



**STHENOS**  
TECHNOLOGIES

POWERED BY NEOSOFT TECH

Capabilities

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# Quality Assurance

# About Us

## Overview



4000+

Employees



10

Global Offices



9

Development  
Centers



Office Space

1,00,000+ Sq.ft.

## Clientele



1500+

Clients



50+

Countries



85%

Clients Retention



Industry Verticals

22+

## Achievements



2000+

Products Engineered



1500+

Applications  
Developed



12+

Awards



20+

Million Development  
Hours

## Partners



Microsoft

Google Cloud

Magento

shopify

WooCommerce

Great  
Place  
To  
Work.  
Certified  
INDIA

25+

YEARS OF  
EXCELLENCE



CMMI DEV/5

# Certified To Deliver Quality



This is to affirm that  
**Sthenos Technologies Inc**  
**Organizational Unit: Software Development Unit**  
has been appraised at  
**Maturity Level 5**  
of the Capability Maturity Model Integration for Development,  
Version 3.0



**CMMI DEV / 5**<sup>SM</sup>  
CMMI © V 3.0 / Exp. 2027-08-17 / Appraisal #72520

**ISO**

9001:2015  
Quality Management

**ISO**

27001:2013  
Information Security

**ISO**

20000-1:2011  
IT Management

**ISO**

22301:2012  
Business Continuity  
Management

# Our Capabilities



Functional Testing



Performance Testing



Reliability Testing



Accessibility Testing



Security Testing



Native Apps Testing



Regression Testing



Load & Stress Testing



UI Testing



# Our Expertise

We help businesses wherever they are in their digital journey. From consulting for a **digital transformation** to carving out a **technology roadmap**. Our expertise helps you to **drive ROI** from your digital initiatives.

## Digital Transformation

UX/UI Consulting

Web & Mobility Solutions

Enterprise API Management

RPA

Legacy Modernization

## Digital Product Engineering

Custom Software Engineering

QA Services

Maintenance

Managed Services

## Infrastructure & IT Operations

Cloud Consulting

DevSecOps

Cloud Migration

Cloud Management

## Data Management & Analytics

Data Engineering

Governance

B.I. & Analytics

## Artificial Intelligence

M.L. Models

Model Generation

M.L. Ops

Data Science

## Internet of Things

IoT Consulting

Software Defined Features

IoT Applications

## Innovation Lab

MVP & POCs

Rapid Prototyping

Emerging Tech

## Team Augmentation

Solution Architects

B.A.

Developers

Data Scientists

# What We Do

## Team Augmentation

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A team of 4000+ Battle Tested engineers across 100+ Different Stacks.

We are your Digital Factory, dedicated teams to supercharge your development throughput.

0 Operational Overheads.

Agile & On Demand.

## Fixed Scope

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We offer meticulously crafted project specifications and timelines for cutting-edge development, seamless integrations and feature-rich solutions.

The Sthenos Technologies approach ensures your projects are delivered with precision and excellence.

## Managed Services

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Our IMS services helps enterprises to run Business as usual.

With strong SLA driven services, 24x7 Support, Governance and Technology expertise, we help to optimize processes and costs.

# Our Quality Assurance Services

01.

## QA Consulting

- Testing strategy & implementation
- Test plan creation & verification
- Testing pipeline development
- BDD & TDD
- DevOps practices
- Automation

02.

## Infrastructure Testing

- Cloud adoption/adaptation testing
- Availability testing
- Compute/network/ storage testing
- DevOps & CI/CD enablement
- System resilience & process testing
- Infrastructure security

03.

## Digital Testing

- Web UI
- Mobile functionality
- Configuration testing
- Load balancer testing
- SMAC (Social, Mobile, Analytics, Cloud) testing
- Security testing
- Third party integration testing

03.

## Specialized Testing

- Emerging technologies – blockchain, hybrid apps, AR/VR etc.
- Configuration management
- Pre-emptive testing
- Hazard mitigation
- VAPT Testing

01.

## Data QA

- Data accessibility, quality, validity, integrity testing
- Database configuration validation
- Storage testing
- Table & column testing
- Schema testing
- Trigger testing
- Black box & white box testing
- Database backup testing

02.

## Testing Automation

- Automation of unit/ integration/ smoke/performance testing
- Code analysis automation
- ChatOps
- Sustaining Agile processes
- End-to-end testing automation

03.

