Opportunity | Innovation | Impact

Team 6 - Project - Retrieve

Group Practicum

September 30th, 2025

Our Team

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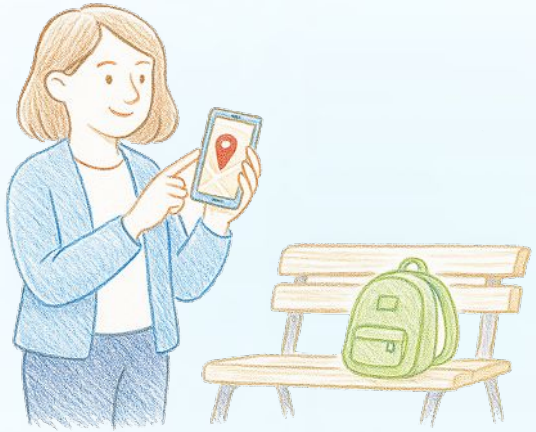


Lost or Found Something?

↓

USE RETRIEVE

Project Overview

Problem

People lose items in coworking spaces, campuses, libraries, cafés, etc.

Flyers, social media, and chats are scattered & ineffective.

Loss = stress + low chance of recovery.

✅ Solution: Retrieve app

A user can post a lost/found item with a photo, description, and pin on the map.

Others can mark “seen it” or send a message to the owner.

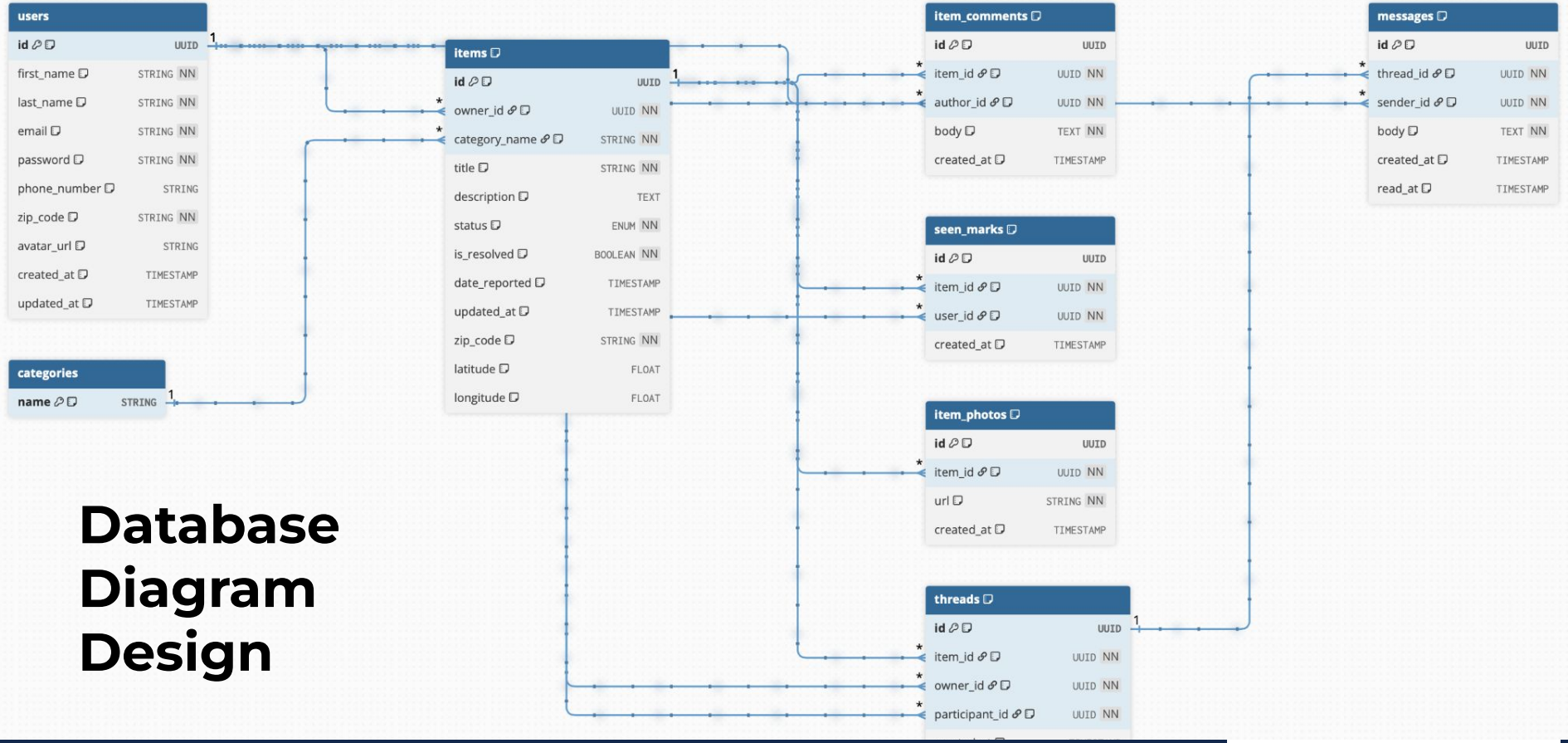
Everything is gathered in one place — simple, fast, and efficient.

