

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.



The background features a dark gray or black surface with a subtle halftone dot pattern. Overlaid on this are several thick, diagonal bands in a metallic gold color. One band runs from the top-left towards the bottom-right, while another runs from the middle-left towards the top-right. A third band is positioned horizontally across the middle. The lighting on these gold bands creates a strong sense of depth and motion.

PART 02

Project Overview

Objectives & Key Features

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

Centralized Reporting System

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

AI-Powered Automation

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

Real-Time Notifications

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

Secure Verification



PART 03

Methodology

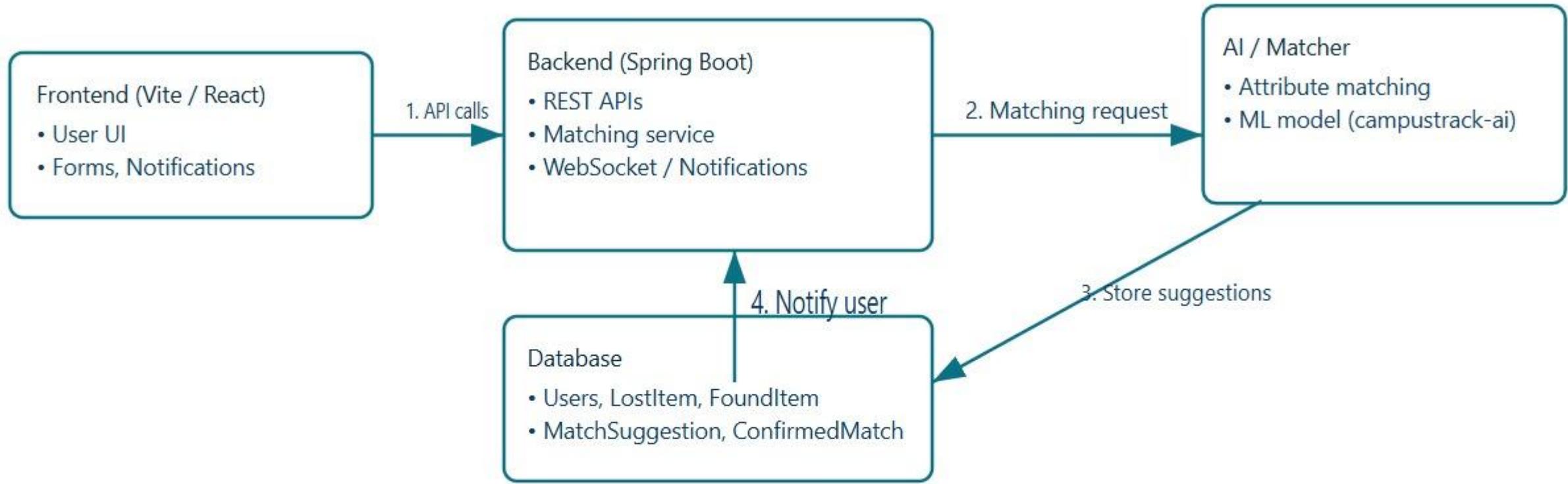
Technology	Purpose / Learning Outcome	Technology	Purpose / Learning Outcome
Node	An JavaScript runtime environment supports MVC.	JWT (JSON Web Token)	Implemented secure authentication and role-based access control.
React JS	Learned component-based UI development, props & state management, routing, and API integration.	Git and Github	Version Control
Vite	Used as a fast development build tool for React projects.	Agile Methodology	allowing flexible and iterative updates with Continuous Improvement
Tailwind CSS	Built consistent, customizable, and modern UI styling with utility-first classes.	FastAPI (Backend Framework)	Python web framework used to develop RESTful APIs.
SpringBoot	Used as Backend environment to run frontend on backend.	Sentence Transformers (NLP Technology)	Used to convert textual descriptions into semantic embedding vectors.
MySQL	database	MobileNetV2 (CVModel)	MobileNetV2 is a lightweight deep learning model trained on ImageNet.



