

# Campus Lost and Found Portal

Infosys Virtual Internship 6.0

Domain: Java Tech Stack

Mentor: Suramya Biswas

## Team Members

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# Addressing the Challenge: The Problem of Lost Items

## Common Occurrence

Losing personal items is a frequent frustration for students and staff across campus.

## Lack of Centralisation

There is no unified or central system for tracking and reporting lost or found items.

## Inefficient Processes

Existing, informal methods are often slow, unreliable, and lead to prolonged item recovery.





# Our Solution: A Centralised Digital Portal

Introducing a Unified Platform

## Campus-Restricted Web Portal

A dedicated online platform accessible exclusively to university members.

## Secure Communication

Integrated messaging facilitates direct and private communication between users.

## Simplified Posting

Users can easily post details of lost or found items, including descriptions.



## Admin Moderation

Administrators oversee content, ensuring platform integrity and user safety.



# Core Functionalities and Innovations

## Introducing a Unified Platform



### User Authentication



### Admin Dashboard



### In-App Messaging

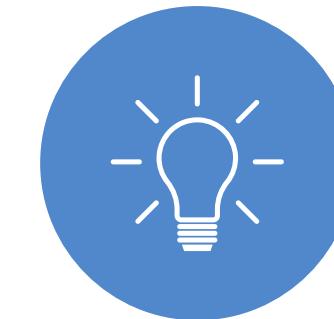
Handles user registration, login, and distinguishes between student and administrator privileges.

Comprehensive controls for monitoring, managing, and analysing portal activity.

Enables real-time, secure messaging between users regarding potential matches.



### Auto-Matching & Smart Search



### Item Posting with Description

Intelligent algorithms to suggest potential matches for lost items.

Detailed listings for lost and found items, enhanced with identification.



# Robust Technology Stack



## Backend: Java, Spring Boot

Provides a powerful and scalable foundation for server-side logic and API development.

## Data Access: JPA Repository

Simplifies database operations and provides efficient object-relational mapping for data persistence

## Database: MySQL

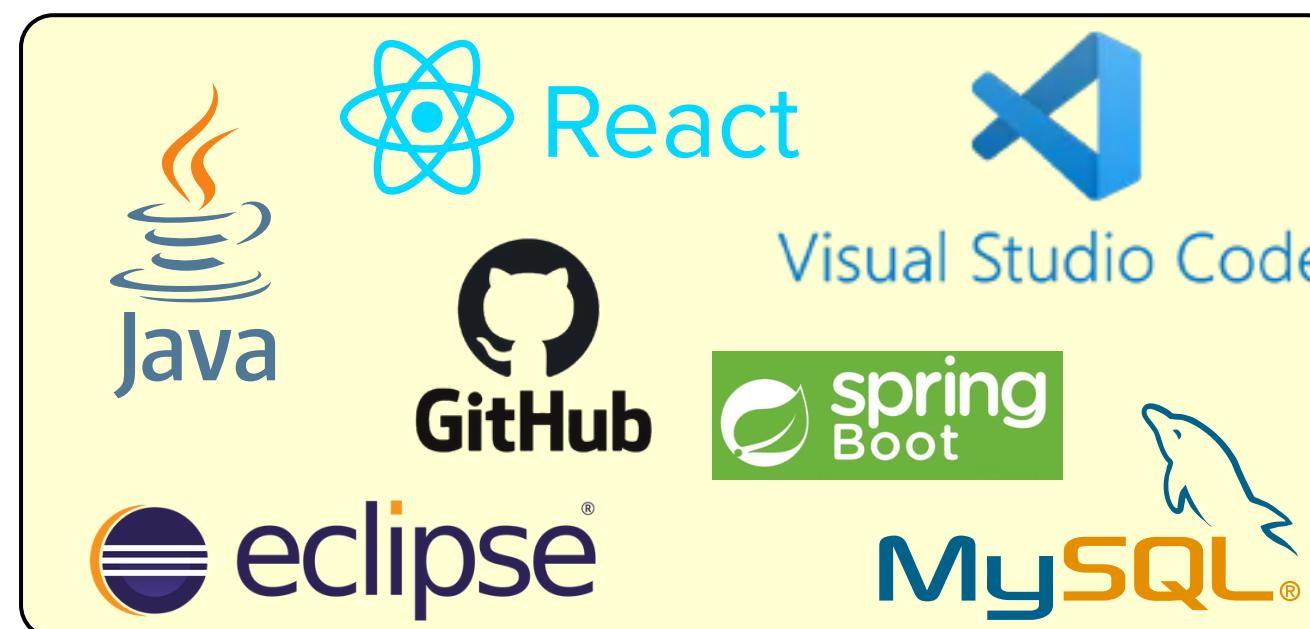
A reliable relational database for efficient storage and retrieval of all portal data.

