

Campus Lost and Found Portal

Infosys Virtual Internship 6.0

Domain: Java Tech Stack

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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.

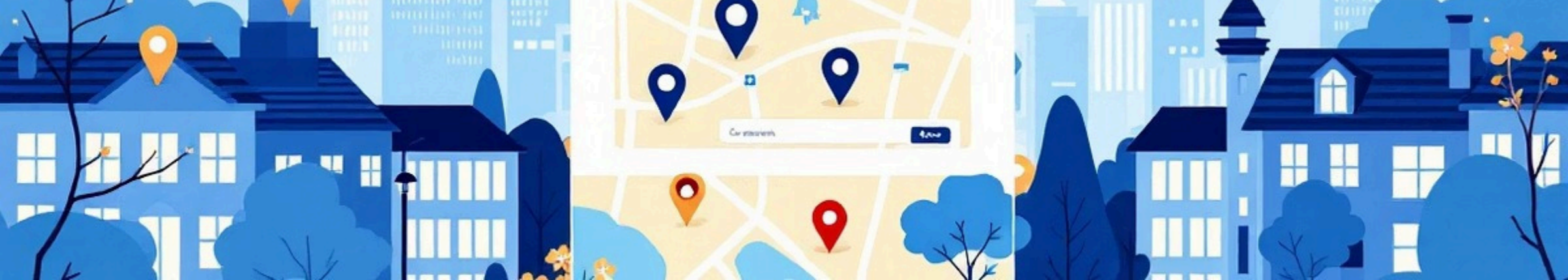
Lack of Centralisation

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

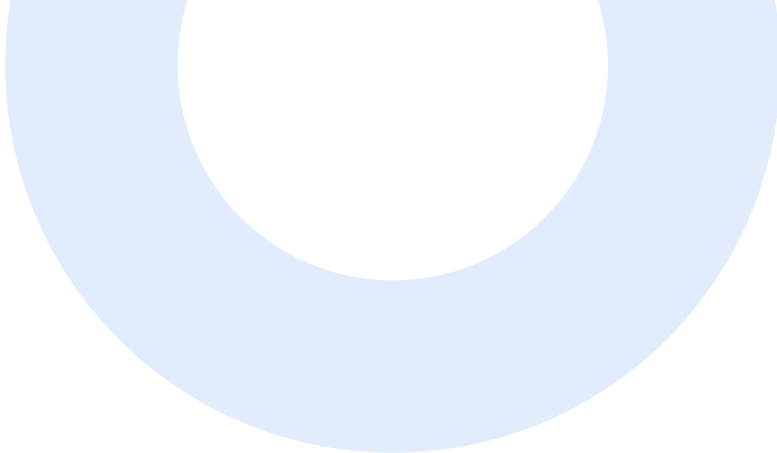
Administrators oversee content, ensuring platform integrity and user safety.





Core Functionalities and Innovations

Introducing a Unified Platform



User Authentication

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



Admin Dashboard

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



In-App Messaging

Enables real-time, secure messaging between users regarding potential 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

