

# Campus Lost and Found Portal

## Infosys Virtual Internship 6.0

Domain: Java Tech Stack

Mentor: Suramya Biswas

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### Team Members

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05	Jijendhar.G



## Addressing the Challenge: The Problem of Lost Items

## Common Occurrence

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

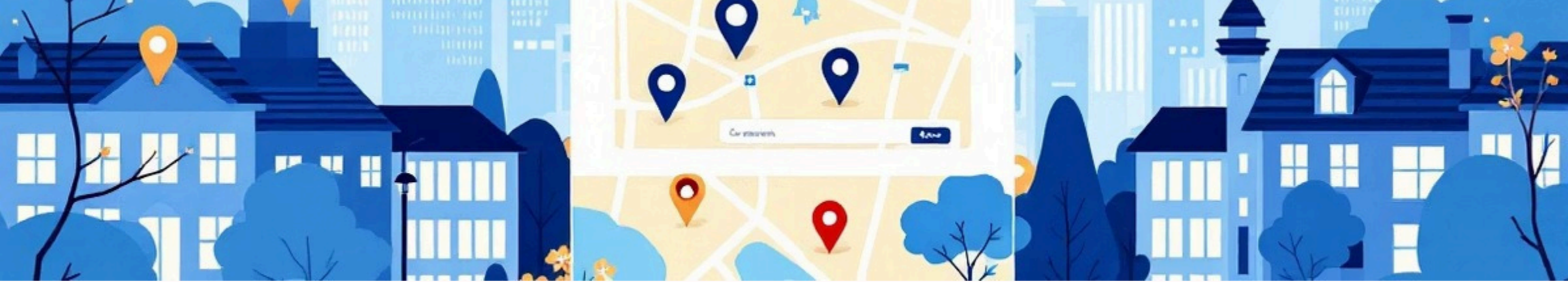
## Lack of Centralisation

**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

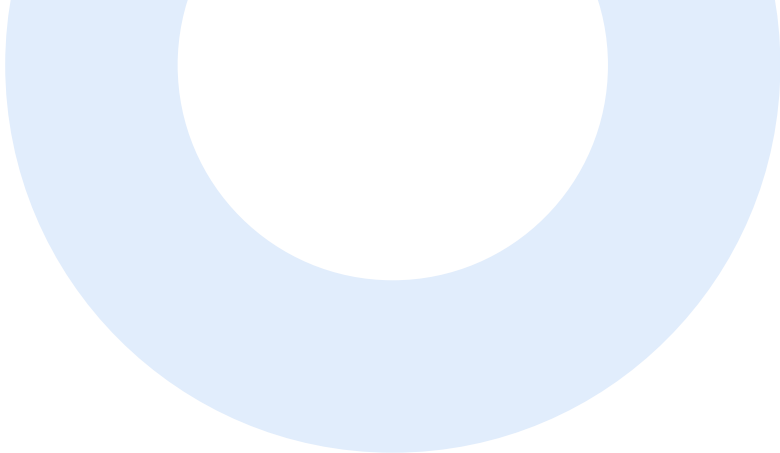
Administrators oversee content, ensuring platform integrity and user safety.





# Core Functionalities and Innovations

Introducing a Unified Platform



## User Authentication

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



## Admin Dashboard

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



## Chatting (Message Broadcasting)

Supports message broadcasting to notify and interact with multiple users about potential lost or found item matches.



## Auto-Matching & Smart Search

Intelligent algorithms to suggest potential matches for lost items.



