Lost & Found App- Presentation

1. Application Overview

The **Lost & Found** application helps users report lost and found items. The app provides a structured workflow for adding, viewing, and managing lost and found items using Firebase as a backend.

2. Workflow

Lost Item Process

1. User navigates to "Lost Items" screen.

2. User clicks on "Add Lost Item".

3. User provides details (title, description, contact info, image (optional)).

4. Item gets stored in Firebase under lost_items.

5. The item appears in the "Lost Items" list.

Found Item Process

1. User navigates to "Found Items" screen.

2. User selects a lost item that was found.

3. The item is moved from lost_items to found_items in Firebase.

4. The item is removed from "Lost Items" and now appears under "Found Items".

3. Features & Concepts Used

1. Navigation & Routing

- Uses Navigator.push() and MaterialPageRoute to navigate between screens.

2. Events & UI Interaction

- ElevatedButton and onPressed handlers for user interaction.

- Forms for adding lost and found items.

3. Firebase Integration

- Uses cloud_firestore for database storage.

- Uses firebase_storage for optional image uploads.

4. Localization (Multi-language Support)

- Implements localization via flutter_localizations and intl package.

- The language_controller.dart manages language selection.

5. Layout & UI Design

- Scaffold for main screen structure.

- ListView.builder for displaying dynamic lists.

- TextField for user input.

4. Database Structure (Firestore)

Lost Items Collection (lost_items)

Field	Type
title	String
description	String
contact_info	String
image_url	String (optional)

Found Items Collection (found_items)

(Same structure as lost_items, but only items marked as found are stored here.)

5. Summary

This application streamlines the process of reporting and managing lost & found items while integrating Firebase for real-time updates and localization for multi-language support.