

The background is a dark blue gradient. On the left side, there is a complex pattern of overlapping hexagons and lines. Some hexagons are outlined in a lighter blue, while others are filled with a glowing blue light. Lines connect various points, some ending in small blue dots. The overall effect is a futuristic, technological aesthetic. A horizontal band of lighter blue and white light is visible at the bottom of the image.

INDUSTRY PROJECTS

(AI, Web, Mobile Apps)

28-Dec-2025



TECHNOLOGY STACK

- Python, Fast API
- MySQL
- Flutter
- Node.js, React.js

PROJECT LIST

01 Visitor Management System

02 XXXXX

03 XXXXX

04 XXXXX

05 XXXXX

06 XXXXX

VISITOR MANAGEMENT SYSTEM

Web/Tablet Application

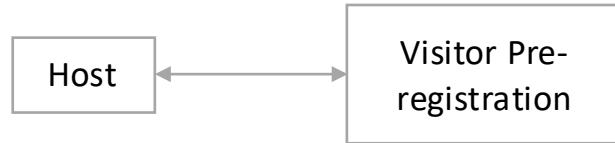


A centralized solution designed to manage, monitor, and secure visitor access within organizational premises, while providing detailed reporting for compliance and operational insights.

1. **Visitor Registration:** Pre-registration and walk-in visitor entry, Digital check-in and ID verification, Badge printing and access assignment.
2. **Message:** Send message/email to visitor and host
3. **Visitor Tracking:** Integration with security systems, Time-bound access permissions, Real-time visitor tracking.
4. **Security:** Emergency evacuation tracking, Blacklist and watchlist management.
5. **Notifications & Alerts:** Host notifications on visitor arrival, Automated reminders for scheduled visits, Alerts for overstays or unauthorized access.
6. **Reporting & Analytics:** Daily, weekly, and monthly visitor reports, Compliance dashboards for audits, Trend analysis for visitor patterns.
7. **Admin:** Add (EmployeeID, Name, Email ID, Phone Number, PABX Phone Number, Unit, Department, Location) user on Panel, Add user using Excel file,



Pages and Users



Master Tables with Possible Values (1/2)

Master Name	Purpose	Key Fields	Possible Values
Visitor Type Master	Categorizes visitors by role or intent.	VisitorTypeID, VisitorTypeName	<ol style="list-style-type: none"> 1. Guest 2. Vendor 3. Contractor 4. Government Official 5. Intern
Purpose of Visit Master	Standardizes visit reasons.	PurposeCode, PurposeDesc	<ol style="list-style-type: none"> 1. Meeting 2. Interview 3. Delivery 4. Training 5. Facility Tour 6. Maintenance 7. Consultation 8. Work
Company Master	Identifies external organizations.	CompanyID, CompanyName, Address	<ol style="list-style-type: none"> 1. XYZ Pvt Ltd 2. XYZZZ Logistics LLP
Access Level Master	Defines zone permissions.	AccessLevelID, Description	<ol style="list-style-type: none"> 1. 1 = Visitor 2. 10 = Vendor 3. 50 = Security 4. 80 = Host 5. 99 = Admin Override
Badge/ Gate Slip Format	Standardizes gate slip or barged format, that is printed and given to visitor. At the end of meeting visitor shall get signature of host in case of slip or and hand-over to security at the gate.	BadgeType, BadgePrefix, ValidityPeriod	<ol style="list-style-type: none"> 1. Gate Slip or 1. 2.Badge

Master Tables with Possible Values (2/2)

