

Smart Access Control

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To design and implement a secure and efficient visitor access control system
using Core Java.

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Introduction

The **Smart Access System (SAS)** is a Java + MySQL based console application for managing visitor entries in corporate / institutional spaces. It allows role-specific access for visitors, receptionists, and admins while replacing manual logbooks with digital access and monitoring.

Access Granting Module

Enables receptionists to grant area-wise access to visitors.

Admin Panel

Views all visit requests, access logs, and handles admin controls.

Visitor Registration/Testing

Handles new visitor registration and login via email/ID.

Login & Session Tracking

Manages login authentication and tracks the current session user.

Receptionist Dashboard

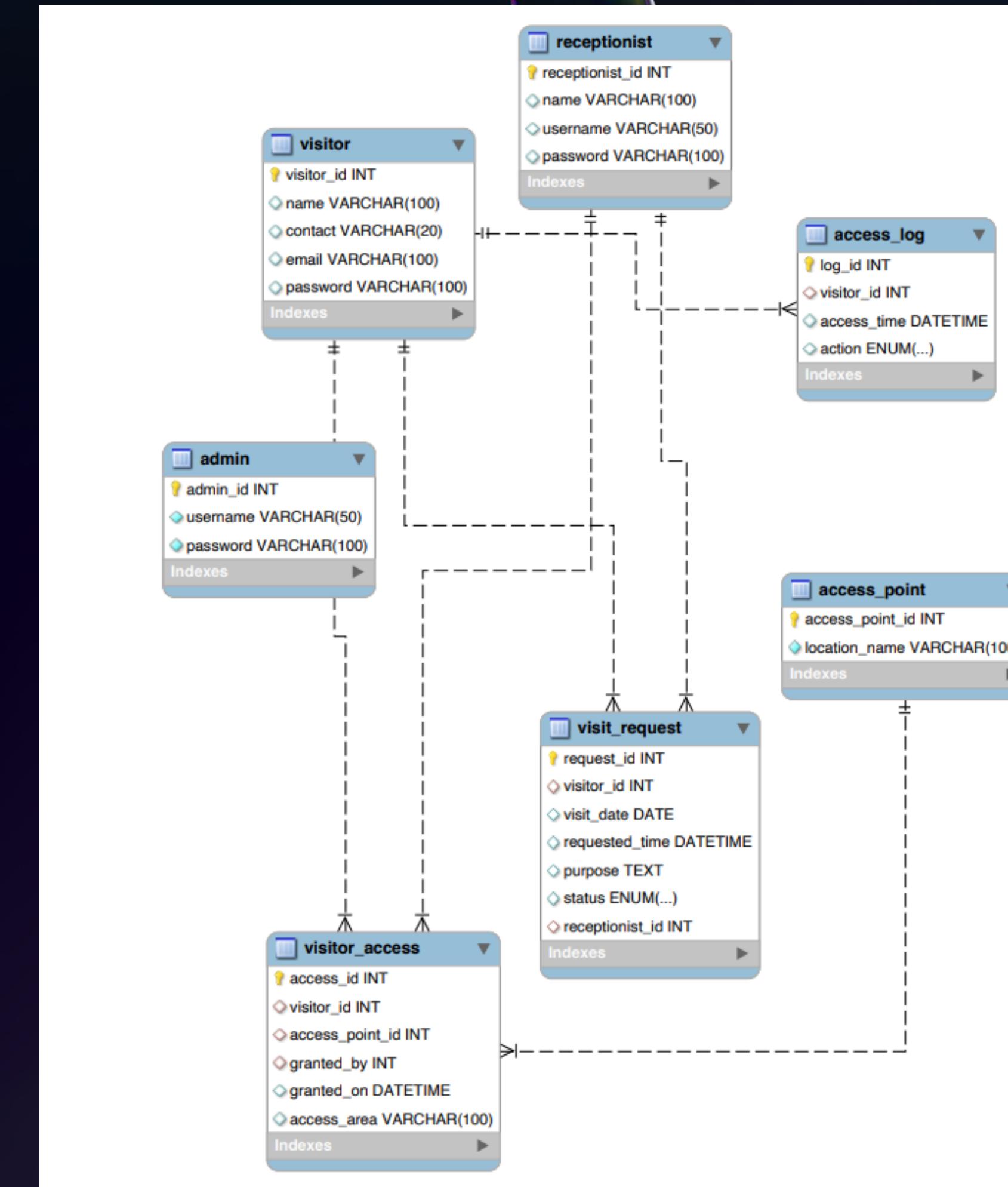
Views and processes visit requests; grants access after approval.

