Introduction

You have been hired by a startup company, USociety, which has received reports from the well-known hacker group Fcity that their customer data was breached. They need you to identify how the attackers got into their system, extracted all of their customers' data, and any other security holes that their application might have. This security audit is considered the company's highest priority, and they need your help.

You will need to identify which OWASP Top 10 security issues the vulnerabilities belong to and prioritize the list based on its severity. You will also correctly match attack vectors to the OWASP Top 10 definition.

You will be given some static code and a web application (provided to the student). You will conduct a manual web application test to find all vulnerabilities and create write-up documentation to help the development team patch the code. The write-up documentation should clearly outline the steps needed to reproduce the security issue and best practices to support the development team in better understanding the issue.

At the end of this project, you will have the hands-on skills needed to tackle application security. You should be proud of this accomplishment.