

**PRESENTED BY**  
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# E-PASS SYSTEM

Using React and Python



# Problem Statement

THE TRADITIONAL PASS SYSTEM IN COLLEGES IS INEFFICIENT, REQUIRING MANUAL APPROVALS, EXCESSIVE PAPERWORK, AND DELAYS. IT LACKS REAL-TIME TRACKING, INCREASING SECURITY RISKS. DURING EVENTS, MANAGING VISITOR ENTRY BECOMES CHAOTIC. AN AUTOMATED E-PASS SYSTEM IS REQUIRED TO STREAMLINE APPROVALS, ENSURE SECURITY WITH DIGITAL TRACKING, AND ENHANCE CAMPUS ACCESS MANAGEMENT.

# Key Challenges

- ◆ Eliminating the need for manual approvals for visitor entry.

- ◆ No Manual Entry Needed The Approval Is Automated

- ◆ Reducing processing time for pass issuance.

- ◆ Everything Is Digitalized So It's Faster Way

- ◆ Ensuring security and authentication of visitors.

- ◆ Only The Authenticated Person Get The QRCode

- ◆ Implementing an automated system for seamless access.

- ◆ Access Based Privilege



# Technology Stack

Frontend: React- Tailwind Css

Backend: Python - Falsk Framework

Authentication: Qr based Approval

DataBase: MySql



# Project Objectives

The Stages That Make This Product Unique

## Ticket Raising

Develop an automated ticketing system to generate digital passes.

## QR Authenticator

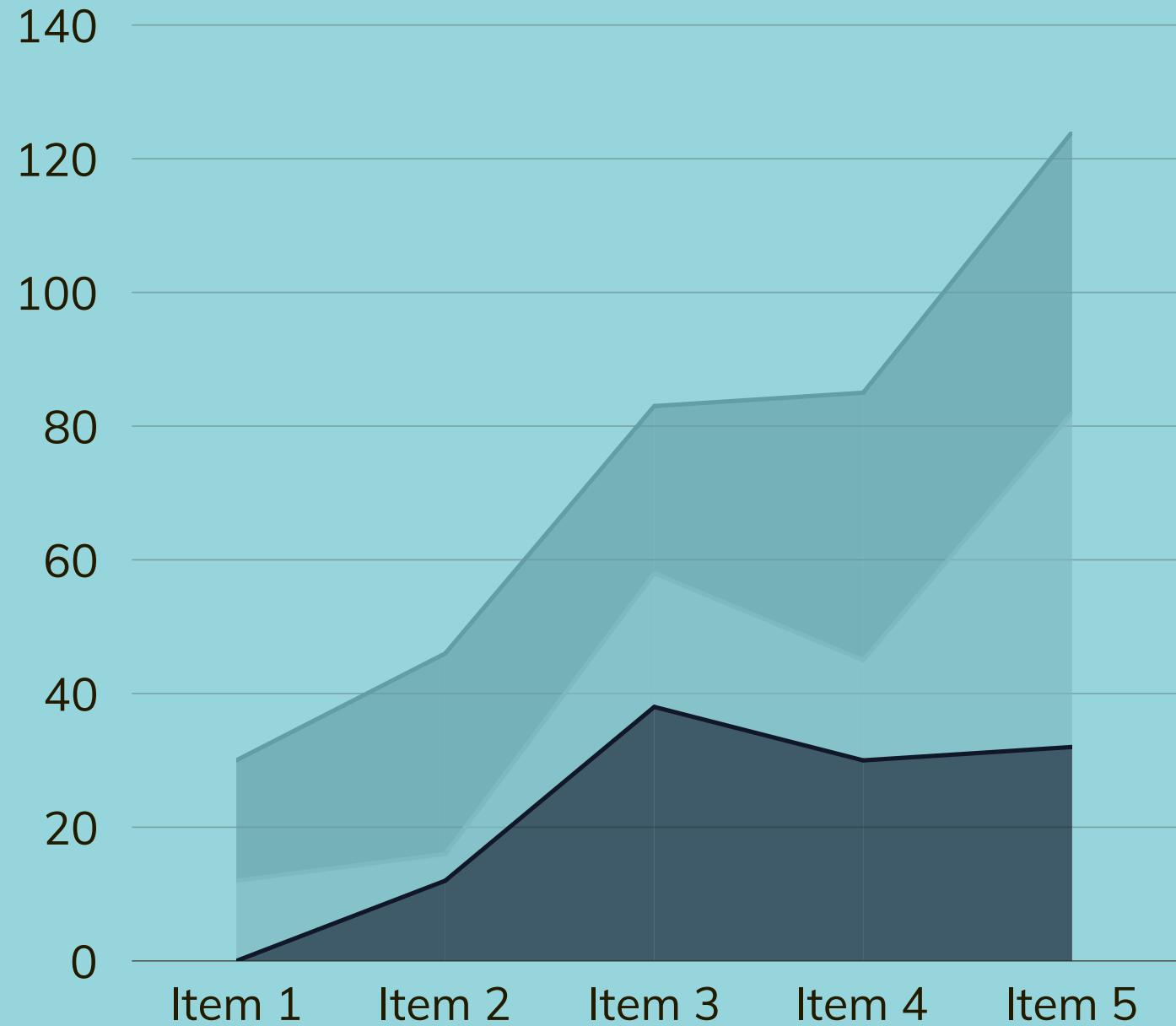
Implement QR code-based authentication for visitor verification.