Visitor Request

Allows visitors to raise visit requests and get approval.

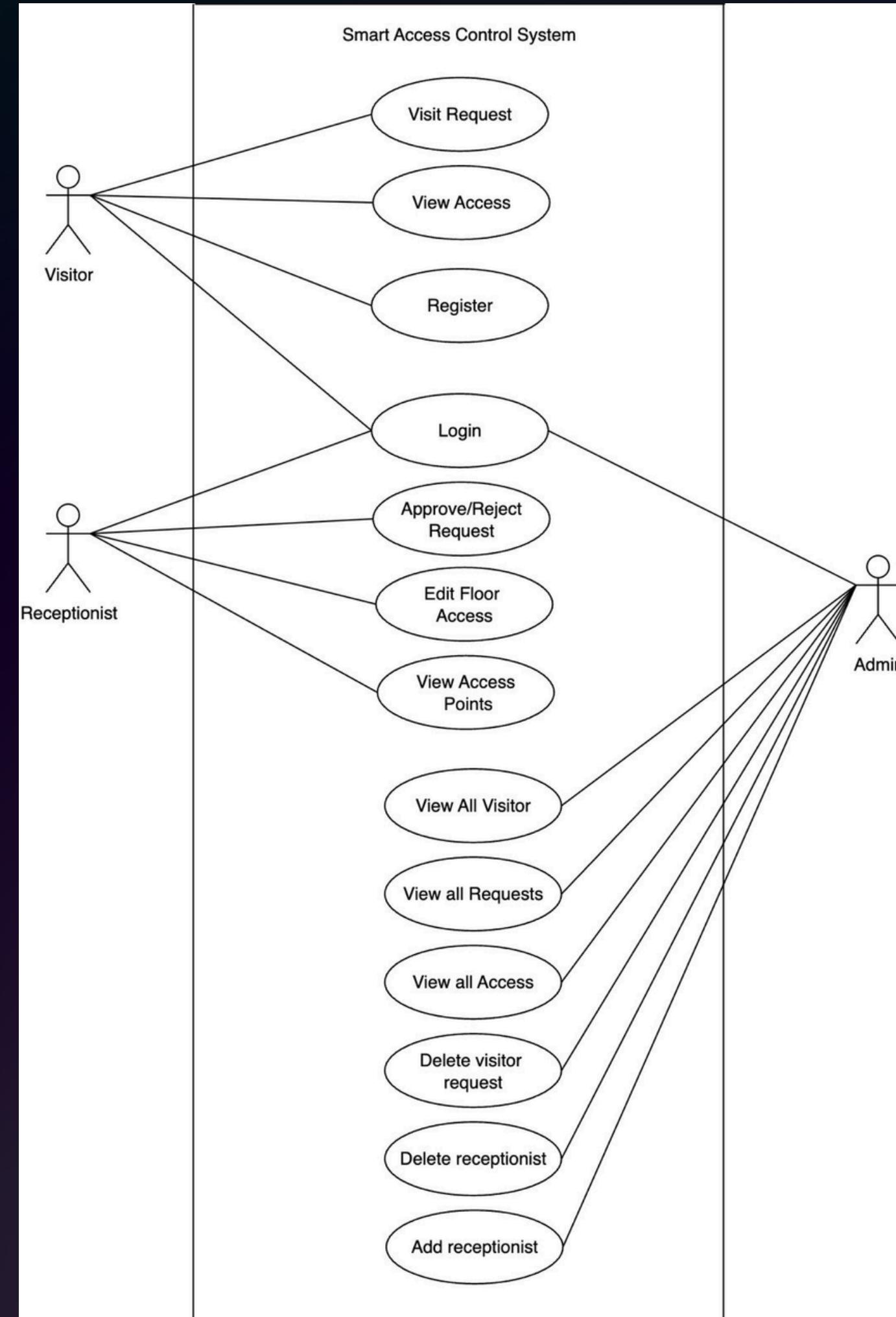
Schema Diagram

The schema represents the data structure and relationships between core entities in the Smart Access Control System. It highlights how visitor information, access permissions, and access logs are interconnected.

