

Lostify

Discover. Connect. Reclaim

Lostify is a Lost & Found app designed for IITK community.

Our light blue and white theme reflects clarity and trust.

Here is the link to our GitHub repository :

[CS253 Group 6](#)



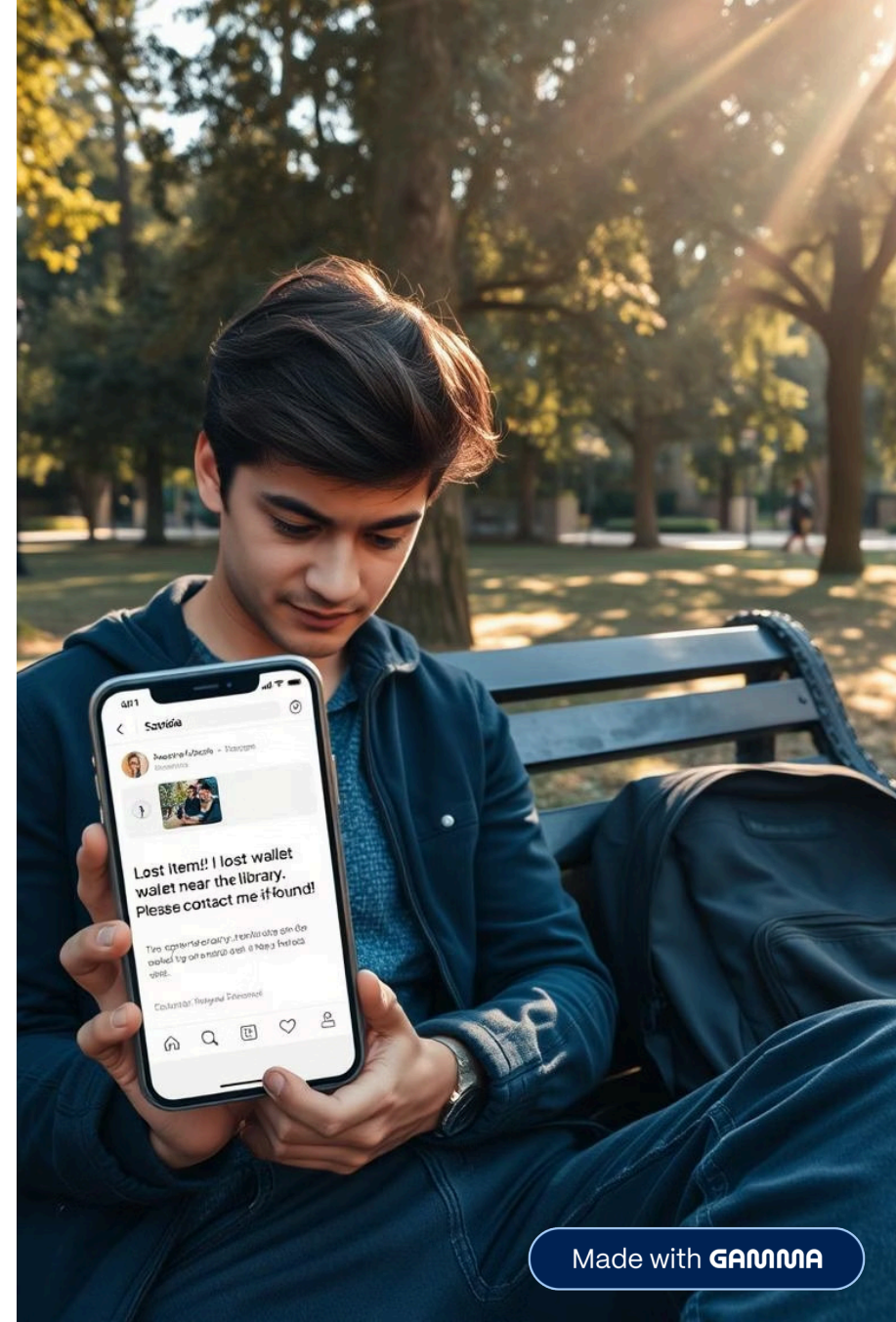
Introduction: The Problem & Our Solution