Master Name	Purpose	Key Fields	Possible Values
Notification Template Master	Stores SMS/email templates.	TemplateID, MessageType, MessageBody	<ol style="list-style-type: none"> 1. Visitor Approved 2. Visitor Arrived 3. Visitor Checked Out 4. Host Reminder 5. Emergency Alert
Site/Office Master	Defines office locations.	SiteID, SiteName, GeoTag	<ol style="list-style-type: none"> 1. PN_CORP_B = Pune Corporate 2. Tower B, BLR_HQ = Bangalore 3. HQ, MUM_WEST = Mumbai West Office
ID Proof Master	Accepted ID types.	IDProofCode, IDProofName	<ol style="list-style-type: none"> 1. Aadhaar 2. Passport 3. Driving License 4. PAN Card 5. Voter ID
Alert/Event Master	Defines system alerts.	AlertID, AlertType, SeverityLevel	<ol style="list-style-type: none"> 1. Time Exceeded 2. Unauthorized Access 3. Badge Not Returned 4. Emergency Evacuation 5. Suspicious Activity
Audit Log Master	Tracks system events.	LogTypeID, LogTypeName, RetentionPolicy	<ol style="list-style-type: none"> 1. Visitor Check In 2. Host Approval 3. Badge Issued 4. Alert Triggered 5. Data Exported

UI/UX Specification for Page: Manager Administrative Master Data (1/2)

UI Label Name	Field Name	Field Type	Size / Format	Front-End Validations	UX/UI Extra Information
Visitor Type*	VisitorTypeName	Text Input	Max 50	Required. Unique check (e.g., cannot add "Guest" twice).	NA
Purpose Code*	PurposeCode	Text Input	Max 10 (Alphanumeric)	Required. Uppercase auto-format (e.g., MEET, WORK).	Auto-generate based on first 4 letters of description.
Purpose Description*	PurposeDesc	Text Input	Max 100	Required. Minimum 3 characters.	Display as a searchable list in the visitor's pre-registration form.
Company Name*	CompanyName	Text Input	Max 100	Required. Sanitize to prevent special character injection.	Display "Verified" badge if company is a regular vendor.
Company Address*	Address	Text Area	Max 255	Optional. Multi-line support.	Integrate with Google Maps API for address auto-complete.
Access Rank*	AccessLevelID	Numeric Input	1–99	Required. Range check (1 to 99).	Use a slider or numeric stepper. Higher numbers = higher risk.
Badge Prefix*	BadgePrefix	Text Input	Max 5	Uppercase only. No numbers.	e.g., "G-" for Guest, "V-" for Vendor. Used in QR generation.
Validity Period*	ValidityPeriod	Numeric / Select	Hours / Days	Required. Must be \$> 0\$.	Show a "Live Preview" of the expiry timestamp based on current time.
Print Format*	BadgeType	Toggle / Radio	Gate Slip / Badge	Required. Single selection only.	Show a thumbnail preview of the "Slip" vs. "Badge" layout.

UI/UX Specification for Page: Manager Administrative Master Data (2/2)

UI Label Name	Field Name	Field Type	Size / Format	Front-End Validations	UX/UI Extra Information
Notification* Template	MessageType	Dropdown	VARCHAR(30)	Required. Cannot duplicate message types.	Map to system triggers (e.g., CHECK_IN_EVT).
	MessageBody	Text Area	Max 500	Required. Must include placeholders like {VisitorName}.	Use a "Placeholder Picker" to avoid manual typing errors.
Site/Office	SiteID	Text Input	Max 15	Uppercase/Underscore only (e.g., PN_CORP_B).	Unique Key; linked to the site-specific printer settings.
	SiteAddress	Text Input	Max 200	Required. Cannot duplicate address name.	
	GeoTag	Text Input	Max 50	Latitude/Longitude format check.	Used for "Geofencing" alerts in the mobile app.
ID Proof*	IDProofCode	Text Input	Max 10	Alpha-only, Uppercase.	Code used as a prefix for ID image file naming.
	IDProofName	Text Input	Max 50	Required. Unique.	e.g., "Aadhaar", "Passport".
Alert/Event*	SeverityLevel	Select	Low, Med, High	Required. Color-coded selection.	UX: High severity should trigger a sound on the Security Dashboard.
	AlertID	Text Input	Max 20	Alphanumeric, unique.	Maps to the ActionType in the AuditLog.

