



"We Always Have A Smarter Way Of Automating It"

RPA Implementation Masterclass

Companion Guide & Transcript Summary of the ZJDI Recorded Webinar

Webinar Overview

Host: Peacemaker Zvidzanayi (Director of AI/Data Science) & Joram Tafirenyika (Business Development Director)

Focus: Architecting Intelligent Agents, Eradicating Bottlenecks, and Scaling Operations via Robotic Process Automation (RPA).

This document serves as the official companion guide to the recorded session, synthesizing the core technical methodologies and strategic insights discussed regarding ZJDI's approach to enterprise automation.

1. The Philosophy of Intelligent Automation

As discussed by Joram Tafirenyika, ZJDI does not build technology for technology's sake. The goal of RPA is to deliver immediate, measurable Return on Investment (ROI) by identifying exactly where manual latency is destroying value. We engineer solutions that transform legacy enterprise ecosystems into autonomous operational powerhouses.

2. Key Implementations Discussed

During the webinar, Peacemaker detailed several flagship implementations that highlight the power of ZJDI's automation pipelines:

- **Credit Automation System:** A headless Python daemon utilizing advanced cron-driven automation to meticulously track, calculate, and trigger SMS/Email notifications for loan arrears.
- **Billers Aggregation for ZIMRA TaRMS:** Automating taxpayer transaction retries to guarantee revenue collection without manual intervention.
- **AI-Powered HR & Onboarding:** Utilizing AI facial liveness checks and document OCR (Optical Character Recognition) for frictionless digital KYC and resume screening pipelines.

Technical Spotlight: The ZJDI DevSecOps Pipeline

Automation must be secure. Our development lifecycle is strictly governed by advanced DevSecOps principles. We utilize automated Continuous Integration and Continuous Deployment (CI/CD) pipelines. When an engineer pushes code, it triggers unit tests and static application security testing (SAST). If a potential SQL injection vulnerability in a Django ORM query is detected, the build halts instantly.

3. The "Agentic" Workflow Paradigm

Traditional RPA is brittle; it relies on exact screen coordinates and rigid scripts. ZJDI pioneers "agentic" workflows. By combining tools like Playwright for web automation with local LLMs (managed via Ollama) and OpenClaw architectures, we create resilient bots that can 'see', 'read', and 'adapt' to UI changes dynamically.

This means a heavy focus on resilient architectures and the prioritization of open-source tooling—such as free-tier OpenRouter models for baseline inference—to drastically lower the operational expenditure for our enterprise clients.

4. Getting Started with Your Architecture Assessment

The webinar concluded with an invitation to engage in ZJDI's B2B commercial lifecycle. We begin with a Deep Architecture Assessment, conducting a forensic audit of a client's existing technological infrastructure to map the perfect RPA integration plan, ensuring promises are always backed by solid, scalable engineering realities.