**Full Beginner-Friendly Mabl Tutorial Plan (Project Focused)**

| **Step** | **Topic** | **What you will do** | **Why it's important for your bank project** |
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| 1 | Understand What Mabl Is | Learn what Mabl is: **Cloud-based AI-powered test automation platform** for **UI, API, Performance testing**. | You need both UI and API testing automated for your fund buying flows (investor portal, broker screens, etc.). |
| 2 | Mabl Account Setup | Create an account in **Mabl** (use trial/free if needed). Set up your **workspace**. | Set up the workspace dedicated for **Bank MMF Tokenization Project**. |
| 3 | Install Mabl CLI and Desktop App | Install **Mabl CLI** (Command Line Interface) and **Desktop Trainer**. | Needed to **create and run tests** and later **connect with GitHub Actions** for CI/CD automation. |
| 4 | Learn Mabl Trainer (for UI Flows) | Use Mabl Trainer to **record and create** test scenarios. | You can record user flows like "Investor logs in → Searches MMF → Buys tokenized fund → Receives confirmation." |
| 5 | Learn API Testing in Mabl | Create **API tests** for Fireblocks integration, Wallet address fetching, Transaction confirmation etc. | Needed because your backend heavily depends on APIs (Fireblocks, Hedera/Canton). |
| 6 | Data-Driven Testing (Parameterization) | Learn how to **use dynamic data** in tests (example: different wallets, funds, customers). | Bank apps always deal with different customers and funds. |
| 7 | Assertions and Validations | Add **assertions** to validate API responses, UI changes (e.g., Transaction ID displayed, Fund ownership updated). | Validation is critical to prevent bugs that could affect financial transactions. |
| 8 | Integrate Mabl into GitHub Actions | Learn how to **trigger Mabl tests automatically** after deployment using GitHub Actions workflow. | Fully automated testing pipeline for every code push (real time). |
| 9 | Mabl Reporting and Alerts | Learn how to **view test reports** and **send alerts** (Slack, email, Jira tickets) for failures. | Manager will want real-time failure alerts and bug creation. |
| 10 | Connect Mabl with Jira/XRay | Integrate Mabl with **Jira and XRay** for test management and bug reporting. | So that your test results link directly to your project tracking system. |
| 11 | Learn Smart Waits and Visual Testing | Enable **AI-based smart waits** and **visual UI comparison testing** in Mabl. | Very useful to detect **even smallest UI errors** in sensitive financial flows. |
| 12 | Build a Regression Suite | Build a **full suite of tests** for major MMF Tokenization scenarios. | Manager will expect regression testing ready before full launch. |
| 13 | Performance Testing Basics | Learn how Mabl does **performance/load testing** to simulate high traffic (investors/brokers). | Ensure your platform handles **multiple users buying funds simultaneously**. |
| 14 | Test Environment Management | Configure Mabl tests for **different environments** (Dev, QA, UAT). | Bank needs strict environment separation for security and compliance. |
| 15 | Reporting KPIs and Coverage to Manager | Prepare **Test coverage**, **Pass/Fail trend**, **Bug trends**, and **Automation KPIs** from Mabl reports. | Manager wants to see full proof of testing maturity and quality metrics. |

**🛠 Topics You Must Master in Mabl for Your Project:**

| **Priority** | **Skill** | **Why you must learn it** |
| --- | --- | --- |
| ⭐⭐⭐ | Mabl UI Test Creation and Data-driven Testing | To automate Investor, Broker, Admin web flows. |
| ⭐⭐⭐ | API Testing in Mabl | To automate Fireblocks Wallet, Token Transfer, Hedera DLT verification. |
| ⭐⭐ | CLI Automation and GitHub Integration | To auto-trigger all tests after new code push. |
| ⭐⭐ | Jira/Xray Integration | To report bugs automatically. |
| ⭐⭐ | Smart Waits and AI Visual Testing | To detect dynamic UI issues without flakiness. |
| ⭐ | Load Testing | Optional for POC, mandatory for Production scaling. |
| ⭐ | Custom Variables and Secrets Management | For wallet private key/token management securely during tests. |

**🚀 Your Mabl Learning Roadmap (In simple words)**

1. **Week 1**:
   * Create account
   * Install CLI + Desktop app
   * Create your first UI and API test
   * Run tests manually
2. **Week 2**:
   * Connect tests to GitHub Actions
   * Add Mabl reports into GitHub PR checks
   * Start data-driven testing
3. **Week 3**:
   * Integrate Jira and XRay
   * Real-time bug creation from failed tests
   * Build 10+ meaningful test scenarios covering tokenization flows
4. **Week 4**:
   * Prepare Regression Suite
   * Test across Dev/QA/UAT
   * Show full demo to Manager!