

# INTRODUCTION:

## ESTATE MANAGEMENT

Estate management is the comprehensive administration, operation, and oversight of real estate properties and assets. Estate management encompasses the administration and supervision of real estate properties across various sectors, including government, private organizations, and residential buildings categorized into Types 1 to 8 quarters.

When considering specific criteria such as government employees, elite establishments, and private entities, estate management can be tailored to meet the unique needs and expectations of each category:

- **Government Employees:** Estate management for government employees ensures safe, convenient, and compliant living spaces. Properties are secure, private, and close to government offices. Regular maintenance and good tenant communication keep standards high, providing a comfortable living environment for government employees and their families.
- **Elite Establishment:**
- **Private Entities:** Estate management for private entities involves managing privately-owned properties with a focus on practical and personalized care. It includes maintaining the property, handling financial aspects efficiently, and adapting services to the owner's specific needs. The aim is to ensure smooth operations, preserve property value, and deliver a tailored management experience that suits the owner's preferences.

# ESTATE MANAGEMENT SYSTEM

In this project the Estate Management has been divided into three modules named as:

➤ **ASSETS MANAGEMENT: -**

Keep track of properties and their values. This includes scheduling maintenance and repairs, as well as getting reports on asset performance.

➤ **ALLOTTMENT OF ASSETS:-**

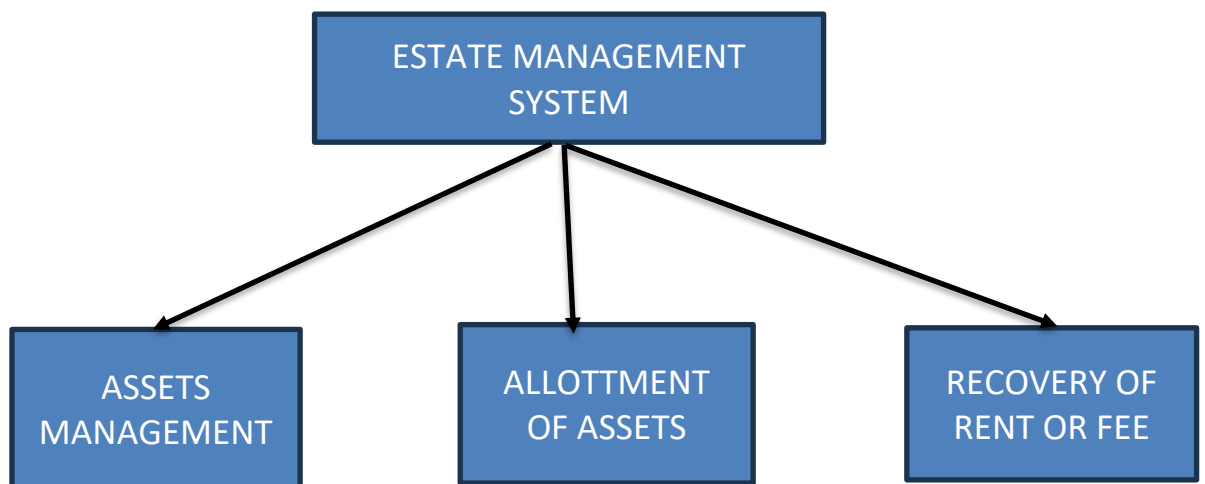
Manage allocation of housing to individuals or families. This involves tracking availability and occupancy of quarters, as well as automating the allocation process.

