

The background features a complex, abstract pattern of hexagons in various shades of blue and cyan. Some hexagons are filled with a bright cyan color, while others are outlined in blue. Small, glowing cyan dots are scattered throughout the pattern, connected by thin cyan lines, creating a network-like appearance. The overall effect is futuristic and technological.

INDUSTRY PROJECTS

(AI, Web, Mobile Apps)

28-Dec-2025

A large, abstract circular graphic on the left side of the slide features a complex network of blue lines forming a circuit board or gear-like pattern. It has a glowing blue center and is set against a dark blue background with a subtle grid.

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

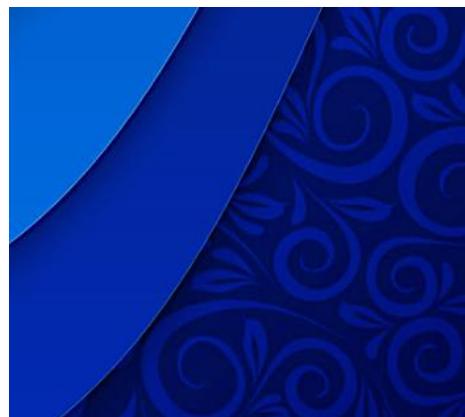
VISITOR MANAGEMENT SYSTEM

Web/Tablet Application

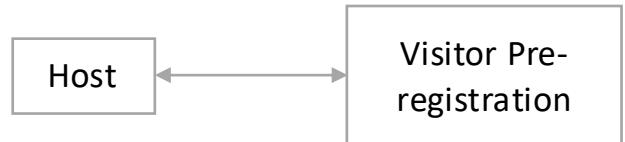


A centralized solution designed to manage, monitor, and secure visitor access within organizational premises, while providing detailed reporting for compliance and operational insights.

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-XXXX-XXXX). |
| 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. 11 |

Thank You



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