## Frontend: ReactJS

Delivers a dynamic, responsive, and intuitive user interface for an optimal user experience.

## Tools: Git, VS Code, Eclipse

Essential development tools for version control, build automation, and project management





## Intuitive User Workflow

Register / Login

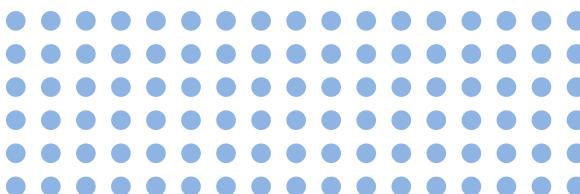


Post Lost/Found

Auto-Match Suggestions

Chat & Admin Review

The portal guides users through a clear, step-by-step process, ensuring ease of use from start to item recovery. Administrators maintain oversight for quality control.





# Database Schema at a Glance



## Users Table

- Student & Admin profiles
- Authentication credentials
- Contact information

## Items Table

- Lost/found item details
- Descriptions
- Status

## Messages Table

- Conversation threads
- Sender/receiver IDs
- Message content & time

## Reports & Logs

- User reports
- System performance data



# Benefits to Society



## Improved Campus Efficiency

- Reduces time spent by students and staff searching for lost items.
- Minimizes stress and anxiety caused by loss of personal belongings

## Increased Security & Accountability

- Ensures proper verification before returning items to owners.
- Promotes responsible behavior across the campus.

## Environmentally Friendly

- Minimizes the use of paper for notices and registers.
- Supports eco-friendly digital campus initiatives.



## Time & Cost Savings

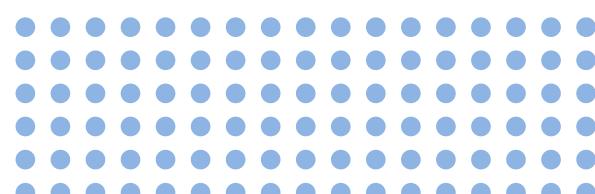
- Eliminates paper-based notices and manual registers.
- Saves time for both users and campus authorities.

## Accessible Anytime, Anywhere

- Users can report lost or found items at any time.
- No need to physically visit an office during working hours.

## Scalability & Future Scope

- Can be extended to hostels, libraries, and multiple campuses.
- Future integration with mobile apps or notification systems





# Portal Overview



Campus-Lost-and-Found-Portal | React App | Chat

localhost:3535

### Welcome back!

Tulip

.....

**LOGIN**

[Forgot password?](#)

[Don't have an account? Register here](#)

React App | React App | React App | Chat

localhost:3535/lost-entry

### Found Item Form Submission

Generated Item ID: F100002

found item Name

category

color

brand

location

Found Date: 12-01-2026

**Submit**

**Return**

React App | Chat

localhost:3535/AdminMenu

### ADMIN DASHBOARD

Manage students, lost & found items, verify reports, and monitor system analytics.

**REVIEW LOST ITEMS**

**REVIEW FOUND ITEMS**



React App | React App | Chat

localhost:3535/chat-msg

Summarize | Chat

### Online Users

Tulip

Lotus

### General Chat

Lotus

Type a message...

**Send**



# Conclusion



## Towards Simplified and Scalable Solution

Provides a centralized digital platform to manage lost and found items within a campus

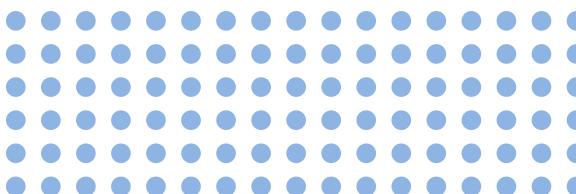
Improves campus efficiency, transparency, and accountability, Reduces time, effort, and stress involved in recovering lost belongings

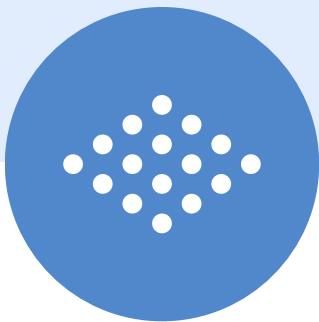


Enhances communication through in-app message broadcasting

Ensures secure access through authenticated user and admin roles. Simplifies item reporting, searching, and matching processes

By leveraging modern web technologies and a structured backend architecture, the system simplifies item reporting, enhances communication between users, and ensures administrative control for safety and authenticity.





**THANK  
YOU!**

