the topic. The report is due on Sep 8, 2017.

To prepare for the discussion you must read Chapter 1, Chapter 2, and Chapter 4 of the report “Capability Maturity Model for Software, Version 1.1”. You should think about these questions:

1. What are the fundamental concepts for process maturity?
2. What are the levels of process maturity? Are they sufficient to measure the maturity of organizations?
3. How improving process maturity level helps managing the projects?
4. What are the uses of CMM?
5. What would you do to improve your maturity level?

Search the web for organizations that apply CMM and learn about their use of the model.<sup>1</sup>

You shall submit an essay that reflects your understanding of the topic.

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<sup>1</sup>e.g., <https://is-c.panasonic.co.jp/en/experiencetree/history/>

## 2 Report content

Your essay (4 to 6 pages) should address the questions above in a concise and clear way. It should provide:

- Summary of the document (What did you understand?)
- Summary of the discussion in class (what did you learn from the discussion?)
- Description of your development process.
- Discussion on how you can use CMM for your development process.

Address each of the item above in a separate section.

## 3 Grading criteria

- Quality of the document summary (40 points)
  1. What are the fundamental concepts for process maturity?
  2. What are the levels of process maturity? Are they sufficient to measure the maturity of organizations?
  3. How improving process maturity level helps managing the projects?
- Quality of the in-class discussion summary (30 points)
  1. What do you like about CMM?
  2. What do you not like about CMM?
- Quality of the discussion on the use of CMM (30 point)
  1. What are the uses of CMM?
  2. What can you do to improve your team's maturity level?