

Infosys SpringBoard 6.0

An Internship In

“JAVA-Full Stack Development”

Internship carried out on

CampusTrack Intelligent Lost and Found Locator

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PART 01

Introduction

The Lost and Found Problem

01

Campus Challenges

Vast campus environments exacerbate lost item issues; traditional systems lack organization, leading to low recovery rates.

02

Current Inefficiencies

Existing methods, such as manual logs and bulletin boards, are fragmented and fail to provide a centralized solution.

Our Mission: CampusTrack

Centralized Ecosystem

Creating an automated, digital platform to efficiently report and find lost items.

Target Audience

Serving students, faculty, and campus administration to streamline the lost and found process.





PART 02

Project Overview

Objectives & Key Features

Automating the matching process with intelligent algorithms to reduce manual effort.

AI-Powered Automation

Ensuring a safe and reliable process for item claiming and handover.

Secure Verification

Centralized Reporting System

Consolidating all lost and found reports into a single, accessible database.

Real-Time Notifications

Providing instant updates to users when a potential match is detected.

The background features a dark, textured surface with a fine grid of small dots. Overlaid on this are several bright, glowing gold geometric shapes, including a large chevron pointing left and several parallel diagonal lines. The gold elements have a soft, hazy glow that fades into the dark background.

PART 03

Methodology

Technology	Purpose / Learning Outcome
Node	An JavaScript runtime environment supports MVC.
React JS	Learned component-based UI development, props & state management, routing, and API integration.
Vite	Used as a fast development build tool for React projects.
Tailwind CSS	Built consistent, customizable, and modern UI styling with utility-first classes.
SpringBoot	Used as Backend environment to run frontend on backend.
MySQL	database

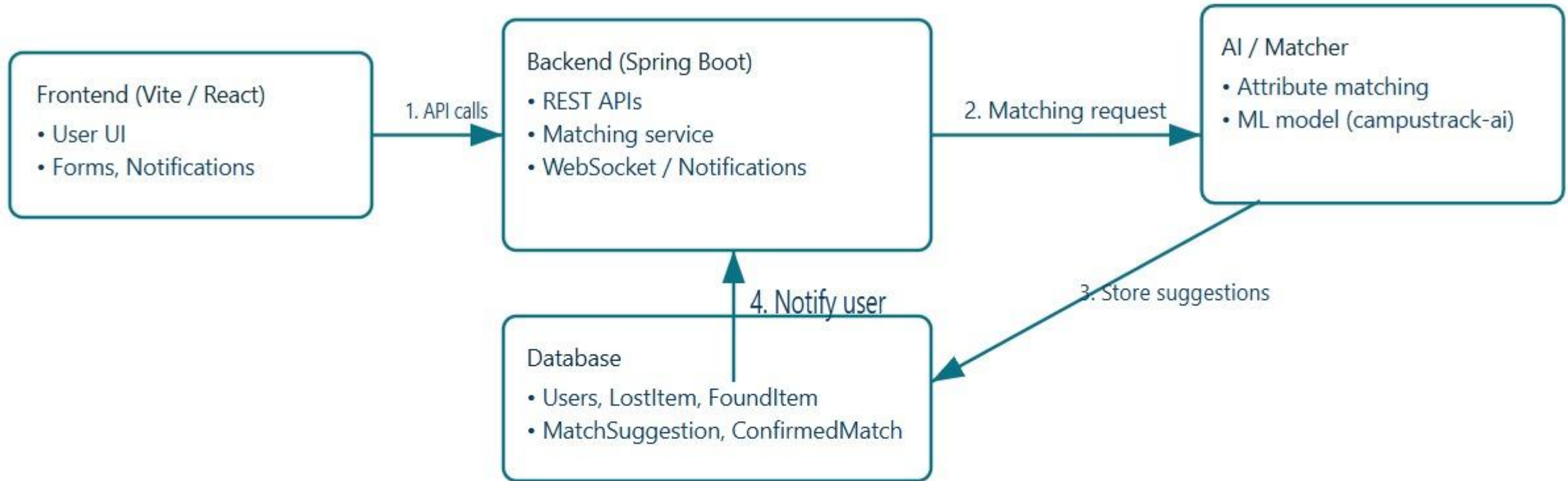
Technology	Purpose / Learning Outcome
JWT (JSON Web Token)	Implemented secure authentication and role-based access control.
Git and Github	Version Control
Agile Methodology	allowing flexible and iterative updates with Continuous Improvement
FastAPI (Backend Framework)	Python web framework used to develop RESTful APIs.
Sentence Transformers (NLP Technology)	Used to convert textual descriptions into semantic embedding vectors.
MobileNetV2 (CVModel)	MobileNetV2 is a lightweight deep learning model trained on ImageNet.