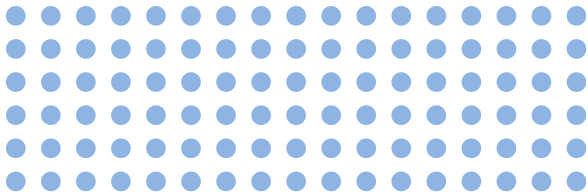
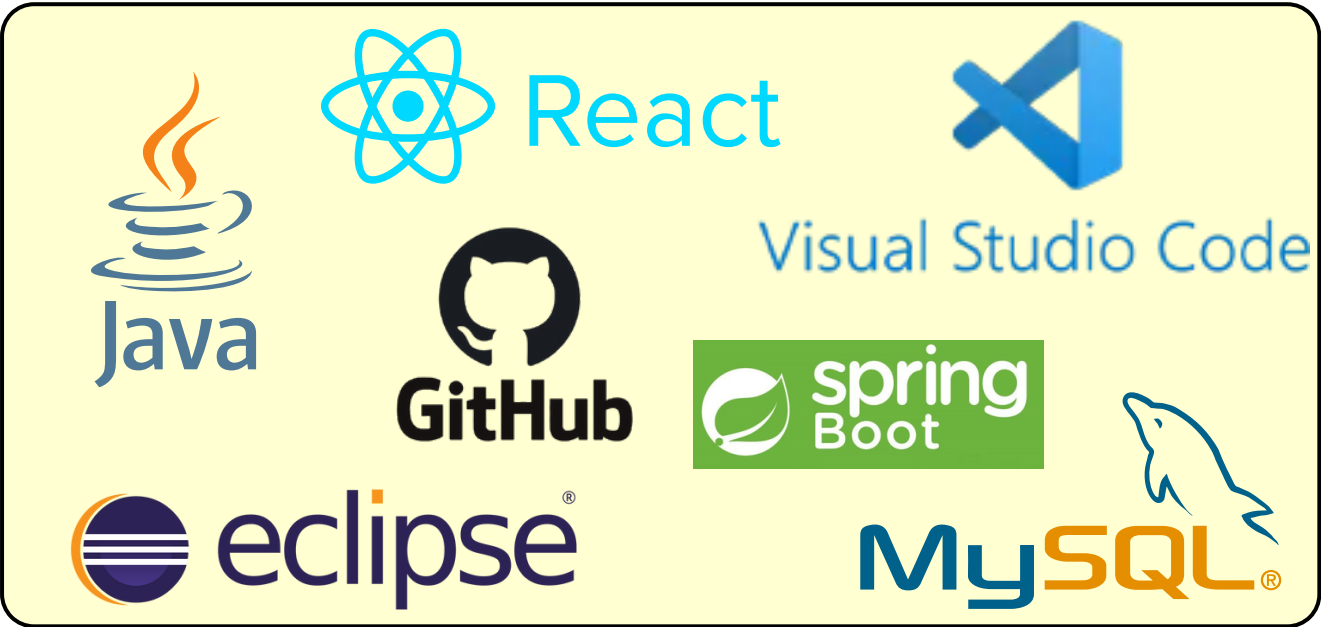
A reliable relational database for efficient storage and retrieval of all portal data.

Frontend: 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

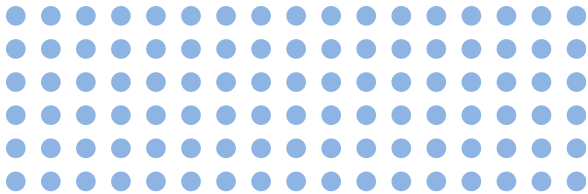
The portal guides users through a clear, step-by-step process, ensuring ease of use from start to item recovery. Administrators maintain oversight for quality control.

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Database Schema at a Glance



Users Table	Items Table	Messages Table	Reports & Logs
<ul style="list-style-type: none">• Student & Admin profiles• Authentication credentials• Contact information	<ul style="list-style-type: none">• Lost/found item details• Descriptions• Status	<ul style="list-style-type: none">• Conversation threads• Sender/receiver IDs• Message content & time	<ul style="list-style-type: none">• 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

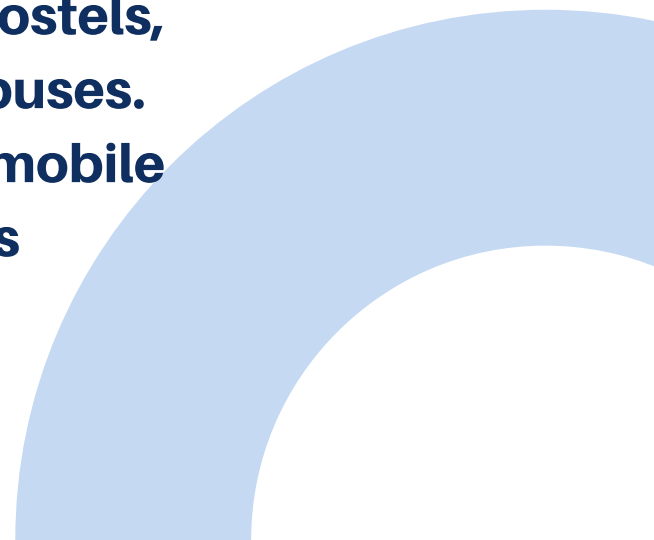
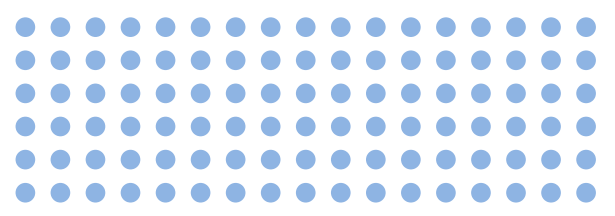
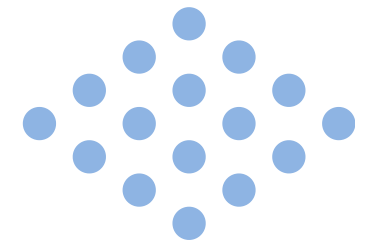
- Eliminates paper-based notices and manual registers.
- Saves time for both users and campus authorities.

