Manus Sprint Task Cards - July 1st Update

Sprint Title: Al Wizard Integration + Advanced Security Prototypes

Sprint Duration: 10-14 days

Owner: Manus

Lead Contact: Richard

Status: # EXPANDED SCOPE - REVOLUTIONARY FEATURES

© Sprint Overview

This updated sprint combines our proven AI onboarding wizard integration with groundbreaking security and hardware prototype development. We're not just building a trading platform - we're creating the **next generation of secure**, AI-powered financial infrastructure.

Strategic Objectives:

- Complete AI wizard integration for immediate competitive advantage
- Begin advanced security research for patent opportunities and enterprise differentiation
- Establish hardware prototype pipeline for revolutionary security gateway devices
- Prepare investor-ready demonstrations for funding presentations

CORE IMPLEMENTATION TASKS

▼ TASK 1: AI Wizard Integration Finalization

Objective:

Complete integration of the 10-step AI onboarding wizard with full functionality

Priority: CRITICAL - Immediate competitive advantage

Deliverables:

Frontend Integration:

- All 10 wizard step components integrated into dashboard
- Smooth routing: Dashboard → Onboarding → Completion → Dashboard
- Mobile-optimized responsive design across all devices
- Framer Motion animations and professional transitions

• Backend API Integration:

- Complete session management with persistence
- Real-time AI analysis and personalized recommendations
- Strategy matching and compatibility checking
- User profile creation and activation

State Management:

- Redux/Context integration with session persistence
- Automatic save/resume functionality across browser sessions
- Error handling and recovery mechanisms
- Demo mode state management

Technical Requirements:

JavaScript

// Core integration points
- React 18+ with hooks and context
- Tailwind CSS for consistent styling
- API integration with /onboarding/* endpoints
- Session persistence in localStorage/Redux

- Mobile breakpoints: sm(640px), md(768px), lg(1024px)

Success Criteria:

☐ All 10 steps functional with AI recommendations			
□ >85% completion rate in testing			
<2 second load times for initial wizard			
☐ Perfect mobile responsiveness			
☐ Session persistence across browser restarts			
Timeline: Days 1-4			

▼ TASK 2: Subscription Gating & Tier Enforcement

Objective:

Implement comprehensive subscription tier system with upgrade flows

Priority: O HIGH - Revenue optimization critical

Deliverables:

- Tier-Check Middleware:
 - Real-time subscription validation
 - Feature access control by tier (Basic/Professional/Enterprise)

- Usage tracking and limit enforcement
- Automatic tier verification on each request

• Upgrade Flow Integration:

- Modal upgrade prompts for premium features
- Seamless Stripe integration for subscription changes
- Prorated billing and immediate feature activation
- Clear value proposition messaging

• 7-Day Premium Trial:

- Automatic trial activation on wizard completion
- Feature unlock notifications and guidance
- Trial expiration handling and conversion prompts
- Usage analytics during trial period

Tier Access Matrix:

```
JavaScript
  basic: {
    platforms: ['tradingview'],
    strategies: 2,
    aiQueries: 100/month,
   features: ['basic_alerts', 'simple_analysis']
  },
  professional: {
    platforms: ['tradingview', 'metatrader', 'thinkorswim'],
    strategies: 5,
    aiQueries: 2000/month,
    features: ['advanced_alerts', 'backtesting', 'portfolio_analysis']
  },
  enterprise: {
    platforms: 'all',
    strategies: 'unlimited',
    aiQueries: 'unlimited',
```

```
features: 'all + custom_strategies + api_access + priority_support'
}
```

Success Criteria:

	Tier en	forcement	working	across	all	features
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☐ Upgrade conversion rate >15% during onboarding

☐ Trial activation rate >90% on wizard completion

☐ Zero billing errors or access issues

Timeline: Days 2-5



Objective:

Create professional demo capabilities for investor presentations

Priority: O HIGH - Investor readiness critical

Deliverables:

- Demo Mode Activation:
 - URL parameter trigger: ?demo=true
 - Pre-filled optimal responses showcasing all features
 - Accelerated step transitions (2-second intervals)
 - Professional demo banner with subtle branding
- API Write Protection:
 - Disable all database writes during demo mode

- Mock API responses with realistic data
- Prevent actual user account creation
- Safe demonstration environment

• Presentation Optimization:

- High-quality screenshots of each wizard step
- Smooth transitions optimized for screen sharing
- Clear visual indicators of AI intelligence
- Professional completion flow with metrics

Demo Data Configuration:

```
JavaScript

const DEMO_PROFILE = {
   experience: 'advanced',
   risk_tolerance: 'aggressive',
   investment_goals: ['growth', 'speculation'],
   trading_style: 'day_trading',
   platforms: ['tradingview', 'metatrader'],
   strategies: ['momentum_breakout', 'mean_reversion_rsi'],
   ai_personality: 'growth_optimizer',
   communication_style: 'detailed'
}
```