## Item Posting with Description

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

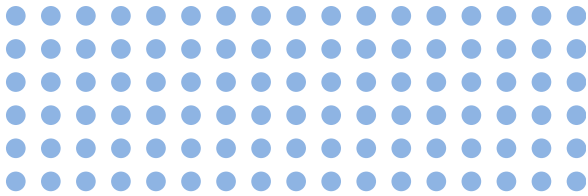
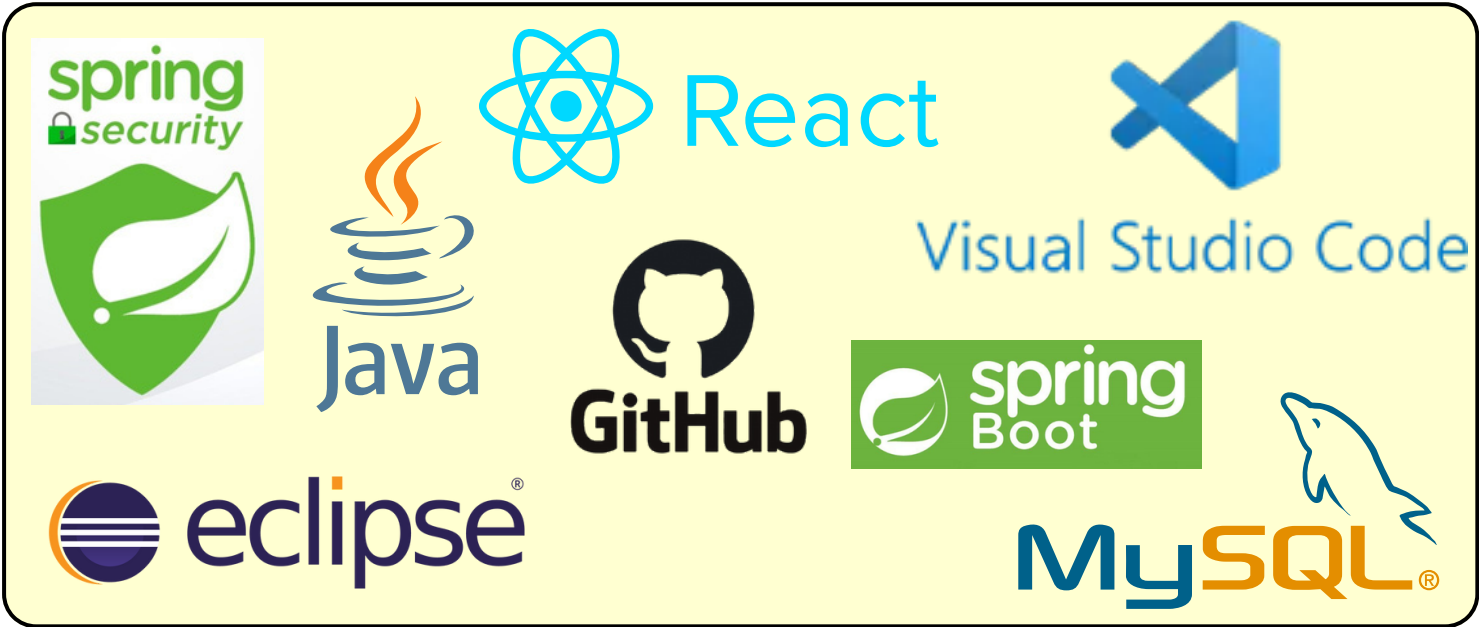
A reliable relational database for efficient storage and retrieval of all portal data.

## Frontend: HTML, CSS, ReactJS

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

## Tools: Git, VS Code, Eclipse, Spring Security

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**

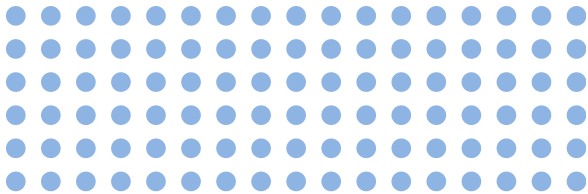
The portal guides users through a clear, step-by-step process, ensuring ease of use from start to item recovery. Administrators maintain oversight for quality control.

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Database Schema at a Glance



Users Table	Items Table	Reports & Logs
<ul style="list-style-type: none"><li>• Student &amp; Admin profiles</li><li>• Authentication credentials</li><li>• Contact information</li></ul>	<ul style="list-style-type: none"><li>• Lost/found item details</li><li>• Descriptions</li><li>• Status</li></ul>	<ul style="list-style-type: none"><li>• User reports</li><li>• System performance data</li></ul>



# **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**

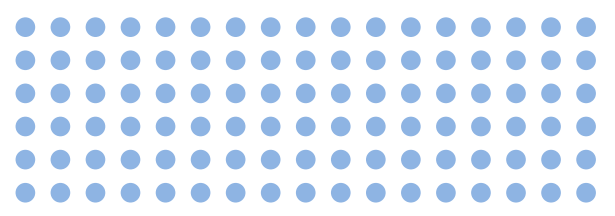
- Eliminates paper-based notices and manual registers.
- Saves time for both users and campus authorities.