## Managed QA Services

- End-to-end managed testing & Quality Assurance
- Customized testing methodologies
- Expertise with various testing tools
- Readily deployable talent
- Compliance with governance policies/standards

# QA Tools we use

## Performance & Load Testing Tools

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- Apache JMeter
- HP LoadRunner
- HP StormRunner
- NeoLoad
- LoadImpact
- WebLOAD
- LoadUI NG Pro
- LoadView
- AppLoader
- Appvance
- SmartMeter.io
- Rational performance tester
- LoadComplete
- LoadStorm
- Httpperf
- BlazeMeter
- Load Multiplier
- Loader.io

## Security Testing Tools

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- SQLMap
- Websecurify
- Safe3 Scanner
- Samurai Framework
- Nikto
- Aircrack
- OpenVAS
- Metasploit
- Nmap
- Wireshark

## Bug Reporting Tools

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- Atlassian JIRA
- Mantis
- Bugzilla
- Plutora Test
- Backlog
- Trac
- Redmine
- HP ALM
- FogBugz
- IBM Rational ClearQuest
- Lighthouse
- BugNET
- eTraxis
- Team foundation server

## Automation Testing Tools

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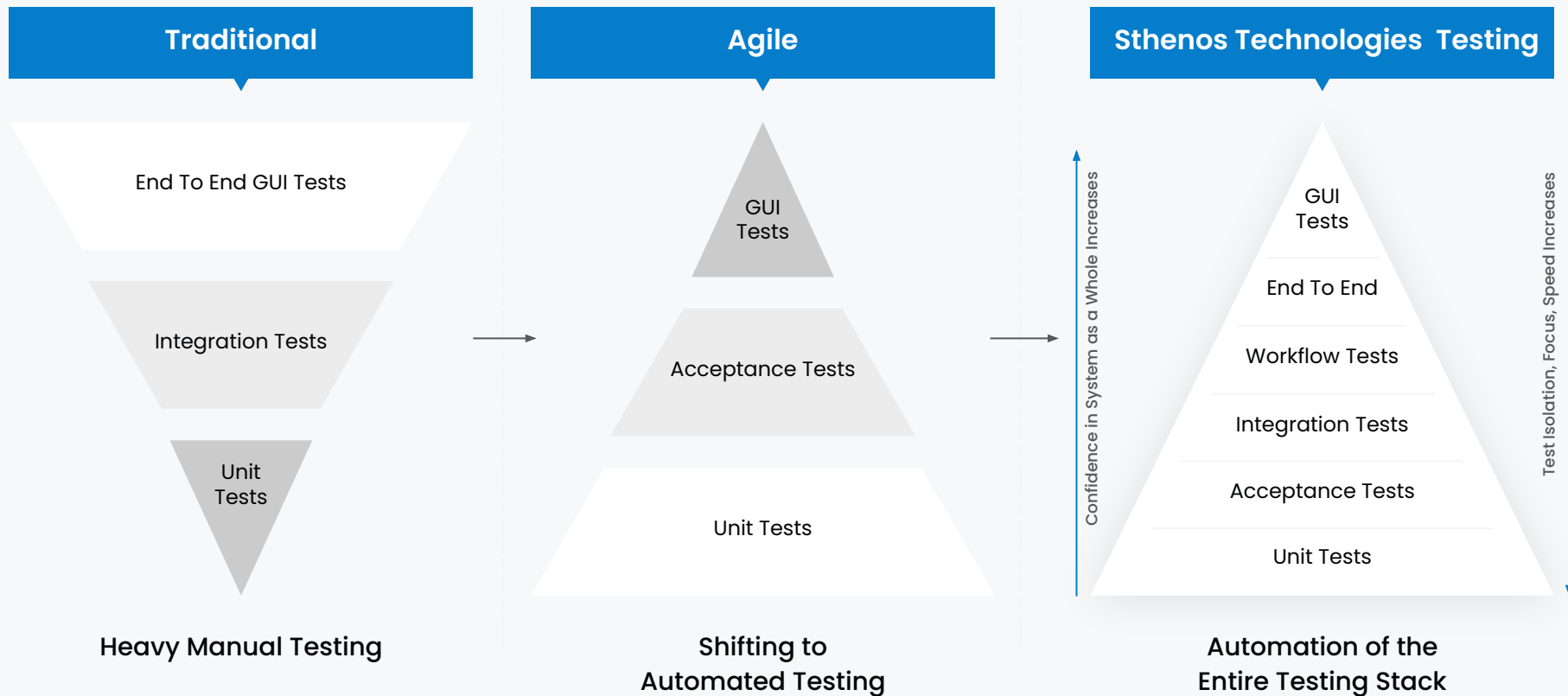
- Appium
- MonkeyTalk
- Robotium
- UI Automator
- Selenium
- Cucumber
- Silk Test
- Eggplant
- RSpec

