**Table 1: User Profile**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| user\_id | Primary Key (PK) |  |
| address | CharField | Max length: 255 |
| mobile\_number | CharField | Max length: 20, Default: "None" |

**Table 3: Bin**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| bin\_id | Primary Key (PK) |  |
| title | CharField | Max length: 100 |
| size | CharField | Max length: 50 |
| capacity | CharField | Max length: 50 |
| description | TextField |  |
| image | ImageField | Upload to 'event\_images/', Null: True, Blank: True |

**Table 4: Bin Event**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| bin\_id | Primary Key (PK) |  |
| title | CharField | Max length: 100 |
| size | CharField | Max length: 50 |
| capacity | CharField | Max length: 50 |
| description | TextField |  |
| image | ImageField | Upload to 'bin\_images/', Null: True, Blank: True |

**Table 5: Bin Booking**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| booking\_id | Primary Key (PK) | Unique |
| user\_id | Foreign Key (FK) | References User (user\_id), on\_delete: CASCADE |
| bin\_id | Foreign Key (FK) | References Bin (bin\_id), on\_delete: CASCADE |
| house\_number | CharField | Max length: 50 |
| landmark | CharField | Max length: 100, Default: None |
| pin\_code | CharField | Max length: 10 |
| bin\_size | CharField | Max length: 20 |
| bin\_capacity | CharField | Max length: 20 |
| collection\_period | CharField | Max length: 20, Default: None |

**Table 6: Event Booking**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| booking\_id | Primary Key (PK) |  |
| user\_id | Foreign Key (FK) | References User (user\_id), on\_delete: CASCADE |
| event\_id | Foreign Key (FK) | References Event (event\_id), on\_delete: CASCADE |
| attendees | PositiveIntegerField |  |

**Table 7: Booked Bin Status**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| status\_id | Primary Key (PK) |  |
| booking\_id | Foreign Key (FK) | References Bin Booking (booking\_id), on\_delete: CASCADE |
| fill\_level | PositiveIntegerField | Choices: 20, 40, 50, 70, 90 |
| created\_at | DateTimeField | Auto\_now\_add: True |
| updated\_at | DateTimeField | Auto\_now: True |

**Table : EventDetails**

| Field Name | Data Type | Constraints |
| --- | --- | --- |
| event\_id | Primary Key (PK) |  |
| user\_id | Foreign Key (FK) | References User (user\_id), on\_delete: CASCADE |
| name | CharField | Max length: 200 |
| description | TextField |  |
| date | DateField |  |
| time | TimeField |  |
| location | CharField | Max length: 200 |
| max\_participants | IntegerField | Default: 0 |
| image | ImageField | Upload to 'event\_images/', Null: True, Blank: True |

**Table : EventCategory**

| Field Name | Data Type | Constraints |
| --- | --- | --- |
| category\_id | Primary Key (PK) |  |
| event\_id | Foreign Key (FK) | References EventDetails (event\_id), on\_delete: CASCADE |
| category | CharField | Max length: 50 |

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| booking\_id | Primary Key (PK) | Unique |
| user\_id | Foreign Key (FK) | References User (user\_id), on\_delete: CASCADE |
| bin\_id | Foreign Key (FK) | References Bin (bin\_id), on\_delete: CASCADE |
| house\_number | CharField | Max length: 50 |
| landmark | CharField | Max length: 100, Default: None |
| pin\_code | CharField | Max length: 10 |
| bin\_size | CharField | Max length: 20 |
| bin\_capacity | CharField | Max length: 20 |
| collection\_period | CharField | Max length: 20, Default: None |

**Table 2: BinBookingStatus**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| status\_id | Primary Key (PK) |  |
| booking\_id | Foreign Key (FK) | References BinBookingDetails (booking\_id), on\_delete: CASCADE |
| fill\_level | PositiveIntegerField | Choices: 20, 40, 50, 70, 90 |
| created\_at | DateTimeField | Auto\_now\_add: True |
| updated\_at | DateTimeField | Auto\_now: True |

**Table: User**

| **Field Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| user\_id | Primary Key (PK) |  |
| username | CharField | Max length: 150 |
| password | CharField | Max length: 128 |
| role | CharField | Max length: 50 |