## Automatic Approval

Reduce dependency on manual approvals and paperwork.

## Security & Tracking

Enhance security by tracking visitor details and entry logs.



# UPDATES

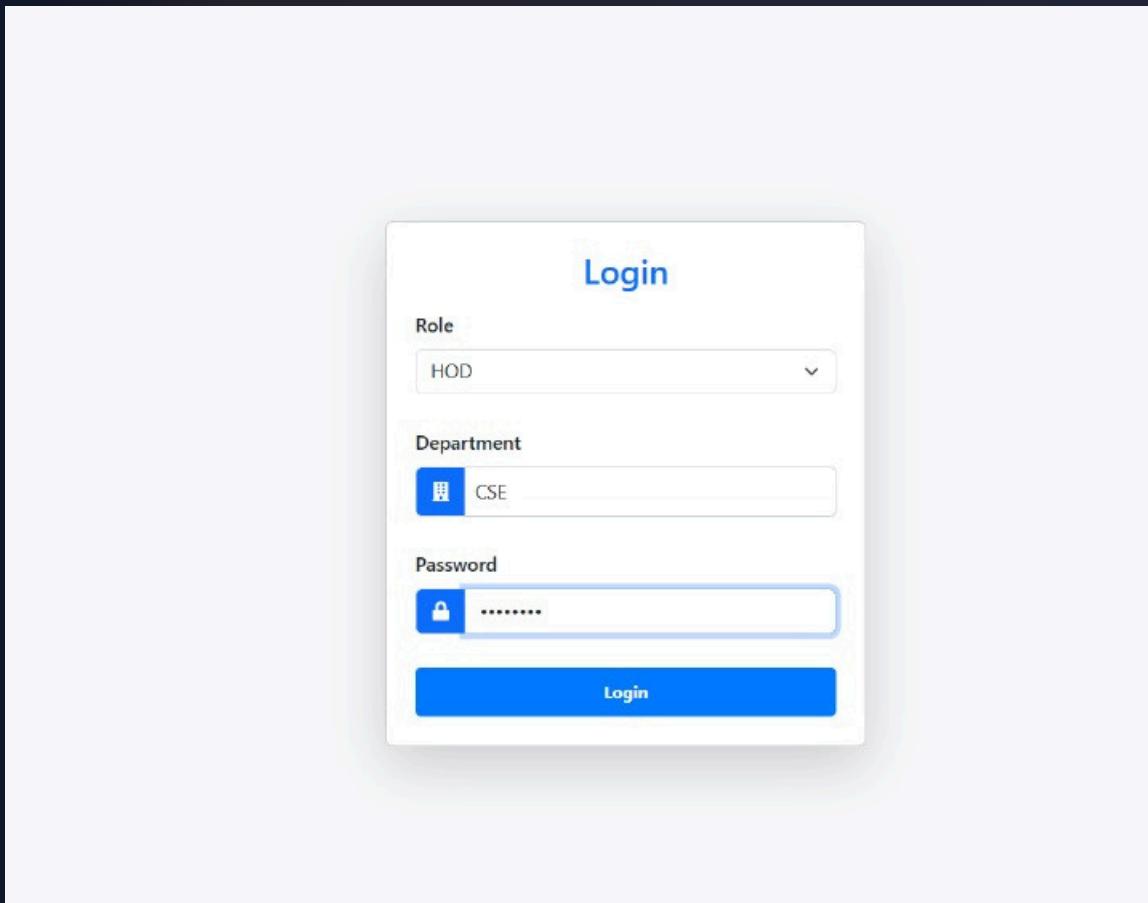
RFID Integration – Enable contactless check-ins.

