VisaNet MVP Implementation Guide

Complete Project Execution Framework

Project Type: **MVP Demonstration**
Duration: **8 Weeks**

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Table of Contents

1. Executive Overview

1.1 Project Scope & Objectives

The VisaNet MVP project demonstrates 86 Agency's capability to integrate payment systems using VisaNet APIs via partner acquirer sandbox environments. This implementation showcases end-to-end transaction processing, compliance monitoring, and risk management capabilities without using production banking credentials.

Core Objectives:

1. Implement complete VisaNet transaction lifecycle (authorization → clearing → settlement)
2. Build real-time risk and compliance management dashboard
3. Demonstrate merchant onboarding with KYB simulation
4. Showcase AML/CTF monitoring aligned with FATF standards
5. Validate system readiness for PSP/acquirer integration

1.2 Success Criteria

Success Metric	Target
End-to-end transaction flow	100% functional in sandbox
AML/CTF rule detection	95% accuracy, <5% false positives
API response time	<200ms average
Dashboard load time	<2 seconds

2. Team Structure & Responsibilities

Role	Primary Responsibilities	Key Deliverables
Project Manager	• Sprint planning & tracking • Stakeholder communication • Risk mitigation	• Weekly status reports • Sprint retrospectives • Final presentation
Backend Developer	• VisaNet API integration • Wallet & ledger system • AML/CTF engine	• API documentation • Database schema • Integration tests
Frontend Developer	• Dashboard UI • KYB forms • Risk visualizations	• React components • Responsive layouts • UI documentation
UI/UX Designer	• Design system • User flows • Prototypes	• Figma designs • Style guide • Component library
QA Engineer	• Test planning • Bug tracking • UAT coordination	• Test cases • Bug reports • Test results

3. Sprint Planning & Execution

3.1 8-Week Sprint Schedule

Week	Sprint Focus	Key Deliverables	Success Criteria
1	Foundation & Setup	AWS infra, DB schema, Auth system	Environment ready
2-3	VisaNet Integration	Wallet system, API integration	Transactions working
4	AML/CTF Engine	Risk rules, Alert system	Compliance ready
5	KYB & Onboarding	Merchant forms, Document upload	KYB flow complete
6	UI Polish & Reports	Dashboard finalization, Reports	UI complete
7	Testing & QA	UAT, Bug fixes, Performance	All tests pass
8	Demo & Handover	Presentation, Documentation	Client approval

4. UI/UX Design Specifications

4.1 Design System

Brand Colors

Primary#1E40AF	Secondary#FBBF24	Success#10B981	Alert#EF4444

Screen Inventory

Screen	Components	Priority
Admin Dashboard	Stats cards, Charts, Tables	**Critical**
Transaction List	Data table, Filters, Status badges	**Critical**
Risk Dashboard	Risk heatmap, Alert list, Charts	**High**
KYB Forms	Multi-step form, File upload	**High**
Payout Screen	Form, Confirmation modal	**Medium**

5. Development Framework

5.1 Technical Stack

Layer	Technology	Justification
Frontend	React + Tailwind CSS + Axios	Modern, responsive, efficient

Layer	Technology	Justification
Backend	Node.js (Express) / Python (FastAPI)	Scalable, async capabilities
Database	PostgreSQL	ACID compliance, JSON support
Infrastructure	AWS (EC2, RDS, S3)	Reliable, scalable, secure

5.2 API Endpoints

```
POST   /api/v1/auth/login
GET    /api/v1/transactions
POST   /api/v1/transactions/authorize
POST   /api/v1/transactions/settle
GET    /api/v1/merchants
POST   /api/v1/merchants/onboard
GET    /api/v1/compliance/alerts
POST   /api/v1/compliance/rules
```

6. Integration Requirements

6.1 VisaNet Sandbox Integration

Prerequisites:
- ☐ Partner acquirer sandbox credentials obtained
- ☐ SSL certificates configured
- ☐ Test merchant accounts created
- ☐ Saudi IBAN test account available

6.2 AML/CTF Rule Configuration

Rule Type	Threshold	Action	Severity
Amount Limit	>$5,000	Flag + Review	High
Velocity Check	>5/day	Alert	Medium
Country Risk	Blacklist	Block	Critical

7. Quality Assurance Plan

7.1 Test Coverage Matrix

Component	Unit	Integration	E2E	UAT
VisaNet Integration	95%	100%	100%	✓
Wallet System	100%	95%	100%	✓
AML Engine	95%	90%	100%	✓

Component	Unit	Integration	E2E	UAT
UI Components	80%	-	90%	✓

8. Daily Workflows

8.1 Project Manager Daily Checklist

☐ Review Jira board and update sprint burndown
☐ Conduct daily stand-up (9:30 AM)
☐ Address blockers and dependencies
☐ Update stakeholders on progress
☐ Review and update risk register
☐ Schedule necessary meetings
☐ Prepare next day's agenda

8.2 Developer Daily Checklist

☐ Pull latest code from main branch
☐ Review assigned tickets in Jira
☐ Write unit tests for new features
☐ Implement code per specifications
☐ Run local tests before commits
☐ Create PR with detailed description
☐ Update API documentation
☐ Log time in Jira

8.3 UI/UX Designer Daily Checklist

☐ Review developer feedback in Figma
☐ Update design components as needed
☐ Export assets in required formats
☐ Document interaction patterns
☐ Create/update prototypes
☐ Review implemented UI against designs
☐ Prepare next sprint's designs

8.4 QA Engineer Daily Checklist

☐ Execute test cases for completed features
☐ Log bugs with reproduction steps
☐ Verify bug fixes
☐ Update test documentation
☐ Run regression tests
☐ Monitor test environment
☐ Prepare test status report

9. Risk Management

Risk	Probability	Impact	Mitigation	Owner
Visa sandbox delays	Medium	High	Alternative PSP sandbox ready	Tech
AML false positives	Low	Low	Adjustable rule parameters	Dev
Timeline slippage	Medium	High	Weekly reviews + buffer time	PM

10. Delivery & Handover

10.1 Final Deliverables

6. **Source Code:** Complete Git repository with all branches
7. **Documentation:** Architecture diagrams, API docs, user guides
8. **Demo Environment:** Fully configured sandbox with test data
9. **Video Walkthrough:** 10-15 minute demo recording
10. **Postman Collection:** Complete API testing suite

10.2 Handover Checklist

- ☐ Code repository transferred
- ☐ AWS credentials provided
- ☐ Documentation reviewed
- ☐ Demo environment accessible
- ☐ Knowledge transfer session completed
- ☐ Client sign-off obtained

Conclusion

This implementation guide provides comprehensive direction for the successful delivery of the VisaNet MVP project. All team members should reference this document daily and update their progress according to the defined workflows and milestones.

For questions or clarifications, contact:
    Project Manager: [Name] -
    Tech Lead: [Name] -

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