## Programming Languages

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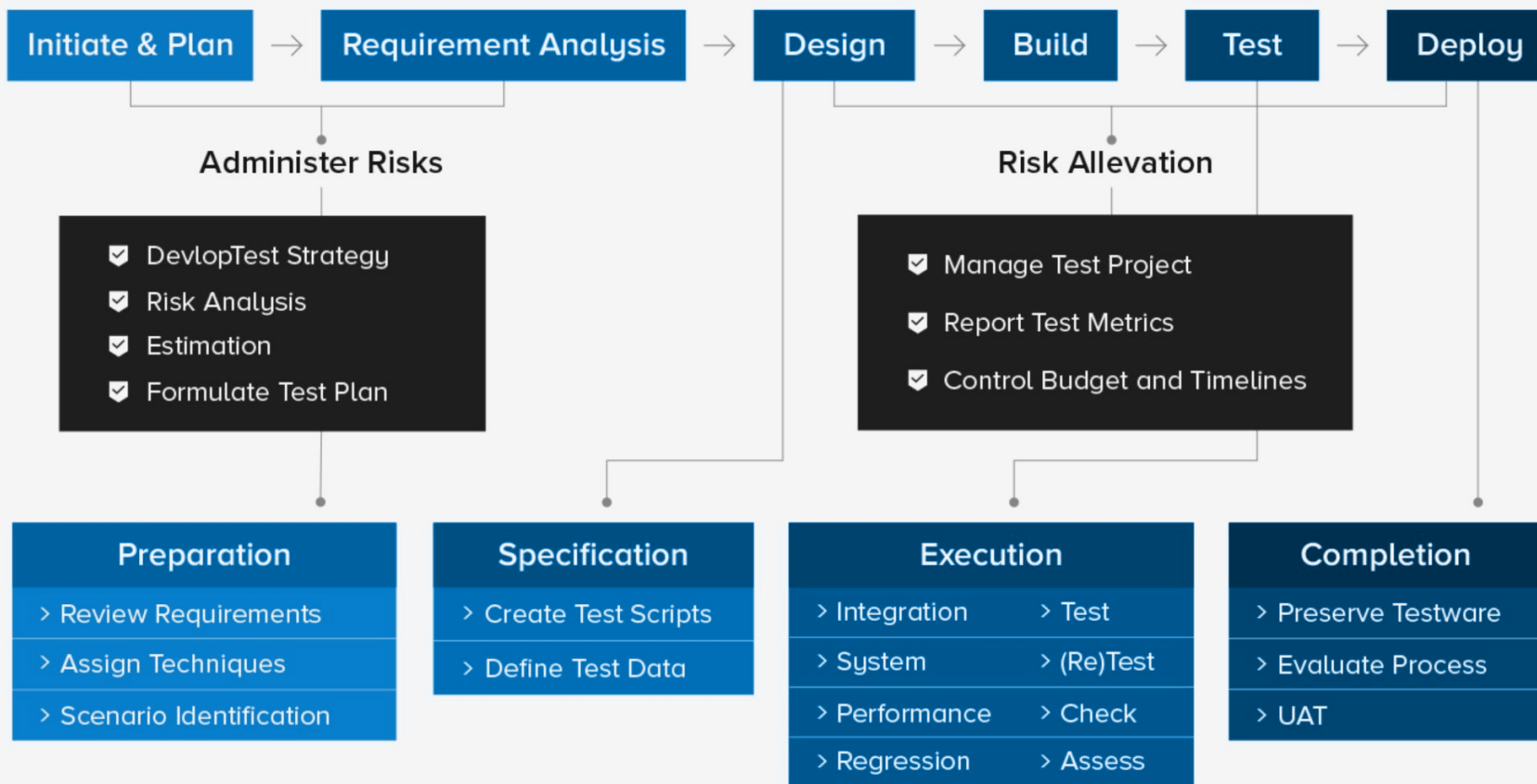
- C/C++
- Java
- SQL
- Python
- Perl
- XML
- HTML / CSS

