

# E-PASS SYSTEM

**PRESENTED BY**

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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 Authenticatate 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

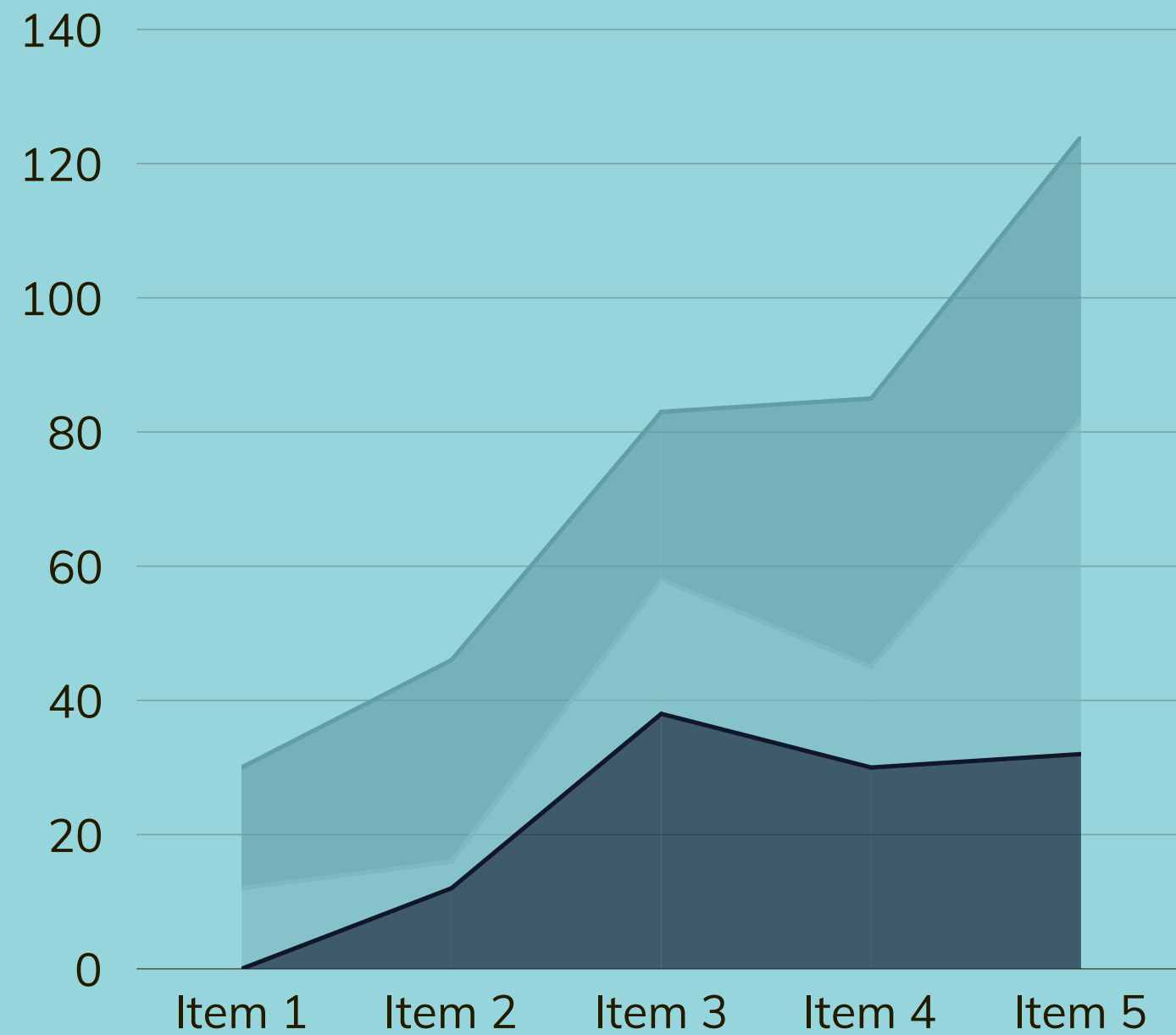
Implement QR code-based authentication for visitor verification.

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:

Login

Role

HOD

Department

CSE

Password

\*\*\*\*\*

Login

Principal Dashboard

Pending Requests

Logs

Approved Requests

All Requests

All Departments

Search by name or event

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	<div>View Details</div>	<div>View Letter</div>	Pending	<div>Approve</div> <div>Reject</div> <div>Recreate with Remarks</div>
CS1	SAMPLE EVENT	2025-02-18	5:00 AM	11:00 AM	CSE STAFF	CSE	<div>View Details</div>	<div>View Letter</div>	Pending	<div>Approve</div> <div>Reject</div> <div>Recreate with Remarks</div>

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Admin Dashboard

Home

HOD Management

All Requests

Admin Dashboard

Total Requests

9

Pending Requests

2

Approved Requests

7

Request Statistics

Total Requests

Total Requests

Pending Requests

Approved Requests



# Thank You!

# Get in touch!

**REACH OUT ANYTIME!**

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