

Client Precondition Report

Client: WristKey Global Solutions (WGS)

1. Company Information

- Company Name: WristKey Global Solutions
 - Primary Contact Person: Gabriel Covington (Founder)
 - Email Address: gabrielc247@gmail.com
 - Website: <https://www.wristkeyglobal.com>
 - Location / Time Zone: New York, USA (ET)
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2. Team Structure & Required Skills

a. Team Composition

The team will operate as a product-focused engineering squad with light role specialization and shared ownership.

Suggested Roles (rotating where appropriate):

- Project Lead / Scrum Lead (1–2 students): sprint planning, task coordination, client updates
- Frontend Engineers (2–3 students): UI/UX implementation, wallet interfaces, dashboards
- Backend Engineers (2–3 students): APIs, transaction logic, integrations, workflows
- Security & QA Lead (1–2 students): authentication flows, testing, threat modeling, QA automation
- DevOps / Deployment Lead (1 student): hosting, CI/CD, environment setup

Collaboration Expectations:

- Weekly sprint planning and demos
 - GitHub-based workflow (issues, PRs, code reviews)
 - Agile, iterative delivery with frequent feedback
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b. Required Baseline Skills

Students are not expected to be industry experts. Required baseline skills include:

- General programming experience (any modern language)
 - Basic understanding of web applications and client–server architecture
 - Familiarity with Git/GitHub
 - Willingness to learn APIs, SDKs, and modern web tools
 - Comfort working in a team-based Agile environment
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c. Skills to Be Developed During the Project

Students will learn and gain experience with:

- Digital wallet architecture and transaction flows
 - API integration (blockchain, identity, payments)
 - Secure authentication concepts (biometrics, keyless login)
 - AI agent workflows (rule-based + AI-assisted logic)
 - UI/UX refinement for fintech products
 - Cloud deployment and CI/CD pipelines
 - Testing strategies for financial applications
 - Security best practices for Web3/fintech systems
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3. Project Title & Acronym

- Project Title: WristKey Wallet Platform — Launch & Deployment
 - Acronym: WGS-Wallet
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4. Project Overview & Problem Statement

Problem

Many users find crypto wallets complex, insecure, or inaccessible, especially when managing transactions, identities, and digital assets across platforms. Businesses also struggle to integrate secure wallet functionality into real-world use cases.

Background

WristKey Global Solutions is building a next-generation wallet ecosystem designed for simplicity, security, and real-world usability, including wearable and mobile experiences. The platform emphasizes secure sign-on, smooth transactions, and extensibility for future AI and blockchain integrations.

Target Users

- Crypto and Web3 users
- Developers and businesses integrating wallet functionality
- Enterprises exploring digital assets and secure identity
- Future wearable wallet users

Goals & Impact

- Deliver a production-ready wallet MVP
- Improve transaction reliability and UX
- Implement secure sign-on and workflows
- Prepare the platform for real users and partners

Students will gain hands-on experience shipping a real fintech/Web3 product.

5. Solution Overview & Core System Components

Core MVP Deliverables (Must be completed)

- Wallet authentication and user account flows
- Secure sign-on (keyless / biometric-style flow using available APIs or mock services)
- Wallet transaction execution (testnet or sandbox)
- Transaction history and status tracking
- API integrations for blockchain interaction
- AI-assisted or rule-based agent workflows (e.g., transaction monitoring, alerts)
- Polished UI/UX for core wallet flows
- Deployment to a live staging/production environment
- Testing (unit + basic integration)

Stretch Goals (Optional)

- Advanced AI agents (fraud detection, smart alerts)
 - Multi-chain or cross-chain support
 - Admin dashboard and analytics
 - Wearable-optimized UI views
 - Enhanced compliance or logging features
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6. Technical Considerations

- Preferred Stack (Flexible):
 - Frontend: React / Next.js
 - Backend: Node.js / Express or similar
 - Database: PostgreSQL / MongoDB
 - Blockchain: Testnet integrations (EVM-compatible or similar)
- APIs & Tools:
 - Blockchain APIs (testnet)
 - Authentication / identity APIs
 - AI APIs (for agent logic, optional)
- Constraints:
 - Must be achievable in 13 weeks
 - Security-conscious design (no real funds required)
- Testing & CI:
 - Basic automated testing
 - GitHub Actions or similar CI

- Security & Privacy:
 - Secure auth flows
 - No real user funds or PII required
 - Best-practice key handling concepts
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7. Innovation & Competitive Advantage

- Combines wallet technology, secure identity, and AI workflows
 - Designed for real-world adoption, not just demos
 - Focus on simplicity and UX, often missing in Web3 products
 - Forward-looking wearable and enterprise use cases
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8. Proposed Implementation Timeline (12 Weeks)

- Week 1: Requirements, architecture, onboarding
 - Week 2: UI wireframes, API planning
 - Week 3: Auth flows & user accounts
 - Week 4: Wallet core logic (testnet)
 - Week 5: Transaction execution & history
 - Week 6: API integrations
 - Week 7: AI/agent workflows (basic)
 - Week 8: UI/UX refinement
 - Week 9: Security review & testing
 - Week 10: Deployment setup (staging)
 - Week 11: Bug fixes, polish, stretch features
 - Week 12: Final deployment, documentation, demo
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9. Deployment & Support Expectations

- WGS will provide:
 - Access to APIs, test credentials, and documentation
 - Product guidance and feedback
 - Students will provide:
 - Deployed application (staging or production)
 - Setup instructions and documentation
 - Demo walkthrough
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10. Confidentiality & Intellectual Property

- Code produced will belong to WristKey Global Solutions
 - Students may showcase non-sensitive work (screenshots, architecture diagrams) in portfolios
 - No disclosure of private keys, credentials, or proprietary logic
 - NDA can be lightweight and student-friendly
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11. Proposed Success Metrics

- Wallet can successfully create users and process test transactions
 - Core features completed within timeline
 - Deployed application is stable and usable
 - Clear documentation and handoff
 - Positive usability feedback from stakeholders
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12. Mentorship & Communication Plan

- Meetings: Weekly (preferred by professor)
 - Communication: Slack, Email, GitHub
 - Response Time: 24–48 hours
 - Mentors: Founder + technical advisors from WGS
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13. Additional Notes

This project is intended to be a real launch-ready system, not a theoretical exercise. Students will gain direct exposure to fintech, blockchain, AI workflows, security, and deployment, making this a strong portfolio-level capstone.