# Fourth Deliverable: Implementation

The purpose of this deliverable is to do a brief security assessment of your system at the code level. You will choose **two** different pieces of source code (e.g. a file or module) and conduct a code inspection as a group. Your goal is to *find potential security concerns* in your product. You need to have manual code review and automatic static analysis. Your deliverable must include:

* **Inspection Selection**. Describe your motivation for selecting the **two** source code files that you chose.
  + Why did you choose these files for inspection?
  + After doing your code inspection, do you still feel you made a good selection? Any guidelines for finding files for code inspection?
* **Code Inspection Results** Provide a summary of your code inspections, including the following information:
  + What does this source code **do**?
  + What are the specific **assets** affected by this source code?
  + What **subsystem** is this code in?
  + If a developer made a **mistake** in this module, what kinds of security risks could arise?
  + Are there any **potential vulnerabilities** in this code? List them and describe each one.
* **Project-Specific Checklist**. A common practice for code inspections is to maintain a project-specific checklist, or a list of things that most source code files may have issues.
  + Provide a checklist of security concerns from your code inspections that the team ought to check for in their future code inspections. Make these specific to the project itself so that developers on your case study can benefit from your research.
  + Be sure to include the following types of concerns in your code inspection checklist:
    - Domain-specific concerns
    - Coding mistakes
    - Past vulnerability mistakes
    - Design concerns
    - Availability concerns
* **Summary** Provide a summary of your findings, generalizing upon the specific concerns you had in the code inspections.

# Grade: **5%**

* + **1 pt:** Inspection Selection discussion
  + **2 pt:** Code inspection results with automatic static analysis tools
  + **1 pt:** Checklist
  + **1 pt:** Summary Section

# Deadline: **Day Date**