## **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**

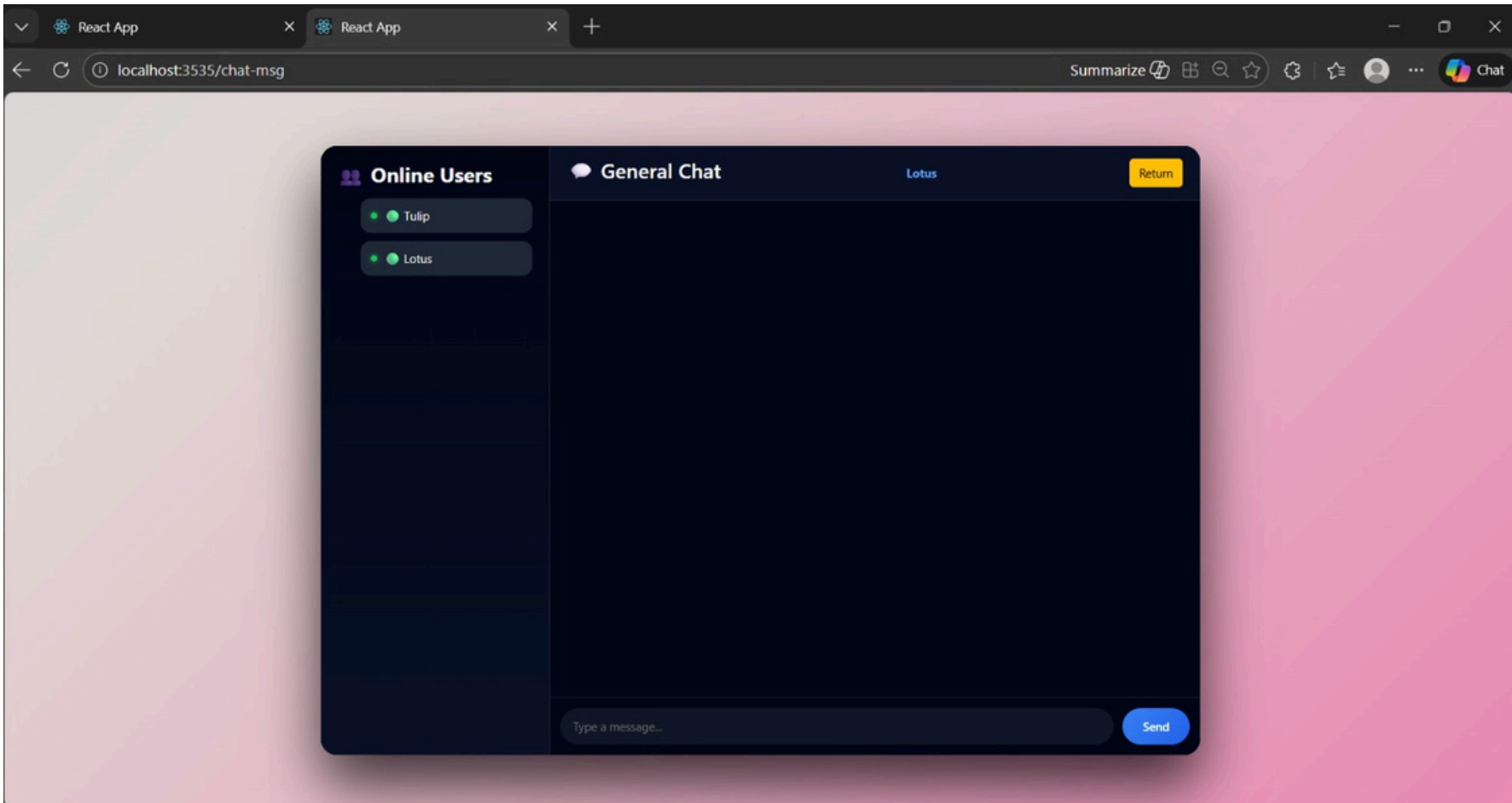
