# UMass Boston CS 410
# Homework 1
# Posted Thursday, February 20, 2025
# Extended and Re-extended: Now Due Tuesday, February 25, 2025 at 11:59 pm

## 0   General Instructions

Homework must be typed and converted to Portable Document Format (PDF), see `https://en.wikipedia.org/wiki/PDF`. If you have a problem, request an extension before the work is due and explain how much you have done as well as your reason. We use the Linux servers of the Computer Science Department to collect homework. Homework submitted by email will be sent back.

To submit your homework, prepare one PDF file called `hw1.pdf` — the filename must be exactly `hw1.pdf`, otherwise it will not be collected. Upload the file to the `cs410` folder linked to your home directory on the CS Linux server. If you have trouble with uploading, email `operator@cs.umb.edu` for immediate help. The questions in this homework are based on the reading in Essential Scrum by Kenneth S. Rubin.

## 1   Looking at Chapter 11: Development Team

For this question, please read the first 10 pages of Chapter 11.

### 1.1   See Figure 11-1: Development team responsibilities with respect to Scrum activities

Find the following activities in Figure 11-1 and write a sentence about each one to say what is happening in that activity:

a. Groom (the Product Backlog, which includes an entire website).
b. Plan (be sure to notice the individual lists of what each team member will build).
c. Perform (covers one sprint, which includes daily scrums and updates to individual lists).
d. Inspect and Adapt (happens in daily scrum).
e. Inspect and Adapt (happens in Sprint review and Sprint Retrospective).

The remainder of this section was unclear. Please read the following four sections for information. Work continues in subsection 1.6.

## 1.2 General information on additional assignments posted in canvas

Now consider the cs410 assignments recently posted on canvas. Seven of them refer to and schedule your work according to the scrum activities in Figure 11-1. (The others in the 14 mentioned as recently posted include Reports r7, r8, CP2 Items 1, 2, 3, CP3 Items 1 and 2.)

During our work, you and your corporation keep notes - personal notes and corporation notes. Please store them on the server in /courses/cs410/s25/hdeblois/GROUP/¡corp¿/¡csusername¿. Put the personal ones in your directory and put the corporation ones in the corporate directory.

The points in Classproj2 are given for attending class and working on the activities. There is a provision that you could work more outside class in CP2 Item 7. The points in Classproj3 are given as grading the artifacts.

## 1.3 The list of what has been added in canvas for Classproj2

Classproj2: Corporate Website

CP2: Item 4. Sprint 2 planning for completing corporate website - commit to what you personally will build - make it doable Due Feb 24th at 4:30pm

CP2: Item 5. Continue building with corporate requirements list - Sprint 2 Due Feb 26th at 5:15pm - 25 points

CP2: Item 6. Sprint 2 review for corporate website - personal report in course directorym Due Feb 26 at 4:30pm - 15 points

CP2: Item 7. Continue building with corporate requirements list - sprint 3 if needed Due Feb 26 at 11:59pm - 25 points

## 1.4 The list of what has been added in canvas for Classproj3

Classproj3: Artifacts

CP3: Item 3: Artifacts - personal website Due Feb 26 at 11:59pm - 35 points

CP3: Item 4: Corporate website - personal part artifacts Due Feb 27 at 11:59pm - 25 points

CP3: Item 5: Artifacts - corporate website - team part, assuring all integration is tested Due Feb 28 at 11:59pm - 25 points

## 1.5 The purpose of the remaining questions for Figure 11-1

To be sure you can see the relationship between the theory of scrum activities in the textbook and actually doing the work, I had asked you to assign a letter to each of the above 7 assignments to indicate where it occurs in Figure 1-1. This was not well-phrased. But the task is important. Instead, please write single sentences as explained in the next section.

## 1.6 Figure 11-1 additional sentences to write

For each canvas assignment listed below, indicate whether it is in groom, plan, perform, inspect and adapt (daily scrum), inspect and adapt(sprint review) or inspect and adapt (sprint retrospective). In addition, please be specific about where it occurs in a subpicture of a stack of items or a subpicture of a spreadsheet of people and columns of tasks for each person. CP2 Item 4: CP2 Item 5: CP2 Item 6: CP2 Item 7: CP3 Item 3: CP3 Item 4: CP3 Item 5:

## 1.7 See Figure 11-3: Flocking isn't the result of top-down planning

Please compare this figure to Figure 11-4: Flocking: siimple rules and frequent feedback. What is the point that Rubin is making?

## 1.8 See Figure 11-6: T-shaped skills

a. Identify your broad skills. List three.
b. Identify your deep skills. List two.
c. Is writing html code a broad skill or a deep skill for you?

# 2 Looking at Chapter 4: Sprints

For this question, please read the last five pages of Chapter 4.

## 2.1 Getting a software project to Done or DoneDone

The definition of done is explained in Table 4.1: Example Definition-of-Done Checklist.
On the last page of Chapter 4, Rubin writes: "Sprints should produce a potentially shippable product increment that is completed in conformance with an agreed-upon definition of done."
Write three questions you could ask each other to help determine whether each team member's choice is appropriately sized.