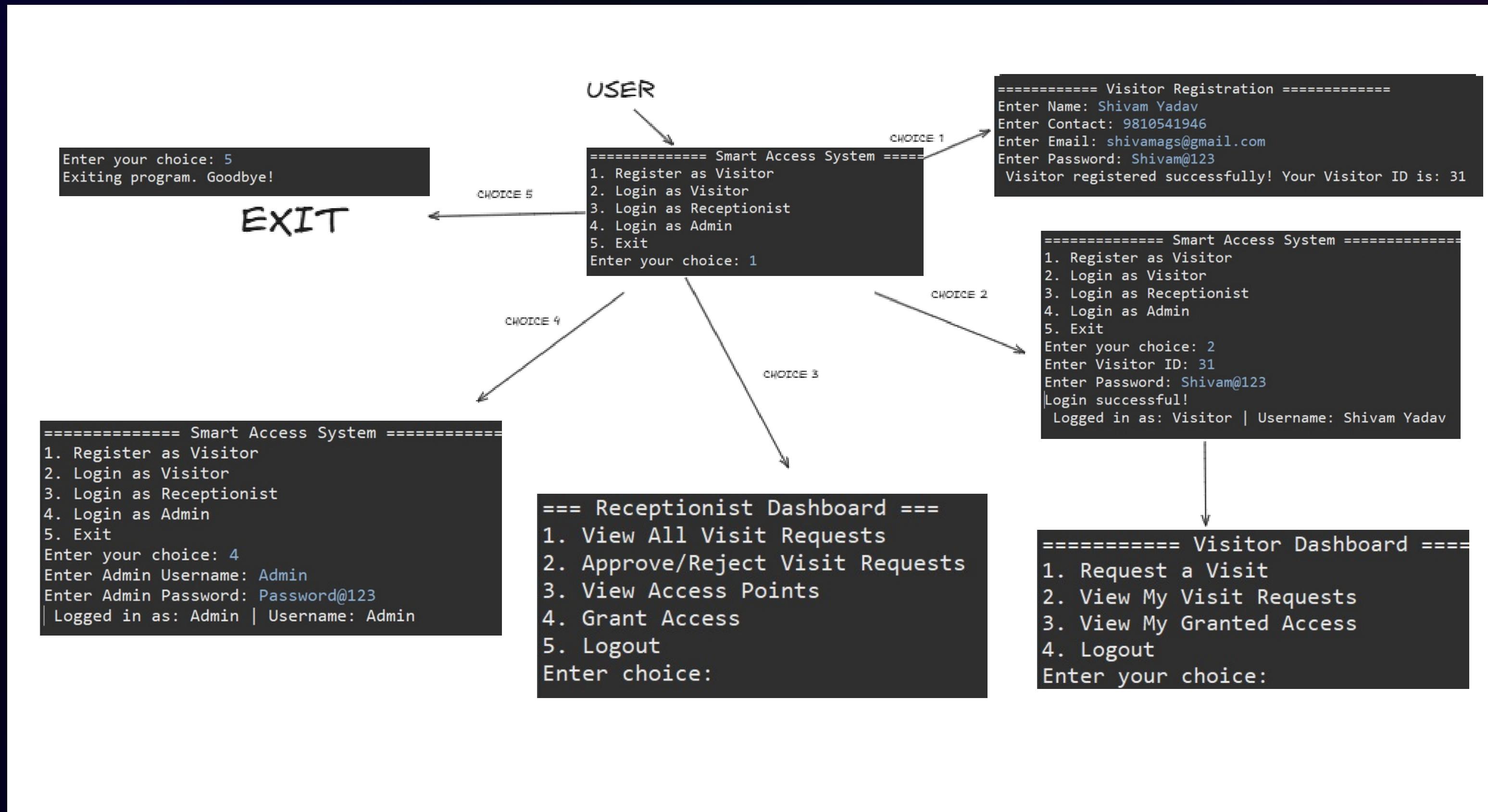


Use Case Diagram

The use case diagram illustrates the interactions between actors (users) and the system functionalities in the Smart Access Control System for Visitor Authentication. It helps visualize how visitors and administrators interact with the system.



WIREFRAME



PROJECT OVERVIEW

===== Smart Access System =====

1. Register as Visitor
2. Login as Visitor
3. Login as Receptionist
4. Login as Admin
5. Exit

Enter your choice: 1

===== Smart Access System =====

1. Register as Visitor
2. Login as Visitor
3. Login as Receptionist
4. Login as Admin
5. Exit

Enter your choice: 5

Exiting program. Goodbye!