PART 04

Project Architecture

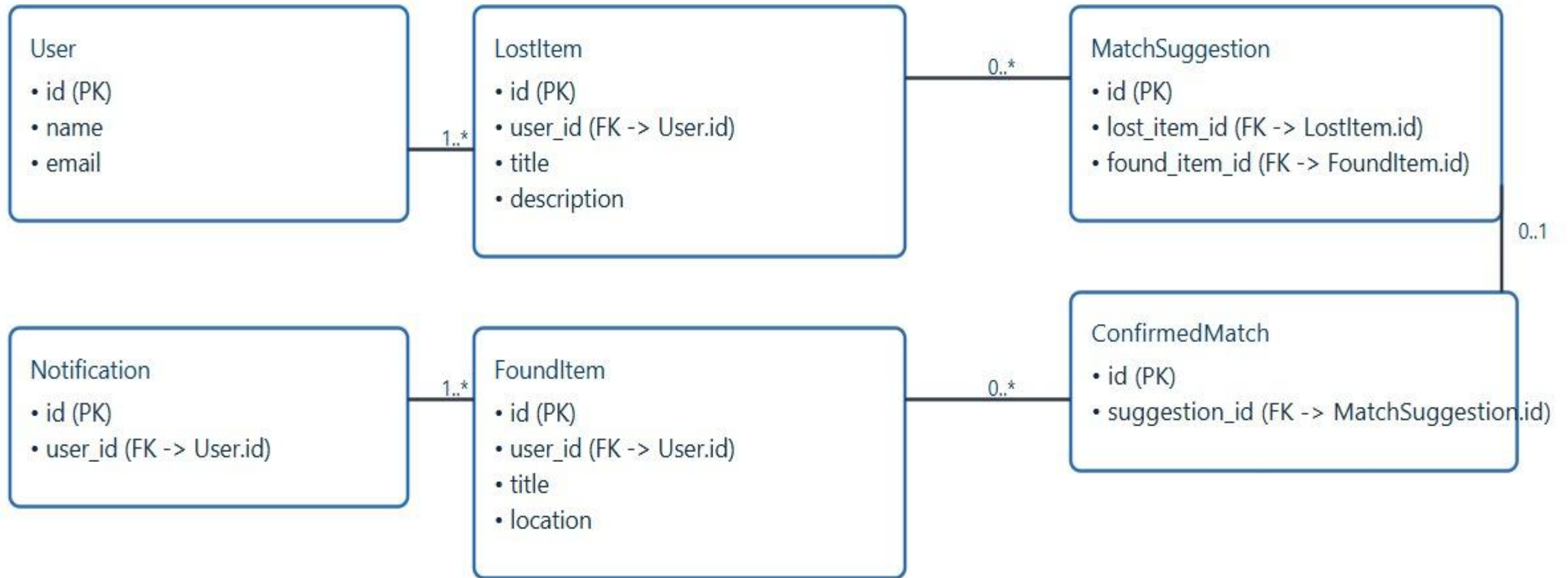
Project Flow



High-level Flow

1. User submits lost/found item via Frontend.
2. Backend persists item and calls AI Matcher.
3. Matcher returns suggestions; backend saves them.
4. Backend notifies users via WebSocket / Email.

