

## UCI Tests End To End EMR Eclipsys Enterprise System with AppLoader

“AppLoader was very crucial to our activation and played a key role in validating the system’s ability to support a production-like amount of transactions and data being exercised through the system before having to make the decision for Go/No Go.”

— Omer Cheema,  
Manager, Quality Assurance & Testing, UCI

### Background

UCI acquired an end to end EMR Eclipsys Enterprise application that communicates with various interfaces, scheduling and reporting engines. The UCI testing team was tasked with conducting an extensive load test aimed at uncovering potential risk areas of the application, prior to going live. Response time measurements of various functionalities in the system and failure analysis (number of failures per function) during the test, number of concurrent users doing various scripts, and health of their Citrix and backend servers all had to be gauged.

### Challenge

They needed a solution that worked with their enterprise application and all its technologies, as well as one that was flexible, usable, comprehensive, and cost efficient. “We are a small institution that is unable to spend large amounts of capital on applications that would be used one or two times a year for short periods of time” explains Omer Cheema, Manager, Quality Assurance & Testing, UCI. “Apploader provided all the functionality that was needed with all the required expertise through Automai’s professional services to plan, develop, and implement a testing solution that met our specific needs.”

The testing team was required to populate the system with massive amounts of data from the various automated scripts to test a daily system process that collects data using reporting services and then migrates that data to a downstream integrated system.

“AppLoader simply *Works* with our application’s various technologies” Cheema emphasizes. “It’s flexible and light weight, yet performs heavy duty work. Plus it’s cost efficient.”

As one member of the UCI testing team explains, “We work in a fast paced environment and we must meet our deadlines. We have a VERY small window of time to complete our performance tests between the build of the product and the delivery to production. We need to structure the flows, script them and load test quickly.” Compounding matters, the load testing environment at UCI is shared with other environments; therefore load testing had to be conducted in accordance with specific after-hours schedules.

### Customer profile

**Company**  
University of California, Irvine  
Medical Center

**Location**  
Irvine, CA

**Industry**  
Health Care

**Automai solution**  
• AppLoader

**Benefits**

- Easy to implement and start using right away.
- AppLoader is flexible and light-weight, yet heavy duty and cost efficient.
- We were able to use it before and after Eclipsys upgrade from 5.0 to 5.5 without any additional cost.

“Although we are extremely happy with the AppLoader tool, what really gives us the warm and fuzzy feeling is the professional services provided by Automai.”

— Omer Cheema, Manager, Quality Assurance & Testing, UCI

### *Load Testing from the Cloud*

When UCI came to the realization that their client hardware was not sufficient to generate a 500 concurrent-user test, Automai provided a hardware solution from the cloud. In the cloud solution Automai provides the client hardware and hits the application under test externally from outside the network. This change in approach was developed, structured and implemented in less than one week!

### **Test Results and Benefits**

UCI was able to provide their sponsors and project stakeholders with accurate metrics on performance and scalability, page response times and transaction response times as they were tasked with doing. Additionally they were able to address functional issues that were uncovered during the testing and get fixes in for those items before going live. Failures resulting from saving form data, deadlocks when adding visits, remote user access limits, and memory errors, to name a few, were all resolved, retested and validated, satisfying project stakeholders and allowing UCI to move forward with activation.

UCI Test Consultant Mike Woodard found that Automai’s consultants required minimal direction in the building of workflows. “They already had a comprehensive knowledge of EMR systems including the one we were implementing and it was seamless to dictate our workflows and let them build them for us.”

UCI’s appreciation for Automai’s consulting team didn’t end there. “They saved us time by being able to work independently and deliver time and time again with minimal rework” Woodard continues. “They cared about their work immensely and helped pull us towards the finish line with each test cycle.”

Omer Cheema sums it up with a ringing endorsement of Automai and AppLoader: “We ran up against obstacles that functional testing had missed yet we were able to log the issue for the functional team and then modify our scripts ON THE FLY. This fluidity and ability to adapt quickly is what makes Automai an industry leader in Performance testing solutions and services.”

### **About UCI**

The University of California, Irvine Medical Center is a world-class academic medical center and the only university hospital in Orange County. Opened in 1976, the 422-bed medical facility offers a full scope of acute- and general-care services, including a regional burn center, Level I Trauma Center, neuropsychiatric center, Level III neonatal care unit and a National Cancer Institute (NCI)-designated comprehensive cancer center. The medical center has more than 400 specialty and primary care physicians.

[www.uci.edu](http://www.uci.edu).

### **About Automai**

Automai is a technology leader in load testing and performance diagnostics of business applications and IT systems. We empower companies to maximize the performance and ensure the availability of their mission-critical applications. Founded in 2000, Automai is headquartered in Los Angeles, California and is privately held. For more information about our company and products, please visit us on the Web at [www.automai.com](http://www.automai.com).



2910 W. Broadway Suite 201  
Los Angeles, CA 90041  
Phone: 1.833.288.6624  
[info@automai.com](mailto:info@automai.com)