PART 04

Project Architecture

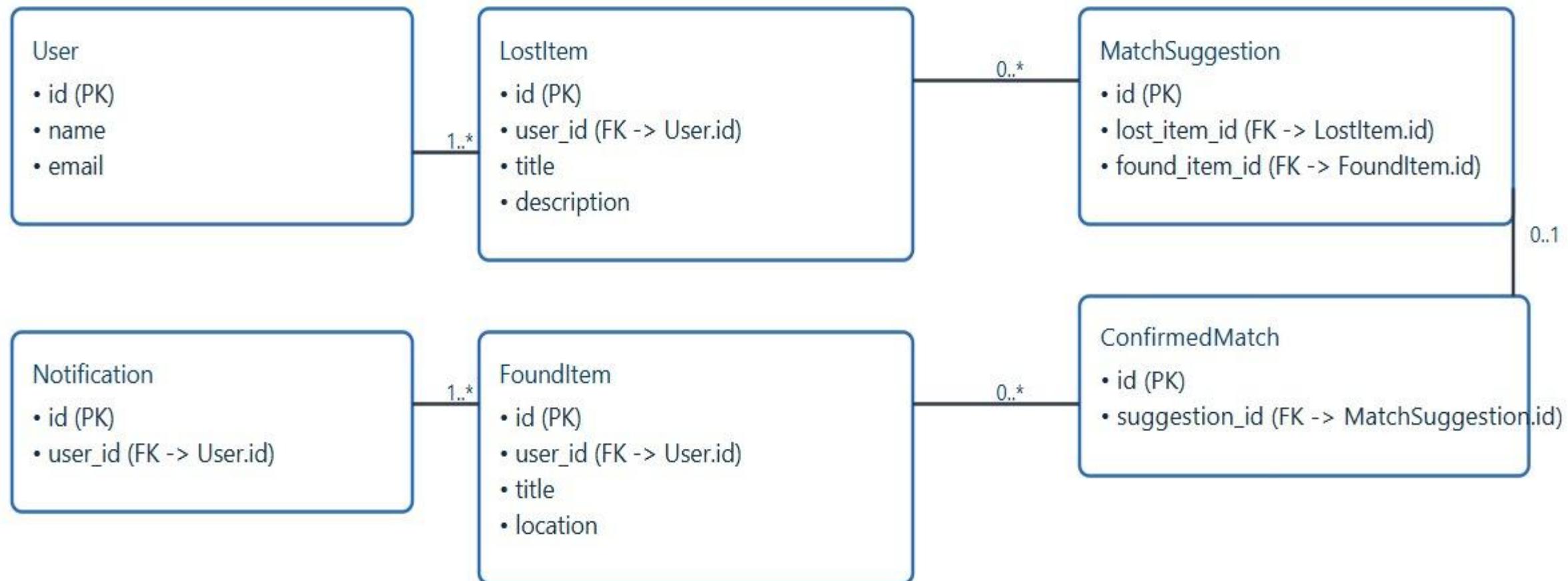
Project Flow



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



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

Full Name

Email

Password

Confirm Password

Admin ID (e.g. 2UI123)

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
- Receive confirmed match notifications
- Archive and track recovered items
- Ai Driven Match Suggestions

Login

Email

Password

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	-	View Delete
Vinod	vinod@university.edu	user	-	View Delete
Admin1	admin1@university.edu	admin	2UI123	View Delete

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

Item Name

Brand

Model No

Optional

Size / Dimensions

Optional

Lost Location

About item

0/500

Lost Date & Time

dd-mm-yyyy --::--



Your university mail

Choose File No file chosen

Reset

Submit

Report Found Item

Item Name

Brand

Model No

Optional

Size

Optional

Found Location

About item

0/500

Found Date & Time

dd-mm-yyyy --::--



Your university mail

Choose File No file chosen

Submit

Reset

Conversations

38

V vinod@university.edu
hello

Chat —

V vinod@university.edu Live Report / Block Close

vinod@university.edu

V hi

A hello

Type a message... Send Email instead

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

AI Matcher

Attribute-based Matches

Select a lost item

Mobile · iphone

No Image Mobile
iphone · 14
Hotel 74.0%

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>



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.

