



Payatu Casestudy

# Source Code Review of an Internationally Renowned MNC

# Examination of the source code for a transnational corporation.

Our client is a global pioneer of multiple industries and was a couple weeks away from rolling out its all-in-one digital platform.

This MNC is a highly recognized and reputed group in a vibrant set of industries because of being built on the values of integrity, responsibility, excellence, and unity. This client, the global enterprise, has a presence in over 100 countries spanning across 6 continents.

Keeping in mind the ethics, values, and excellence of the company, Payatu decided to be a part of their latest upcoming venture - a digital platform.

Their product incorporates all their services and products integrated into one platform to address the needs of Indian consumers and businesses.

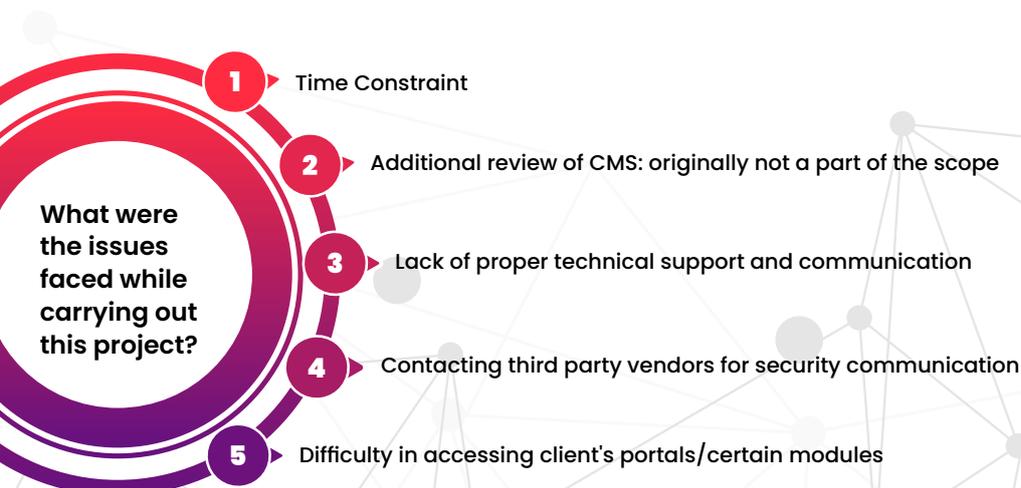
To make their digital platform robust and fool-proof from intrusions, our client wanted to conduct a source code review.

## What was expected out of this project?

- Reviewing the code of the client's applications
- Reviewing the code of all the acquired enterprises of the client spread across domains such as - Electronics, Lifestyle and apparel, FMCG, Grocery delivery, Hospitality, etc
- 5 Lakh+ lines of the code were written in Java and Java Script
- Reviewing the code of the client's third-party CMS
- Running tools on third-party modules for checking known vulnerabilities

## What were the issues faced while carrying out this project

- Time Constraint
- Additional review of CMS – originally not a part of the scope
- Lack of proper technical support and communication
- Contacting third party vendors for security communication
- Difficulty in accessing client's portals/certain modules



## Details

**Customer:** Global MNC

**Industry:** Consumer Internet Umbrella

**Location:** Mumbai, India

**Presence:** Across multiple countries

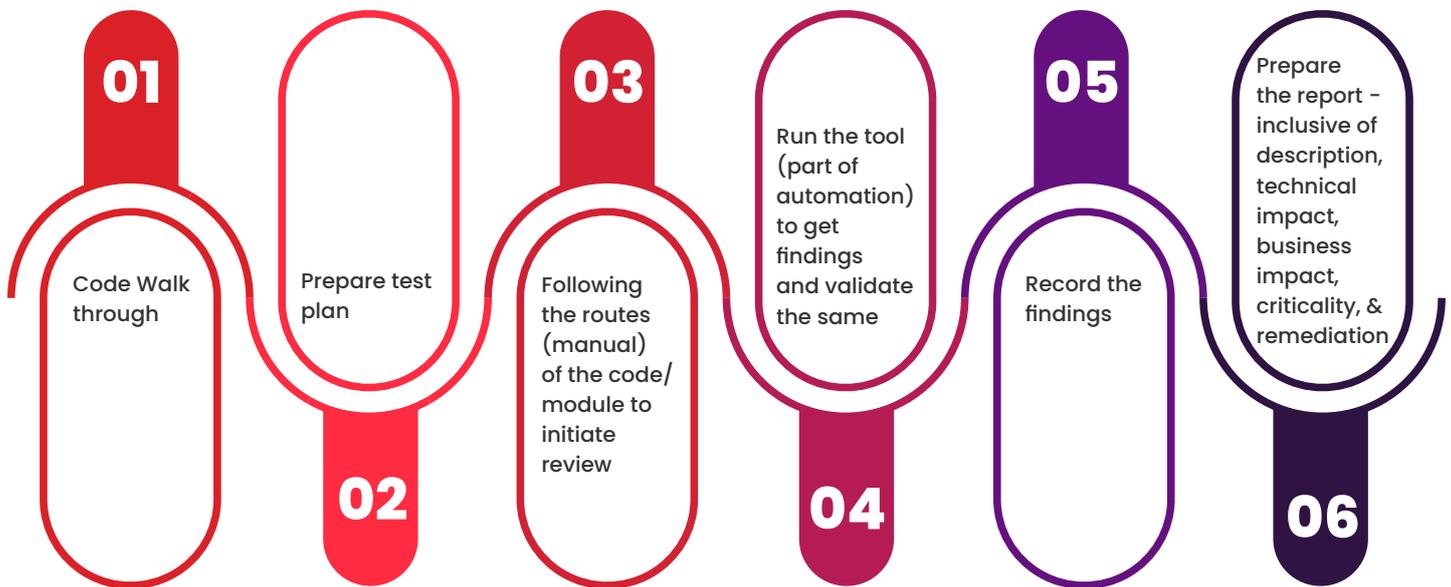
## Business Impact

### Identification of Vulnerabilities that could affect -

- Hardcoded Sensitive information
- Misconfigured AndroidManifest
- Insecure Communication
- Insecure Logging
- Module in use

**Help with evolution of security needs against emerging threats to the code of the application.**

## Step by step process of the source code review



## Expert Payatu Bandits' Recommendations

- 1 Ensure all the endpoints have authentication implemented
- 2 Implement user authorization based on role-metrics
- 3 Use the latest stable third-party module

# About Payatu

Payatu is a Research-powered cybersecurity services and training company specialized in IoT, Embedded Web, Mobile, Cloud, & Infrastructure security assessments with a proven track record of securing software, hardware and infrastructure for customers across 20+ countries.

Our deep technical security training and state-of-the-art research methodologies and tools ensure the security of our client's assets.

At Payatu, we believe in following one's passion, and with that thought, we have created a world-class team of researchers and executors who are willing to go above and beyond to provide best-in-class security services. We are a passionate bunch of folks working on the latest and cutting-edge security technology.