VISITOR MANAGEMENT SYSTEM

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PROBLEM STATEMENT

- Streamline visiting service like check-in and check-out in corporate offices.
- Ensure the visitor is properly taken care with the entry access, wifi-details.
- Security risks due to incomplete or untracked visitor data.
- To Let know the host, IT support Team and Security Team regarding visitor details, status of his visit (checked-in or checked-out).

SYSTEM REQUIREMENTS

Visitor Check-In and Check-Out

- Reception staff captures visitor details: name, contact, purpose of visit, and ID proof.
- ID proof is securely stored for future reference.

Automated Notifications

- Upon visitor check-in, notifications are sent to:
  - Host Employee for Informing them of visitor arrival.
  - IT Support for Preparing visitor Wi-Fi access and sends credentials.
  - Security Team to Receives entry and clearance updates.

SYSTEM WORKFLOW

Check-In

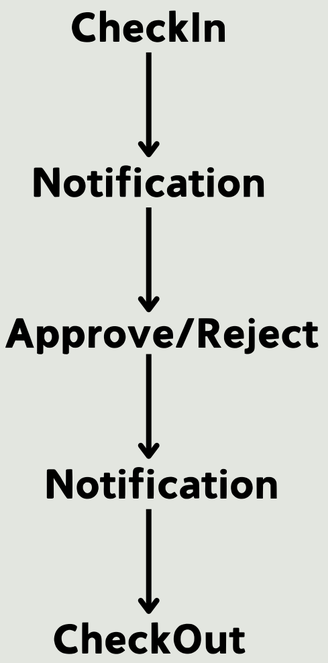
- Visitor provides details and ID proof at reception.
- System stores data securely.
- Notifications sent to Host, IT, and Security.

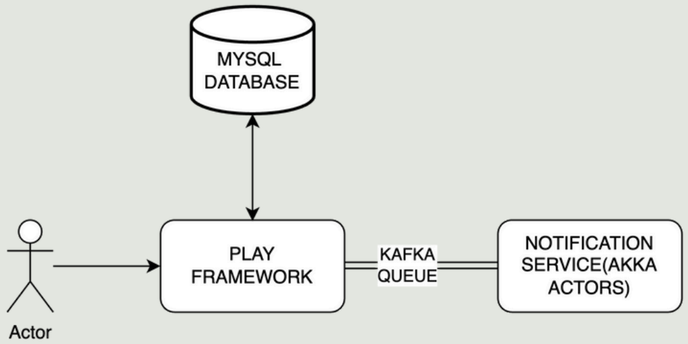
Visitor Stay

- IT support sets up Wi-Fi and shares credentials.
- Security monitors visitor clearance status.

Check-Out

- Reception records visitor exit and notifies the same with host, IT Support Team, Security Team.
- Notifications stop automatically.





Employee	
PK	employeeId
	employeeName
	organisation
	building
	email
	employeeType
	contactNo

Visitor	
PK	visitorId
	vistorName
	email
	contactNo

visitorIdentityProof	
PK	id
FK	visitorId
	identityProof

Visit Table	
PK	visitId
FK	visitorId
FK	employeeId
	buildiing
	checkInTime
	checkOutTime
	status

KEY FEATURES

- API’s for adding employees, fetching employee details, for visitor check-in and check-out, host API’s for Approve or Reject visitor’s request.
- Actors created at notification server takes messages from kafka and notifies the respective teams based on messages.
- Sends Approval mail for Host and upon Approve or Reject, mail is sent to visitor by IT regarding request approval and security team is intimated.
- The Identity Proof submitted at the time of check-in is securely stored in Database.

SYSTEM ARCHITECTURE

Components:

- Backend: REST APIs (Play Framework) for visitor operations.
- Notification Microservice: Akka-based for real-time alerts to Host, IT, and security teams.
- Database: Secure storage of visitor details and ID proof.
- Deployment: Docker containers for scalable and consistent deployment.

Thank You