



# Audax Labs – Application Testing



# Our Capabilities & Experience

Audax labs is an Innovation Partner with a strong System Integrator background. We work with enterprise clients in their innovation journey from ideation to enterprise grade deployment.

## PARTNERS

**HITACHI**  
Inspire the Next

**Microsoft**  
Solutions Partner

**talend** Partners

**Google Cloud**  
Partner

## CUSTOMERS

**HITACHI**  
Inspire the Next

**Microsoft**

**Parker**

**KARMA**

**EV Bike Manufacturer**

**Rabobank**

**9to5**  
seating

**Kelvin**

**Bonsai**  
mediagroup



**AUDAX**  
LABS

## INDUSTRIES

Automotive

Manufacturing

Healthcare

BFSI

Retail

## TECHNOLOGIES

**AI**  
Artificial Intelligence

**AR, VR, & XR**  
Augmented Reality

**IoT**  
Internet of Things

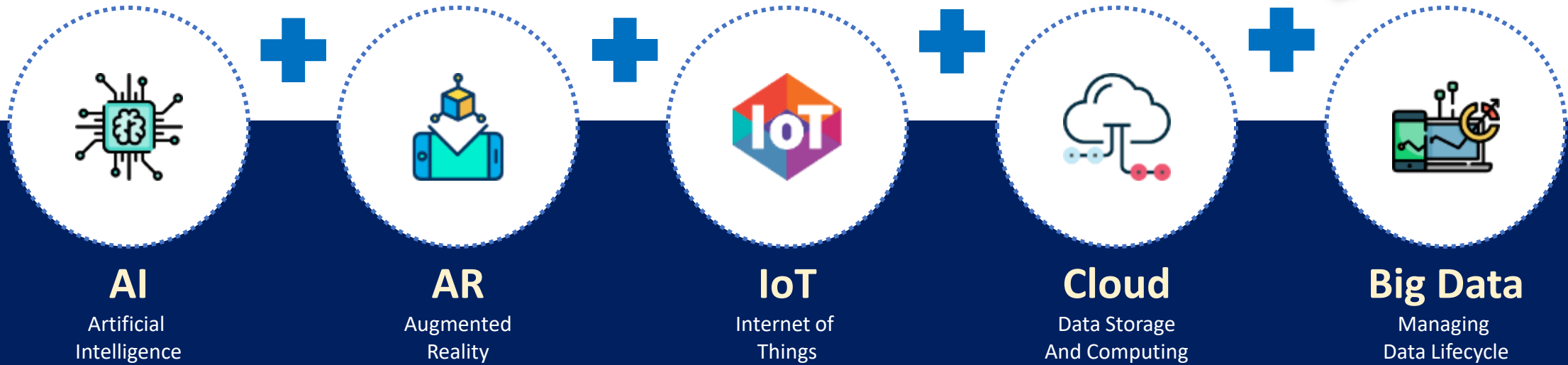
**Cloud**  
Storage & Computing

**Data**  
Managing Data lifecycle

## GLOBAL PRESENCE



# Making Enterprise Smarter Leveraging Outcome Driven Innovation!



**Traditional  
Technologies**



# Understanding Application Testing

Application testing is a systematic process of evaluating and verifying the functionality, performance, security, and overall quality of a software application. It involves assessing whether the application meets specified requirements, identifying defects or issues, and ensuring a positive user experience.

## Validation of Functionality

Confirming that the software functions as intended, addressing user and business needs.

## Performance Assessment

Evaluating responsiveness, stability, and scalability under varying conditions.

## Security Assurance

Identifying vulnerabilities and ensuring robust protection against unauthorized access and data breaches.

## User Experience Validation

Assessing the application's user interface, navigation, and overall user interaction for optimal usability.





# Types of Application Testing:

1

## Functional Testing:

**Purpose:** Validates that the software functions as specified.

**Approach:** Involves testing individual components and interactions within the system.

**Types:** Unit Testing, Integration Testing, System Testing, Acceptance Testing.

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2

## Usability Testing:

**Purpose:** Evaluates the software's user interface and overall user experience.

**Approach:** Tests ease of use, navigation, and user interactions.

**Focus Areas:** Accessibility, User Interface Design, User Feedback.

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3

## Security Testing:

**Purpose:** Identifies vulnerabilities and ensures robust security measures.

**Approach:** Assesses resistance to unauthorized access, breaches, and data theft.

**Testing Methods:** Penetration Testing, Vulnerability Scanning, Security Audits.

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## Performance Testing:

**Purpose:** Evaluates responsiveness, stability, and scalability under different conditions.

**Approach:** Assesses speed, reliability, and overall performance.

**Types:** Load Testing, Stress Testing, Performance Monitoring.

# Application Testing Process



## Requirement Analysis

- Understanding and documenting testing requirements based on software specifications and user expectations.

# 1



## Test Planning

- Developing a comprehensive testing plan outlining approach, resources, and schedule.

# 2



## Test Design

- Creating detailed test cases based on requirements and planning.

# 3



## Test Execution

- Implementing and running test cases to identify defects and assess software functionality.

# 4



## Test Closure

- Evaluating the testing process, summarizing results, and ensuring all testing objectives are met.

# 5

# Microsoft Tools for Application Testing



## Overview

- Microsoft offers a suite of powerful tools that seamlessly integrate into the application testing process, enhancing efficiency and effectiveness.

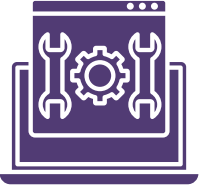


## Benefits

- These tools provide a unified platform for comprehensive testing, ensuring software quality across various dimensions.



# Functional Testing with Visual Studio



## Visual studio

### \_01 Role

Aligning strategies with Cloud Optimization Assessment guidelines for motivations and financial considerations.

### \_02 Functional Testing

Supports Unit Testing and UI Testing for ensuring the functionality of individual components and end-to-end scenarios.

### \_03 Benefits

- **Test Explorer:** Easily manage and execute test cases.
- **CodeLens:** Integrates test status directly into the code editor.
- **IntelliTest:** Automatically generates test cases.





# Usability Testing with Microsoft Power Automate



## Microsoft Power Automate

### \_01 Role

Automates workflows, including those related to usability testing.

### \_02 Usability Testing

Create automated workflows to mimic user interactions and assess the user-friendliness of the application.

### \_03 Benefits

- **Flow Designer:** Visually design automated workflows.
- **Templates:** Pre-built templates for common usability scenarios.
- **Integration:** Seamless integration with other Microsoft tools.



# Security Testing with Azure Security Center



## Azure Security Center

### \_01 Role

Cloud-based security management system.

### \_02 Security Testing

Conducts security assessments, vulnerability scanning, and continuous compliance monitoring.

### \_03 Benefits

- **Threat Intelligence:** Provides insights into potential security threats.
- **Security Policies:** Enforces security best practices.
- **Compliance Manager:** Ensures adherence to industry standards.



# Performance Testing with Azure DevOps



## Azure DevOps

### \_01 Role

Collaboration and DevOps platform by Microsoft.

### \_02 Performance Testing

Facilitates load testing, stress testing, and performance monitoring.

### \_03 Benefits

- **Azure Test Plans:** Plan, track, and manage test cases.
- **Azure Pipelines:** Automate the testing process.
- **Application Insights:** Monitor application performance in real-time.







# Outcome Driven Innovation!

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