**Test Automation Discovery Checklist**

**1. 🗂️ Application Inventory**

* List all applications currently in use (internal, customer-facing, third-party integrations).
* Identify application types: Web, Mobile, Desktop, API, Microservices, etc.
* Note tech stacks: front-end frameworks, back-end languages, databases, hosting environments.

**2. 🔍 Testing Status Overview**

* Are test cases already written? If yes, where are they stored (e.g., test management tools)?
* Are any tests automated? If yes:
  + What tools are used (e.g., Selenium, Cypress, Playwright, Appium)?
  + What frameworks are in place (e.g., BDD with Cucumber, POM)?
  + What’s the coverage level (unit, integration, UI, end-to-end)?
* Are there CI/CD pipelines integrating automated tests?

**3. 📋 Test Case Quality**

* Are test cases up-to-date and relevant?
* Are they modular and reusable?
* Do they follow naming conventions and structure?
* Are they linked to requirements or user stories?

**4. 🧪 Manual Testing Insights**

* Who performs manual testing?
* What are the most frequently tested scenarios?
* Are there pain points or repetitive tasks that could be automated?
* What’s the defect leakage rate from manual testing?

**5. 🛠️ Tooling and Infrastructure**

* What test management tools are used (e.g., TestRail, Zephyr)?
* What automation tools are licensed or approved?
* What environments are available for testing (staging, QA, sandbox)?
* Is there a version control system in place (e.g., Git)?

**6. 👥 Team & Ownership**

* Who owns testing for each application (QA, Dev, Product)?
* Are there dedicated QA engineers or SDETs?
* What’s the team’s familiarity with automation tools?
* Is there a DevOps team supporting test execution?

**7. 📊 Metrics and Reporting**

* Are there existing test reports or dashboards?
* What KPIs are tracked (e.g., test pass rate, execution time, coverage)?
* Is there a defect tracking system (e.g., Jira, Azure DevOps)?

**8. 🔐 Security and Compliance**

* Are there compliance requirements (e.g., HIPAA, GDPR)?
* Are there security tests (e.g., penetration, vulnerability scans)?
* Is test data anonymized or masked?

**9. 🚦 Prioritization Criteria**

* Which applications are business-critical?
* Which ones have frequent releases or high defect rates?
* Which ones are stable and good candidates for automation?

**10. 📅 Roadmap Planning**

* What are short-term wins (e.g., smoke tests, login flows)?
* What are long-term goals (e.g., full regression suite)?
* Are there upcoming releases or migrations to align with?