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Accelerate Business

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About DynaTech

Unified Purpose, Shared Journey

DynaTech Systems stands out as a comprehensive and flexible solution for businesses looking to leverage technology to drive growth and innovation.

As thought leaders in digital transformation, we deliver cutting-edge solutions and industry best practices. From consulting and proof of concept to end-to-end implementation and custom solutions, our expertise ensures your success.

Microsoft Solutions Partner

Great Place To Work® Certified DEC 2023 - DEC 2024 INDIA

AICPA Service Organization Control Reports — AICPA SOC 2 — Formerly SAS 70 Reports

ISO 9001:2015

CMMi level 3

150+
Projects

100+
Happy Clients

350+
Expert Minds

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DynaTech's Competitive Advantage

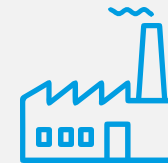**Global Work Experience (USA, Europe, Asia) for seamless rollouts**

Successful Deployment of 150+ Microsoft Dynamics Projects

A single-stop shop for all of Microsoft's Business Applications

In-house QA Teams to ensure Information and Data Security

Empowering businesses in Manufacturing, Retail, Education, and more

Strategic Approach Resulting in Quick Turnaround & Solutioning

Microsoft Cloud Capabilities

Microsoft Azure

Azure Infra	Azure Services	Azure Fabric for BI
Logic Apps	Service Bus	Functions
Event Grid	API Management	Synapse Analytics
Data Lake	Data Factory	Load Testing

Microsoft Dynamics 365

Marketing	Sales	Finance
Supply Chain Management	Commerce	Customer Service
Field Service	Project Operations	Human Resources
Customer Insights	Finance & SCM	Copilot

Power Platform

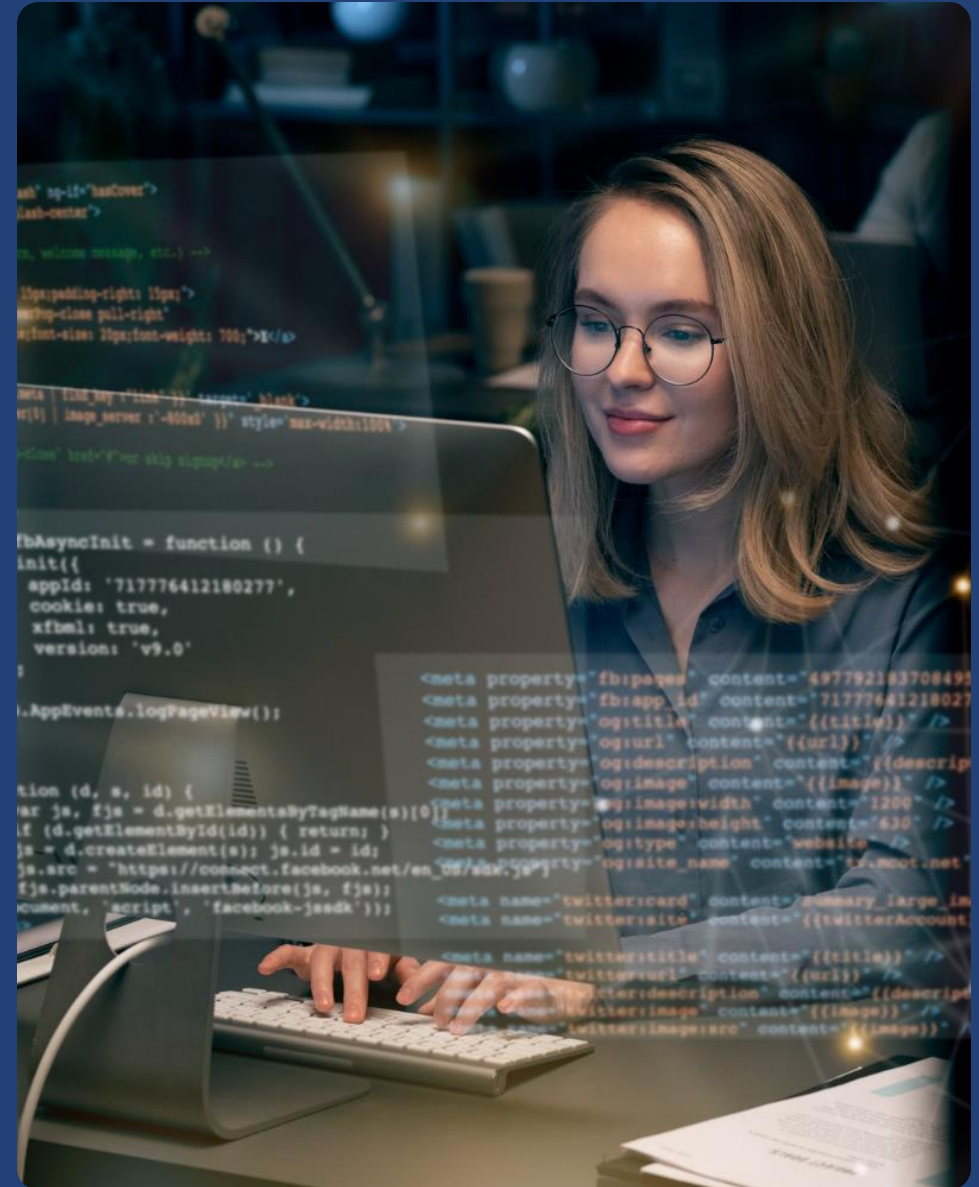|		
Power Pages	Power BI	Power Apps
Power Automate	Copilot Studio	Dataverse
	AI Builder	