Current Challenges

- High volume of lost items, hassle of DMing admins of every group and no assurance of timely post or just post.
- Inefficient recovery processes, no proper awareness of missing items gets spread, making it difficult to talk about misplaced items

Our Solution

- Centralized, easy-to-use app
- Simplifies item recovery



Tech Stack: Behind the Scenes

Frontend

Our app used Flutter for cross-platform UI with smooth performance

- **Cross-Platform Development:** Flutter allows building apps for Android, iOS, web, and desktop from a single codebase, saving time and effort.
- **Rich UI and Performance:** Offers customizable widgets and near-native performance using the Dart language and Skia engine.
- **Fast Development Cycle:** Hot reload and a strong ecosystem make it ideal for rapid prototyping and iteration.

Backend

For the backend we had implemented Flask framework to manage APIs and server logic efficiently

1. **Lightweight and Flexible:** Flask is a micro-framework, making it perfect for small to medium-scale apps with simple APIs.
2. **Easy to Integrate:** Seamlessly handles RESTful APIs, and works well with Python libraries for tasks like data processing or machine learning.
3. **Quick to Set Up:** Minimal boilerplate and excellent documentation enable fast backend development and deployment.

Database

SQLite3 was used for database management system.

- **Serverless and Lightweight:** Ideal for local storage in mobile apps, with no need for a separate server or setup.
- **Sufficient for Small-Scale Apps:** Handles moderate data loads well, perfect for apps with limited or local-only storage needs.
- **Easy Integration:** Flutter and Flask can both interface with SQLite easily via packages or Python libraries.