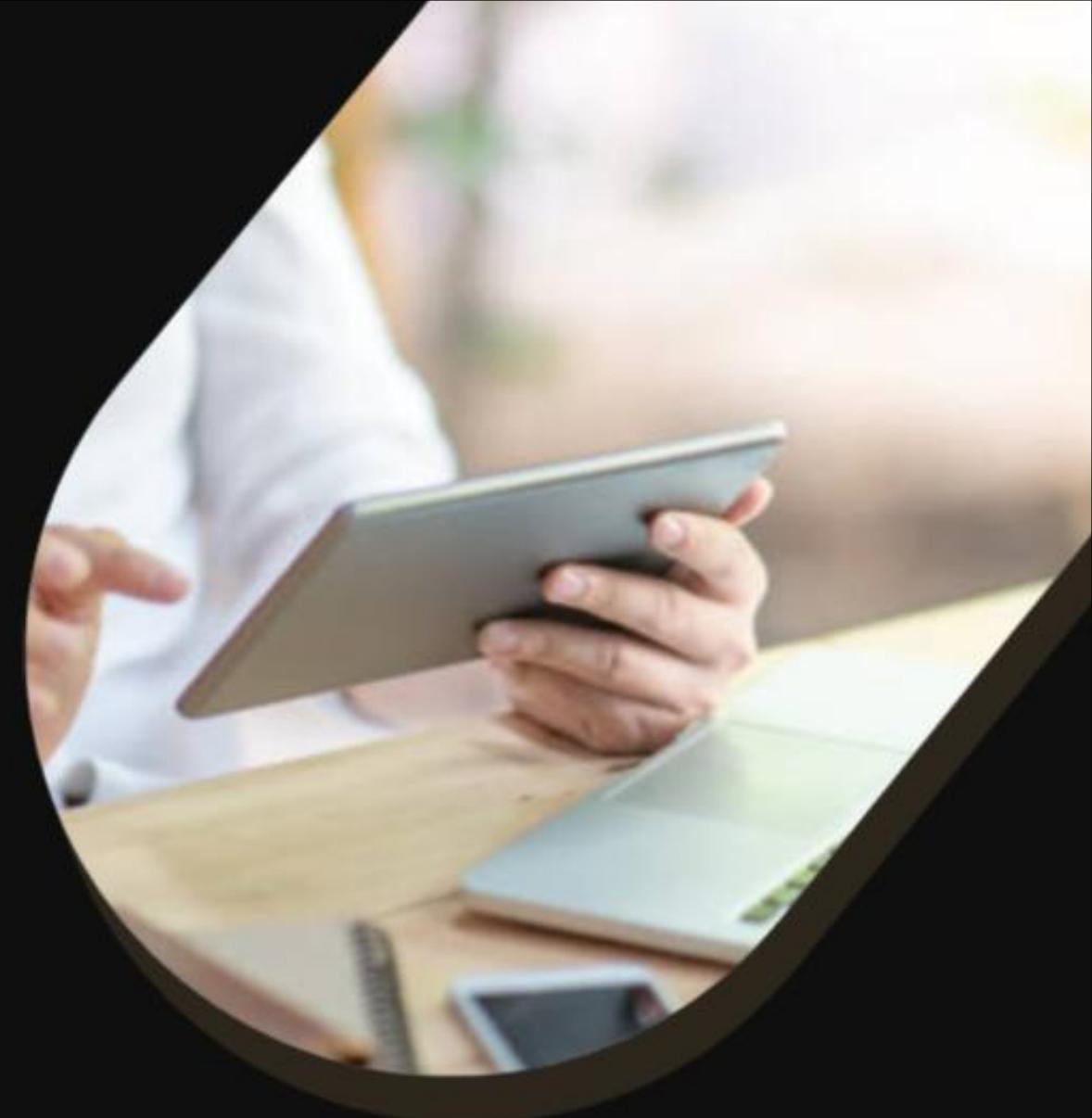
Enhanced Accessibility

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.

The background features a dark gray or black surface with a subtle halftone dot pattern. Overlaid on this are several thick, glowing gold-colored lines and arrows. One prominent arrow points diagonally upwards from the bottom left towards the center. Another arrow points diagonally upwards from the top left towards the center. There are also some thin, straight gold lines.

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