# The Sthenos Technologies Edge

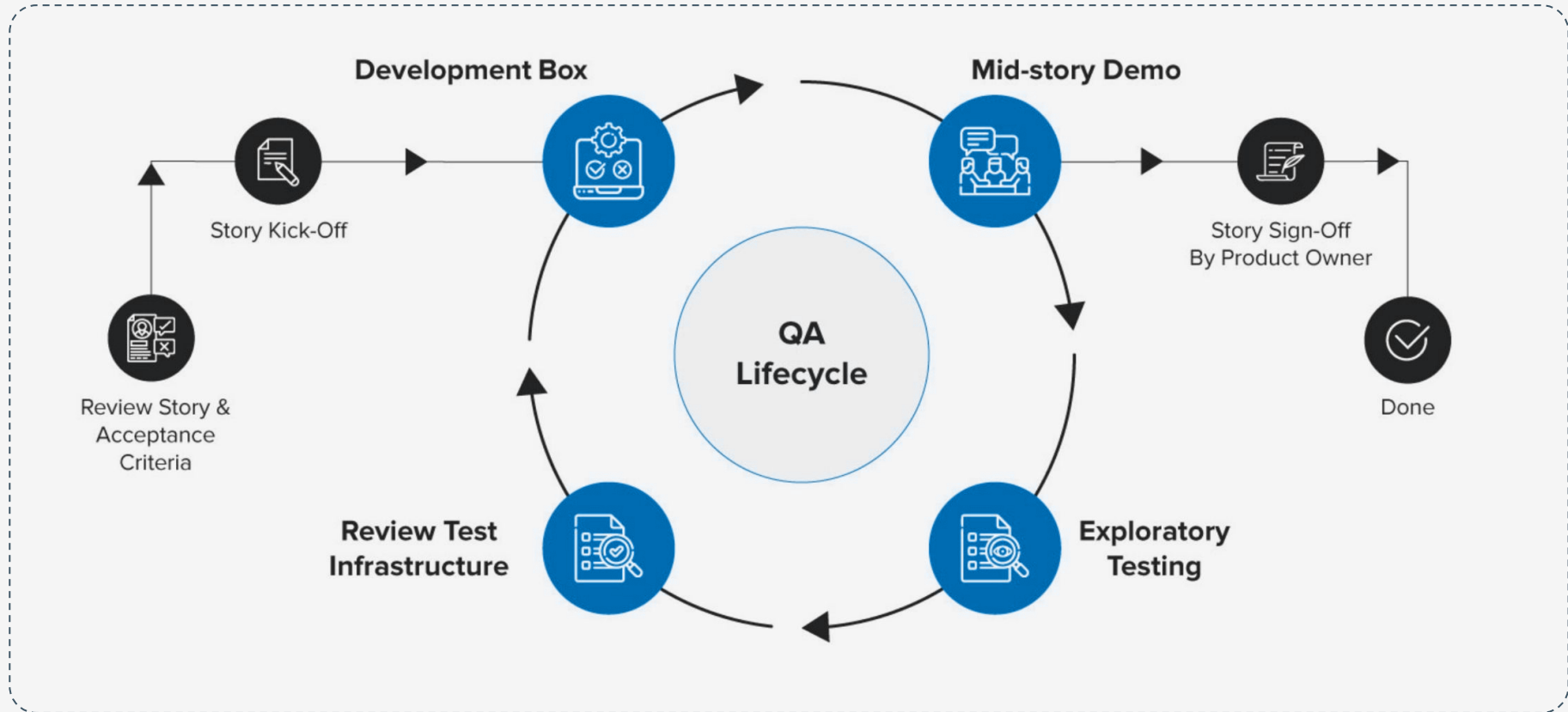




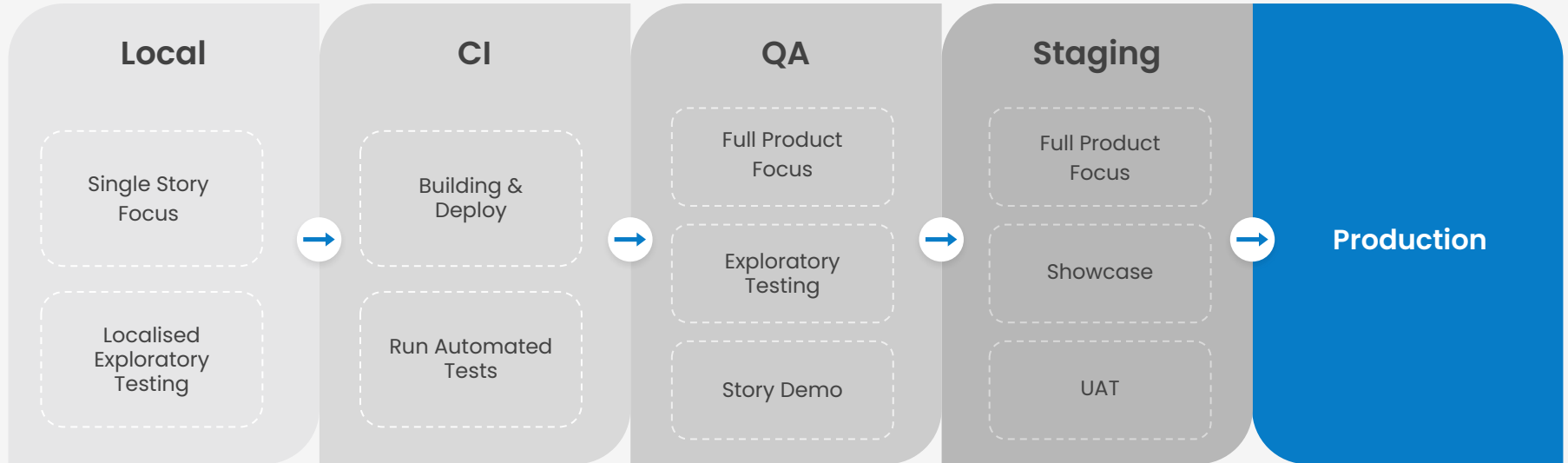