Design & User Experience



Visual Calmness

Blue & white colors promote trust and calmness



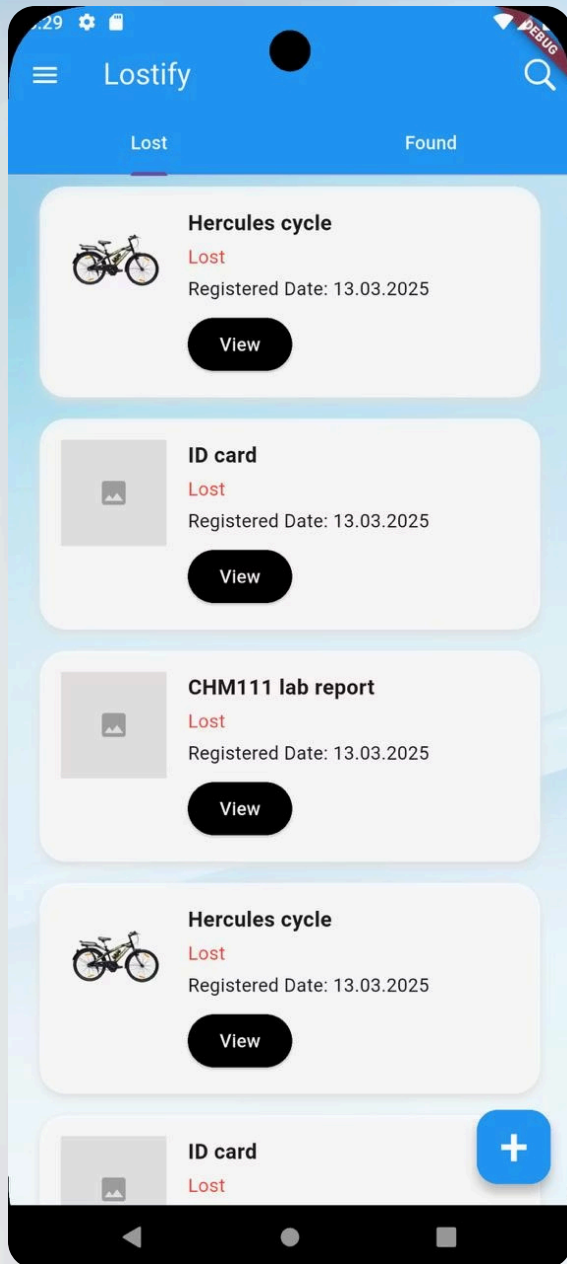
Mobile-first Design

Optimized navigation for campus users on the go



Accessibility

Careful font sizes and contrast for readability



Lostify: App Features & Walkthrough



User-friendly Interface

Light blue and white design enhances usability



Reporting Lost and Found Items

Step-by-step guided process



Claiming Found Items

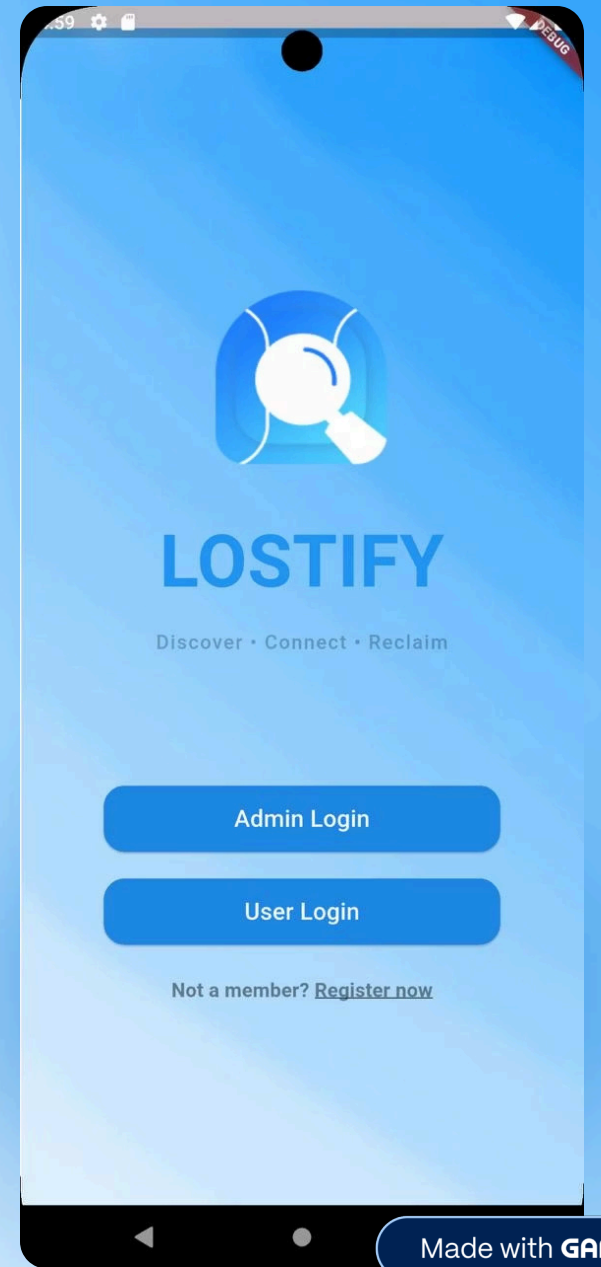
Secure verification for rightful ownership



Integrated Communication

Safe coordination between users inside the app through seamless chat features.

Demo



Future Development: Version 2.0



Google Maps API integration

Live Item Location Pinning, Real-Time Directions to Found Items



Community engagement and partnerships

Extend to other institutions, Gamification and Rewards



AI-powered image and text recognition

Image Matching , OCR (Optical Character Recognition) , Categorisation



Priority Recognition

Urgency Detection (Items like passports or wallets)



Porting to iOS

Future Expansion to iOS ,Uniform UI/UX Across Platforms , Apple Maps Alternative for iOS

Future Development: Expansion



Security Partnership

Collaborate with campus security for item collection



Reward Program

Incentivize users to report and recover items



University Expansion

Deploy Lostify at other campuses nationwide

Lessons Learned

Team Work

A strong sense of collaboration and mutual support boosted our performance and morale.

Plan-Driven Process

Sticking to a structured plan kept us organized, but some flexibility would've helped us adapt faster.

Version Control and Collaboration

Using Git effectively taught us how to manage codebases and work as a distributed team.

Coordination

Clear roles and consistent communication kept the team aligned and efficient.

Time Management

Balancing course deadlines with development tasks improved our ability to prioritize and stay focused.



Thank You!!

Acknowledgements

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Our Team Name: *hAPPy Developers*

Team Members: Aayush Kumar, Aman Raj, Ayush Patel,
Anirudh Cherichanaseri Bijay, Krishna Kumayu, Satwik Raj Wadhwa,
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