

## **SWEET Project:      Securing ASP.NET 2.0**

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**Purpose:** This project presents a security guideline for ASP.NET version 2.0 applications. You will learn the security best practices for design, implementation, and deployment. You also use it to check an existing application during security review. Each guideline organizes key information and explains what to do, why you should do it, and how you can implement it.

**Teams:** The project is for a team of 3-4 students.

### **Problems:**

You are required to design and configure a web server based on the procedures from “ASP.NET 2.0 Security Guidelines” at <http://msdn.microsoft.com/en-us/library/ms998258.aspx>. Then complete the Security Checklist from <http://msdn.microsoft.com/en-us/library/ms998249.aspx> for Design, Auditing and Logging, Authentication, Authorization, Code Access, Data Access, Exception Management, Input/Data Validation, Impersonation/Delegation, Parameter Manipulation, Sensitive Data, Session Management, Deployment Considerations, and Communication Security.

Write a report to answer the following questions:

- 1) What part of the security is not implemented?
- 2) Using the web vulnerabilities auditing tool on SWEET to search for vulnerabilities.

### **Project report**

The reports should summarize what you have accomplished for your term project. It should have the following sections:

- **Cover page** – List the topic, the names and email addresses of all team members.
- **Introduction** – Introduces the topic, the problem and the goal of the project.
- **Background** – provides background information about the topic being investigated.
- **Lab Design** – Describes the lab exercises that you designed to investigate the problems.
- **Results** – Describes the results from your lab and what you have learned from this lab.
- **Conclusions** – Discusses your contributions, impact of your results and maybe future works.
- **References** – List any bibliography that you have used in the project.

### **Presentation & Lab Demo**

Each team will present 4 or 5 topics from the Security Checklist in PowerPoint slides and demo your results using SWEET virtual machine. The presentation should give some background on your topic, describe the problems that you are trying to solve and explain what you did to tackle the problems.