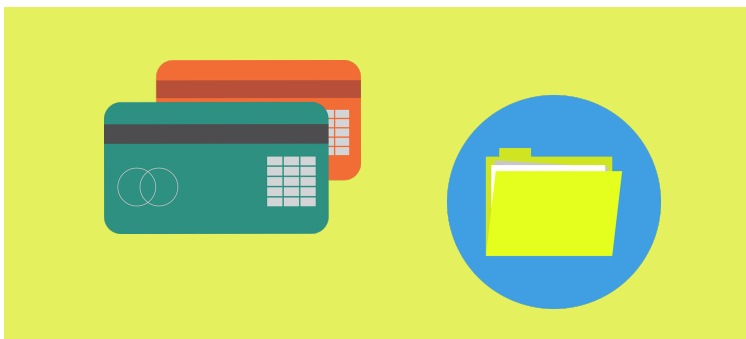


Application Security Testing

Application Penetration Testing on an Ecommerce Platform for a Government Department

Who is the client?

The client is a major city government department from the U.S. The department is responsible for managing public access to records and collecting money for providing copies of records.



What was the client's need?

The project was to create a secure ecommerce site that would enable public and corporate facilitators to purchase records online from the department. The client, being a government body, had strict requirement of security compliance to be put in place before the solution could go live.



What services did Data-Core provide?

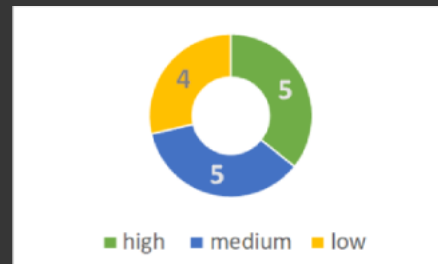
Data-core was employed to build the ecommerce platform and ensure that appropriate security measures would be adhered to. Data-Core's development team took special care of using modern secure coding practices right from the onset of the project. It was then incumbent on the Penetration Testing team to make sure that the solution was robust and secure, abiding by the stipulated guidelines. Data-Core worked closely with the agency's certifying body to ensure that all the loopholes were taken care of and every security recommendation was followed unabridged.

Application Security Testing

What other services did Data-Core provide?

Data-Core's Pen-testing team did a fantastic job of identifying vulnerabilities in the solution after the alpha version was available for testing. It took some time for the Pen-testers to break into the application, but eventually managed to bypass the security implementation and perform unauthorized operations. Over a period of a month or so, the team conducted several rounds of attacks and recorded almost 14 vulnerabilities of varied severity in the solution. Some of these vulnerabilities were related to:

- Cross Site Scripting (XSS) attacks
- Horizontal Escalations
- Vertical Escalations
- Password Salt Strength
- Server Profile Revelation
- Data Encryption Strategy
- Cookie Encryption

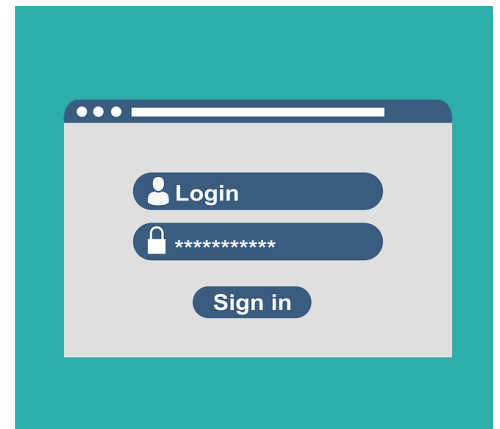


Of all the vulnerabilities reported, triaging was done based on severity as high, medium and low. The idea was to resolve the high severity cases first followed by the mediums and the lows.

The Pen-testing team worked in close collaboration with the Development team and the DevOps team so that the vulnerabilities could be remediated, and changes deployed to Pre-production in quick time for subsequent testing iterations. The team, in addition to performing manual attacks, automated several test cases to expedite the whole pipeline. This approach helped immensely to keep pace with the approaching deadline.

In Summary

Data-Core recorded details of all assessments, attacks, and remedies applied to help the client be in the know of the developments. Detailed reports were documented with necessary illustrations keeping in mind the audiences with diverse technical cognizance. The solution has now been certified by the agency's Security Governing body and approved for production release with due approbation.



Discover the Data-Core Advantage.

Learn how we can help your company be more relevant, effective and efficient.



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