

CPRE 556: Scalable Software Engineering

**Homework 3** (30 points)

Assigned: February 7, 2006

Due: Thursday, February 16, 2006 by 10 pm

Name: Fill in on your answer sheet

Gather information and prepare a powerpoint presentation on a software security vulnerability of your choice. You can choose any vulnerability except the two security vulnerabilities already discussed in the class. The presentation should include:

- A description of the vulnerability
- Significance of the vulnerability (This part should answer questions such as: (a) has it been a serious issue? (b) Have there been major security attacks based on the vulnerability? Etc.)
- Code examples that illustrate the vulnerability
- Present your views on how it may be possible to detect detected and/or prevent the vulnerability by analyzing software.

Note that the class notes provide presentations on the *Buffer Overflow* and the *SQL Injection*. Use those presentations as a guideline to prepare your presentation.

Note: From now on, name your homework file as “last name-homewor knumber-cpre556”. For example, the name could be smith-hw3-cpre556.