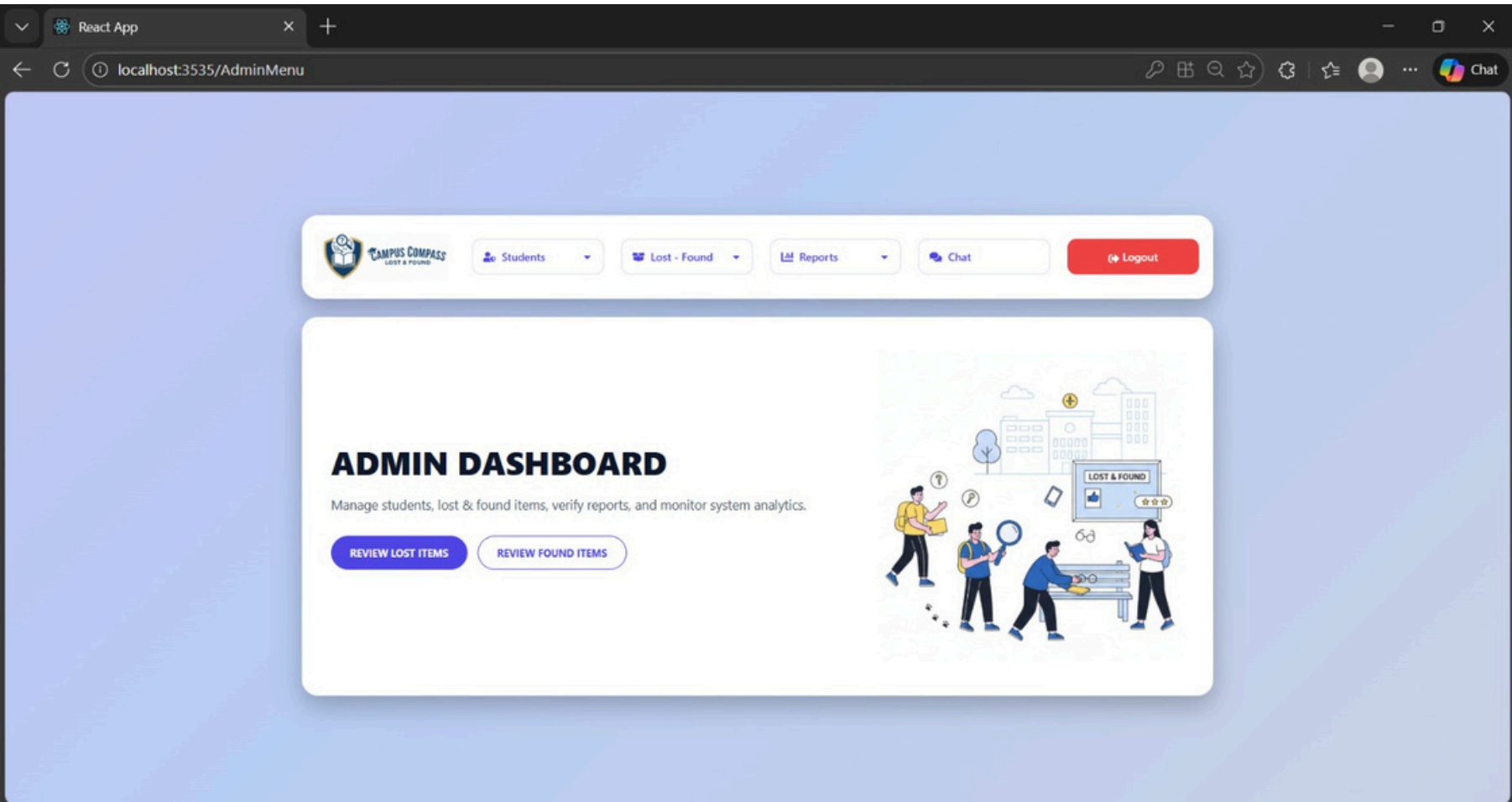
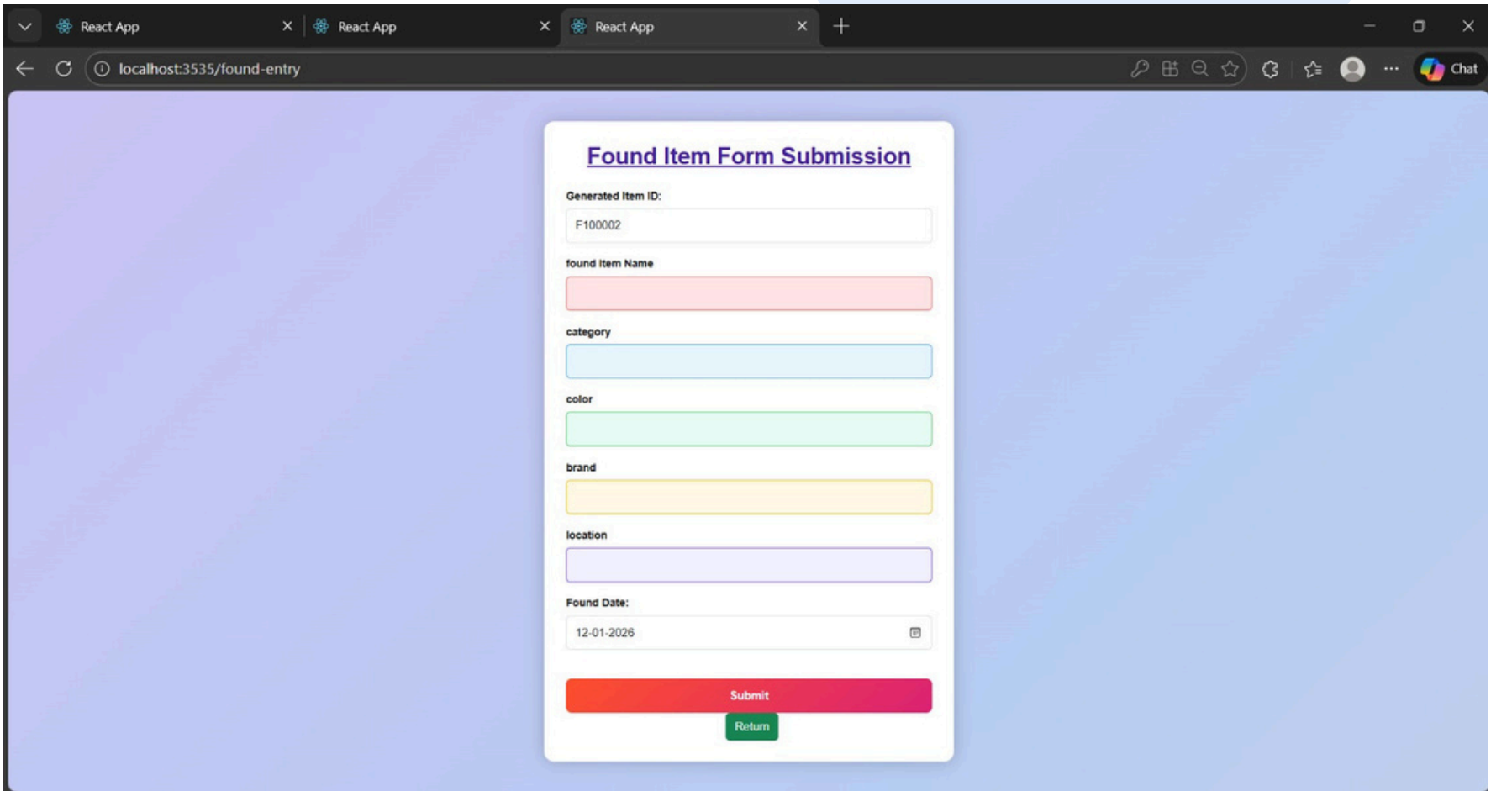
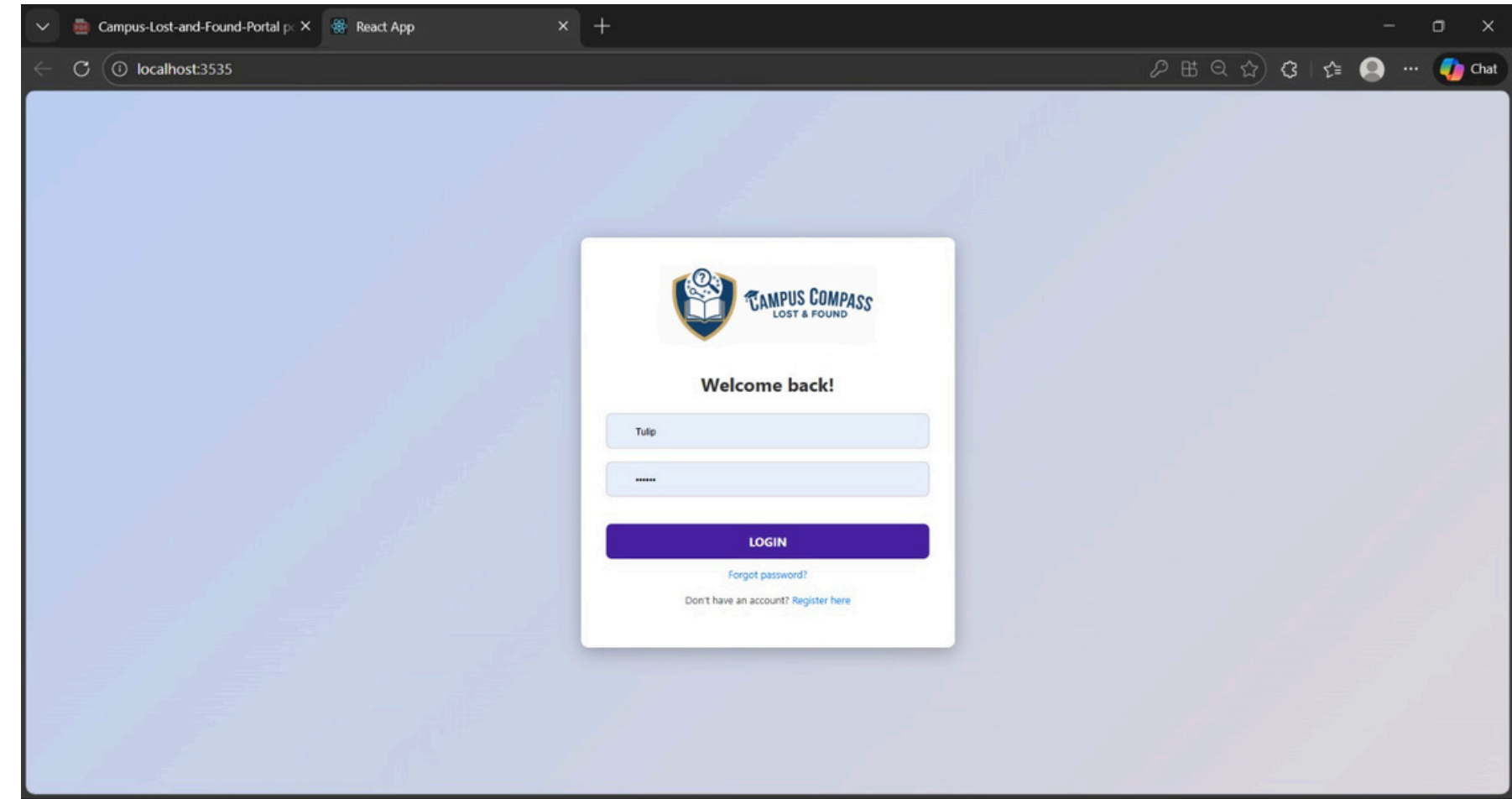
- Can be extended to hostels, libraries, and multiple campuses.
- Future integration with mobile apps or notification systems





