

KoçSistem

KoçSistem transforms software quality and accelerates delivery by using Micro Focus UFT One to build a culture of continuous testing.

Who is KoçSistem?

KoçSistem is a leading Turkish technology company that develops products and services and provides integrated solutions for more than 1,400 customers. The company employs more than 1,500 people, operates three data centers, and is a national leader in software R&D and security management.

Putting Software Quality at the Heart of the Business

Today, every company is a technology company. Across almost all industries, competitive advantage depends on providing new and better services within a seamless customer experience. As a result, the ability to develop high-quality software solutions at high speed has become central to business success.

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SEVDA AYNACI

Senior Quality Assurance Lead
KoçSistem

As the preferred technology partner of hundreds of businesses across Turkey, KoçSistem is an expert in effective software delivery. Burç Akbaş, Technical Agility Executive Team Leader at KoçSistem, comments: “The speed of change in business and technology is constantly rising, and business applications are becoming ever more sophisticated in response. This means that code-bases are growing more complex and difficult to manage. We wanted to ensure that we could continue to deliver high-quality, bug-free code at speed and scale, to help our clients achieve their strategic objectives.”

Sevda Aynaci, Senior Quality Assurance Lead at KoçSistem, explains: “Everyone who works in software quality knows the challenges we face: complexity leads to code quality problems, and without a good feedback process, defects are discovered late. This increases the cost of fixing bugs and delays delivery, which impacts customer satisfaction. All these problems stem from the same root cause: the lack of efficient test strategies, processes and tools.”

KoçSistem decided to shift its software delivery culture to emphasize agile practices such as test-driven development and the adoption of continuous testing.



At a Glance

■ Industry

Technology

■ Location

Turkey

■ Challenge

Create a culture that emphasizes software quality by adopting an effective test strategy, processes and tools

■ Products and Services

UFT One
UFT Mobile

■ Success Highlights

- + Eliminated 144 person-days of manual testing effort on one large development project
- + 70% reduction per sprint in time spent on manual testing in agile development process
- + Increased delivery speed by finding defects earlier, enabling more frequent deployments
- + Improved customer satisfaction by delivering higher-quality software, faster and at less cost

“UFT One and UFT Mobile will play a central role in our continuous testing strategy as we continue to strengthen the culture of quality at KoçSistem. This will help us to ensure that our clients adapt rapidly to meet new challenges in their industries.”

BURÇ AKBAŞ

Technical Agility Executive Team Leader
KoçSistem

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“Our strategic goal was to create a culture of quality throughout the whole organization,” says Burç Akbaş. “As part of that effort, we needed better tools for test automation.”

Robust, Intuitive and Powerful Continuous Testing

Following a series of proof-of-concept exercises to evaluate different automated testing solutions, KoçSistem selected Micro Focus UFT One.

“UFT One was quick and easy to install, the documentation was comprehensive, and the dedicated support from Micro Focus really accelerated adoption,” says Sevda Aynaci, Senior Quality Assurance Lead at KoçSistem. “Thanks to the solution’s advanced graphical interface, testers and business analysts can learn to create test scripts easily. We also liked UFT One’s object-recognition feature, which makes tests less fragile because they can adapt when an application’s UI changes.”

KoçSistem uses UFT One to enable end-to-end testing for its applications, and build a pipeline for continuous integration. The solution’s comprehensive test execution reports make it easy for testers and developers to understand test failures and identify and fix bugs quickly. Built-in support for more than 200 applications

and technologies also enables a consistent testing experience for all KoçSistem’s teams, regardless of the technology stack they are working with.

Sevda Aynaci recalls: “Some of our testers were skeptical at first, but we organized workshops to demonstrate that the recording and playback features of UFT One would enable them to create tests without needing deep programming knowledge. We also created a repository of frequently-used functions that they can easily integrate into their test scripts.”

Accelerating Delivery of High-Quality Software

With a continuous quality testing pipeline based on UFT One, KoçSistem’s development, testing and ops teams can collaborate seamlessly, test and deploy code more frequently, and discover critical bugs much earlier in the process. This improves software quality and reduces time to market, giving the company’s clients a key competitive advantage.

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The results speak for themselves: in one project for a large public-sector organization in Turkey, KoçSistem saw manual testing effort reduced from 42 hours to just 12 hours per sprint, an improvement of more than 70%. In total, this eliminated 144 person-days of testing, enabling faster delivery to the client at less cost.

“You have to be able to measure before you can improve, and UFT One’s reporting capabilities give us the insight we need to constantly optimize our software quality management processes,” says Burç Akbaş.

Building on the success of the project, KoçSistem plans to use UFT Mobile for mobile test automation and integration, and introduce containerization technologies to reduce the time and cost of building test environments.

Burç Akbaş concludes: “UFT One and UFT Mobile will play a central role in our continuous testing strategy as we continue to strengthen the culture of quality at KoçSistem. This will help us to ensure that our clients adapt rapidly to meet new challenges in their industries.”

Integrated 3rd party applications

- Sonarqube
- Karate
- Gatling
- OWASP Zap

Deployment environment

- Azure Pipelines
- AWS environment
- Docker
- Kubernetes, containerization with UFT Family

Development methodology

- Agile
- DevOps
- Shift-Left Testing Approach
- Continuous Testing
- Agile chapter model