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# Healthcare Industry Mobile Application CASE STUDY





# Healthcare Industry Mobile Application



## Business Situation

TwinTech Solutions received a request for a mobile app security assessment (report & certificate) to ensure patient data privacy and meet industry regulations. This is crucial for identifying and remediating vulnerabilities. The development team needs support to fix these issues. Maintaining robust app security is vital for both user trust and compliance.



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## CHALLENGE



1. App uptime and reliability, especially during emergencies, remain paramount



2. We continuously identify and remediate vulnerabilities to mitigate cyber threats.

3. Robust security measures to encompass various security controls



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TwinTech had a Kick-Off meeting with firm's CEO and IT Manager to define PenTesting scope



Completed an application walkthrough to gain a comprehensive understanding of the application's workflow and underlying technologies





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Audited the data encryption controls to ensure the data protection in transit and at rest



Suggested advanced AI/ML Authentication and Authorization for user logins.



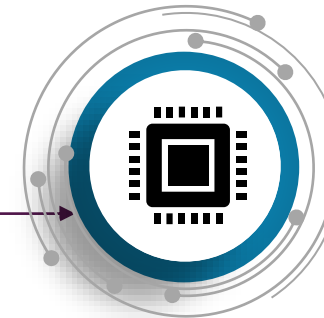
**Solution**



An elaborate PenTesting exercise was performed to ensure perimeter defense is adequate, and only the online services required for deployment functionality purpose is available and secure.



Separate fuzzing testing was performed on the application.

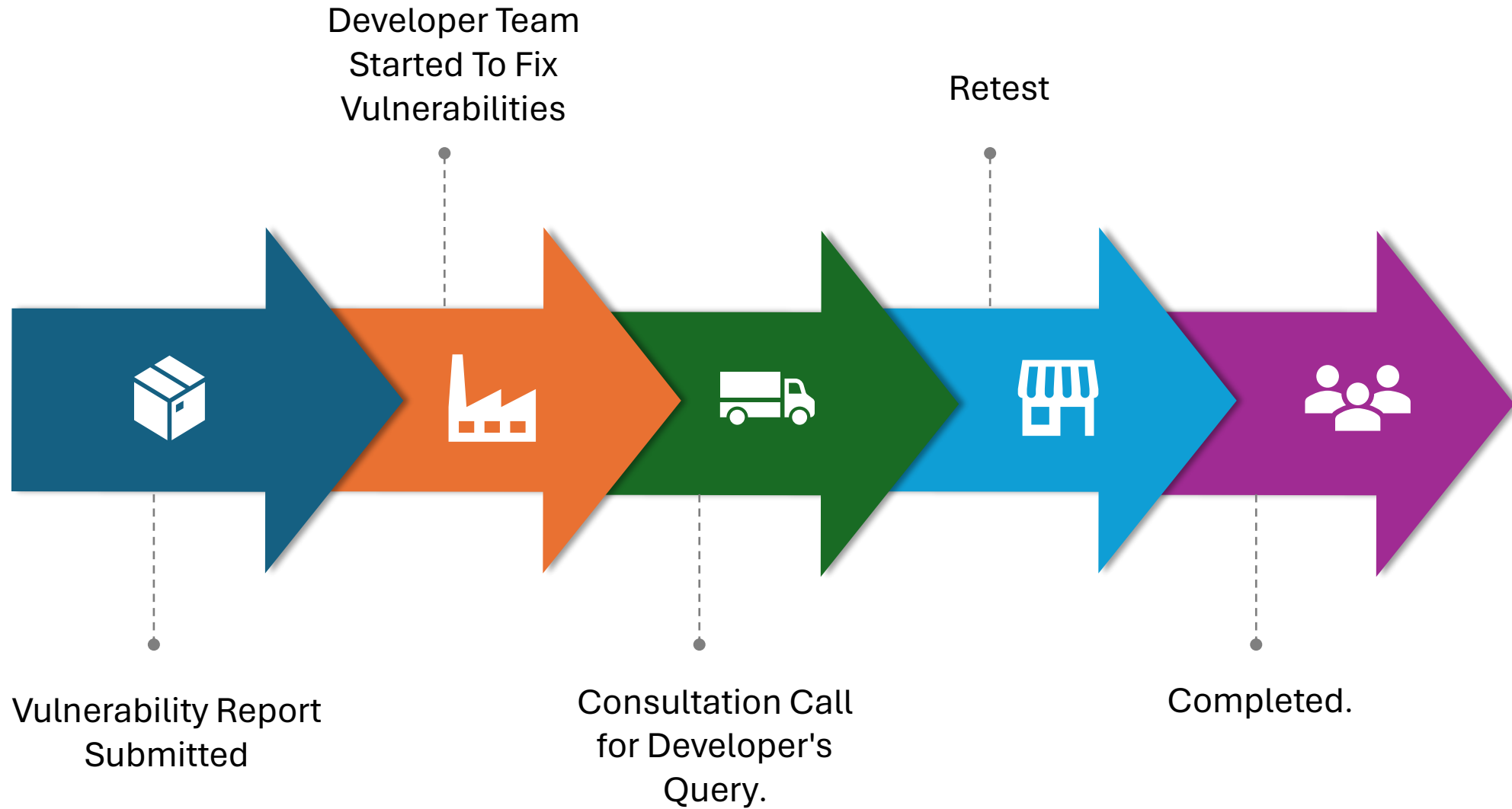


Recovery plan was verified to ensure the app can be quickly recovered in case of outages or disruptions.





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## About Client & Client Team

- HealthCare Company Based out of USA.
- Director IT Applications

## Client Needs

- Ensure patient data privacy Resilient
- Comprehensive mobile penetration test
- Cybersecurity enhancement

## Key Strategies Implemented

- Comprehensive Testing Approach
- Thorough Vulnerability Identification
- Holistic Security Enhancement
- Business Confidence and International Recognition



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## BENEFITS



Security Assessment which helped them gain confidence for future such plans.



They could secure business contracts with firms in Europe without any data privacy issues.



As an outcome of penetration test, vulnerabilities resulting into data leak were found, and fixed by deploying appropriate IT policies and software checks. This helped IT firm achieve a better internal security.