About DynaTech

DynaTech as a QA & Test Automation Company

Streamline Your Quality Assurance with DynaTech!

Our cutting-edge solutions empower you to automate testing, ensuring seamless performance and accuracy while saving time and resources.

100+

Testing Projects Completed

10+

Industries Served

12+

Years of Experience

20+

Testing Automation Engineers

2–17

years of Experienced Testing Engineers

Agile Testing

Automation Testing

Behaviour-Driven Development (BDD)

API Testing

DynaTech's Testing Services Expertise

Performance Testing

Security Testing

Continuous Integration & Continuous Delivery (CI/CD)

Testing Center of Excellence

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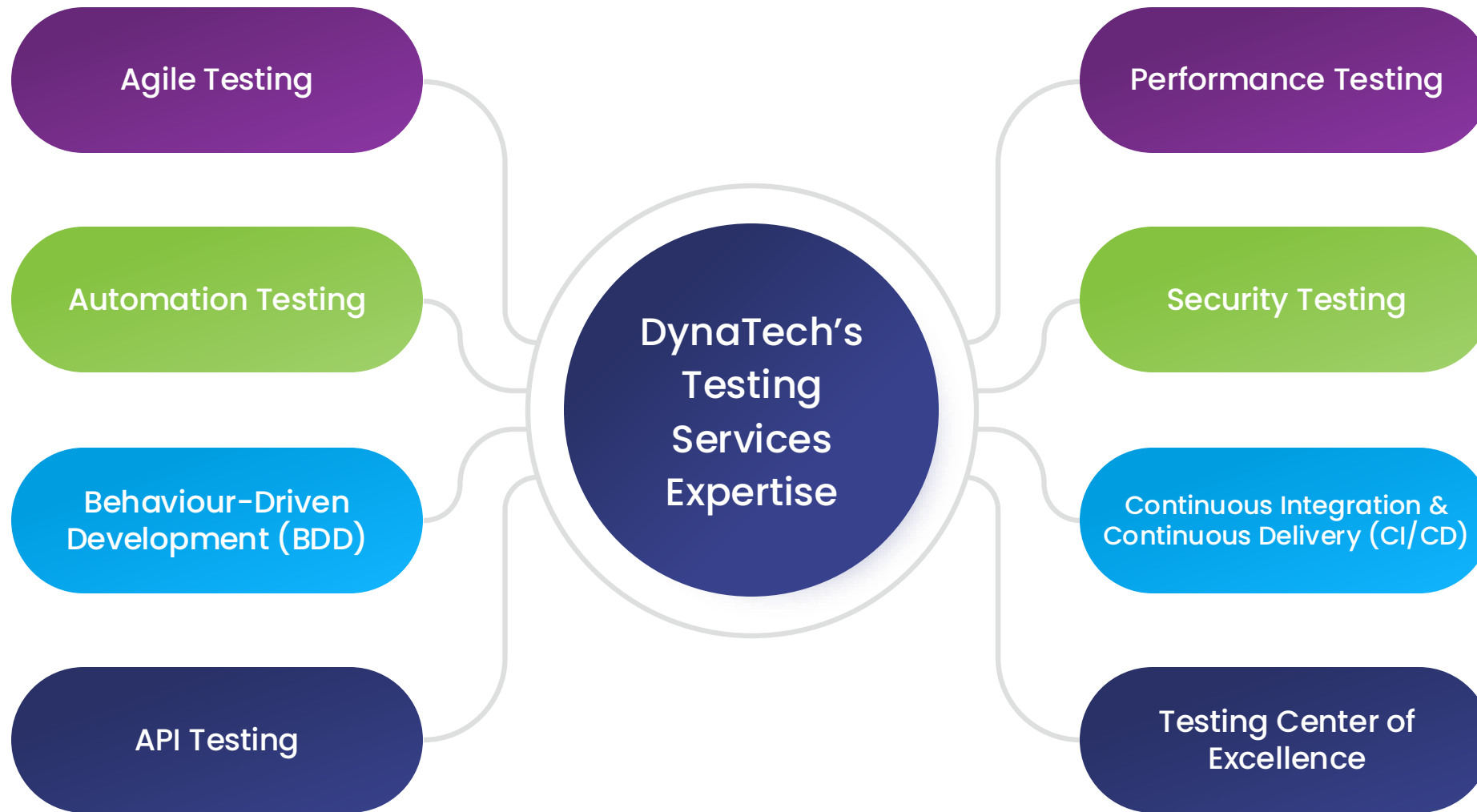
DynaTech, a leading provider of Dynamics 365 automated testing services, ensures your deliverables meet all performance, functionality, security, and reliability expectations. With over a decade of industry experience, we utilize the latest tools and best practices to deliver high-quality products that align with global market demands.

| Test Automation | QA Assessment & Strategy | Performance Testing | API Testing |

Testing Automation for Dynamics 365

| Security Testing | Test Management and Consultancy | Functional & Integration Testing | Test Process Optimization |

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QA Process

› Requirement Analysis
› Test Strategy
› Test Case Writing
› Test Data Preparation
› Environment Setup

› Test Summary Report
› Defect Tracking
› Metrics Analysis
› Traceability matrix

Planning	Design	Execution	Reporting	Documentation

› Define Objectives
› Identify Stakeholders
› Allocate Resources
› Define Metrics
› Create Test Plan

› Manual Testing
› Automation Testing
› Defect Reporting
› Regression Testing
› Integration Testing

› Test Plan
› Test Cases
› Test Reports

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QA Policies

Quality Policies

› Quality Standards and Processes

› Testing Techniques and Tools

› Training and Development

› Documentation and Reporting

› Risk Management

› Communication and Collaboration

Quality Metrics

› Defect Density

› Test Case Efficiency

› Automation Test Coverage

› Defect Leakage

› Test Execution and Pass Rate

› Automated Test Maintenance Effort

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Performance Testing Services

Load Testing

Evaluate your software's performance by simulating real-world user loads. Identify performance thresholds and optimize scalability to handle expected user demands seamlessly.

Scalability Testing

Ensure your applications can grow with user loads and data volumes. Identify and eliminate scalability bottlenecks for a responsive user experience under increasing demands.