Visitor Pre-registration Page

UI Label Name	Field Name	Field Type	Size / Format	Front-End Validations	UX/UI Extra Information
Visitor Type*	VisitorTypeName	Text Input	Max 50	Required. Unique check (e.g., cannot add "Guest" twice).	Use color-coded tags (e.g., Red for "Govt Official", Blue for "Guest").
Purpose Code*	PurposeCode	Text Input	Max 10 (Alphanumeric)	Required. Uppercase auto-format (e.g., MEET, WORK).	Auto-generate based on first 4 letters of description.
Purpose Description*	PurposeDesc	Text Input	Max 100	Required. Minimum 3 characters.	Display as a searchable list in the visitor's pre-registration form.
Company Name*	CompanyName	Text Input	Max 100	Required. Sanitize to prevent special character injection.	Display "Verified" badge if company is a regular vendor.
Company Address*	Address	Text Area	Max 255	Optional. Multi-line support.	Integrate with Google Maps API for address auto-complete.
Access Rank*	AccessLevelID	Numeric Input	1–99	Required. Range check (1 to 99).	Use a slider or numeric stepper. Higher numbers = higher risk.
Badge Prefix*	BadgePrefix	Text Input	Max 5	Uppercase only. No numbers.	e.g., "G-" for Guest, "V-" for Vendor. Used in QR generation.
Validity Period*	ValidityPeriod	Numeric / Select	Hours / Days	Required. Must be ≥ 0 .	Show a "Live Preview" of the expiry timestamp based on current time.
Print Format*	BadgeType	Toggle / Radio	Gate Slip / Badge	Required. Single selection only.	Show a thumbnail preview of the "Slip" vs. "Badge" layout.

UI/UX Specification for Page: Visitor Pre-registration

UI Label Name	Database Field Name	Field Type	Length / Format	Front-End Validations (UX Logic)	UX/UI Extra Information
Visitor Full Name*	VisitorName	Text Input	Max 150	Required. Alpha-only. No special characters allowed.	Use a placeholder like "Enter legal name as per ID."
Representing Company*	CompanyName	Text Input	Max 100	Optional. Default to "Individual" if left blank.	Auto-suggest common vendor names from history.
Visitor Email*	EmailID	Email Input	Max 100	Required. Standard Regex validation (@ and .). Provide the option as not available with the help of toggle button in case of labour, or provide from contractor or company.	Trigger "Invalid Format" error in real-time on blur.
Mobile Number*	MobileNumber	Phone Input	Max 15	Required. Numeric only. Country code dropdown.	Use a masked input field (e.g., +91-XXXXX-XXXXX).
ID Proof Type*	IDProofType	Dropdown	N/A	Required. Select from: Passport, Aadhaar, DL, etc.	Selection should update the "ID Number" placeholder logic.
ID Proof Number	IDProofNumber	Text Input	Max 50	Length/Pattern check based on ID Type.	Mask the input (e.g., **** * 1234) for privacy.
Meeting Date*	MeetingDate	Date Picker	DD-MM-YYYY	Required. Disable past dates and weekends (if applicable).	Highlight the current date as the default.
Start Time*	StartTime	Time Picker	HH:MM	Required. Must be within business hours (09:00 - 18:00).	Use 15-minute increments for easier selection.
End Time*	EndTime	Time Picker	HH:MM	Required. Must be later than Start Time.	Automatically suggest Start Time + 1 hour by default.
Purpose of Visit*	MeetingPurpose	Dropdown	N/A	Required. Choose from: Meeting, Interview, Delivery, etc.	If "Other" is selected, show a hidden text area for notes.
Meeting Place*	MeetingPlace	Text Input	Max 100	Required. Auto-suggest common place names from history.	Indicate room capacity next to the room name.

Thank You



MANISH & ANIL



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