Smart Institute Entry System for Visitors

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Introduction

Why do we need a smart Entry system for visitors?

1.**Better Security**: Verifies visitors and prevents unauthorized access.

2.**Faster Check-ins**: Reduces wait times with pre-registration and QR codes.

3.**Real-Time Alerts**: Notifies hosts instantly and tracks visitor data.

The IDEA

The Idea in 3 Steps

1. Registration

• Visitors register themselves upon arrival using a website.

• The system collects details such as the visitor's name, purpose of visit, contact information, and a photo.

• Upon successful registration, a unique entry pass (QR code) is generated for the visitor.

2. Verification by the Guard

• The visitor presents their entry pass to the security guard at the gate.

• The guard scans the pass or verifies the details through the system, ensuring the visitor's identity matches the registration data.

• Only verified visitors are allowed entry, enhancing security.

The Idea in 3 Steps

3. Exit Logging

• At the time of exit, visitors check out by scanning their pass.

•The system logs the exit time automatically, maintaining a complete record of the visit.

• This ensures accurate tracking of visitor movements on campus.

Additional Features: Visitor Dashboard

• A central dashboard displays real-time analytics, including:

- **Current Visitors**: Total number of visitors currently on the premises.
- **Daily Statistics**: Insights like the number of visitors per day, peak hours, and frequent visitors.
- **Security Reports**: Comprehensive logs of visitor entry and exit.

• The dashboard helps administrators monitor and analyze visitor patterns for better resource planning and security management.