# Our Approach



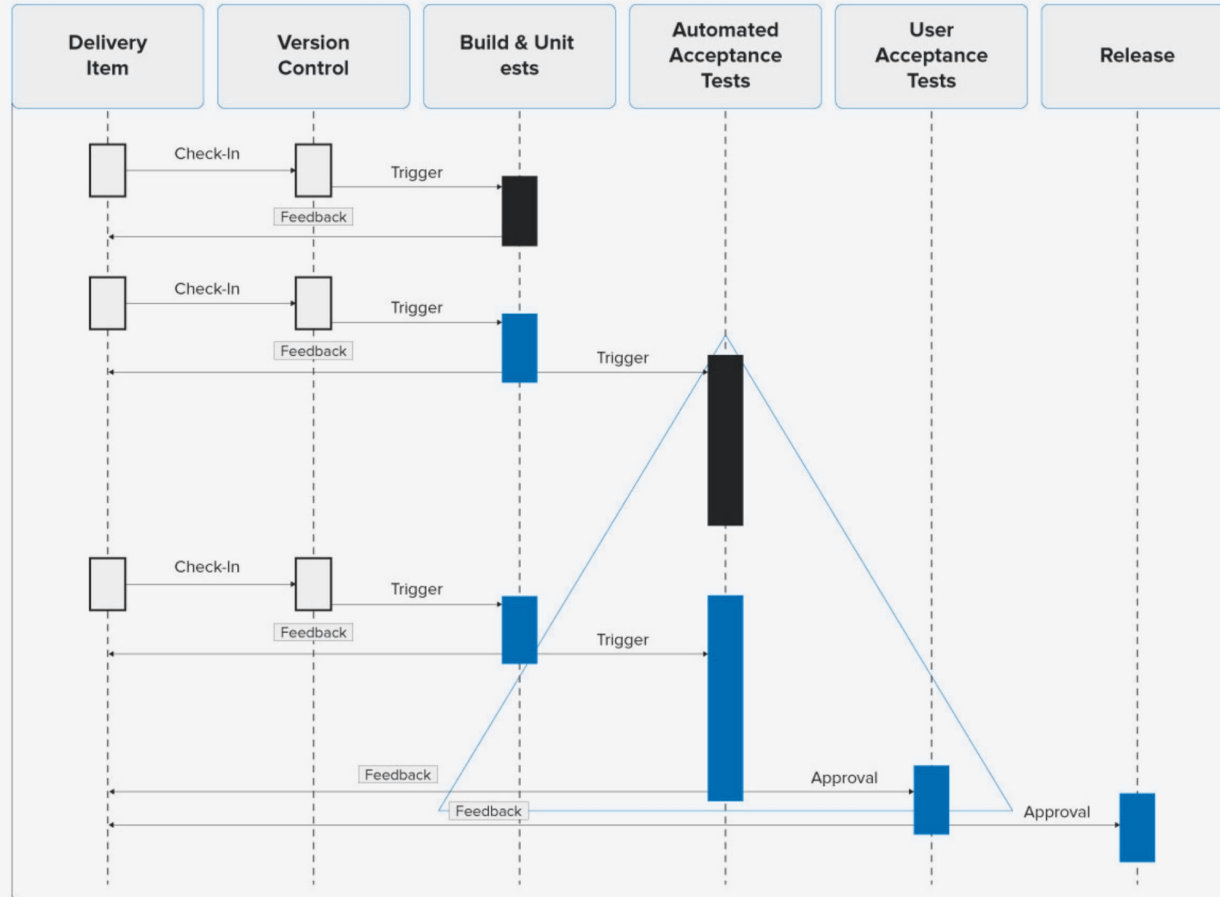
# The QA Lifecycle



# Multi-Stage Validation



# Our Process



# Selected Clientele

Deloitte.



