

Application Performance

Digital Technology Services



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Agenda

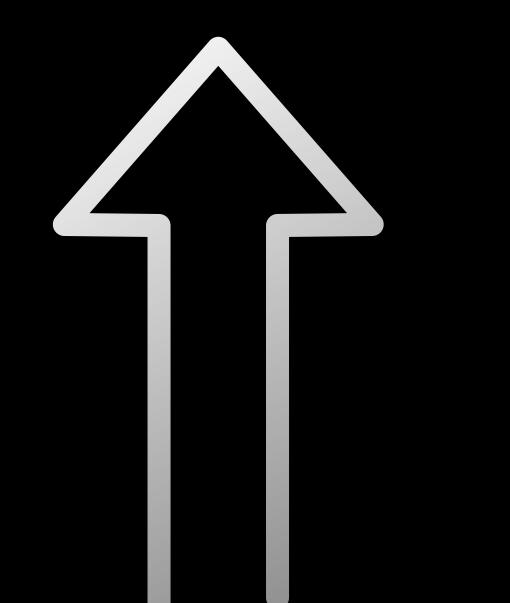
SORINT.lab @ a Glance

Overview

- Monitoring and Observability
- Pillars

Testing

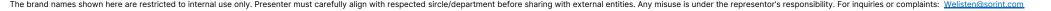
- Type of Testing
- Analysis & Team Adoption
- Sorint's Tailored Journey
 - Closer Look
 - Experts Involved
- Success Stories
- Bonus slide Related by Sorintains
- Going Forward





Is behind many prominent entities leading their industry. Assured!





Clients

By industry

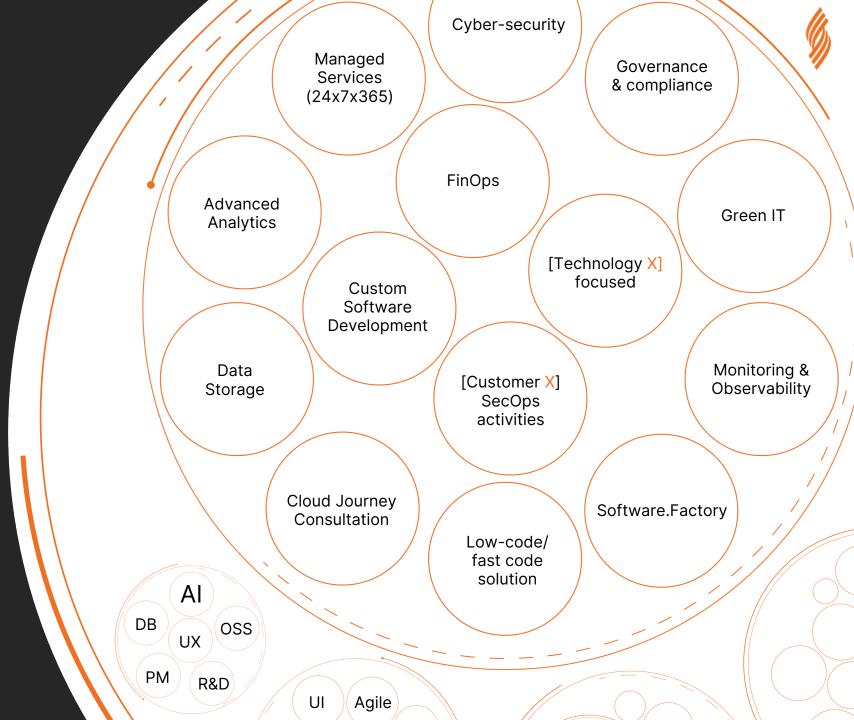


Tackling Challenges Together

A journey characterized by:

- Enabling clients to focus on core business.
- Secured solutions built upon best fitting technologies, practices, & latest findings.
- Quality, & cost optimization.

We harmonize passions!



