



SUCCESS STORY HEALTHCARE

PELOTON DELIVERS WORLD-CLASS EXERCISE CYCLING IN RECORD TIME

Apexon automates 80% of test footprint for Peloton, speeding time-to-market



Peloton is redefining the way people exercise with a socially-connected indoor cycling studio experience for people to use on their own time in their own home

When Peloton initially launched in 2012 it was completely focused on development, with no QA resources in place. Peloton looked to Apexon for its expertise in Agile, test automation, and continuous integration to support its product development efforts and assure an exceptional user experience.



**NEW YORK-BASED
EXERCISE EQUIPMENT
AND MEDIA COMPANY**



**3.1 MILLION USERS AND
RAPIDLY GROWING**



**PRODUCES STATIONARY BIKES
THAT STREAM VIDEOS ON A
TOUCHSCREEN BUILT ON TOP
OF ANDROID**



Apexon worked with Peloton beginning in 2013 for over three years. Apexon was able to implement a Quality Engineering (QE) framework and solutions for testing all aspects of the tablet hardware and application involved in the Peloton offering.

THE RESULTS

KEY OUTCOMES



REDUCED REGRESSION TESTING TIME

Even with approximately 50 regression test scenarios, testing time was cut from 4 hours to 1.5 hours.



AUTOMATED TESTING

Using Selenium for Android, Apexon automated 80% of Peloton's test footprint, clearing out a long backlog of test requirements to accelerate Peloton's time to market.



ONGOING MONITORING

Application performance and functionality was continuously monitored by 10 screens running simultaneously.



FASTER TIME-TO-MARKET

And greater control over operational costs.

OUR METHODOLOGY

THE DIGITAL LIFECYCLE

Apexon works with companies across the digital lifecycle.



GO DIGITAL LAUNCH & EXPERIMENT



BE DIGITAL AUTOMATE & ACCELERATE



EVOLVE DIGITAL BE INTELLIGENT & AUTONOMOUS

Enable digital adoption in a quick and agile manner

Apexon Quality Pod created a comprehensive QE testing framework and implemented a Shift-Left strategy for ongoing quality control.

This enabled Peloton to focus on developing the best product, while Apexon provided QE for all aspects of the tablet hardware and application involved in the Peloton offering.

Build digital infrastructure and foundation for enterprises to scale

Apexon deployed parallel testing using 3 different test suites on 3 different Android devices.

Apexon automated 80% of Peloton's test footprint using Selenium for Android. This helped clear out a long backlog of test requirements to speed Peloton's time to market.

Leverage data engineering to make strategic decisions and get digital right every time

Apexon is working to automate the testing of a custom point-of-sale retail solution – an iPad app in use at Peloton's retail stores. The app is used for sales and connected to mobile payment platform Stripe for all transactions.

Apexon set up an ongoing monitoring framework for Peloton, with 10 screens running at all times, to check application performance and functionality and to act as a source of data for continuous integration.

QUALITY POD

A cross functional team of Quality Engineering resources with expertise across QA, testing and automation

THE CHALLENGE

A NEW FITNESS CONCEPT

Peloton was founded in New York's Silicon Alley in 2012 to create a new concept in fitness. The Peloton includes interactive team sessions streamed through a custom Android tablet. Sensors measure resistance of the bike and send that data to the tablet.



Making the rides realistic required a virtual-reality-like answer, so that the video streaming on the bike's tablet would correspond with the actions from the bike and vice-versa—all while designing social interactions to push and inspire the riders.



This required a combination of completely new and existing technology working together seamlessly, and while Peloton put all its efforts into product development, it had no QE resources in place.

THE SOLUTION

WORKING AS A TEAM

Apexon was able to provide QE for all aspects of the tablet hardware and application involved in the Peloton offering.

When Apexon implemented the QE testing framework, 80% of Peloton's test footprint was automated using Selenium for Android. In addition, regression testing time was cut by more than 50% – from 4 hours to 1.5 hours.

Apexon helped Peloton get their mobile, digital, and IoT initiative to market faster, more efficiently and more flexibly while assuring an outstanding user experience. The Peloton team was able to focus its efforts on creating and improving a truly unique and exceptional experience for its users.



HIGHLIGHTS OF THE IMPLEMENTATION:

- A comprehensive QE testing framework
- Regression testing use Jenkins to run CI
- Shift-Left concepts creating an ongoing quality control framework
- Approximately 50 regression test scenarios, including end-to-end testing and validation of the application and business use cases, covering multiple systems and time frames
- Parallel testing using 3 different test suites on 3 different Android devices
- Set up of an ongoing monitoring system, with 10 screens running at all times, to check application performance and functionality and to act as a source of data for CI
- Total BDD scenario testing in Smoke Test suite covering Android – CMS – Web integration testing
- Monkey stress tests



Apexon is a pure-play digital engineering services firm focused on helping companies accelerate their digital initiatives from strategy and planning through execution. We leverage deep technical expertise, Agile methodologies and data-driven intelligence to modernize systems of engagement and simplify human/tech interaction.

We deliver custom solutions that meet customers' technology needs wherever they are in their digital lifecycle. Backed by Goldman Sachs and Everstone Capital, Apexon works with both large enterprises and emerging innovators – putting digital to work to enable new products and business models, engage with customers in new ways, and create sustainable competitive differentiation.



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FEELING SOCIAL?