Database/ER Model



Legend

- PK = Primary Key, FK = Foreign Key
- Cardinalities shown near the links

The background is a dark, textured surface with a fine grid of small dots. Overlaid on this are several bright, glowing gold geometric shapes. A prominent shape is a large, stylized 'Z' or 'N' formed by thick, parallel gold lines. Other thinner gold lines and smaller geometric shapes are scattered across the upper left and center, creating a sense of depth and movement.

PART 05

Visual Showcase

Welcome to CampusTrack

Find matched reports quickly and stay connected with people who found your items.

- Report lost or found items in seconds
- Receive confirmed match notifications
- Archive and track recovered items
- Ai Driven Match Suggestions

Admin Sign Up

User ☒ Admin

Sign Up

[Already have an account? Login](#)

Welcome to CampusTrack

Find matched reports quickly and stay connected with people who found your items.

- Report lost or found items in seconds
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- Archive and track recovered items
- Ai Driven Match Suggestions

Login

Login

[New user? Sign up](#)

Admin Dashboard

CampusTrack

Manage Users

View Lost Items

View Found Items

Reported Users

Matched Items

Recovered Items

Logout

Dashboard

Collapse

Users

3

Chats

2

Blocks

0

Reported Lost

1

Found Items

0

Announcements

Notice Board

Matched

1

Recovered

1

Manage Users

Name	Email	Role	AdminId	Actions
Amar	amar@university.edu	user	-	<button>View</button> <button>Delete</button>
Vinod	vinod@university.edu	user	-	<button>View</button> <button>Delete</button>
Admin1	admin1@university.edu	admin	2UI123	<button>View</button> <button>Delete</button>

User Dashboard

CampusTrack Hi, admin1 🍌

[Dashboard](#)[Manage](#)[Report Lost](#)[Report Found](#)[View Items](#)[Matches](#)[Notifications](#)[Chat](#)[Logout](#)

My Dashboard

[Refresh](#)

Lost Items

0

Items you reported lost

Found Items

0

Items reported found on campus

Matched

0

Overall matched items

Recovered

1

Overall recovered items

Last updated: 12/23/2025, 5:44:47 PM

Announcements

The web

12/19/2025, 8:06:3



Report Lost Item

Optional

Optional

0/500

Lost Date & Time



Report Found Item

Optional

Optional

0/500

Found Date & Time



Conversations

V

vinod@university.edu

hello

38

Chat —

V

vinod@university.edu

vinod@university.edu

Live

Report / Block

Close

vinod@university.edu

V

hi

A

hello

Type a message...

Send

Email instead

AI Matcher

Attribute-based Matches

Select a lost item

Mobile · iphone

No Image

Mobile

iphone · 14

Hotel

74.0%

All Reported Lost Items

Filters

From

dd-mm-yyyy

To

dd-mm-yyyy


Location

e.g. Library

Category (Brand)

All

Clear



Mobile

Brand: iphone

Model No: 14

Location: campus

Lost On: 2/2/2025, 2:02:00 AM

About: silver

Notification

Confirmed Matches

Your lost item 'Mobile' was found by Admin1.

12/23/2025, 5:55:20 PM

Found by: Admin1 (Contact: admin1@university.edu)

Mark as read

Received

Github link

<https://github.com/vivek8085/CampusTrack-Intelligent-Lost-and-Found-Locator-Group.git>

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PART 06

Future Scope

Geofencing Integration

Location Specificity

Using Google Maps to show the exact area where items were lost or found, increasing accuracy.

Enhanced Search

Allowing users to specify a location radius for their searches.

Blockchain Verification

01

Immutable Record

Implementing a decentralized ledger to track the "Chain of Custody" for valuable items.

02

Increased Security

Ensuring the authenticity and ownership of high-value items.

Chatbot Integration



Conversational Reporting

An AI chatbot assists users in reporting items via voice or quick text.

Enhanced Accessibility

Making the platform more accessible to a wider audience.

