**zSentinel: A zEnterprise System Monitor**

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**Background and Problem:**

The zEnterprise is a powerful system capable of running many applications and solving many problems simultaneously. What this accomplished system is lacking is a quick method to see what is occurring within the big black box. Although there are certain applications which give detailed analysis and statistics about the zEnterprise, there is none which gives a single, simplified layout of what resources the system is utilizing.

**Solution:**

zSentinel is an application designed to be opened in a web browser which gives a simplified layout of real-time resource utilization of the zEnterprise on a single webpage. It uses REST to gather data from the Unified Resource Manager API, and uses a Python web server to send the data to a browser. The browser displays the data using a combination of traditional web elements and Google Charts. zSentinel provides a visual layout of the servers running on each host of the system as well as a tabular layout which gives details on each server. It also provides an overview of processor utilization of the mainframe itself. zSentinel is not interactive but designed to run on an external monitor to give an overview of the system at a single glance.