===== Visitor Registration =====

Enter Name: Rohit

Enter Contact: 9823494495

Enter Email: rohit@gmail.com

Enter Password: Rohit@123

Visitor registered successfully! Your Visitor ID is: 12



MAJOR SCREENSHOTS

```
===== Smart Access System =====
1. Register as Visitor
2. Login as Visitor
3. Login as Receptionist
4. Login as Admin
5. Exit
Enter your choice: 2
Enter Visitor ID: 12
Enter Password: Rohit@123
Login successful!
Logged in as: Visitor | Username: Rohit
```

```
===== Visitor Dashboard =====
1. Request a Visit
2. View My Visit Requests
3. View My Granted Access
4. Logout
Enter your choice: 1
Enter Visit Date (DD-MM-YYYY): 14-07-2025
Enter purpose for visit: training
Visit Request Created.
```



MAJOR SCREENSHOTS

```
===== Visitor Dashboard =====
1. Request a Visit
2. View My Visit Requests
3. View My Granted Access
4. Logout
Enter your choice: 1
Enter Visit Date (DD-MM-YYYY): 2025-08-18
Invalid ! Please enter the date in your local time format: DD-MM-YYYY.
```

```
===== Visitor Dashboard =====
1. Request a Visit
2. View My Visit Requests
3. View My Granted Access
4. Logout
Enter your choice: 2
| 
--- Your Visit Requests ---
+-----+-----+-----+
| Request ID | Visit Date | Purpose           | Status   |
+-----+-----+-----+
| 4          | 14-07-2025  | training          | Pending   |
+-----+-----+-----+
```

```
===== Visitor Dashboard =====
1. Request a Visit
2. View My Visit Requests
3. View My Granted Access
4. Logout
Enter your choice: 4
| Logged out from session: Visitor
```



RECEPTIONIST DASHBOARD

===== Smart Access System =====

1. Register as Visitor
2. Login as Visitor
3. Login as Receptionist
4. Login as Admin
5. Exit

Enter your choice: 3

Enter Receptionist Username: Priya_r

Enter Password: 123

| Logged in as: Receptionist | Username: Priya_r

Enter choice: 1

--- All Visit Requests ---

Request ID	Visitor ID	Name	Visit Date	Status
1	1	Aarav Mehta	NA	Approved
2	10	Ankit	15-07-2025	Approved
3	11	Ankit	15-07-2025	Rejected
4	12	Rohit	14-07-2025	Approved

Enter choice: 4

Enter Request ID: 21

Enter Access Area (e.g., Floor 2): Floor 2

! Access is already granted to this visitor for the selected area.

== Receptionist Dashboard ==

1. View All Visit Requests
2. Approve/Reject Visit Requests
3. View Access Points
4. Grant Access
5. Logout

Enter choice: 2

Enter Request ID: 4

Enter new status (APPROVED/REJECTED): Approved

Visit Request Status Updated.

↗ QR Code generated at: C:\Users\Lenovo\OneDrive\Documents\SmartAccessSystem (9)\SmartAccessSystem (5)\SmartAccessSystem\qrcodes\QR_4.png

↗ QR Code path saved in database.

? QR Email Sent to rohit@gmail.com



ADMIN DASHBOARD

===== Smart Access System =====

1. Register as Visitor
2. Login as Visitor
3. Login as Receptionist
4. Login as Admin
5. Exit

Enter your choice: 4

Enter Admin Username: Admin

Enter Admin Password: password123

Logged in as: Admin | Username: Admin

Enter choice: 5

--- Add New Receptionist ---

Enter Name: Shrey

Enter Username: Shrey_a

Enter Password: Shrey@123

Receptionist added successfully.

Enter choice: 6

--- Visitor Statistics ---

--- Visitor Statistics ---

Metric	Count
Total Visitors	2
Pending Requests	0
Approved Requests	1
Rejected Requests	0

== Admin Dashboard ==

1. View All Visit Requests
2. View Access Points of Granted Requests
3. Delete Visitor
4. Delete Receptionist
5. Add Receptionist
6. Show Visitor Statistics
7. Logout

Enter choice: 1

Request ID	Visitor ID	Visit Date	Purpose	Status
1	1	NA	train	Approved
2	10	15-07-2025	training	Approved
3	11	15-07-2025	Training	Rejected
4	12	14-07-2025	training	Approved

Enter choice: 3

Enter Visitor ID to delete: 11

Visitor Details:

ID: 11

Name: Ankit

Purpose: Training

Are you sure you want to delete this visitor? (Y/N): Y

Visitor deleted successfully.