SWE 5110

**Requirements Engineering**

**Spring 2018**

# Project Assignment 11

## Due by midnight on April 10th

**Please submit electronically via Canvas**

**Assignment**

Now that we have developed an initial set of stories and the resulting functional requirements, it is time to begin the much larger task of discovering the set of qualities that CogBit must possess in order to be successful. For this assignment, we will focus on Product Usage Qualities: Safety, Security and Usability.

* In a working group, perform the following two steps iteratively:
  + Prepare a set of stories that illustrate the Safety, Security and Usability features of CogBit.
  + Prepare a set of dependency graphs similar to those in Figures 6.1 and 6.2 (slide on qualities and constraints). (Hand drawn and scanned for submission is fine.)
  + Give each story a unique ID that identifies the story as a Product Usage Quality story.
* Identify a set of formal requirements generated from the stories and dependency graphs. Give each requirement a unique ID identifying it as Safety, Security or Usability. BIG NOTE: many of the newly identified requirements will be functional requirements that will then be added to your current set with the dependency identified.
* Cross reference each story to the requirements generated from it. Similarly, cross reference each requirement to the story(ies) that generated it.

**Submit to Canvas Assignment 11.**

* Your new stories and dependency graphs.
* Your new requirements in the format specified on the following page.

Don’t forget to submit your time logs along with the assignment.

**Requirements Template**

Requirement ID: Requirement Type: Scenario ID(s):

Requirement:

Rationale:

Source:

Acceptance Criterion:

Dependencies: Conflicts:

Supporting Materials:

Modification History:

Requirement ID: a unique ID

Requirement Type: functional or quality (be specific)

Scenario ID(s): The IDs of the stories that contain the requirement

Requirement: a simple statement of the requirement. The “shall”.

Rationale: Why is this a requirement?

Source: Where did the requirement come from? An interviewee? Research?

Acceptance Criterion: After the system is constructed how are you going to show/prove that it meets this requirement?

Dependencies: Other requirements on which this requirement may depend

Conflicts: Other requirements with which this requirement may conflict.