Success Criteria:

 Demo mode activates cleanly with URL paramet 	er
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- ☐ All API writes disabled during demo
- ☐ Professional presentation quality
- ☐ Complete wizard flow in <3 minutes for demos

Timeline: Days 3-6

ADVANCED SECURITY & HARDWARE PROTOTYPES

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Objective:

Begin exploratory research for revolutionary hardware security gateway

Priority: STRATEGIC - Long-term competitive moat

Deliverables:

• Patent Research Documentation:

- Prior art analysis for blockchain-photonic integration
- Unique value proposition and technical differentiation
- Patent application strategy and timeline
- Intellectual property protection plan

• Technical Architecture Draft:

- Photonic encryption methodology for blockchain transactions
- Hardware specifications for security gateway device
- Integration points with existing trading platforms
- Performance benchmarks and security guarantees

• Manufacturing Research:

- Contract manufacturer evaluation and capabilities
- Component sourcing and supply chain analysis
- Cost modeling for prototype and production runs
- Regulatory compliance requirements (FCC, CE, etc.)

Research Areas:

Plain Text

Photonic Technologies:

- Quantum key distribution (QKD)
- Optical encryption methods
- Photonic integrated circuits (PICs)
- Fiber optic security protocols

Blockchain Integration:

- Hardware wallet integration
- Multi-signature transaction routing
- Decentralized identity management
- Smart contract execution security

Success Criteria:

☐ Comprehensive patent landscape analysis			
☐ Technical feasibility assessment completed			
☐ 3+ qualified contract manufacturers identified			
☐ Prototype development timeline established			
Timeline: Days 5-10 (Research Phase)			

TASK 5: AI NIDR Agent (Concept Draft)

Objective:

Design Al-powered Network Intrusion Detection and Response system

Priority: STRATEGIC - Enterprise security differentiation

Deliverables:

Architecture Documentation:

- AI inference engine design for real-time threat detection
- Machine learning models for anomaly detection
- Integration with existing security infrastructure
- Scalability architecture for enterprise deployment

• Data Ingestion Framework:

- Packet header analysis and pattern recognition
- Session tracking and behavioral analysis
- Network flow monitoring and classification
- Real-time threat intelligence integration

Response Automation:

- Automated threat response workflows
- Integration with security orchestration platforms
- Incident escalation and notification systems
- Forensic data collection and analysis

AI Capabilities:

Plain Text

Detection Methods:

- Behavioral anomaly detection
- Signature-based pattern matching
- Machine learning threat classification
- Zero-day attack identification

Response Actions:

- Automatic traffic blocking
- Network segmentation triggers
- Alert generation and escalation
- Forensic evidence collection

Success Criteria: Complete system architecture documented ☐ AI model specifications defined

☐ Integration requirements identified

☐ Performance benchmarks established

Timeline: Days 6-12 (Concept Phase)



CLOUD & INFRASTRUCTURE PREP.



TASK 6: Cloud Deployment Security Planning

Objective:

Design enterprise-grade cloud security architecture

Priority: O HIGH - Production deployment foundation

Deliverables:

Zero-Trust Architecture:

- Identity and access management (IAM) framework
- Multi-factor authentication integration
- Principle of least privilege implementation
- Continuous security monitoring and validation

• End-to-End Encryption:

- Data encryption at rest and in transit
- Key management and rotation policies

- Certificate management and PKI infrastructure
- Secure communication protocols

• Cloud Service Evaluation:

- AWS/GCP/Azure security service comparison
- Cost-benefit analysis for security tools
- Compliance framework alignment (SOC 2, ISO 27001)
- Disaster recovery and business continuity planning

Infrastructure Components:

Plain Text

Security Services:

- AWS GuardDuty / GCP Security Command Center
- CloudTrail / Cloud Audit Logs
- WAF and DDoS protection
- Secrets Manager / Key Vault

Monitoring & Analytics:

- SIEM integration (Splunk, ELK Stack)
- Real-time security dashboards
- Automated incident response
- Compliance reporting automation

Success Criteria:

Timeline: Days 7-12

Complete security architecture documented
Cloud service recommendations with costs
Compliance framework alignment verified
Implementation roadmap established

***** DOCUMENTATION & INVESTOR HANDOFF SUPPORT

TASK 7: Slide Integration / Investor-Ready UX Polish

Objective:

Finalize investor presentation materials and UI polish

Priority: O HIGH - Investor readiness critical

Deliverables:

• UI Polish and Refinement:

- Replace any placeholder or black & white elements
- Consistent color scheme and branding across all components
- Professional iconography and visual elements
- High-quality screenshots for investor materials

• Investor Slide Integration:

- 4 additional slides matching existing deck design
- Future Enhancements roadmap visualization
- Technical architecture diagrams
- Competitive advantage demonstrations

• Mobile View Optimization:

- Perfect mobile rendering for screenshot capture
- Touch-friendly interactions and responsive design
- Professional mobile demo capabilities
- Cross-device consistency verification

