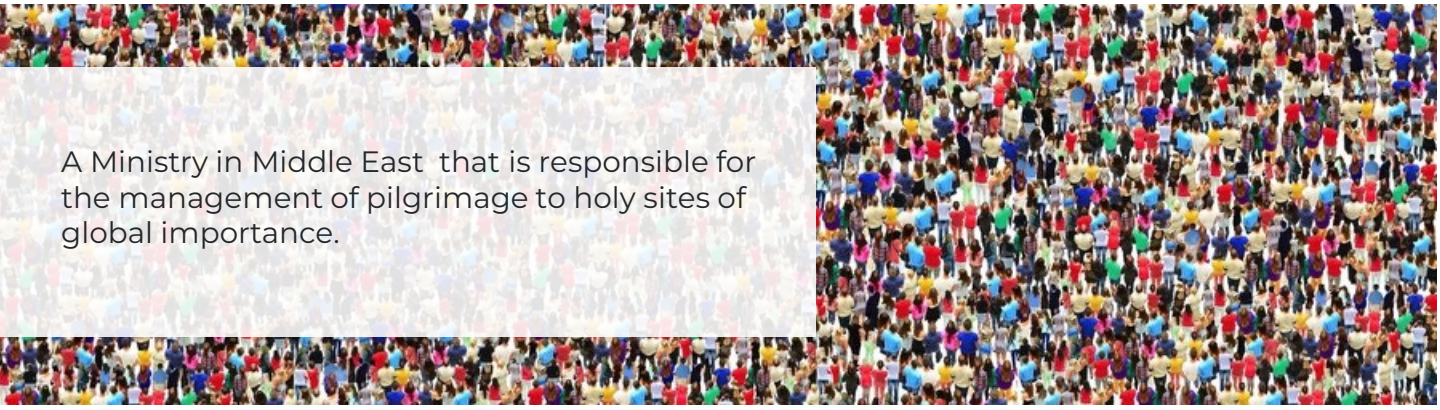

A Ministry in Middle East that is responsible for the management of pilgrimage to holy sites of global importance.

Load Testing Automation with Tricentis NeoLoad for Crowd Management App

Challenge

Automate load testing of large-scale Crowd Management Application that had various tasks such as heat map generation, large number of users, live incident tracking and alerting

Solution

- Developed a JAVA utility to generate user locations utilizing location data from Excel sheets. These generated user locations were then utilized within JMeter scripts to populate the heat maps.
- Implemented a web-socket plug-in to facilitate load testing of the chat application.
- Utilized JMeter and Tricentis NeoLoad for continuous performance testing, stimulating user loads ranging from 10,000 to 50,000 for the Crowd Management application.

Outcome

- Successfully generated heat maps, simulated chat messaging, and assessed incident loads with up to 10,000 users in real-time, thereby evaluating the scalability of the SAP Cloud Platform.
- Identified scalability issues during the initial round of execution, leading to adjustments in the SAP Cloud Platform configuration to ensure the application servers could scale appropriately according to the load.
- Completed the testing with the expected load, achieving a satisfactory transaction rate per hour.

Highlights

2.7 Average Response Time (secs)

10,793,390 Total Transactions