Automated Holiday Management – Smart scheduling for holidays.

AI-Powered Security – Intelligent anomaly detection in visitor logs.

Mobile App Integration – Enable access control via smartphones.

# Sample Images:

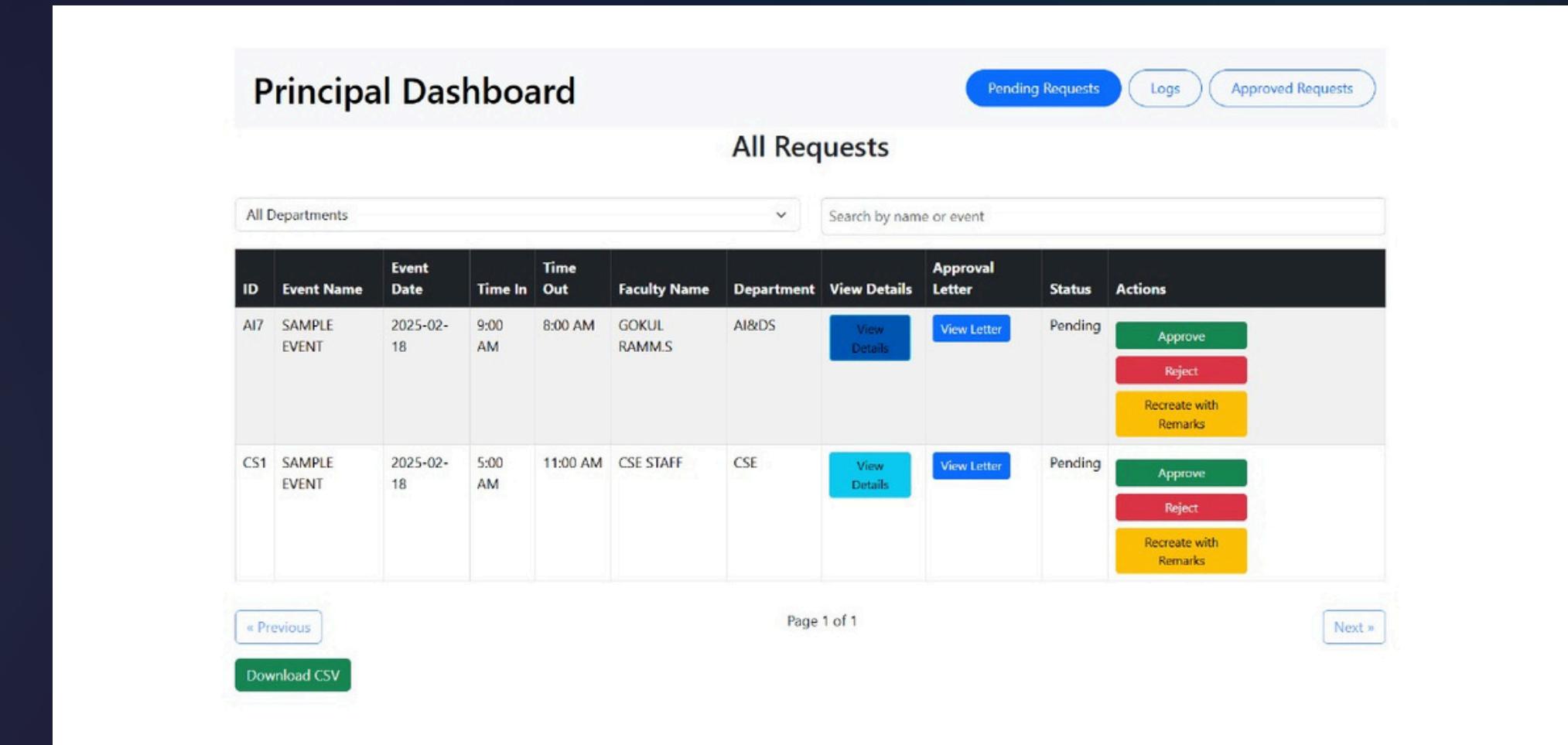


The login form is titled "Login". It includes fields for "Role" (HOD), "Department" (CSE), and "Password". A "Login" button is at the bottom.