Accessible Anytime, Anywhere

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

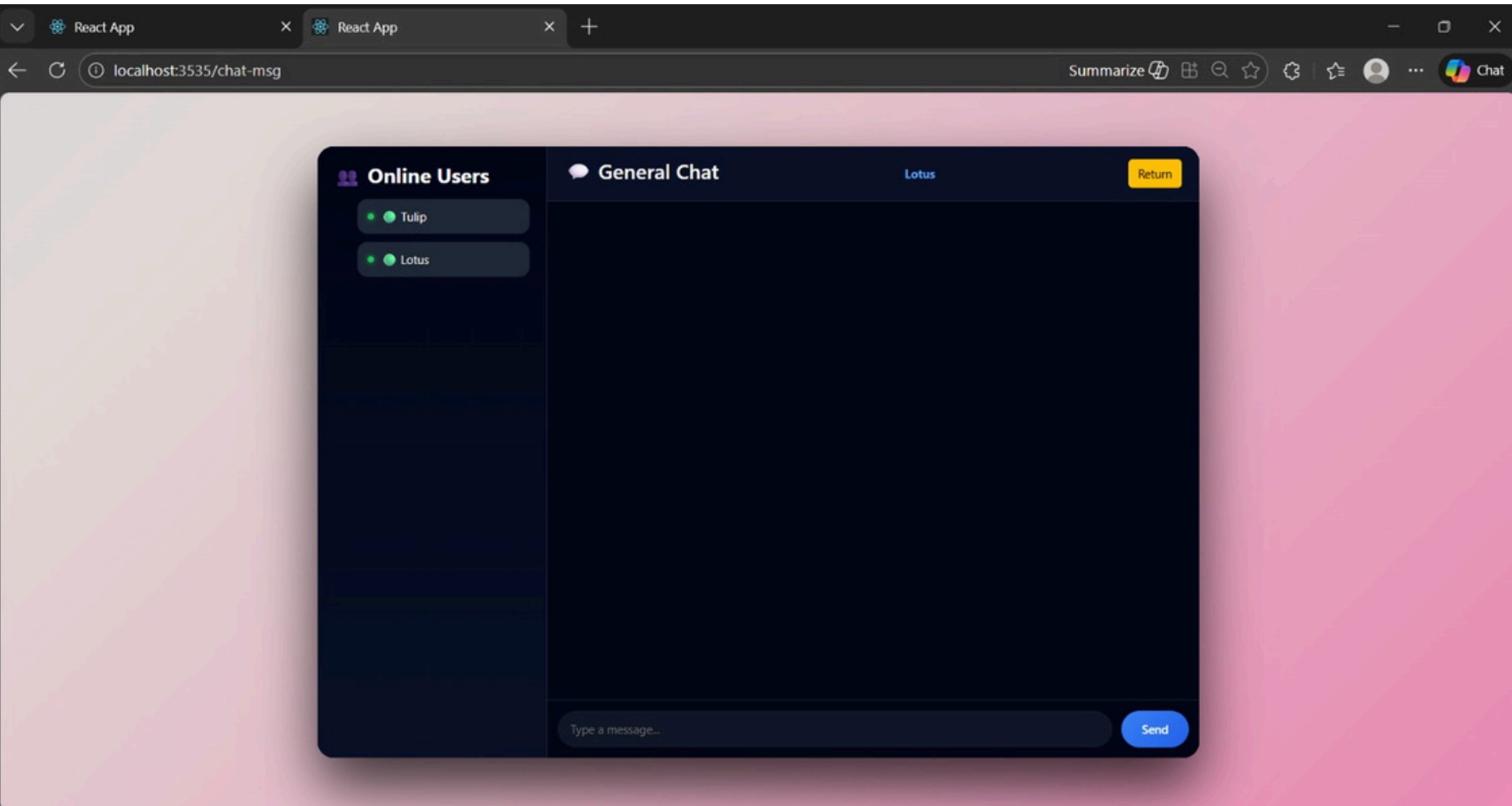
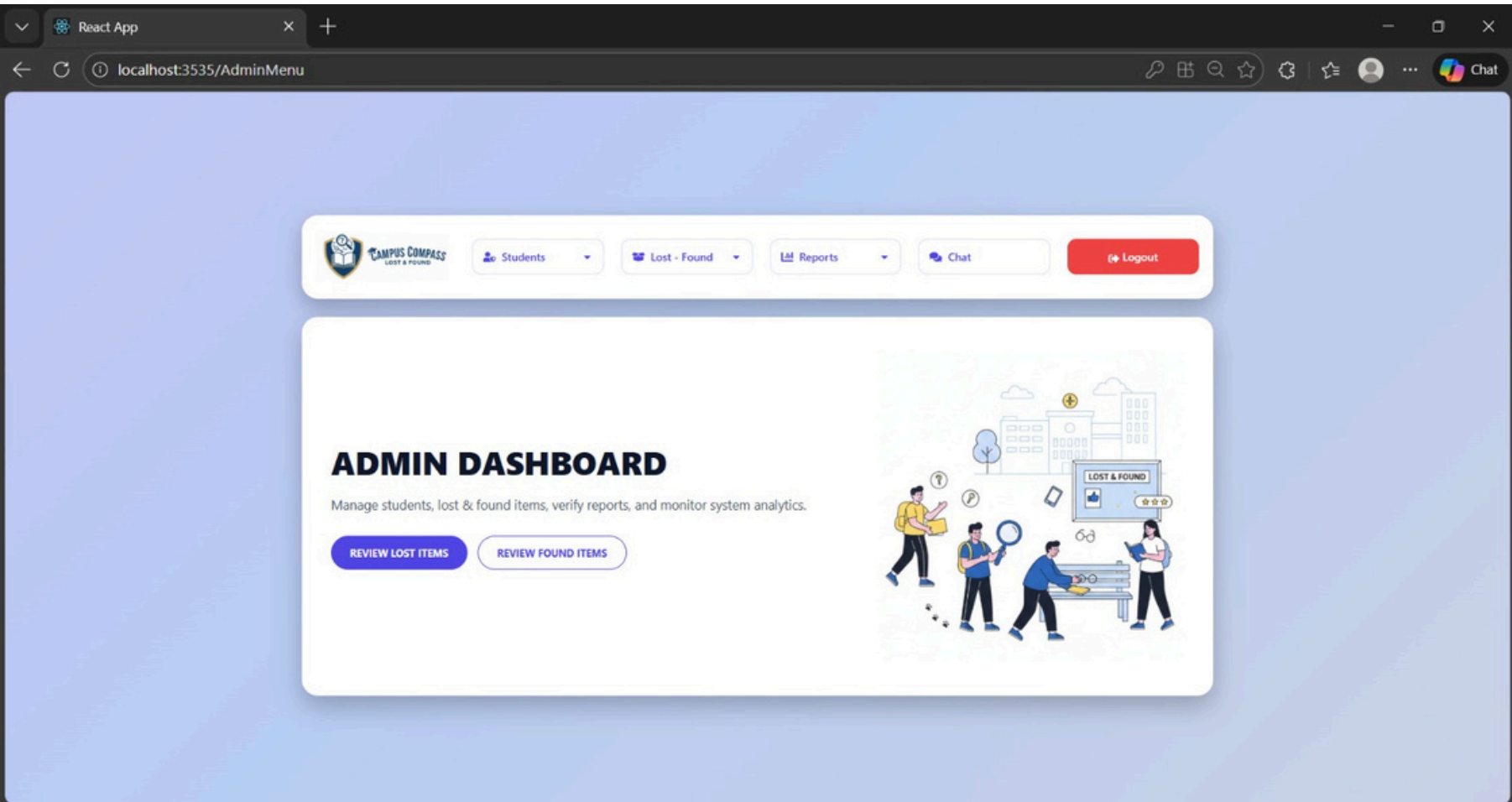
