

ANNEX 1 - COMPLETE

Detailed Scope of Work

Flick MVP - iOS Application Development

October 8, 2025

1. Introduction

This document provides a comprehensive breakdown of ALL features, modules, and functionalities to be developed as part of the Flick MVP (Minimum Viable Product) for iOS platform, including ALL additional features requested by Good Monkeys LLC. This annex forms an integral part of the Application Development Agreement between Good Monkeys LLC and CodeFlow Studios.

1.1 Project Scope

Platform: iOS (iPhone and iPad compatible)

Development Framework: Flutter or React Native (cross-platform capable, optimized for iOS)

Backend: Node.js with Express.js framework

Database: Supabase or Firebase (cloud-hosted, scalable)

Cloud Infrastructure: AWS, Vercel, or Google Cloud Platform

Note: Android development is excluded from this MVP scope. Focus is exclusively on iOS platform delivery.

2. Core Modules & Features

2.1 Enhanced QR Code Scanning & Lighter Registration

Purpose: Enable users to scan QR codes using native iOS camera and provide comprehensive web-based fallback system.

Features:

- Native iOS Camera Integration: Users can scan QR codes directly using their phone's native camera app
- Deep Linking: If app is installed, QR scan opens app directly to relevant screen
- Web Fallback System: If app not installed, QR opens web page with notification-style interface
- Smart Routing Logic: Registered lighter shows return/claim options, unregistered shows download prompt
- In-App QR Scanner: Available for registered users within the app
- Unique lighter ID generation and validation
- Photo capture functionality to document the lighter
- Duplicate detection to prevent multiple registrations
- Registration confirmation with success notification
- History log of all scanned/registered lighters

2.2 User Profiles & Onboarding

Purpose: Create personalized user accounts with profile management and seamless onboarding.

Features:

- User registration with email or social OAuth (Google Sign-In)
- Profile creation with username, avatar, bio, and location
- Email verification and password recovery
- Onboarding tutorial (first-time user walkthrough)
- Profile editing and customization
- Privacy settings (public/private profile)
- View personal lighter collection
- Activity feed showing recent scans, trades, and achievements
- Push notification preferences

2.3 Ownership History Tracking

Purpose: Allow users to view the ownership chain of lighters while respecting privacy preferences.

Features:

- Ownership chain tracking in database schema
- Privacy-respecting display (only public profiles shown)

- Clean timeline view: "X → A → B → You"
- Optional privacy settings for each user
- Integration with existing trade/lost & found workflows
- View previous owners' publicly shared details
- Privacy controls to remain anonymous in ownership history
- Ownership transfer logging and history

2.4 Smart Location Update System

Purpose: Proactively track lighter locations through user-friendly notifications.

Features:

- Smart push notifications asking "Is your lighter with you?"
- One-tap responses (Yes/No)
- Automatic location updates when user confirms
- Follow-up "Is it lost?" flow for missing lighters
- Non-intrusive frequency (max 1-2 prompts per week)
- Respects user privacy and battery life
- Location-based lighter tracking
- Optional manual location updates
- Location history for lost & found purposes

2.5 Lost & Found Workflow

Purpose: Allow users to report lost lighters and facilitate their recovery through community engagement.

Features:

- Report a lighter as 'Lost' with description and location
- Browse lost lighters in the community
- Mark a lighter as 'Found' when scanned by another user
- Notification system to alert original owner when lighter is found
- In-app messaging to coordinate lighter return
- Optional reward system (user can offer reward for return)
- Lost & Found history tracking
- Map view showing locations of reported lost lighters
- Integration with smart location update system

2.6 Trading and Gifting Features

Purpose: Enable peer-to-peer lighter exchanges and gifts within the community.

Features:

- Browse available lighters for trade in community marketplace
- Send trade requests to other users
- Accept/reject trade offers with messaging
- Gift lighters to friends or community members
- Transfer ownership through secure transaction
- Trade history and transaction log
- Rating system for successful trades
- Search and filter lighters by brand, rarity, or design
- Wishlist functionality to track desired lighters
- Integration with ownership history tracking

2.7 Basic Gamification and Rewards (Lite Version)

Purpose: Encourage user engagement through achievements, points, and leaderboards.

Features:

- Point system for various activities (scans, trades, referrals, location updates)
- Achievement badges (e.g., 'First Scan', 'Collector', 'Trader', 'Helper', 'Location Tracker')
- Leaderboard showing top collectors and active users
- Level progression system (Bronze, Silver, Gold, Platinum tiers)
- Daily login rewards
- Referral bonus program
- Milestone celebrations (e.g., 10th lighter scanned)
- Exclusive digital collectibles for top users
- Social sharing of achievements

2.8 Admin Dashboard

Purpose: Provide administrators with tools to manage the platform, users, and content.