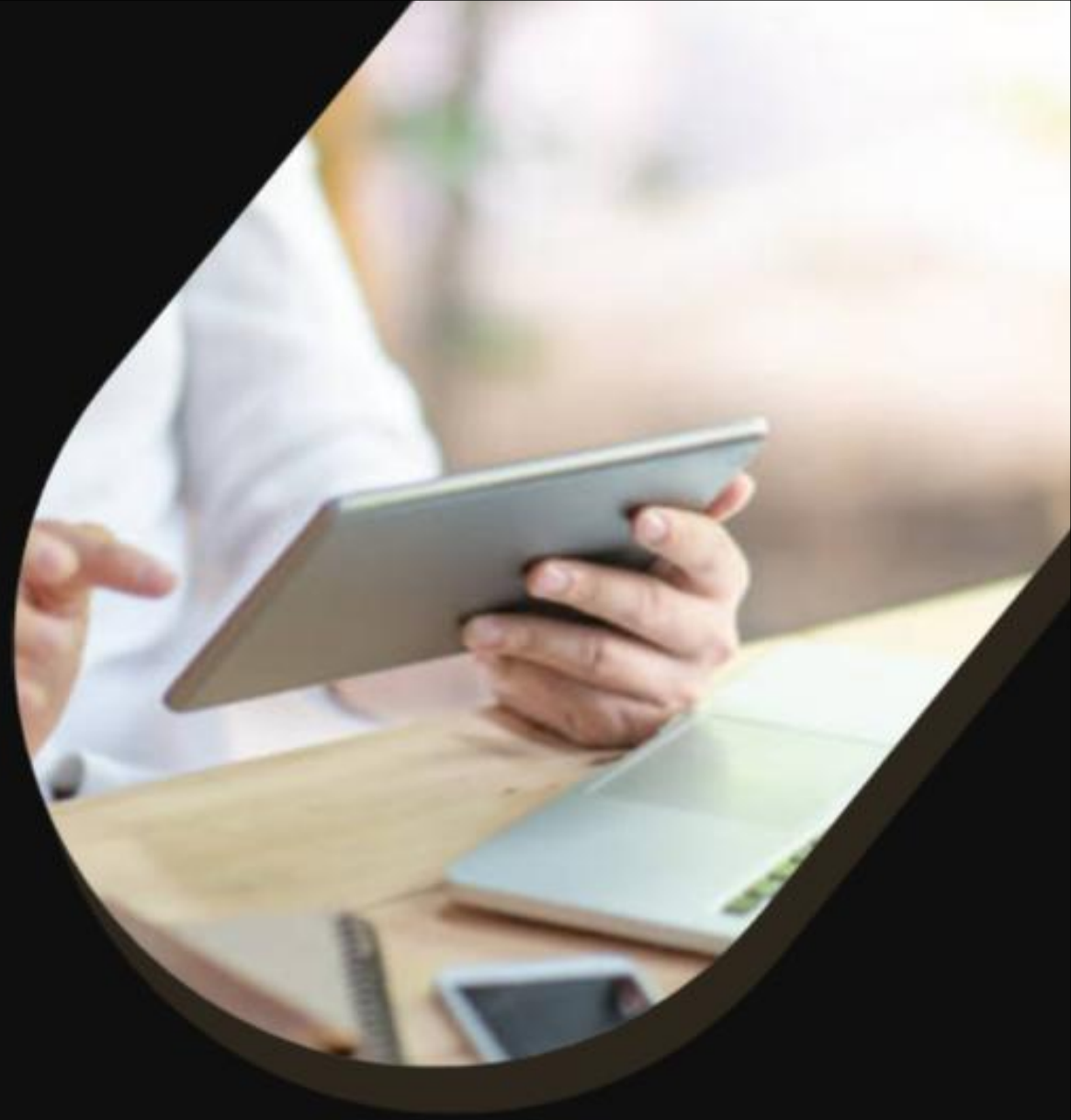
Mobile App Expansion

Push Notifications

Launching Android and iOS versions for instant push notifications.

Increased Engagement

Improving user engagement and convenience through mobile access.





PART 07

Conclusion

Conclusion

Connected Campus

CampusTrack makes campuses more connected and responsible.

01

Mission Driven

“Making campuses more connected and responsible, one found item at a time.”

02

Open and Secure Discussion

Discuss/chat with other people.

03



Thank you