ID	Event Name	Event Date	Time In	Time Out	Faculty Name	Department	View Details	Approval Letter	Status	Actions
AI7	SAMPLE EVENT	2025-02-18	9:00 AM	8:00 AM	GOKUL RAMM.S	AI&DS	<button>View Details</button>	<button>View Letter</button>	Pending	<button>Approve</button> <button>Reject</button> <button>Recreate with Remarks</button>
CS1	SAMPLE EVENT	2025-02-18	5:00 AM	11:00 AM	CSE STAFF	CSE	<button>View Details</button>	<button>View Letter</button>	Pending	<button>Approve</button> <button>Reject</button> <button>Recreate with Remarks</button>

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Download CSV

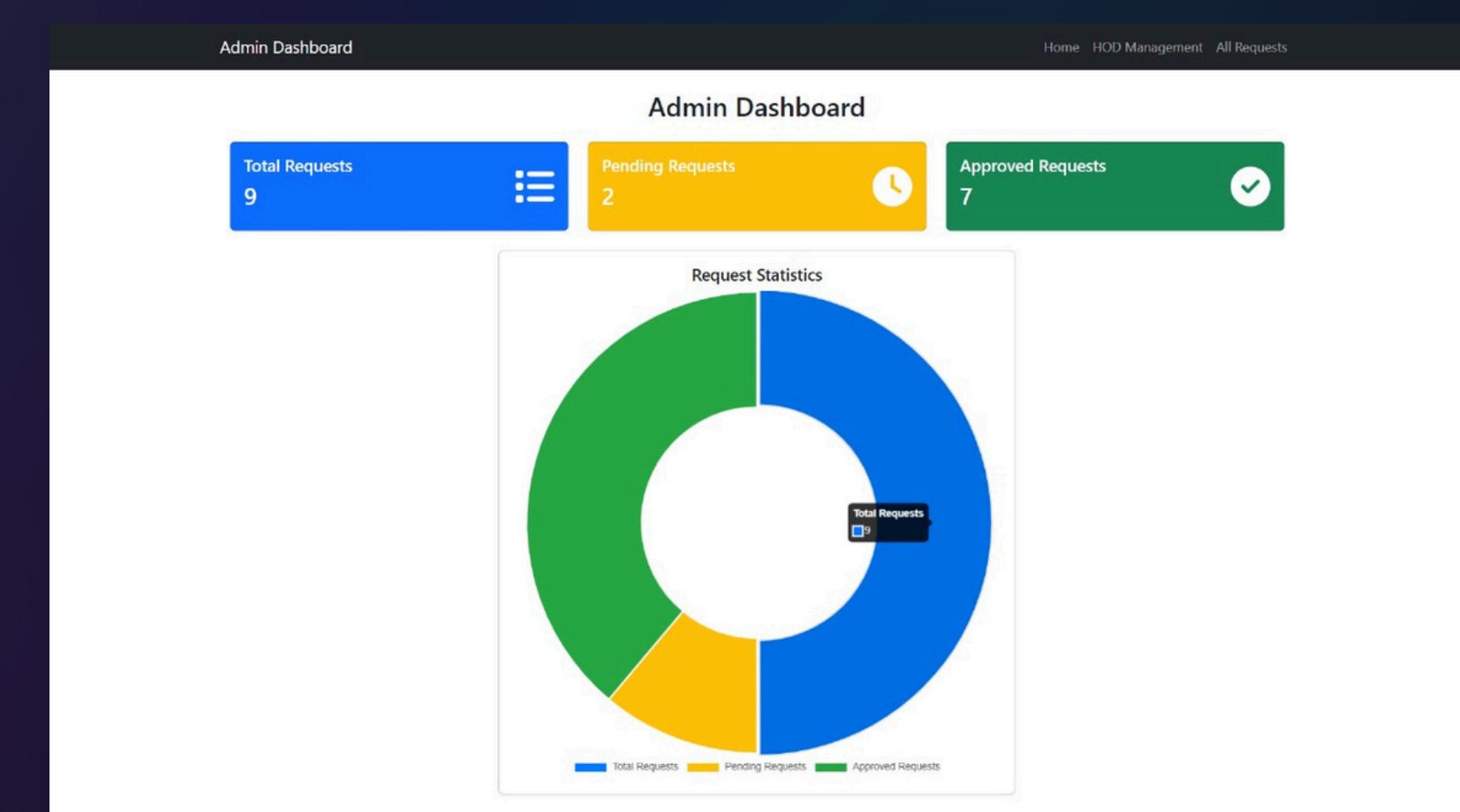


## Principal Dashboard

### All Requests

All Departments

ID	Event Name	Event Date	Time In	Time Out	Faculty Name	Department	View Details	Approval Letter	Status	Actions
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# Get in touch!

**REACH OUT ANYTIME!**

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# Thank You!

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**CALL US TODAY!**

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