SORINT.lab – IT Consultancy

We believe in technology that fosters **innovation and human wellness**. Our commitment towards every company, institution or community is to help them run their business and solve their problems through a choice of the best technology.

Providing **digital technology services & consultation** in fields of **software development, cloud solutions**, **third-party vendor solutions**, **cybersecurity**, **data center management**, **management of daily IT operations**, **data**, **machine learning**, **IT recruitment** and **professional education**.

Delivering services ranging from **discovery** and implementation to full support 24x7x365.-

SORINT provides IT services to prominent entities in Europe, USA, and Africa. Through a workforce of **1.5K professionals** and a presence spanning **17 offices** located in Italy, Spain, United Kingdom, Germany, France, Romania, Poland, United States, and Cameroon.



IT Consultancy



Advanced Analytics Cybersecurity Solutions

SORINTSEC SORINTSEC SOURCE SECURITY SORINTSEC SOURCESS Outsourcing

Let's Tackle Your Next Challenge Together

66 SORINT.lab is a company that's easy to do business with....

A well-known testimonial from a client

SORINT

JUIROS

Education		Methodology			Experience			
>40K	130+ entities	Vendor independent	Project management	ISO compliance	250+ large enterprises	>1K case studies	ELITE A EURONEXT COMPANY	The Make IT Model
Training hours per year	Certification. Foundation to trainer level	Unbiased transparent consultancy	Prince2, PMI, Agile, SCRUM/UX	27001, 20000 9001, 14001	Prominent entities in Europe, US, and Africa	Tailored journeys documented	Euronext Group's ELITE SME network	Our philosophy towards journeys

Application Performance

A service that aims to achieve the "peak performance" of a given software application.

By employing techniques and focusing on the activities of:

- Monitoring and observability
- Testing
- Analysis and team adoption

to embracing software quality assurance

Up to 11%

A combination of studies show that poor user experience will **directly impact** businesses' **conversion rate** from 1% up to 11%.

Beside customer's dissatisfaction and other negative factors

According to various source/references



Responsiveness



Addressing





Resource utilization



Overall user experience

Monitoring & Observability

Is knowing

- On Infrastructure(environment) and application level.
- Application Performance Monitoring (APM) and Observability techniques and tools facilitates the analysing of health, performance and the overall user experience of a given software.

Monitoring is capturing and displaying data,

while observability is understanding and evaluating the internal state by analysing

- Logs
 - Metrics (gauge, delta metrics, cumulative)
- Distributed tracing

Pillars of Monitoring & Observability



🗩 Full-stack overview 👘



Clarity. Data-driven 👘



Jtilize resources on cloud/infrastructure





Real time monitoring of security







Business value. Decisions, improve customer experience, responsiveness, and satisfaction.



For 12 consecutive years.

Dynatrace is the number one "Leader" in Gartner's Magic Quadrant for Application Performance Monitoring and Observability tools.

Sorintains offering the service are certified experts.

*Gartner June 2022

Testing



Keystone to ensure the best user experience

Functional and non-functional testing

The process of evaluating a software code, application, or system to identify bugs, defects, or functional issues. Ensure project meets requirements.

Types of Testing



Assess the functionality of a software in operation in various contexts. BE – FE – DB – Infra

Performance, resilience, and availability

Types of test that help ensure that the software performs optimally, is robust in handling failures, and remains available to users when needed.

End-To-End

Using simulated real data, the test focuses on verifying real-life scenarios that will then be execute by the end user, validating build stability and data integrity. The scripts can be repurposed and reused in regression testing.

Regression

Performed to validate that changes made have not introduced new defects or caused any regression in existing functionality. Involves retesting the previously tested features to ensure they still work correctly.

User acceptance (UAT)

Involves testing the software from the user's perspective to ensure that it fulfils the intended purpose and meets user/clients requirements.

Analysis & Team Adoption



How to approach

Assessment of project team's competencies, training, communication, and collaboration (flow and responsibilities).

