User Model

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto-generated | Unique identifier |
| name | String | NOT NULL | User’s full name |
| contactNumber | String | NOT NULL | Contact number |
| dateOfBirth | Date | NOT NULL | Birth date |
| email | String | NOT NULL | Email address |
| password | String | NOT NULL | Hashed password |
| barangay | String | NOT NULL | Barangay name |
| isVerified | Boolean | NOT NULL, Default false | Verification status |
| role | String | NOT NULL, Default “user” | User role |
| isActive | Boolean | NOT NULL, Default true | Account status |
| notifications | Array[Object] |  | User notifications |
| unreadNotifications | Number | Default 0 | Unread count |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

User Verification Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | User reference |
| uniqueString | String | NOT NULL | Verification string |
| createdAt | Date | NOT NULL | Creation time |
| expireAt | Date | NOT NULL | Expiration time |

OTP Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | User reference |
| otp | String | NOT NULL | OTP code |
| createdAt | Date | NOT NULL, Auto-generated | Creation time |
| expireAt | Date | NOT NULL, Auto-generated | Expiration time |

Barangay Clearance Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| name | String | NOT NULL | Applicant name |
| email | String | NOT NULL | Email address |
| barangay | String | NOT NULL | Barangay name |
| purpose | String | NOT NULL | Purpose of clearance |
| contactNumber | String | NOT NULL | Contact number |
| dateOfIssuance | Date |  | Issue Date |
| isVerified | Boolean | NOT NULL, Default false | Verification status |
| status | String | ENUM, Default “Pending” | Application status |
| dateApproved | Date | Default NULL | Approval date |
| dateCompleted | Date | Default NULL | Completion date |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Barangay Indigency Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| name | String | NOT NULL | Applicant name |
| email | String | NOT NULL | Email address |
| barangay | String | NOT NULL | Barangay name |
| purpose | String | NOT NULL | Purpose of clearance |
| contactNumber | String | NOT NULL | Contact number |
| dateOfIssuance | Date |  | Issue Date |
| isVerified | Boolean | NOT NULL, Default false | Verification status |
| status | String | ENUM, Default “Pending” | Application status |
| dateApproved | Date | Default NULL | Approval date |
| dateCompleted | Date | Default NULL | Completion date |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Business Clearance Shcema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| ownerName | String | NOT NULL | Business owner |
| businessName | String | NOT NULL | Business name |
| barangay | String | NOT NULL | Barangay name |
| businessType | String | NOT NULL | Type of business |
| businessNature | String | NOT NULL, ENUM | Nature |
| ownerAddress | String | NOT NULL | Address |
| email | String | NOT NULL | Email address |
| contactNumber | String | NOT NULL | Contact number |
| dtiSecRegistration | String | NOT NULL | DTI registration |
| mayorsPermit | String | NULLABLE | Mayors permit |
| leaseContract | String | NULLABLE | Lease contract |
| barangayClearance | String | NOT NULL | Barangay clearance number |
| fireSafetyCertificate | String | NULLABLE | Safety certificate |
| sanitaryPermit | String | NULLABLE | Sanitary permit |
| validId | String | NOT NULL | Valid ID number |
| status |  | ENUM, Default “Pending” | Application Status |
| dateApproved | Date | Default NULL | Approval date |
| dateCompleted | Date | Default NULL | Completion date |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Cedula Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| name | String | NOT NULL | Applicant name |
| dateOfBirth | Date | NOT NULL | Birth date |
| placeOfBirth | String | NOT NULL | Place of birth |
| barangay | String | NOT NULL | Barangay name |
| civilStatus | String | NOT NULL, ENUM | Civil status |
| occupation | String | NOT NULL | Applicant occupation |
| employerName | String | NULLABLE | Name of employer |
| employerAddress | String | NULLABLE | Employe address |
| tax | Number | NOT NULL | Tax |
| status | String | ENUM, Default “Pending” | Application status |
| dateApproved | Date | Default NULL | Approval date |
| dateCompleted | Date | Default NULL | Completion date |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Incident Report Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| category | String | NOT NULL | Incident category |
| subcategory | String | NOT NULL | Sub-category |
| date | Date | NOT NULL | Date of incident |
| time | String | NOT NULL | Incident time |
| location | String | NOT NULL | Location of incident |
| description | String | NOT NULL | Description of incident |
| reporterContact | String | NOT NULL | Reporter contact |
| status | String | NOT NULL, ENUM | Incident status |
| barangay | String | NOT NULL | Brangay name |
| evidenceFile | Object | NOT NULL | Evidence details |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Blotter Report Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| complainantName | String | NOT NULL | Name of complainant |
| complainantAge | String | NOT NULL | Age of complainant |
| complainantGender | String | NOT NULL, ENUM | Gender |
| complainantCivilStatus | String | NOT NULL, ENUM | Civil status |
| complainantAddress | String | NOT NULL | Complainant address |
| complainantContact | String | NOT NULL | Contact number |
| respondentName | String | NOT NULL | Respondent name |
| respondentAddress | String | NOT NULL | Respondent address |
| respondentContact | String | NOT NULL | Respondent contact |
| incidentDate | Date | NOT NULL | Date of incident |
| incidentTme | String | NOT NULL | Time of incident |
| incidentLocation | String | NOT NULL | Location of incident |
| incidentType | String | NOT NULL | Type of incident |
| narrative | String | NOT NULL | Incident description |
| motive | String | NULLABLE | Motive |
| witnessName | String | NULLABLE | Witness name |
| witnessContact | String | NULLABLE | Witness contact |
| evidenceFile | Object | NOT NULL | Evidence details |
| actionRequested | String | NOT NULL, ENUM | Action type |
| status | String | ENUM, Defaut “Pending” | Status of report |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Transaction History Shcema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| residentName | String | NOT NULL | Name of resident |
| requestedDocument | String | NOT NULL | Document requested |
| dateRequested | Date | NOT NULL | Request date |
| dateApproved | Date | Default NULL | Approval date |
| dateCompleted | Date | Default NULL | Completion date |
| barangay | String | NOT NULL | Brangay name |
| action | String | NOT NULL | Action type |
| status | String | NOT NULL ENUM | Status of transation |
| approvedBy | String | Default NULL | Approved by |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Log Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| userId | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| action | String | NOT NULL | Action type |
| details | String | NOT NULL | Log details |
| type | String | NOT NULL | Type of log |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Officials Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| createdBy | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| name | String | NOT NULL | Name of official |
| position | String | NOT NULL | Position |
| contactNumber | String | NOT NULL | Contact Number |
| Image | String | NOT NULL | Image |
| barangay | String | NOT NULL | Brangay name |
| status | String | ENUM, Default “Active” | Status of official |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |

Upcoming Events Schema

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Constraints | Description |
| \_id | ObjectId | Primary Key, Auto generated | Unique identifier |
| createdBy | ObjectId | NOT NULL, Foreign Key (User) | Reference to User |
| title | String | NOT NULL | Title of event |
| description | String | NOT NULL | Description of event |
| date | Date | NOT NULL | Date of event |
| time | String | NOT NULL | Time of event |
| barangay | String | NOT NULL | Barangay name |
| location | String | NOT NULL | Location of event |
| createdAt | Date | Auto-generated | Creation timestamp |
| updatedAt | Date | Auto-generated | Update timestamp |