Features:

- Web-based admin panel (accessible via browser)
- User management (view, edit, suspend, delete accounts)
- Lighter database management (view all registered lighters)
- Analytics dashboard (user growth, activity metrics, engagement rates)
- Content moderation tools (review flagged content, messages)
- Push notification broadcast system
- Report management (handle user reports and disputes)

- System configuration and settings
- Export data (CSV/Excel reports for analytics)
- Ownership history management
- Location tracking analytics

2.9 Backend APIs and Cloud Integration

Purpose: Build robust, scalable backend infrastructure to support all app functionalities.

Features:

- RESTful API endpoints for all app features
- User authentication API (OAuth, JWT tokens)
- QR code validation and lighter registration API
- Real-time messaging API for trades and lost & found
- Push notification service integration (Firebase Cloud Messaging)
- Cloud storage for user photos and lighter images
- Database schema design and implementation
- API rate limiting and security measures
- Error handling and logging system
- Automated backup and data recovery system
- Social-ready architecture for future feed features
- Event logging system for activity tracking
- Scalable infrastructure for future expansion

2.10 Mobile App (iOS)

Purpose: Develop native-quality iOS application with intuitive UI/UX.

Features:

- iOS-optimized user interface (iPhone 12 and above)
- iPad compatibility with responsive design
- Native iOS design patterns and gestures
- Smooth animations and transitions
- Offline mode for viewing personal collection
- Dark mode support
- In-app camera integration for QR scanning
- Location services integration (for lost & found features)
- Push notifications
- App Store deployment and optimization
- TestFlight beta testing setup
- Deep linking support for QR code scanning
- Native camera integration for QR scanning

2.11 Landing Website for goodmonkeys.com

Purpose: Single-page marketing website (complimentary deliverable).

Features:

- Company Section: About Good Monkeys LLC, mission, team
- Flick App Section: App introduction, features showcase, download buttons
- Contact Form: Professional contact system with email forwarding
- Responsive Design: Mobile-optimized for all devices
- SEO Optimized: Ready for search engine visibility
- Integrated Experience: Seamless flow between company info and app promotion
- Hero section with app overview and download link
- Feature highlights section
- Screenshots gallery (carousel)
- Call-to-action buttons (Download from App Store)
- Social media links
- Fast loading and SEO optimization
- Hosting on Vercel or Netlify (included)

3. Technical Specifications

3.1 Technology Stack

Component	Technology
Mobile Framework	Flutter or React Native
Target Platform	iOS (iPhone & iPad)
Backend Framework	Node.js + Express.js
Database	Supabase or Firebase
Authentication	OAuth 2.0 (Google) + Email/Password
Cloud Infrastructure	AWS / GCP / Vercel
Push Notifications	Firebase Cloud Messaging (FCM)
File Storage	AWS S3 or Firebase Storage
Version Control	GitHub

3.2 Enhanced Database Schema

The following tables will store all data for the Flick MVP application:

Table Name	Key Fields	Purpose
users	user_id, email, username, avatar_url, created_at, points, level, privacy_setting, last_login	Stores user registration, login, and preferences
lighters	lighter_id, qr_code, owner_id, brand, color, photo_url, status, registered_at, last_location	Stores registered lighter data and location
ownership_history	history_id, lighter_id, previous_owner_id, new_owner_id, transfer_type, created_at	Tracks ownership transfers
location_updates	location_id, lighter_id, user_id, latitude, longitude, timestamp, stacking_data	Stores location, stacking data and updates
qr_web_sessions	session_id, qr_code, user_agent, ip_address, action, created_at	Tracks QR web interactions and sessions
trades	trade_id, requester_id, owner_id, lighter_offered_id, lighter_requested_id, status, created_at	Manages trade requests and status
lost_found	report_id, lighter_id, reporter_id, status, description, created_at	Tracks lost and reported lighters
messages	message_id, sender_id, recipient_id, content, timestamp, read_status	Handles in-app messaging system

achievements	achievement_id, user_id, badge_type, earned_at	Store user achievements and badges
notifications	notification_id, user_id, type, content, read_status, created_at	Store notification records

4. Project Deliverables

- iOS Application: Production-ready app submitted to Apple App Store
- TestFlight build for beta testing
- Complete source code repository
- Backend Infrastructure: Deployed and configured cloud backend
- API documentation (Swagger/Postman collection)
- Database schema documentation
- Admin Dashboard: Web-based admin panel (deployed and accessible)
- Admin user manual and documentation
- Landing Website: Single-page website for goodmonkeys.com
- Deployed and live on production server
- Documentation: Technical documentation (architecture, API specs)
- User manual and onboarding guide
- Deployment and maintenance guide

5. Exclusions from Scope

- Android application development (excluded from MVP)
- Advanced AI/ML features (e.g., lighter image recognition)
- Payment gateway integration (no monetization in MVP)
- Third-party brand partnerships or integrations
- Advanced analytics and business intelligence tools
- Multi-language support (English only for MVP)
- Video content or streaming features
- Advanced social media integration (basic social features included)

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