Key factors:

- Methodologies
- Inspections
- Requirements definition service application/architecture
- CI/CD, version control, branching strategy
- Design, code reviews, & code quality
- Testing strategy & testing environment
- Test planning, case design, execution, analysis, reporting
 - Monitoring & observability techniques and tools

SORINT.lab's Tailored Journey

Embracing Software Quality Assurance

Application performance

Analysis & Team adoption

Monitoring & Observability

Defect Tracking, management and continuous monitoring

Defining Quality Standards Requirement Analysis Documentation and Reporting Compliance and Standards

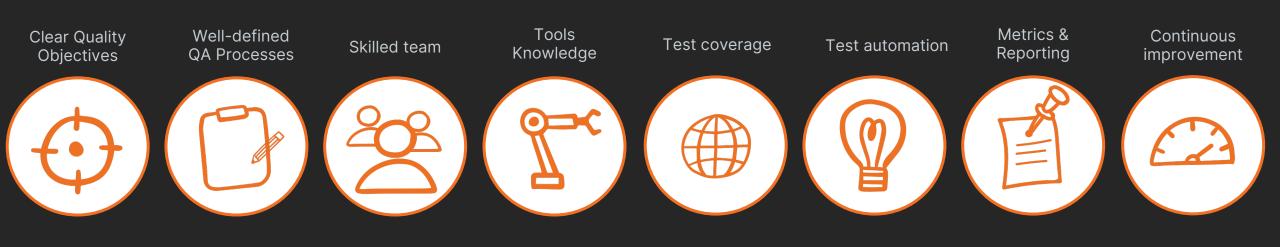
Testing

Test Planning Test Execution

SORINT.lab's Tailored Journey

Know-how

Every journey is a unique challenge, but our know-how to the key aspects:



SORINT.lab's Tailored Journey

The make it model approach is instantiated from

Industries



Nourished experience from huge variety of business sectors. At least 15 Adaptation



Adapting to client and project's needs, technologies and context

Involvement



Imparting knowledge, support and resources to help acquire the skills necessary Meticulous compliance

