

Security Testing for Web-based Applications

Mitigating security related
issues in the web
application

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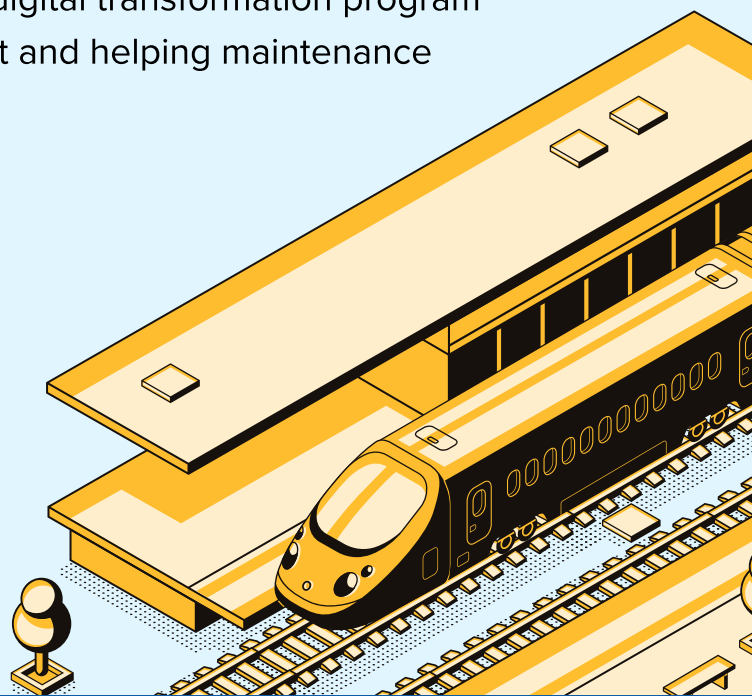


OVERVIEW

Our client develops the railway infrastructure in England, Scotland, and Wales. They have developed 20,000 miles of track, 30,000 bridges, thousands of signals, level crossings, and stations.

Our client's Intelligent Infrastructure is a digital transformation program focused on improving asset management and helping maintenance become proactive rather than reactive.

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CHALLENGES

- Provide proper access control to different end users as there were multiple user roles.
- Prevent the datasets from being breached
- Secure uploading of different types of datasets with large size
- Preventing the overall environment from being altered by malicious users
- Avail an audit report post the security testing for the sign-off of the application

SOLUTION

- **Exhaustive testing of OWASP** categories to ensure that the system is safe and immune to attacks.
- **Reported security-related issues in real-time on the client defect portal** for a quick resolution and retested to ensure that all reported issues have been fixed.
- **Using techniques** such as **Vulnerability scanning, Fuzz Testing, Access Control Testing** etc.
- **Using tools** such as **Burpsuite, Sqlmap, Dirsearch, Assetfinger** for full coverage

RESULTS



Detected and reported issues related to access control eliminating the probability of data breaches, theft, or system compromise



Reported and eliminated the directory listing issue which would have resulted in Personal Identifiable Information disclosure



Detected a Store Cross-Site scripting vulnerability in the file upload



10
Vulnerabilities were reported and fixed

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