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Portal Overview



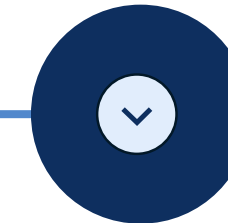
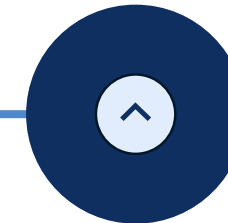
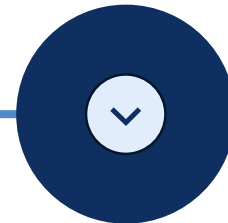
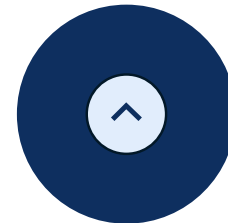
# Conclusion

**Towards Simplified and Scalable Solution**



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

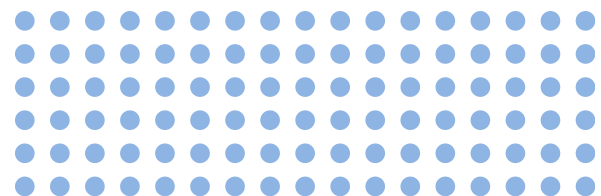
**Improves campus efficiency, transparency, and accountability, Reduces time, effort, and stress involved in recovering lost belongings**

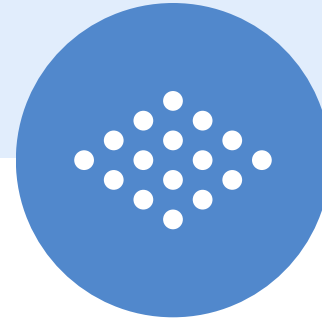


**Enhances communication through in-app message broadcasting**

**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 !**