BCG



McKinsey  
& Company



ebay



T Mobile



Forbes



Moët Hennessy



Zimmer

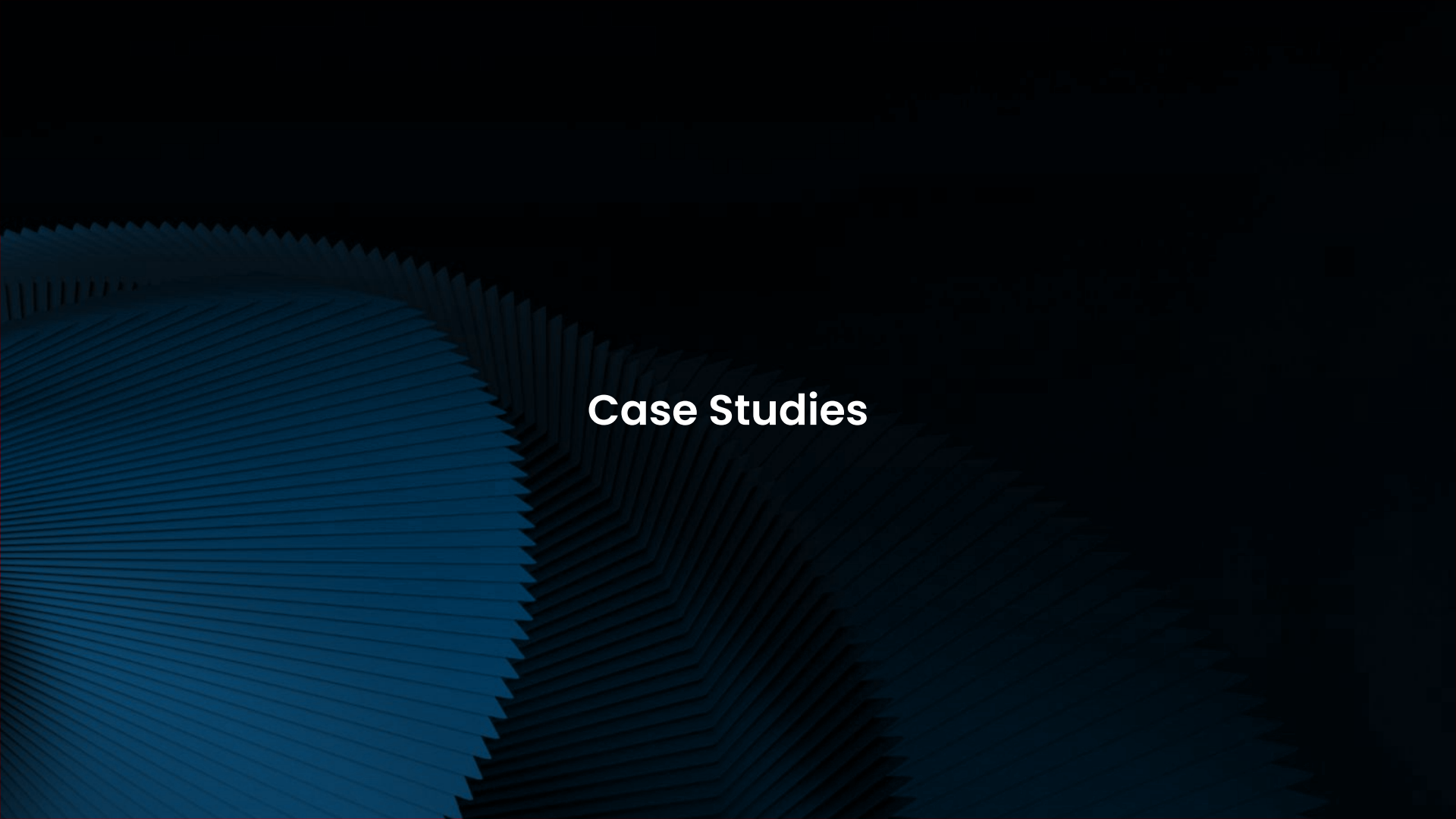


SONY



VOGUE





# Case Studies

## A UK-based Global Telecom Giant

Provided a comprehensive automated testing solution for the cloud-based web platform.

Performance Testing

QA Documentation

Cloud Infrastructure Management

Functional Testing

### Outcomes

#### 80% Faster Data Processing

- Enabled the platform to process large data volumes faster than traditional methods, improving overall efficiency and decision-making speed.

#### 4x Reduced Testing Costs

- Significantly reduced manual efforts, resulting in a substantial decrease in testing costs.

#### 65% Enhanced System Scalability

- Ensured the platform could seamlessly scale with increasing data volumes without compromising performance.

# Solutioning

## Challenges

- Handling massive and growing amounts of data without compromising performance.
- Ensuring the testing framework can handle automated testing as the platform evolves.
- Integrating data from various unstructured sources such as social media, which requires real-time processing and cleaning.

## Technical Spotlight

- Leveraged Amazon Redshift's columnar database structure for efficient data handling.
- Built automated testing scripts with Selenium and POM, reducing manual effort and ensuring consistent quality.
- Used Python scripts to handle unstructured data, integrating it with Spark for transformation and cleaning before processing.

## Solution Highlights

- Optimized large-scale data handling, ensuring efficient data management and quick access as the user base grows.
- Reduced manual testing efforts, accelerated development, and maintained high-quality standards.