Extensive knowledge of "highly regulated" industries

Automation



A mechanism aiming to streamline operations

Agility



Day x

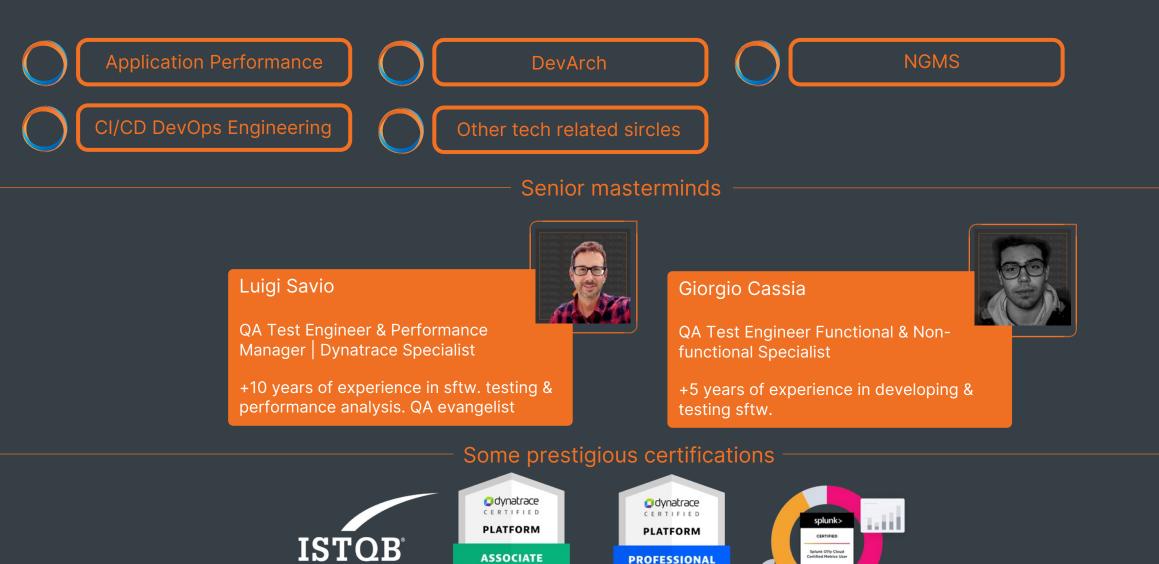
Continues support

Continues support

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Day y

Experts Involved



**

Certified Tester

Closer Look

Areas and field of focus

Monitoring & Observability	Testing	Analysis and Team Adoption	NGMS Support	All the journey	
Full stack, End-End monitoring.	Planning to execution and reporting	Proved analysis reports and advice on problem solving and	Level 1 – 2 – 3 of support	Side by side with	
From tools, configurating, reading	Methodology of testing	required QA improvements. Embrace QA culture	24x7 Service plans		
outputs, consultation, to reporting and	Testing Culture and know-how	and know-how		client's team	
educating	Implement automation testing and custom				
Infrastructure, application, user experience and log	framework testing				

Ø

Some Common Tools







Success stories

Delivered by: SORINTians

Confidential

European Certification Authority and Digital Trust Leader

Automated End-To-End Testing

Challenge

Client's requirement included:

- Introduce the concept of "testing application" in the enterprise.
- Introduce automated E2E testing to some software applications.

Going forward

Carried out regular assessment-based meeting to understands the environment and Client's team skills.

Accepting the challenge - Solution and Implementation

In a proposal form. We divided the solution into three phases

- Phase 1: Details on the testing strategy, implementation + vendor selection
- Phase 2: Timing, Solution info, testing info, team involvement
- Phase 3: Details on the tool, how to create tests, methodology. Test source files

Result & delivery

- In total we delivered 13 file features. 120 Test cases.
- Integrated tests in CI pipelines.
- Client's team involvement. Introduces and practice BDD methodology.
- Shared a hands-on experience and knowledge to client's team in various projects.
- Project expanded to include application performance monitoring (APM) and Observability on more applications.

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Success stories

Delivered by: SORINTians

Confidential

A Leading Healthcare Provider in Italy

Monitoring Application Performance

Challenge

- Complete coverage of everything happening on app and infrastructure level.
- Identify optimal size of infrastructure's resources and eliminate waste
- Detect issues with calls to 3rd party services.
- Main activities happen on the core application. Impacts the quality of service and the operation-side of the hospital
- Poor synergy with software vendor.

Going forward

Carried out regular assessment

Accepting the challenge - Solution and Implementation

In a proposal form. The solution proposed was divided into 4 phases: Titled as POC, Monitoring CUPS, Customization, Analysis.

- POC includes design for several units operating in the hospital.
- Monitoring CUPS which focused on the implementation of the backend replacement
- Customization user action, dashboard, availability test, session replay...
- Analysis and consultation on slowdowns, application exceptions/errors, slow or overly burdensome queries Problems with 3rd party services.

Result & delivery

- No impacting problems recorded during Going live and now.
- Intelligent monitoring with full stack observability.
- Examples of issues detected are:
 - Error on request http 4xx / 5xx with stacktrace code level
 - User action slowdown related issues.
 - Performance trends. E.g. non optimized queries
 - Libraries/service subject to security vulnerability e.g. (logj4)

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Bonus Slide

Related Solutions and Tools by SORINTians



SSL – Shift Security Left

Digital Technology Services

SSL promotes security as a common responsibility shared by all teams involved in software development. The service follows DevSecOps as a methodology.

inquire



NGMS

Core IT Services

Remotely manages IT infrastructures ensuring the correct functionality, support for vendor and Open-source products. Reducing response times to new problems. Speed, flexibility, method and technical preparation are part of our DNA.

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Going Forward

How we can move forward from here





BUILDING GREAT TECHNOLOGY



IT | ES | UK | DE | US | FR | PL | CMR | RO

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