Stress Testing

Test your system's resilience by pushing it to its limits under extreme conditions. Identify vulnerabilities and enhance performance to maintain functionality during high-pressure scenarios.

Capacity Planning

Plan for future success by analyzing your system's capabilities. Gain insights into resource allocation and ensure your software meets increasing demands while maintaining peak performance.

Benchmark Testing

Assess your software against industry standards to gain a competitive edge. Provide insights and a strategic roadmap for continuous improvement, ensuring exceptional performance.

Regression Testing

Validate software updates to maintain performance quality. Prevent regressions and ensure new features enhance the user experience without compromising reliability.

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End to End Performance Testing

› Run end to end performance tests to assess application
› All components/servers/services covered.

Front end UI Performance Testing

› Easy to use, faster and reliable
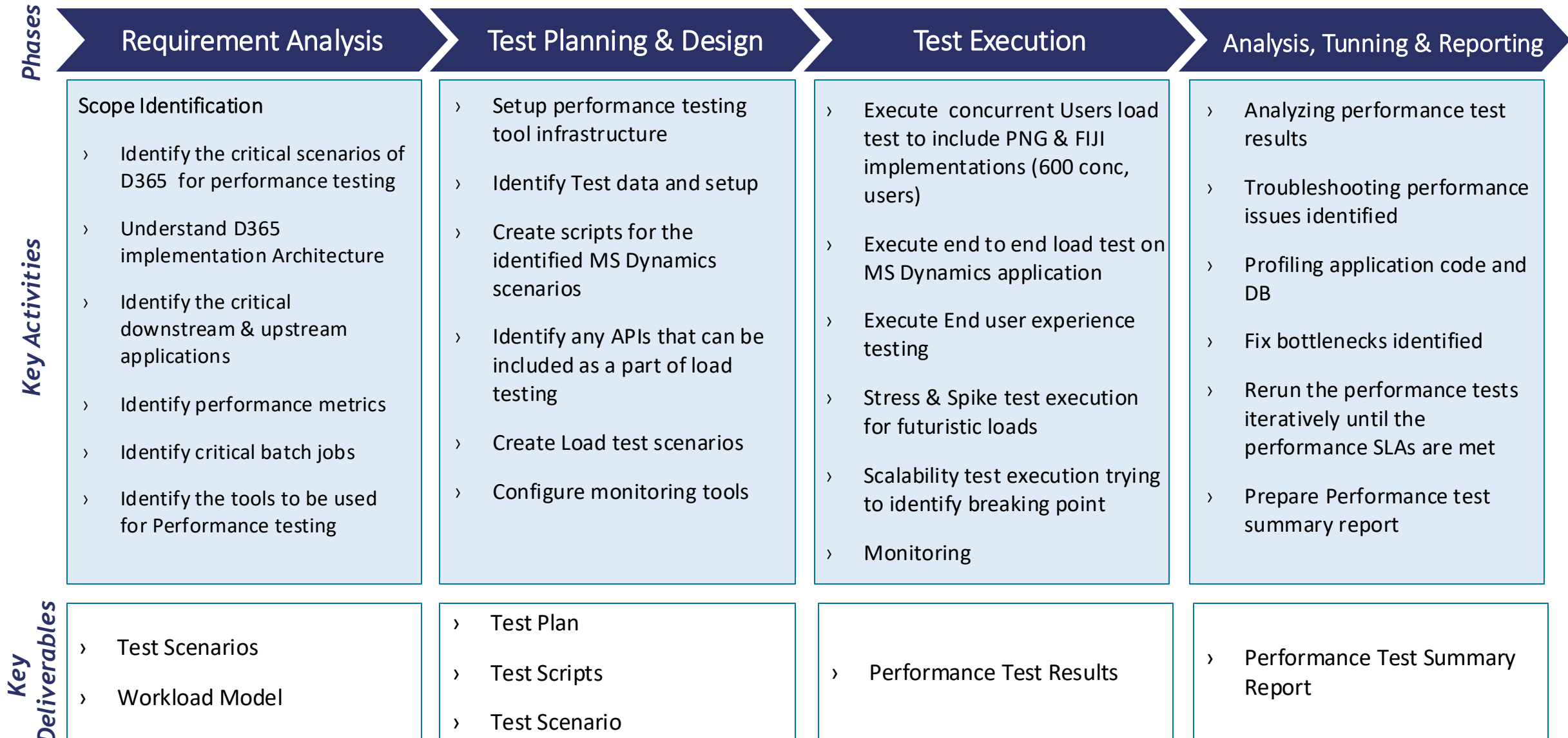› Look and Feel of application

