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**IMPLEMENTATION ROADMAP**

**ON**

**RPA TECHNICAL ARCHITECTURE PROGRAM**

**Submitted By: Netlink Software Group America Inc.**

**RPA Implementation Roadmap for RPA Technical Architecture Program**

The following roadmap outlines the key phases and activities to successfully implement an RPA program using UiPath and related technologies. This roadmap is aligned with the client's requirement to define the automation platform's architecture, select a technology stack, and deliver automation solutions over a 12-month timeline.

**Phase 1: Planning & Assessment (Month 1 - Month 2)**

**1. Define RPA Vision & Objectives**

* **Activity**: Work with business and IT stakeholders to define the overall RPA vision, objectives, and expected outcomes. This will align the automation strategy with organizational goals.
* **Deliverables**:
  + RPA Vision Document
  + RPA Objectives & KPIs

**2. Conduct RPA Readiness Assessment**

* **Activity**: Assess the current state of business processes, IT infrastructure, and organizational readiness for RPA. Evaluate current processes for automation suitability.
* **Deliverables**:
  + RPA Readiness Assessment Report
  + Process Automation Feasibility Study

**3. Define Technical Architecture**

* **Activity**: Define the technical architecture, including UiPath Studio, Orchestrator, Insights, and Action Center setup, cloud/on-premise infrastructure, security framework, and monitoring tools.
* **Deliverables**:
  + Technical Architecture Blueprint
  + Technology Stack Selection Report

**Phase 2: Design & Development (Month 3 - Month 6)**

**1. Process Selection and Prioritization**

* **Activity**: Collaborate with Business Analysts and Automation Developers to finalize the processes that will be automated, based on business priorities and ROI potential.
* **Deliverables**:
  + Automation Pipeline & Prioritization Plan
  + Business Automation Requirements Document (BRD)

**2. Solution Design**

* **Activity**: Design automation solutions using UiPath Studio and related technologies. Document the architecture and workflow in Solution Design Documents (SDDs).
* **Deliverables**:
  + Solution Design Documents (SDDs)
  + Workflow Prototypes

**3. Infrastructure Setup**

* **Activity**: Set up and configure the RPA infrastructure, including UiPath Orchestrator, servers, databases, and credentials. Ensure proper configuration for scaling, monitoring, and security.
* **Deliverables**:
  + UiPath Orchestrator Setup and Configuration
  + Infrastructure Setup Report (Cloud/On-Premise)

**4. Development of Automation Solutions**

* **Activity**: Begin the development of automated workflows in UiPath Studio, following best practices and governance frameworks. Implement reusable components, exception handling, and error recovery mechanisms.
* **Deliverables**:
  + Developed Automation Workflows
  + Exception Handling Framework
  + Code Review Reports

**5. CI/CD Pipeline Setup**

* **Activity**: Set up continuous integration and continuous deployment (CI/CD) pipelines using Jenkins or Azure DevOps to automate testing and deployment of automation workflows.
* **Deliverables**:
  + CI/CD Pipeline Documentation
  + Automated Testing Setup

**Phase 3: Testing & Deployment (Month 7 - Month 9)**

**1. Testing Automation Workflows**

* **Activity**: Perform unit testing, integration testing, and user acceptance testing (UAT) to ensure the workflows are functioning as intended and meeting business requirements.
* **Deliverables**:
  + Test Cases & Scenarios
  + Test Reports (Unit, Integration, UAT)
  + Bug Fixes & RCA for Issues

**2. Optimize & Fine-tune Automation**

* **Activity**: Optimize automated workflows based on performance during testing. Resolve exceptions and errors, and ensure workflows are scalable and maintainable.
* **Deliverables**:
  + Optimized Workflow Design
  + Performance Optimization Report

**3. Deploy Automation Solutions**

* **Activity**: Deploy automation solutions into the production environment using UiPath Orchestrator. Ensure that workflows are properly scheduled and monitored.
* **Deliverables**:
  + Deployment Plan
  + Deployed Production Workflows

**4. Setup Monitoring & Logging**

* **Activity**: Set up real-time monitoring and logging using tools like UiPath Insights, Elastic Stack (ELK), and AppDynamics to monitor automation performance.
* **Deliverables**:
  + Monitoring & Logging Setup
  + Performance Dashboards (UiPath Insights, ELK)

**Phase 4: Monitoring & Continuous Improvement (Month 10 - Month 12)**

**1. Post-Deployment Monitoring**

* **Activity**: Monitor automation processes in production, ensuring workflows are stable and performing as expected. Utilize UiPath Orchestrator for managing bot performance.
* **Deliverables**:
  + Post-Deployment Monitoring Reports
  + RCA Reports for Exceptions

**2. Continuous Improvement & Enhancements**

* **Activity**: Gather feedback from business users and optimize workflows based on performance metrics. Implement enhancements, new features, and process improvements as needed.
* **Deliverables**:
  + Continuous Improvement Plan
  + Updated Workflows & Enhancements

**3. Knowledge Transfer & Training**

* **Activity**: Provide knowledge transfer sessions to business users and IT teams, ensuring they are equipped to manage automation workflows. Document processes, code reviews, and architecture.
* **Deliverables**:
  + Knowledge Transfer Sessions
  + Training Materials & Documentation

**4. Final Handover & Project Closeout**

* **Activity**: Conduct a final project handover to the CoE and IT teams, providing documentation for all workflows, infrastructure setup, licenses, and security configurations.
* **Deliverables**:
  + Final Handover Document
  + Project Closure Report