**CMU SE 17-627 Software Security Engineering**

Case Study: Team Formation & Team Assignment #1

**Nancy Mead Due: Date shown on syllabus**

**READINGS:**

* <http://bsimm.com/download/> (no registration required).
* <http://www.owasp.org/>
* <http://msdn.microsoft.com/en-us/library/ms995349.aspx>
* <https://buildsecurityin.us-cert.gov/daisy/bsi/resources/published/series/bsi-ieee/568.html>
* <https://buildsecurityin.us-cert.gov/bsi/articles/knowledge/sdlc.html>

**DISCUSSION/EXERCISE:**

Objectives:

* Learn to select a security lifecycle approach
* Identify the activities supported by the selected approach

Assignment:

1. Form teams with 4-5 people. Each team should:
   1. Have one or more students working on a software development project that can be used as a software security case study
   2. Have reasonably compatible schedules in order to accomplish team work.
2. Each team will be asked to:
   1. Describe the project, justifying:
      1. Why is the project a good software security project?

OR

* + 1. What changes did your team have to make to make the project a good software security project?
  1. Describe the security lifecycle approach that your team intends to use and the rationale behind it. Why is your approach better than other approaches?
  2. Describe the activities that your chosen lifecycle approach supports.
  3. Describe the underlying development model (e.g. Waterfall, Spiral, Agile). Justify why it is a good model for this project.
  4. Describe how well the security activities fit with the selected development model.
  5. Compare your activities to the activities described in BSIMM3. Describe the similarities and differences. Are there important differences from a software security viewpoint?

1. Be prepared to discuss the case in class on the listed due date.