API /Micro Service Testing

› To Test all internal service calls
› Test API or Micro-Services

Performance Tuning

› Analyse, debug and Tune application
› Network, monitoring using APM tools

Agile Shift−left Performance Automation using DevOps

› Improve time to market Agile environment
› Provide best performance automation framework using DevOps

Phases

Requirement Analysis	Test Planning & Design	Test Execution	Analysis, Tunning & Reporting

Key Activities

Requirement Analysis	Test Planning & Design	Test Execution	Analysis, Tunning & Reporting
Scope Identification › Identify the critical scenarios of D365 for performance testing › Understand D365 implementation Architecture › Identify the critical downstream & upstream applications › Identify performance metrics › Identify critical batch jobs › Identify the tools to be used for Performance testing	› Setup performance testing tool infrastructure › Identify Test data and setup › Create scripts for the identified MS Dynamics scenarios › Identify any APIs that can be included as a part of load testing › Create Load test scenarios › Configure monitoring tools	› Execute concurrent Users load test to include PNG & FIJI implementations (600 conc, users) › Execute end to end load test on MS Dynamics application › Execute End user experience testing › Stress & Spike test execution for futuristic loads › Scalability test execution trying to identify breaking point › Monitoring	› Analyzing performance test results › Troubleshooting performance issues identified › Profiling application code and DB › Fix bottlenecks identified › Rerun the performance tests iteratively until the performance SLAs are met › Prepare Performance test summary report

Key Deliverables

Requirement Analysis	Test Planning & Design	Test Execution	Analysis, Tunning & Reporting
› Test Scenarios › Workload Model	› Test Plan › Test Scripts › Test Scenario	› Performance Test Results	› Performance Test Summary Report

Performance Test

JMeter

StressStimulus

Azure Load Testing

Artillery

Monitoring

Azure Monitor

Application Insights

Grafana

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API Testing Services

API Performance Testing

Enhance your application's speed and reliability with our API Performance Testing. We combine functional and load testing to identify performance bottlenecks and ensure seamless functionality under peak loads.

API Automation Testing

Accelerate your development pipeline with automated API Testing. Our QA experts create tailored test suites that maximize automation, boosting speed and accuracy for a more efficient testing process.

API Security Testing

Protect your digital assets with our API Security Testing. We identify vulnerabilities, secure sensitive data, and ensure robust authentication and permission settings to elevate your platform's security.

API Integration Testing

Ensure seamless data flow between systems with our API Integration Testing. We verify compatibility and communication, mitigating risks associated with interconnected systems for reliable application performance.

Web API Testing

Optimize your web APIs with our comprehensive testing services. Validate endpoints and assess data exchange across browsers and devices to guarantee a consistent user experience.

Functional API Testing

Ensure your API performs as intended with our Functional API Testing. We conduct thorough evaluations of all functionalities and error handling for reliable and accurate performance.

API Testing Tools

Swagger

Postman

SoapUI

katalon

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DevOps Services

DevOps Consulting Services

Transform your organization with tailored DevOps consulting. We assess your needs, develop strategies, and enhance collaboration while implementing continuous integration to reduce costs and increase agility.

Infrastructure Management

Maximize your IT potential with our Infrastructure Management services. We ensure robust monitoring and maintenance, mitigating risks to let you focus on innovation while we manage your infrastructure.

