

Lost & Found Platform – Proposal and User Flow

DOCUMENT ATTRIBUTES	
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1. Introduction

This document outlines the complete **User Flow** for the Lost & Found platform and the **features included in the MVP (Minimum Viable Product)** to ensure a smooth and structured development process.

2. User Flow

Step 1: User Registration & Account Setup

- Users can sign up using email, phone number, or social login.
- Profile creation with basic details (Name, Contact Preferences, etc.).

Step 2: QR Code Purchase & Activation

- Users purchase QR Codes/NFC tags from:
 - The platform's website.
 - External marketplaces (Amazon, Alibaba, etc.).
- Upon receiving the QR Code:
 - Users scan it via the web app.
 - System prompts login/signup if not done already.
 - QR Code links to the user's account.

Step 3: Adding Items to Profile

- Navigate to “**My Items**” section.
- Click on “**Add New Item**”.
- Provide item details:
 - **Item Name** (Car Key, Wallet, Passport, etc.).
 - **Item Description** (Optional but recommended).
 - **Category Selection** (Pets, Electronics, Personal Belongings, etc.).
 - **Item Status** (Active/Inactive – users can deactivate when not needed).
 - Option to set a **reward** if the item is lost and found.

Step 4: Lost Item Workflow

- User marks an item as **Lost** in their profile.
- System triggers:
 - Notification to nearby users.
 - AI-based **lost item matching** with items in the **Found Section**.
- Item is posted on the **Lost & Found Board**.
- Community members can comment if they find a matching item.

Step 5: Found Item Workflow

- If someone finds an item with a QR Code/NFC tag:
 - They scan the code.
 - Redirected to the owner's profile.
 - Can **send a message or voice note** to the owner.
- If an item **without a QR code** is found:
 - Finder can post details on the **Lost & Found Board**.
 - AI-powered **image matching** suggests potential lost items.

Step 6: Communication & Reward System

- Owner and finder communicate **within the platform**.
- If the item is returned:
 - Owner can confirm recovery and close the case.
 - Owner can reward the finder (if enabled).
 - Users can share a **testimonial/story** about the experience.

Step 7: Social & AI-Based Features

- **AI-Powered Search:** Matches lost & found items based on descriptions, images, and location.
- **Community Sharing:** Users can post updates about lost/found items.
- **Status Updates:** Users can share a short video/story when they recover an item.

3. MVP Scope

MVP Features

1. **User Registration & Profile Management**
 - a. Email & phone-based sign-up/login.
 - b. Profile creation & management.
2. **QR Code Purchase & Activation**
 - a. QR Code linking to user accounts.
 - b. Scanning mechanism to activate QR codes.
 - c. Purchasing outside the platform in the MVP phase can be done through external marketplaces (Amazon, Alibaba, etc.), with direct purchases from the platform planned for future phases.
3. **Lost & Found Board**

- a. Users can report lost & found items.
- b. Basic search functionality for lost/found items.
- 4. Basic Communication System**
 - a. Messaging system for owners and finders to connect.
 - b. Option to send text messages or voice notes.
- 5. Item Management System**
 - a. Users can add/edit items in their account.
 - b. Ability to mark items as **lost** or **found**.
 - c. On/off toggle for QR codes to manage privacy.

Resource Allocation & Timeline

- **1 Full-Stack Developer** assigned.
- **Costing: \$4,800 for MVP**

4. Future Enhancements (Post MVP)

- 1. AR-Based Search & Navigation**
 - a. Pokémon GO-style AR hints for crowd-based recovery.
- 2. AI-Driven Image Recognition & Matching**
 - a. Advanced matching system for lost & found items.
- 3. Reward System with Points & Incentives**
 - a. Encourage community participation through rewards.
- 4. Advanced Notification System**
 - a. Location-based alerts & smart reminders.
- 5. Mobile App Development**
 - a. Dedicated iOS and Android applications.

5. Conclusion

This document serves as a blueprint for the **Lost & Found Platform MVP**. The outlined **User Flow** and **MVP Scope** ensure a structured approach to delivering a functional prototype with essential features. Further enhancements will be considered based on user feedback and adoption rates.

Next Steps:

- Confirmation of the User Flow, MVP scope.
- Commencing development upon approval.