- Allowed for efficient handling of unstructured data, integrating it seamlessly into the data pipeline for further analysis.

## Tech Stack





# A Tech-driven Organization Developing Innovative Learning Solutions

Conducted comprehensive server-side API testing, code coverage, and load testing.

Performance Testing

QA Documentation

Scripting

Load Testing

## Outcomes

### 3x Enhanced System Performance

- Reduced latency and ensured smoother operation under high-stress conditions, resulting in a more responsive application.

### 45% Increased Code Reliability

- Improved the stability and reliability of the application, reducing errors and system downtime.

### 70% Streamlined Testing Process

- Reduced manual intervention, accelerating the development cycle and ensuring consistent quality across releases.

# Solutioning

## Challenges

- Managing a high number of concurrent users while maintaining performance and stability.
- Ensuring that the codebase remains reliable and free from critical bugs as the system scales and updates.
- Simulating real-world scenarios to accurately test the application's performance and identify potential bottlenecks.

## Technical Spotlight

- Utilized Go's built-in concurrency features for efficient resource management and request handling.
- Used Go's testing package and GoConvey for automated testing and code coverage.
- Leveraged Apache JMeter to simulate different user loads and stress test the application, identifying potential performance bottlenecks.

## Solution Highlights

- Allowed the application to handle multiple requests concurrently, ensuring scalability and reducing response times.
- Ensured that the codebase remains robust and minimized the risk of introducing bugs.
- Optimized the platform for high quality performance under real-world conditions.