Azure DevOps Services

Unlock Microsoft Azure's capabilities with our DevOps as a Service. We customize solutions to enhance collaboration, automate workflows, and optimize development for quick releases and high-quality applications.

Continuous Integration and Delivery

Accelerate your development with our CI/CD services. We automate code integration and testing for rapid, error-free deployments, enabling your team to focus on innovation and quality.

IT Infrastructure Implementation and Migration

Transform your IT with our implementation and migration services. We ensure seamless transitions to new technologies or cloud environments, minimizing downtime and risks for sustained growth.
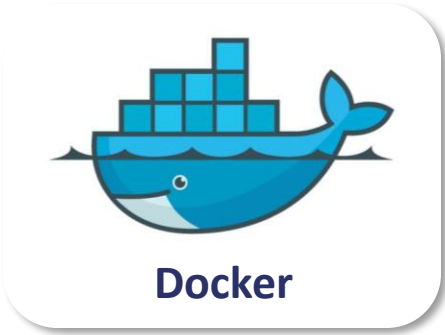
DevSecOps Services

Secure your DevOps practices with our DevSecOps solutions. We integrate proactive security measures throughout the development lifecycle, ensuring your applications are innovative and safe.

Automation

Apache JMeter

Cucumber

Selenium

TestRail

Containerization

Docker

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Functional Testing Services

Regression Testing

Ensure software stability by verifying that new features don't disrupt existing functionalities.

Automated Functional Testing

Speed up testing with automated solutions that enhance accuracy, allowing focus on innovation.

User Acceptance Testing

Validate your product's readiness by having real users assess functionality and usability.

Integration Testing

Ensure seamless collaboration between modules through comprehensive validation of their performance.
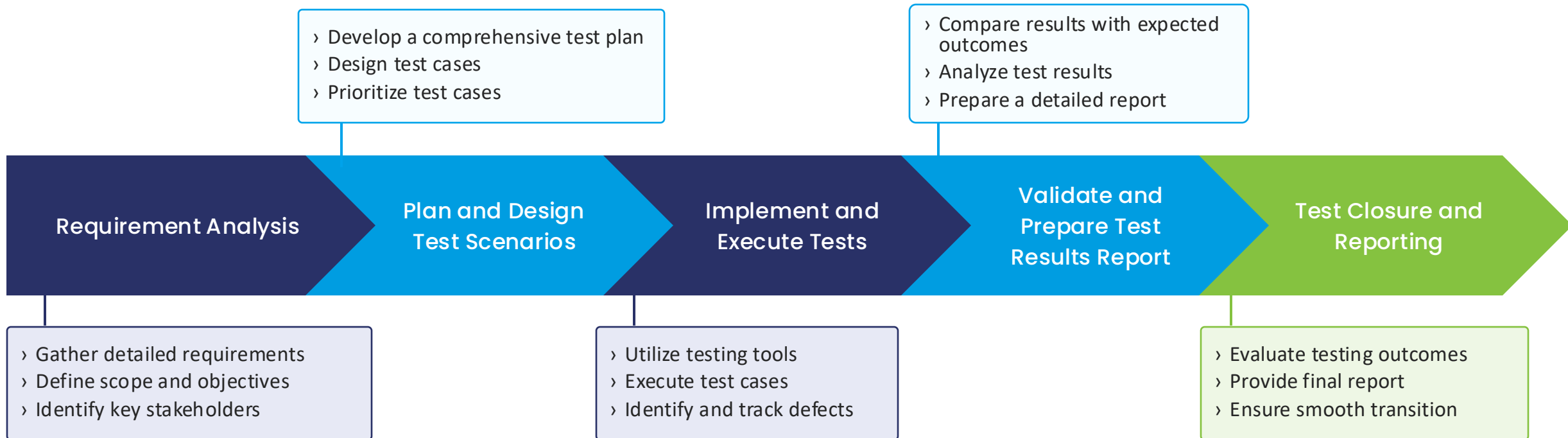
Smoke Testing

Catch early errors by testing core functionalities for stability before further testing.