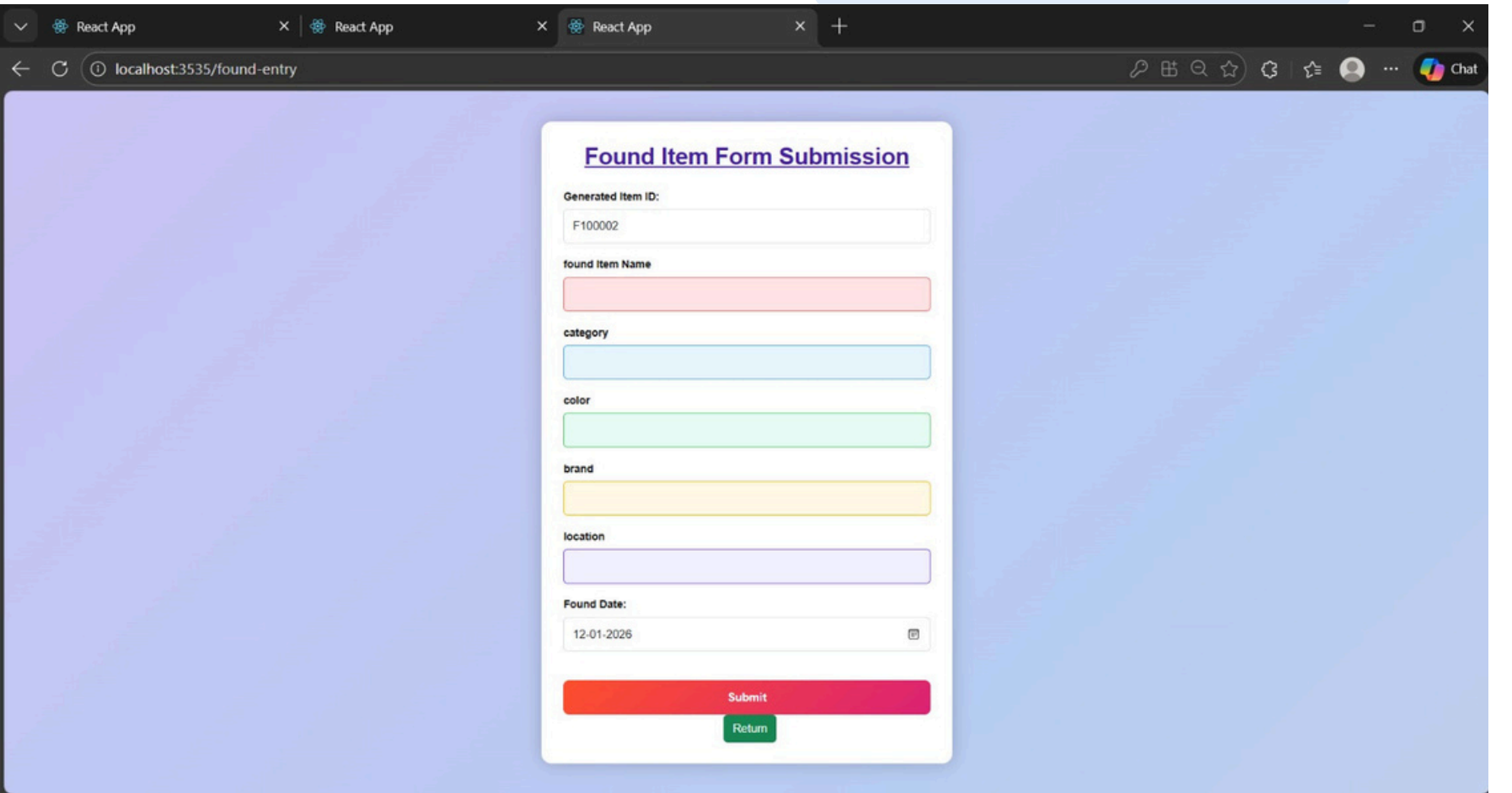
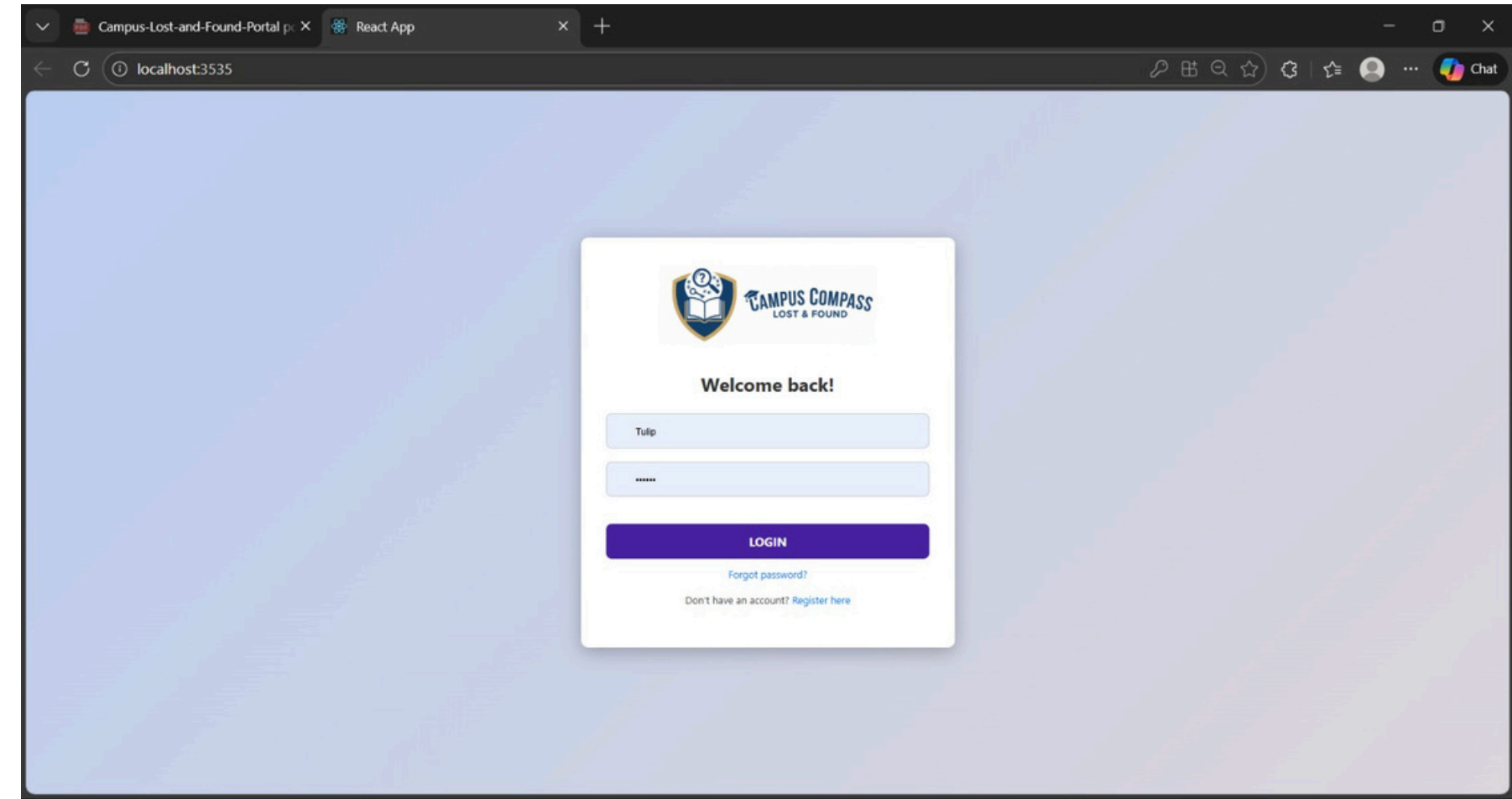
Scalability & Future Scope