Tech Stack



# An Indian Financial Institution Offering Diverse Services

Implemented extensive unit testing with high coverage.

Automated Testing

Regression Testing

Bug Tracking

Test Coverage

## Outcomes

### 90% Test Coverage

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- Ensured high test coverage, improving code reliability and reducing bugs.

### 2x More Effective Bug Tracking

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- Improved issue identification and resolution processes, ensuring higher software quality.

### 65% Better Code Deployment

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- Facilitated smooth integration and deployment processes, ensuring real-time updates and quick bug fixes.

# Solutioning

## Challenges

- Achieving comprehensive test coverage for all aspects of the application, including edge cases.
- Coordinating test case execution and tracking issues across multiple team members.
- Ensuring a consistent user experience across iOS and Android platforms while managing separate codebases.

## Technical Spotlight

- Adopted test-driven development (TDD) and integrated automated testing frameworks.
- Utilized Jira's issue tracking and project management features to organize and track test cases, bugs, and test results.
- Used React Native for shared codebase across iOS and Android, and React.js for web applications.

## Solution Highlights

- Achieved comprehensive test coverage, catching bugs early in the development process and ensuring code reliability.
- Enhanced testing coordination and streamlined issue resolution, improving overall project management.
- Ensured a consistent user experience and reduced development time by leveraging a unified codebase for multiple platforms.

Tech Stack



# An Advanced Digital Platform Innovating the Loan Market

Conducted comprehensive testing for a seamless user experience.

User Experience Testing

Regression Testing

End-to-End Testing

Automated Error Detection

## Outcomes

### 100% Scalable Testing Solutions

- Implemented scalable testing frameworks to accommodate future growth and evolving platform requirements.

### 48% More Efficient Error Detection

- Automated testing processes identified and resolved errors quickly, minimizing disruptions and improving stability.

### 4x Improved Platform Performance

- Optimized code and advanced testing ensured high performance and reduced load times, enhancing overall user satisfaction.

# Solutioning

## Challenges

- Creating a robust automated testing framework that covers all critical functionality.
- Efficiently managing and synchronizing application state across various components.
- Identifying and fixing errors promptly to maintain platform stability and user satisfaction.

## Technical Spotlight

- Employed the Cypress Testing Framework for comprehensive end-to-end testing.
- Implemented Redux Toolkit for efficient and scalable state management across the application.
- Integrated Cypress Testing Framework to automate error detection and ensure rapid resolution through continuous testing.

## Solution Highlights

- Provided robust automated testing capabilities, leading to higher reliability and faster detection and resolution of issues.
- Streamlined state management, reducing complexity and improving synchronization across components.
- Facilitated effective error detection and quick fixes, enhancing platform stability and reducing downtime.

Tech Stack



# A Bahrain-based Digital Bank Offering Efficient Modern Services

Carried out extensive testing and documentation to ensure application reliability.

Quality Assurance

QA Documentation

API Testing

Automated Testing

## Outcomes

### 75% Improved Reliability

- Implemented microservices and rigorous JUnit testing, leading to increased system reliability and reduced downtime.

### 2x Better Documentation

- Comprehensive documentation and effective use of JIRA and Confluence facilitated better project management and communication.

### 60% Efficient Deployment

- Streamlined the deployment pipeline, enabling faster and more reliable releases.

# Solutioning

## Challenges

- Maintaining thorough and reliable API testing and up-to-date documentation.
- Effectively managing version control and collaborating on code with multiple developers.
- Managing and resolving bugs efficiently while keeping track of all issues.

## Technical Spotlight

- Leveraged JUnit for testing APIs and Confluence for comprehensive documentation.
- Made use of Git to ensure version control and JIRA for effective project management.
- Utilized JIRA for comprehensive issue tracking and bug management.

## Solution Highlights

- Provided automated testing to catch issues early and maintained documentation for clarity and ease of access.
- Facilitated efficient version control and collaboration, and managed tasks and tracked progress effectively.
- Allowed for efficient bug reporting, prioritization, and resolution, ensuring problems are addressed promptly and systematically.

## Tech Stack







CMMI Level 5

Leading by Passion. Driven by Innovation

4000+  
Professionals

22+  
Industries

1500+  
Clients

85%  
Client Retention

Thankyou

022 4050 0600

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