

PROJECT ABSTRACT

Campus Visitor Logbook and Gate Pass Portal

A campus security desk portal: live dashboard with footfall stats, searchable visitor log with check-in/check-out, new-entry form, and a printable QR gate pass. Delivered built-to-order with the web app, report, PPT and viva kit.

01. Title

Campus Visitor Logbook and Gate Pass Portal

02. Introduction / Background

Campus main gates still run on paper registers: the guard writes a name and phone number, tears off no pass, and nobody knows who is currently inside. During an emergency or an audit, reconstructing the day's visitors from handwriting is hopeless. This project builds GateLog, a gate-desk portal that replaces the register: a dashboard with today's footfall, on-campus count and overstay alerts, a searchable visitor log with check-in/check-out status, a new-entry form capturing ID and vehicle details, and a printable gate pass with a scan code for exit.

03. Problem Statement

Paper visitor registers give no live picture of who is on campus, no searchability, and no verifiable pass for exit checks. The project addresses this with a desk portal where every entry is a structured record with a pass ID, the dashboard answers 'who is inside right now' at a glance, and each visitor leaves with a printed pass that is scanned at exit — closing the loop paper never could.

04. Objectives

- Maintain a structured visitor log: pass ID, name, phone, purpose, person-to-meet, vehicle, in/out times.
- Render a security dashboard: today's footfall, currently-inside count, expected visits, overstay alerts, hourly chart and purpose breakdown.
- Provide search and status filters over the log.
- Capture new entries with ID proof and vehicle details, and issue a printable gate pass with a scan code.
- Flag visitors inside beyond their pass validity as overstays.
- Deliver the complete student kit: web app, report, PPT and viva Q&A.;

05. Proposed Methodology

The portal is a single-page desk app. (1) Log store: an in-memory record list seeded with a realistic day's entries, supporting search/filter and status derivation (Inside / Checked out / Expected). (2) Dashboard: aggregates computed from the log — counts, hourly footfall bars, purpose shares, and the currently-inside table. (3) Entry flow: a validated form that mints a pass ID, timestamps check-in and renders the printable pass template. (4) Print stylesheet so only the pass prints. Navigation via URL hash across dashboard, log and entry views.

06. System Architecture / Working

On load, the seeded log renders the dashboard aggregates: counts by status, an hourly bar chart from check-in times, and a purpose breakdown table. The log view filters the same records by text and status. Submitting the entry form validates the phone format, generates the next pass ID, stamps the current time, prepends the record to the log (so dashboard counts update immediately), and renders the gate pass with visitor details, validity window and a scan code. The print button uses a print stylesheet that hides navigation and shows only the pass.

07. Hardware / Software Requirements

- Any modern web browser on the gate-desk PC — no server required for the demo build
- Single HTML/CSS/JS file (vanilla JavaScript, no dependencies)
- Printer for the gate-pass print view; webcam optional for photo capture
- Report: LibreOffice/MS Word; presentation: PowerPoint-compatible slides

08. Expected Outcomes

- A dashboard that answers footfall, inside-count and overstay questions at a glance.
- A searchable log demonstrating the full check-in to check-out lifecycle.
- A printable gate pass issued from the entry form with a scan code.
- A complete report, PPT and viva Q&A; on the workflow, data model and desk UX.

09. Applications

- College and campus security desks replacing paper registers.
- Facility managers auditing visitor traffic by purpose and hour.
- Event venues needing temporary, printable visitor passes.

10. Future Scope

- QR scanning at exit with a phone camera to auto check-out.
- Pre-registration links so hosts invite visitors who arrive with a ready pass.
- Blacklist/watchlist flagging and multi-gate sync via a backend.