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



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Portal Overview



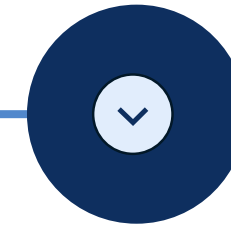
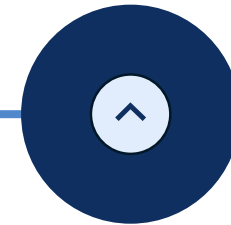
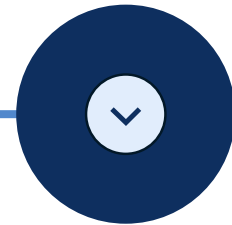
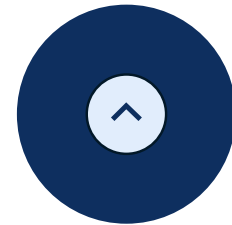
Conclusion

Towards Simplified and Scalable Solution



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

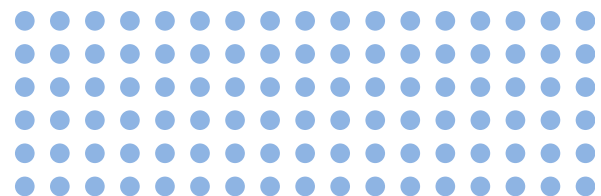
Improves campus efficiency, transparency, and accountability, Reduces time, effort, and stress involved in recovering lost belongings

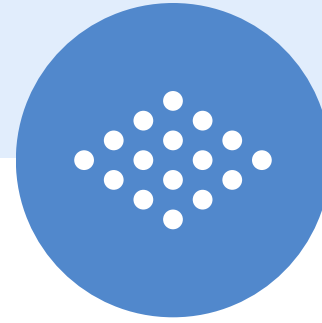


Enhances communication through in-app message broadcasting

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 !**