Main Goal

A simple, safe, community-driven platform to quickly report, find, and recover lost items in public spaces.

Core Features (MVP)

- **Auth & Security** – JWT sessions, secure ownership of posts
- **Item Posts** – photo, description, map pin
- **Seen It** – quick mark to notify the owner
- **Comments & Messages** – communication around items
- **Map Integration** – browse by location (Leaflet + Zippopotam.us API)
- **Radius Filter** – use current location and adjust a slider to show items within a chosen radius
- **Responsive Design** – mobile-first, clean UI



Database Diagram Design

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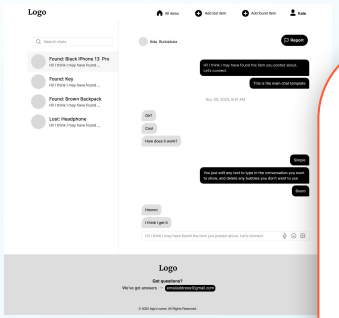
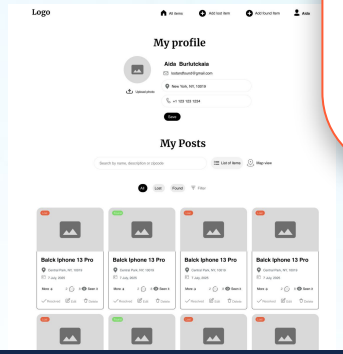
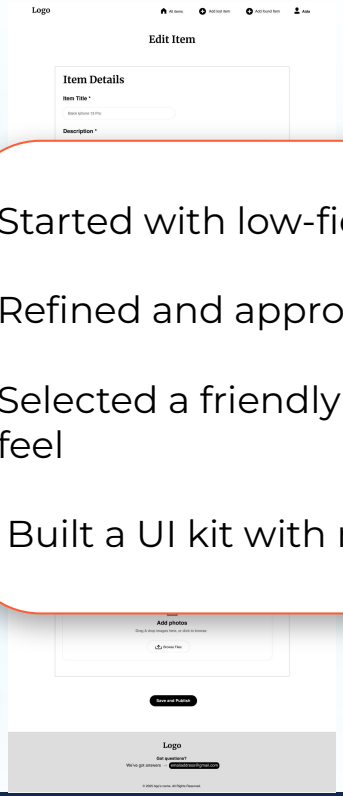
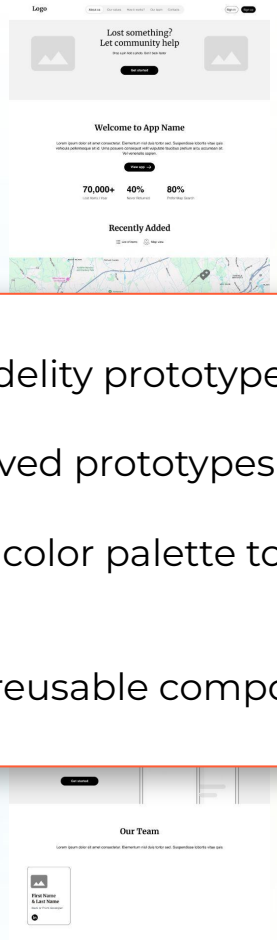
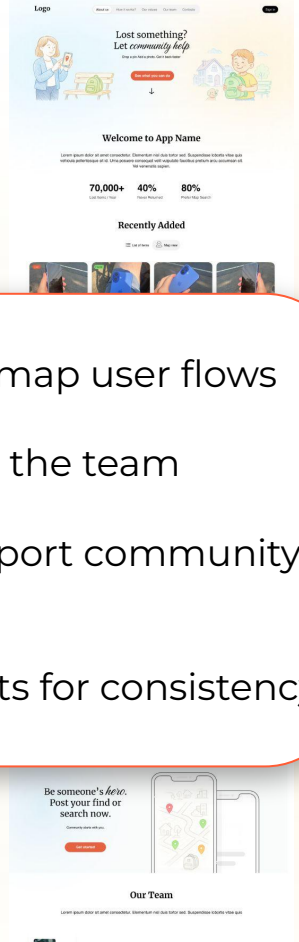
From Sketches to System