System Testing

Validate user scenarios to ensure your software meets requirements and performs as expected.

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Functional Testing Process

> › Develop a comprehensive test plan
> › Design test cases
> › Prioritize test cases

> › Compare results with expected outcomes
> › Analyze test results
> › Prepare a detailed report

Requirement Analysis | **Plan and Design Test Scenarios** | **Implement and Execute Tests** | **Validate and Prepare Test Results Report** | **Test Closure and Reporting**

> › Gather detailed requirements
> › Define scope and objectives
> › Identify key stakeholders

> › Utilize testing tools
> › Execute test cases
> › Identify and track defects

> › Evaluate testing outcomes
> › Provide final report
> › Ensure smooth transition

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Test Management and Consulting Services

Test Strategy Development

Develop a tailored test strategy that aligns with your project goals, enhancing efficiency and ROI.

Test Planning and Execution

Collaborate with our experts to meticulously plan and execute tests, ensuring thorough coverage and early defect detection.

Managed Testing Services

Outsource testing to our dedicated team for functional, performance, and regression testing, allowing you to focus on your core business.

Test Process Improvement

Enhance testing efficiency by identifying improvement areas & implementing best practices, streamlining workflows and resource allocation.

Test Management Tools and Practices

Receive expert guidance on selecting and implementing the right test management tools to boost efficiency and productivity.

Test Reporting and Analytics

Utilize advanced reporting to gain insights into testing quality and progress, driving informed decisions for continuous improvement.

Azure Test Plans

1	Create Test Plans and Suites
2	Create Manual Test Cases
3	Run Manual Tests
4	Run Automated Tests
5	Associate Automated Tests with Test Cases

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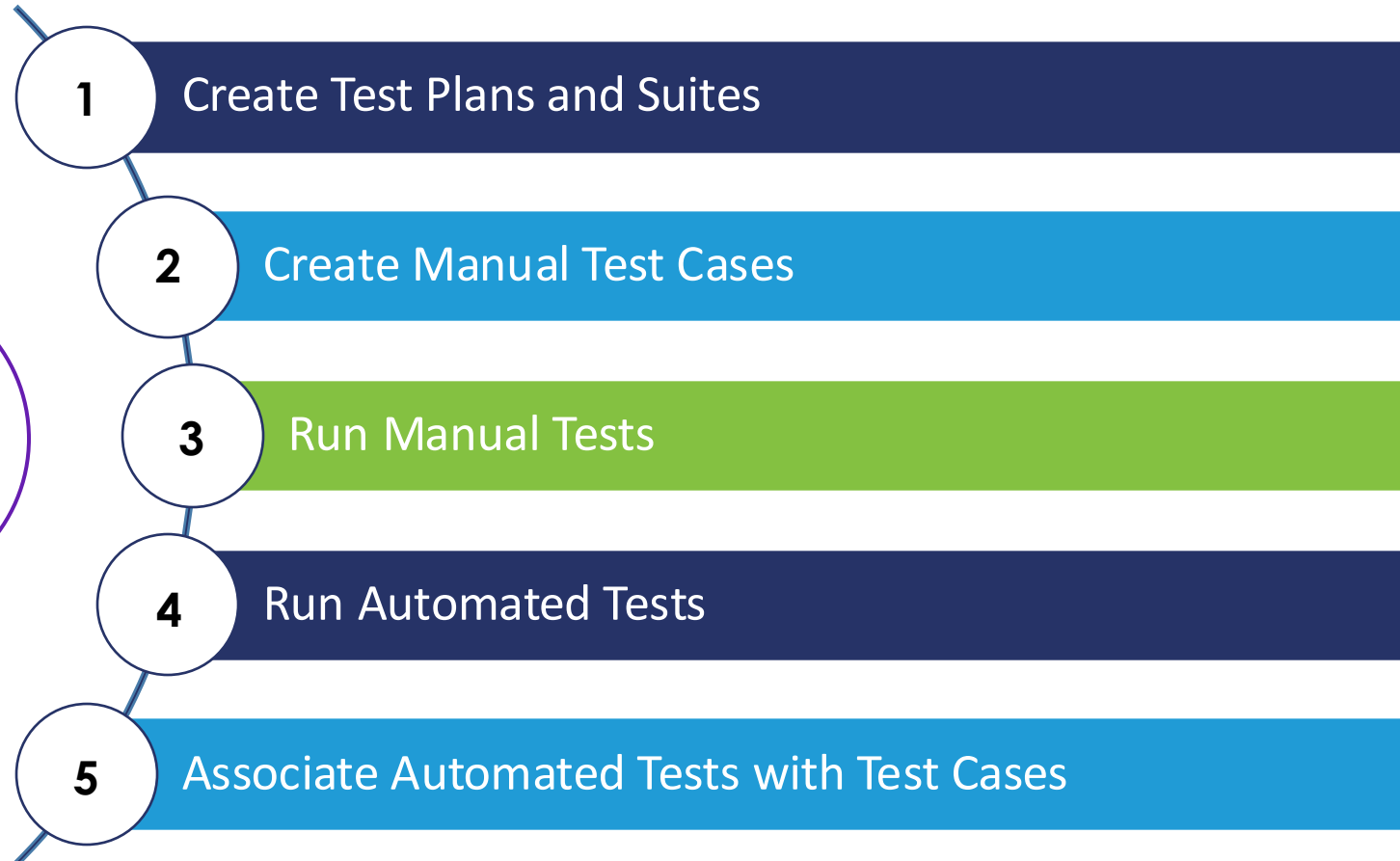
Test Automation Services

