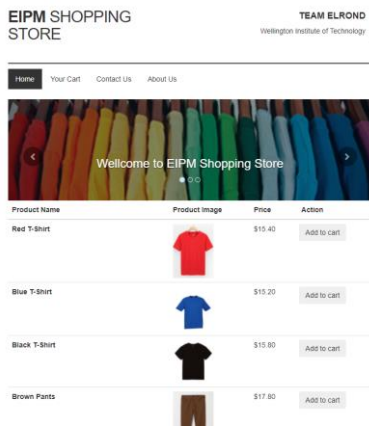


# Project Verifone EIPM

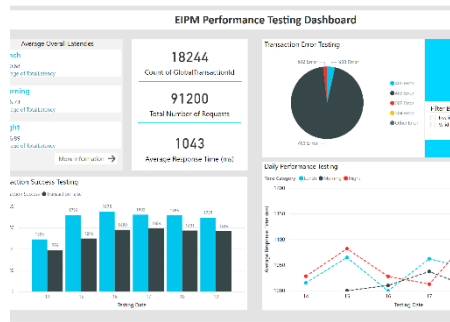
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Advisor: Richa Panjabi

Client: Verifone New Zealand



E-commerce website



Performance Test Dashboard



Project Team

## INTRODUCTION

The e-commerce industry has come a long way since its inception, and the current pandemic has further fuelled the innovations in this sector. Verifone Inc. is one of the largest FinTech companies worldwide, and they are launching a new global product that will support e-commerce transactions of their third-party merchants.

Project Verifone E-commerce Integration and Performance Monitoring (Project Verifone EIPM) aims to test and optimise Verifone's e-commerce Hosted Payment Page (HPP) API. The project has been initiated to achieve two primary goals. The first goal is to plan, design and develop an e-commerce website that uses Verifone's API to process payments. The second goal is to carry out a performance and load test on the e-commerce HPP API. The test will help discover and identify anomalies caused by the increase of load to the API. The API optimisation will also be a byproduct of the performance test.

## DEVELOPMENT

The project opportunity came as the team used external resources to find an external client with a potential project that would fit the team's skill composition. Verifone provided us with the project briefing, and the group decided to take the project on. First, the team met with the client to verify the information from the briefing, gather requirements, and establish a good work relationship. Then, the team proceeded with the project bid so that work could begin.

The Business Proposal was the initial milestone of the project team. A plan was established for achieving the goals and an overall approach to the project.

Scrumban was the chosen methodology for the project as it fits both criteria needed by the client and our project team. The client prefers to meet on a timeboxed basis, while the team requires a flexible and collaborative approach to development. Thus, Scrumban was chosen as it fulfils both needs.

The e-commerce website was planned and developed based on Verifone's HPP API. It was created using Visual Studio 2019 Community as an integrated development environment (IDE) and was written in C# language based on ASP.NET Framework 4.7.2 and MVC architecture. While the database used is Microsoft SQL Server, and the Performance Testing dashboard was created using T-SQL and PowerBI.

As stated in the project's Business Proposal, the team committed eight weeks or four sprints, with two weeks duration for each sprint to accomplish the project's goals. After each sprint, a demo to the client was performed to ensure the client was up to date with the project's progress and gather feedback.

## CONCLUSION

Overall, the project was a success as it added value to the business. The client will utilise the e-commerce website developed, and the Performance Testing tools used in this project to test their other e-commerce APIs. As requested by the client, training guide on how to use the products were also provided for their future reference.

Apart from an approved requirement change, every deliverable has been produced and delivered within the agreed time.