

DaffoFind: A Smart Lost & Found App for Daffodil International University.



1. Description

This mobile application provides a **digital platform** for university students and faculty to report lost or found items efficiently. Instead of relying on physical notice boards or word-of-mouth, users can instantly upload details, attach images, and connect with others to recover their belongings.

2. Objectives

- ✦ **Reduce the hassle of lost items** by providing a structured way to report and retrieve them.
- ✦ **Enhance communication** between students and faculty regarding lost & found objects.
- ✦ **Digitize traditional notice boards**, making lost & found announcements more effective.
- ✦ **Improve the chances of item recovery** with real-time updates and notifications.

3. Scope







- ✓ **For Students & Faculty:** Users can report lost or found items and search for missing belongings.
- ✓ **For Administration:** The university admin can monitor and manage reported items.
- ✓ **Campus-Wide Usage:** This app is specifically designed for university use but can be

expanded to other institutions.

✓ **Real-Time Notifications:** Users get alerts when an item matching their lost item is found.

4. Design and Necessary Pages with Design Idea

★ Key Pages & Features:

- 1  **Home Page** – Displays recent lost & found posts with images, search bar, and filters (category, date, location).
- 2  **Report Lost Item Page** – Users input details like item description, location, date, and attach images.
- 3  **Report Found Item Page** – Users upload an image, add location, and specify any identifying marks.
- 4  **Item Details Page** – Shows complete details of a lost/found item, with a "Contact Owner" or "Claim Item" button.
- 5  **User Profile Page** – Displays the user's past reports, claimed items, and personal details.
- 6  **Admin Dashboard** – Allows university staff to verify found items and prevent spam reports.

🌀 Design Idea:

- **Minimalist UI:** Clean interface with icons and a card-based design for posts.
- **Dark & Light Mode:** User-friendly theme options.
- **Floating Action Button:** Quick access to "Report Lost" or "Report Found" actions.

5. Potential Challenges

- ⚠ **Fake or Spam Reports** – Need a verification process to avoid misuse.
- ⚠ **Privacy Concerns** – Users may not want to share personal contact details; solution: in-app messaging.
- ⚠ **Item Verification** – A system for matching lost items with found ones is necessary.
- ⚠ **User Engagement** – Encouraging students to actively use the platform.

6. Feasibility & Real-Life Usage

- ✓ **Easy to Implement** – Uses Firebase for real-time updates and cloud storage.
- ✓ **Practical for Universities** – A well-structured app improves the traditional lost & found system.
- ✓ **Scalable** – Can be expanded to include more campuses or even public places.
- ✓ **Encourages Responsible Behavior** – Incentives for honest reporting (e.g., reward points for returning items).

7. Compare with Others & Existing Work Analysis

- **Existing Methods:** Physical lost & found boards, social media groups, campus email chains.
- **Problems in Existing Work:** Information gets lost, slow response time, no structured approach.
- **Comparison with Other Apps:** Unlike general lost & found apps, this is **campus-specific** with university administration involvement for credibility.

8. Our Contribution

🔗 **Campus-Specific Features** – Unlike generic lost & found apps, this is designed for university needs.

🔗 **Verified Posts** – University staff can moderate reports to ensure authenticity.

🔗 **AI-Based Matching System (Future Upgrade)** – Uses image recognition to suggest matches between lost & found items.

🔗 **In-App Chat System** – Ensures privacy while allowing communication between users.

🔗 **Gamification & Incentives** – Reward system for users who return found items.