**Objective:**

The main aim of the application is to facilitate NYSC corpers in finding suitable accommodation easily when they relocate to a new state for their service year.

Database Schema

User Table:

This table stores information about users who register on the platform.

| Field | Type | Description |
| --- | --- | --- |
| user\_id | INTEGER | Primary Key, Auto-incremented |
| username | VARCHAR(100) | Unique username |
| email | VARCHAR(100) | Unique email address |
| password | VARCHAR(100) | Hashed password |
| role | ENUM | Role of the user (corper/property owner/admin) |

Property Table:

This table stores information about properties listed on the platform by property owners.

| Field | Type | Description |
| --- | --- | --- |
| property\_id | INTEGER | Primary Key, Auto-incremented |
| owner\_id | INTEGER | Foreign Key to User table |
| title | VARCHAR(255) | Title of the property |
| description | TEXT | Description of the property |
| location | VARCHAR(255) | Location of the property |
| rent\_amount | DECIMAL(10,2) | Rent amount per month |
| amenities | TEXT | List of amenities separated by commas |

Inspection Request Table:

This table stores information about corpers' requests to inspect properties.

| Field | Type | Description |
| --- | --- | --- |
| request\_id | INTEGER | Primary Key, Auto-incremented |
| property\_id | INTEGER | Foreign Key to Property table |
| user\_id | INTEGER | Foreign Key to User table |
| request\_datetime | DATETIME | Date and time of inspection request |

Review Table:

This table stores reviews and ratings provided by users for properties.

| Field | Type | Description |
| --- | --- | --- |
| review\_id | INTEGER | Primary Key, Auto-incremented |
| property\_id | INTEGER | Foreign Key to Property table |
| user\_id | INTEGER | Foreign Key to User table |
| rating | INTEGER | Rating given by the user (1-5) |
| comment | TEXT | Comment provided by the user |

**User Stories:**

As a NYSC corper, I want to be able to create an account on the platform so that I can start searching for accommodations.

As a property owner, I want to list my property on the platform with all the necessary details to attract potential renters.

As a corper, I want to be able to search for properties based on my preferences (location, price, amenities).

As a corper, I want to schedule a property inspection with an agent through the platform.

As a user, I want to be able to rate and review properties I have visited to help other corpers make informed decisions.

**Key Features:**

User Registration and Authentication:

Allow corpers to create accounts and log in securely.

**Property Listing:**

Property owners can list their accommodations for rent, providing details such as location, rent amount, amenities, etc.

**Property Search and Filtering:**

Corpers can search for properties based on location, price range, amenities, etc.

**Request Inspection:**

Corpers can request to inspect a property by scheduling a visit with an agent.

**Rating and Reviews:**

Users can rate and review properties they have visited, providing feedback for other corpers.

**Admin Panel:**

An admin panel to manage user accounts, property listings, reviews, etc.