

Title: Visitor Management System

1. DB Schema

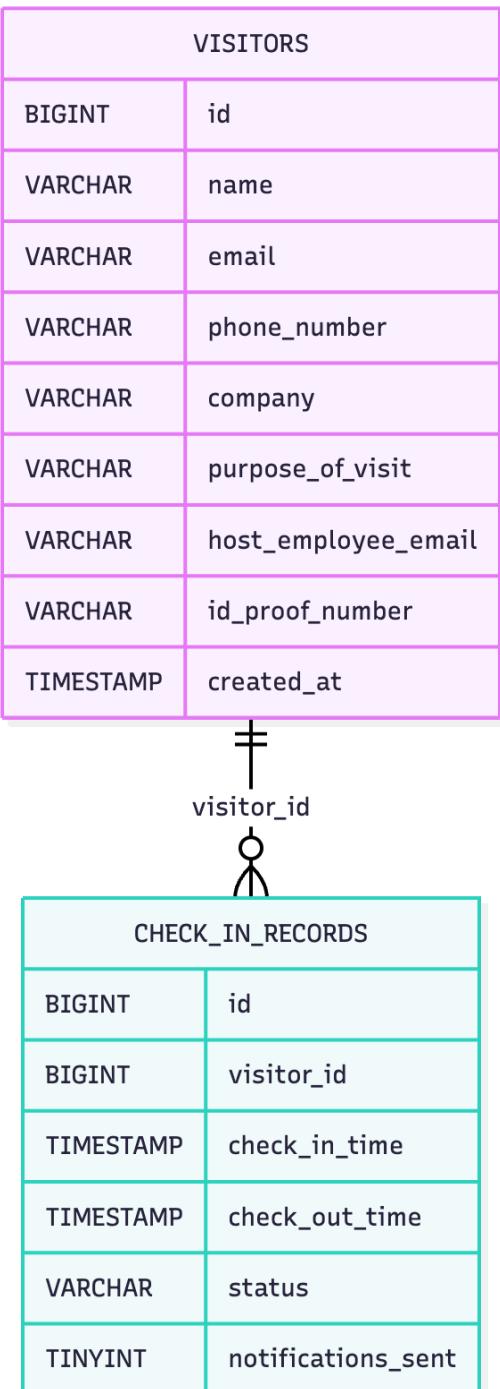
Visitors

```
CREATE TABLE visitors (
    id BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL,
    phone_number VARCHAR(50) NOT NULL,
    company VARCHAR(255) DEFAULT NULL,
    purpose_of_visit VARCHAR(500) NOT NULL,
    host_employee_email VARCHAR(255) NOT NULL,
    id_proof_number VARCHAR(100) NOT NULL,
    created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
    KEY idx_email (email)
);
```

Check in Records

```
CREATE TABLE check_in_records (
    id BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    visitor_id BIGINT NOT NULL,
    check_in_time TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
    check_out_time TIMESTAMP NULL DEFAULT NULL,
    status VARCHAR(20) NOT NULL,
    notifications_sent TINYINT(1) NOT NULL DEFAULT 0,
    KEY idx_visitor_id (visitor_id),
    KEY idx_status (status),
    CONSTRAINT fk_visitor_logs_visitor
        FOREIGN KEY (visitor_id) REFERENCES visitors(id)
);
```

2. DB Schema



3. Output Screenshots

3.1 Creation of a visitor

The screenshot shows a Postman interface with the following details:

- URL:** `http://localhost:9002/api/visitors/check-in`
- Method:** POST
- Body (x-www-form-urlencoded):**

```
name: pepper
email: rohanrock7007@gmail.com
phoneNumber: 8000080000
purposeOfVisit: client
hostEmployeeEmail: tony@apple.com
idProofNumber: A123450900
```
- Status:** 200 OK
- Time:** 31.24 s
- Size:** 439 B
- Response Body:**

```
{"visitorId":1,"checkInId":1,"checkInTime":"2025-11-22T16:18:50.730960Z","message":"Visitor checked in successfully"}
```

```
|mysql> select * from visitors;
+----+-----+-----+-----+-----+-----+-----+
| id | name | email           | phone_number | company | purpose_of_visit | host_employee_email | id_proof_number | created_at      |
+----+-----+-----+-----+-----+-----+-----+
| 1  | pepper | rohanrock7007@gmail.com | 8000080000 | NULL    | client          | tony@apple.com   | A123450900    | 2025-11-22 16:18:50 |
+----+-----+-----+-----+-----+-----+-----+
1 row in set (0.120 sec)

|mysql> select * from check_in_records;
+----+-----+-----+-----+-----+
| id | visitor_id | check_in_time       | check_out_time | status     | notifications_sent |
+----+-----+-----+-----+-----+
| 1  | 1          | 2025-11-22 16:18:51 | NULL          | CHECKED_IN | 0              |
+----+-----+-----+-----+-----+
1 row in set (0.072 sec)
```

Checking out a visitor

The screenshot shows a Postman request for `http://localhost:9002/api/visitors/check-out/1`. The method is set to `PUT`. The response status is `200 OK`, and the message is "Visitor checked out successfully".

```
1 "checkInId": 1,
2 "checkOutTime": "2025-11-22T16:27:59.205587Z",
3 "message": "Visitor checked out successfully"
```

Automated mail notification



Visitor Arrival Notification: pepper



rohanbold123... 9:48 pm



to tony ▾

Visitor Arrival Notification

Hello,

Your visitor has arrived:

- **Name:** pepper
- **Email:** rohanrock7007@gmail.com
- **Phone:** 8000080000
- **Purpose:** client
- **Check-in Time:** 2025-11-22T16:18:50.730960Z

Please proceed to the reception to meet your visitor.

Best regards,
Reception Team