IMPLEMENTATION

Registration
link qr

Visitor Enters Details on website

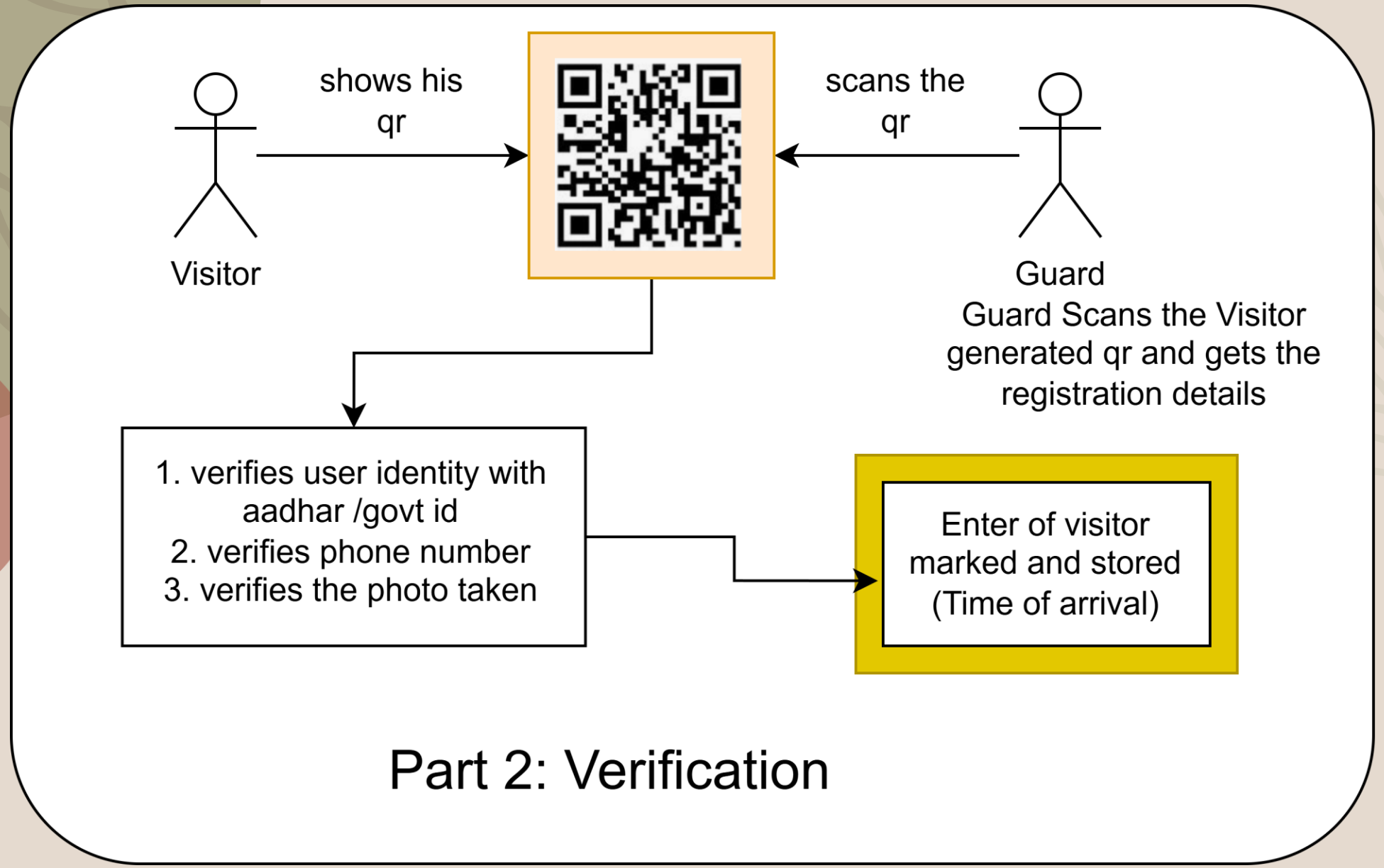
Take a selfie

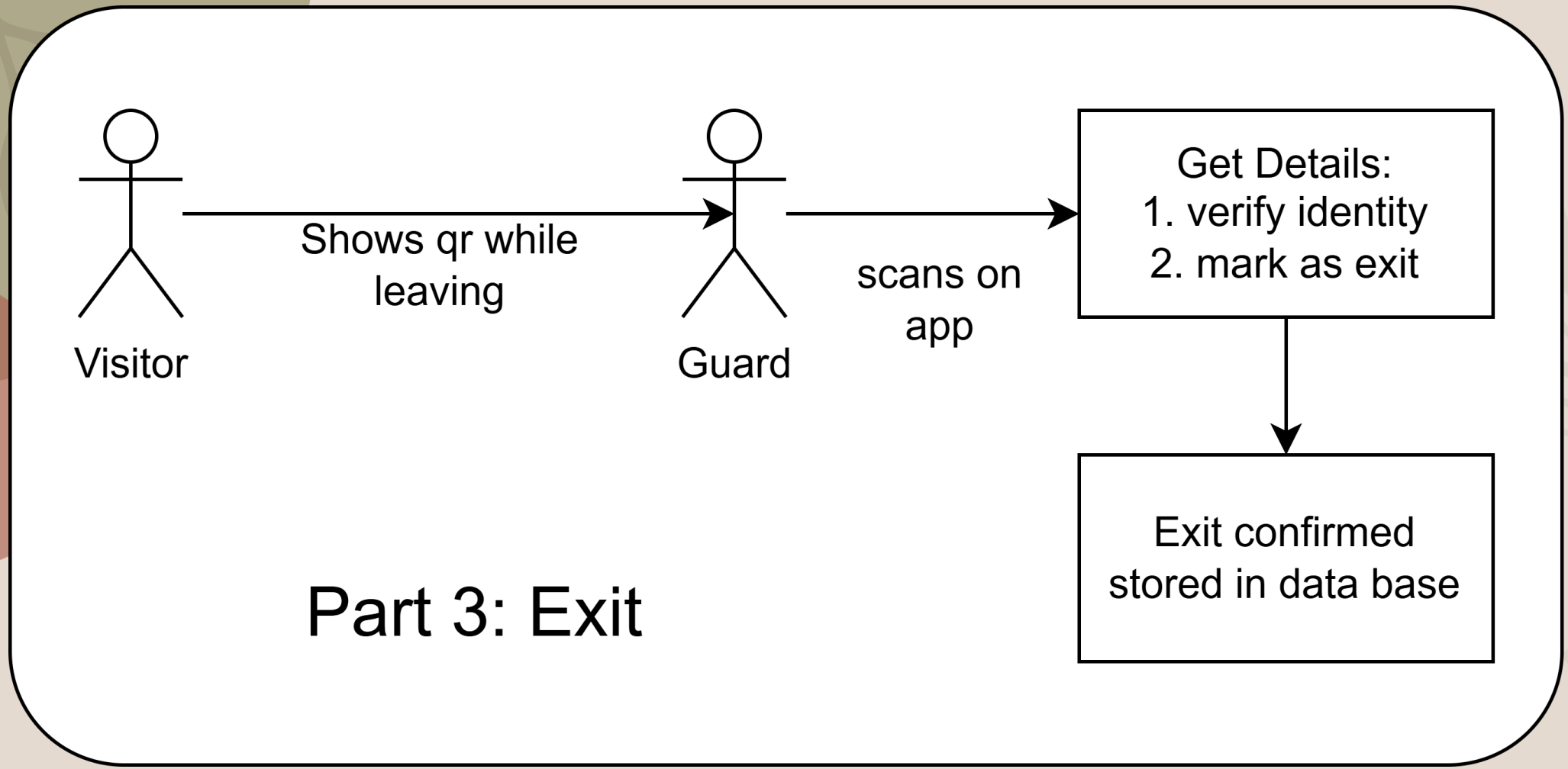
Email and contact info

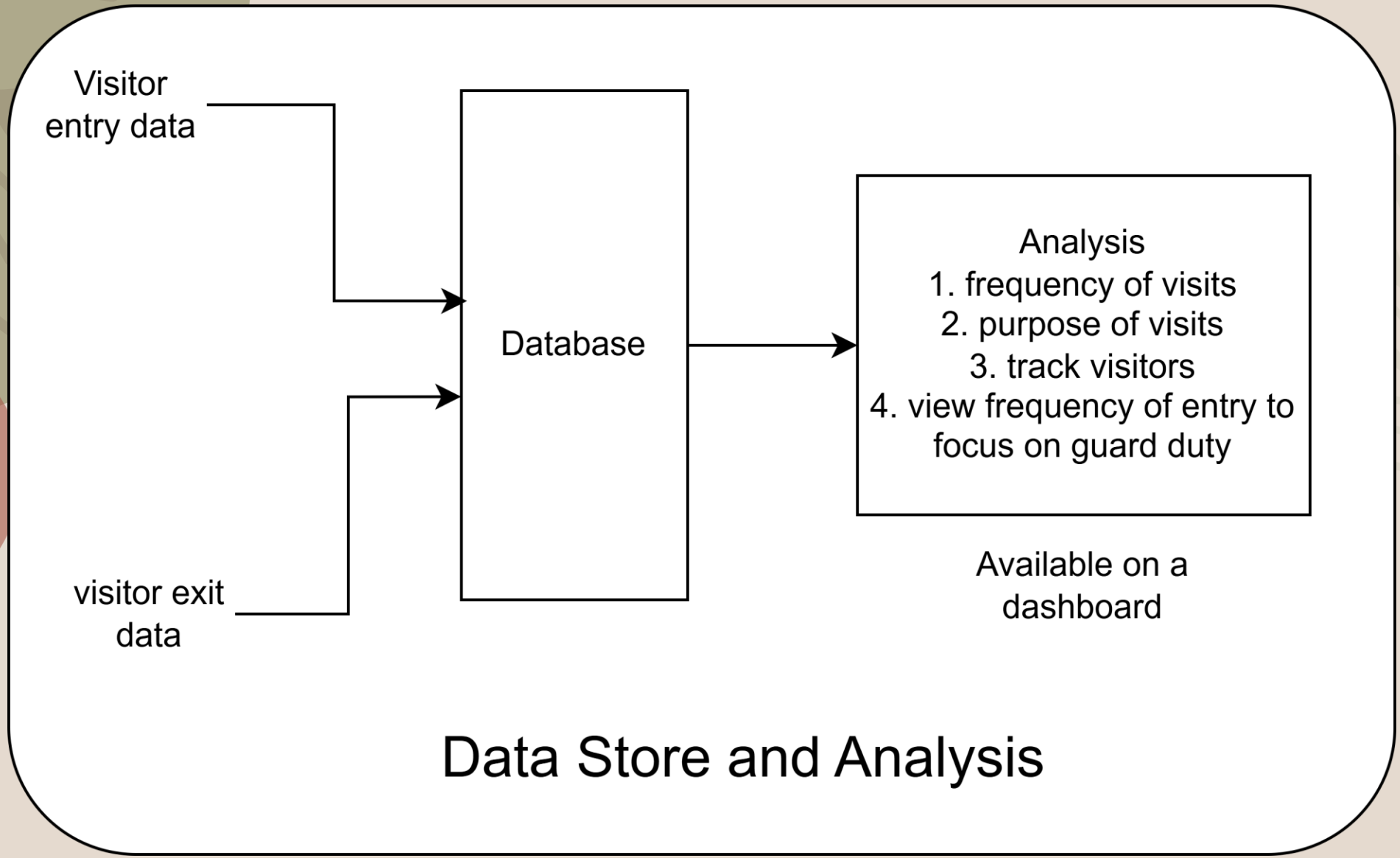
receive qr code on mail

Part 1: Registration

1. registration deployed website
2. qr code generator and mail sender


shows his qr
scans the qr
Visitor
Guard
Guard Scans the Visitor generated qr and gets the registration details
1. verifies user identity with aadhar /govt id
2. verifies phone number
3. verifies the photo taken
Enter of visitor marked and stored (Time of arrival)
Part 2: Verification


Visitor
Shows qr while leaving
Guard
scans on app
Get Details:
1. verify identity
2. mark as exit
Exit confirmed
stored in data base
Part 3: Exit



Data Store and Analysis

APPLICATIONS

APPLICATIONS

1. Registration Website

• A normal web application deployed which takes user info and generates a QR and sends it to their mail.

• The Visitor's data is securely stored in a database.

2. Guard Mobile application

• The mobile app which the guard has, will scan the QR and verify the user details like face, Aadhar, phone number.

• Retrieves the data from the secured database.

• Used for both entry and exit.

3. Database

• stores registered user's data.

• Used frequently by the analytics dashboard to display the visitor analytics.

4. Dashboard

• A deployed application, which retrieves the data from the database to display the visitor stats.

• includes live visitor count and visitor analytics and much more.

thank you