Visual Standards:

CSS

Brand Colors:

- Primary: #0A2342 (Deep Blue)- Accent: #2CA58D (Teal Green)

- Text: #FFFFFF (White)

- Secondary: #E5E5E5 (Light Gray)

Typography:

Headers: 'Segoe UI', 700 weightBody: 'Segoe UI', 400 weight

- Accent: Linear gradient text effects

Success Criteria:

 All UI elements profe 	essionally	/ styled
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Investor slides integrated seamlessly

☐ Mobile views optimized for screenshots

☐ Brand consistency across all materials

Timeline: Days 8-14

SUCCESS METRICS & KPIs

Technical Performance

• Al Wizard Completion Rate: >85%

Load Time Performance: <2 seconds initial load

• Mobile Responsiveness: 100% across major devices

• API Response Time: <200ms average

• **Error Rate:** <0.1% in production

Business Metrics

- Subscription Conversion: >15% upgrade during onboarding
- Trial Activation: >90% on wizard completion
- **Demo Engagement:** >95% completion in investor presentations
- User Satisfaction: >4.5/5 rating

Strategic Objectives

- Patent Applications: 2+ filed for hardware innovations
- **Security Architecture:** Enterprise-ready framework
- Investor Readiness: Professional demo capabilities
- Competitive Advantage: 6-12 month technical lead

DETAILED TIMELINE

Week 1: Core Integration (Days 1-7)

- **Days 1-4:** Al Wizard Integration Finalization
- **Days 2-5:** Subscription Gating & Tier Enforcement
- Days 3-6: Investor Demo Mode Implementation
- **Days 5-7:** Begin Advanced Security Research

Week 2: Advanced Development (Days 8-14)

- **Days 5-10:** Blockchain Photonic Gateway Research
- Days 6-12: AI NIDR Agent Concept Development
- Days 7-12: Cloud Security Architecture Planning

• Days 8-14: UI Polish and Investor Materials

Buffer Period (Days 15-17)

- Integration testing and bug fixes
- Performance optimization and monitoring
- Investor demo preparation and rehearsal
- Documentation finalization and handoff



TECHNICAL REQUIREMENTS

Development Environment

```
Bash
# Frontend Requirements
Node.js 18+
React 18+
Tailwind CSS 3+
Framer Motion 10+
# Backend Requirements
Python 3.11+
FastAPI 0.100+
PostgreSQL 15+
Redis 7+
# Cloud Infrastructure
AWS/GCP/Azure account
Docker containerization
Kubernetes orchestration
CI/CD pipeline setup
```

Security Requirements

• End-to-end encryption for all data

- Multi-factor authentication
- Role-based access control
- Audit logging and monitoring
- Compliance with SOC 2 Type II

COORDINATION & SUPPORT

Communication Channels

• Slack: #manus-sprint-july-2024

• **Daily Standups:** 9:00 AM EST

• Weekly Reviews: Fridays 3:00 PM EST

• Emergency Contact: Direct message Richard

Resource Access

Component Library: Complete React component package

API Documentation: Full backend integration guide

Design System: Tailwind configuration and brand assets

Demo Environment: Staging server for testing

Quality Assurance

- Code Reviews: All changes require review approval
- **Testing Requirements:** >90% test coverage for new features
- Performance Monitoring: Real-time metrics and alerting
- **Security Scanning:** Automated vulnerability assessment

Immediate Competitive Advantages

- Al Onboarding Wizard: Most advanced in fintech industry
- Subscription Optimization: Revenue-maximizing tier system
- Professional Demos: Investor-ready presentation capabilities
- Security Innovation: Patent-pending hardware solutions

Long-Term Market Position

- Technology Leadership: 6-12 month lead over competitors
- Patent Portfolio: Intellectual property protection
- Enterprise Appeal: Security-first architecture
- Scalable Foundation: Architecture supporting rapid growth

Investor Value Proposition

- Proven Technology: Working AI wizard with user validation
- Revenue Model: Clear subscription tiers with upgrade paths
- Innovation Pipeline: Advanced security and hardware prototypes
- Market Differentiation: Unique capabilities no competitor can match

DELIVERABLE FORMATS

Available Export Options:

1. PDF Sprint Cards - Professional downloadable format

- 2. Notion Board Export Collaborative workspace integration
- 3. **Trello-Compatible JSON** Project management import
- 4. **[a] Excel/Sheets Format** Spreadsheet tracking and reporting
- 5. Mobile-Friendly HTML Responsive task tracking

Documentation Package:

- Complete task specifications
- Technical requirements and dependencies
- Success criteria and acceptance tests
- Timeline and milestone tracking
- Resource allocation and coordination

* This expanded sprint represents our evolution from a trading platform to a comprehensive financial technology ecosystem with revolutionary security innovations and AI-powered user experiences!

Ready to execute the most ambitious development sprint in fintech history! \neq