

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

VISITORS	
BIGINT	id
VARCHAR	name
VARCHAR	email
VARCHAR	phone_number
VARCHAR	company
VARCHAR	purpose_of_visit
VARCHAR	host_employee_email
VARCHAR	id_proof_number
TIMESTAMP	created_at



CHECK_IN_RECORDS	
BIGINT	id
BIGINT	visitor_id
TIMESTAMP	check_in_time
TIMESTAMP	check_out_time
VARCHAR	status
TINYINT	notifications_sent

3. Output Screenshots

3.1 Creation of a visitor

The screenshot shows a REST client 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 (JSON):**




```
{"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



HTTP  http://localhost:9002/api/visitors/check-out/1  Save



PUT  http://localhost:9002/api/visitors/check-out/1  

Params Authorization Headers (8) Body  Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Bulk Edit
	Key	Value	

Body Cookies Headers (8) Test Results  Status: 200 OK Time: 31.23 s Size: 427 B 

Pretty Raw Preview Visualize JSON  

```
1  {
2    "checkInId": 1,
3    "checkOutTime": "2025-11-22T16:27:59.205587Z",
4    "message": "Visitor checked out successfully"
5  }
```

Automated mail notification



Visitor Arrival Notification:

pepper

Inbox



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