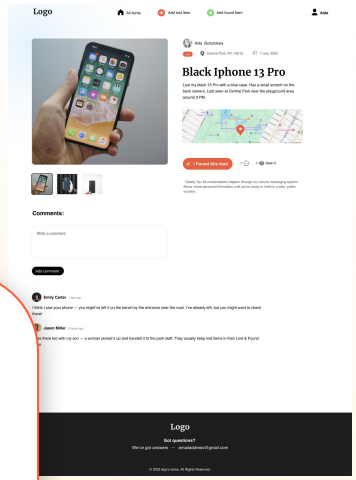


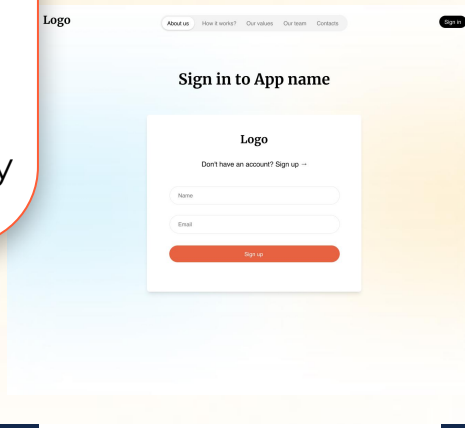












Started with low-fidelity prototypes to map user flows

Refined and approved prototypes with the team

Selected a friendly color palette to support community feel

Built a UI kit with reusable components for consistency

Tech Stack

Backend

node.js express

PostgreSQL

NEON

Cloudinary

JWT

Prisma

Render

POSTMAN

Zippopotam.us API

Frontend

DAY.JS

AXIOS

Figma

Communication

GitHub

slack

Jira

slido

Google Docs

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Challenges

Task Planning & Ticketing
Formulated backend requirements, broke them down into clear tasks, and created Jira tickets to guide the workflow.

New Tools & Technologies
Learning and adopting new tools (Prisma, Cloudinary, Zod) while integrating them into the workflow.

Backend Architecture
Getting the schema right to support every feature.

Backend Integration
Connecting the frontend to new backend endpoints (auth, profile, items, messages) and adjusting UI to consume API responses.

Next Steps

Admin & User Reports — introduce admin role with tooling to review, flag, and action user reports.

Seen Marks → Contact Flow — on hover/click, show the list of users who marked “Seen it” and let the owner start a message thread with any of them.

User Ratings — enable community ratings to build trust and reputation

Push & Email Notifications — automatic alerts for new messages, comments, or matching items.

Thank you!

This practicum gave us not only new skills, but also real teamwork experience and the chance to contribute to something meaningful.

We truly appreciate the opportunity
and support from the **Code The Dream!**

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QUESTIONS ?