AI-Powered Automated App Testing

Leverage AI-driven automation for precise and efficient application testing. Our tools, integrated with machine learning algorithms, ensure comprehensive coverage and rapid issue identification, enhancing app quality.

Robotic Process Automation (RPA)

Streamline your workflows with our RPA testing services. Automate repetitive tasks to reduce errors and boost productivity, optimizing your operations for a competitive edge.

IoT Devices Testing

Ensure the functionality of your IoT devices with our specialized testing services. We focus on interoperability, security, and performance using advanced tools to validate your entire IoT ecosystem.

Microservices Testing

Address the unique challenges of microservices architecture with our tailored testing solutions. Validate scalability and performance of each microservice independently and in integration for a robust architecture.

Automated Regression Testing

Accelerate your development lifecycle with automated regression testing. Our advanced tools rapidly execute test suits to ensure new code changes do not affect existing functionalities, enhancing reliability.

Cloud-based Test Automation

Experience agile and scalable testing with our cloud-based automation services. We offer dynamic testing across platforms and devices, ensuring collaboration, rapid scalability, and cost-effective solutions.

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CI/CD

Azure DevOps

Jenkins

Jira

Automation

Selenium

Playwright

Cucumber

Performance Testing

Apache JMeter

Load Testing

BlazeMeter

Test Management

Azure

TestRail

Zephyr

Challenges

› Limited test coverage
› Time consuming Regression Testing
› Integration issues due to frequent releases

Solution

› Test Automation of end-to-end integration of Web portal, CRM and F&O apps
› Implemented BDD framework using Selenium, C#, SpecFlow and Nunit
› Continuous headless execution on Azure DevOps via scheduled CI/CD pipeline

12+
Modules covered

100+
Test Scenarios covered

70%
Execution Time reduced

Challenges

› Slow page load times
› High response time during peak hours
› System crashes under heavy load

Solution

› Assessment of different user scenarios
› Identified bottleneck in existing modules & integrations
› Created script for prioritized scenarios using Jmeter and Optimized performance issues
› Implemented Grafana dashboard for monitoring and observability

100+
Concurrent Vus Tested

10+
Scenarios covered

500+
Data set

70%
Response Time Improved

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Want to know more?

Contact Us!

DynaTech Systems has proudly served clients seeking advanced tech solutions across the globe with top-notch precision and excellence.

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