➤ **RECOVERY OF RENT OR FEE:-**

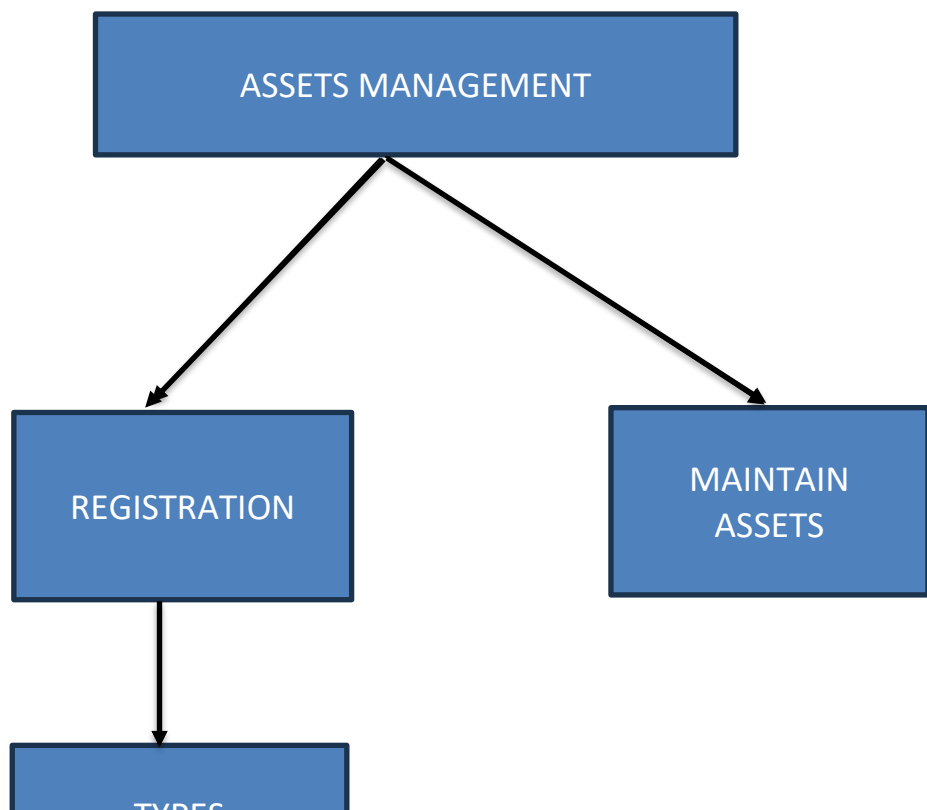
Calculate and collect rent from tenants. This includes tracking payments and debts, as well as getting reports on financial performan

# DATA FLOW DIAGRAM

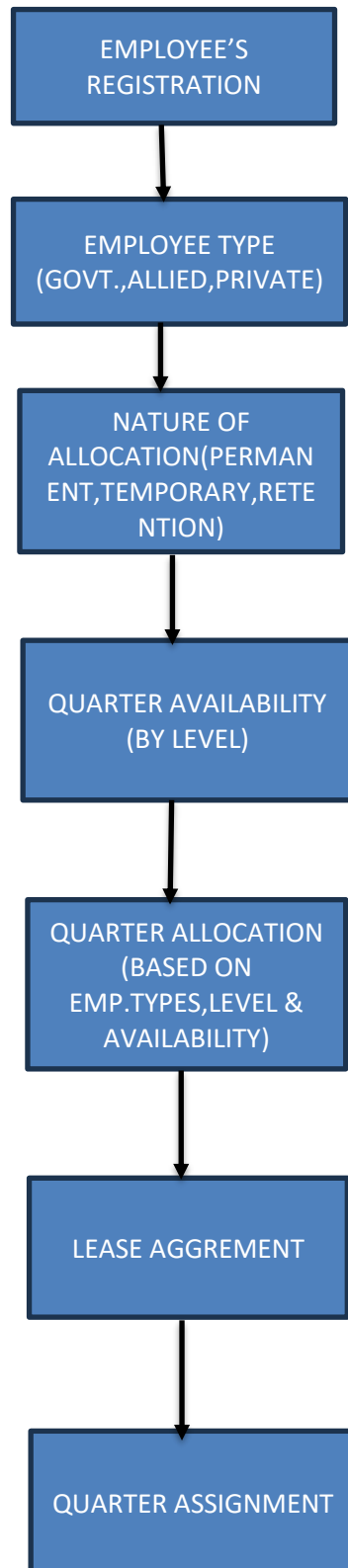
## LEVEL 0



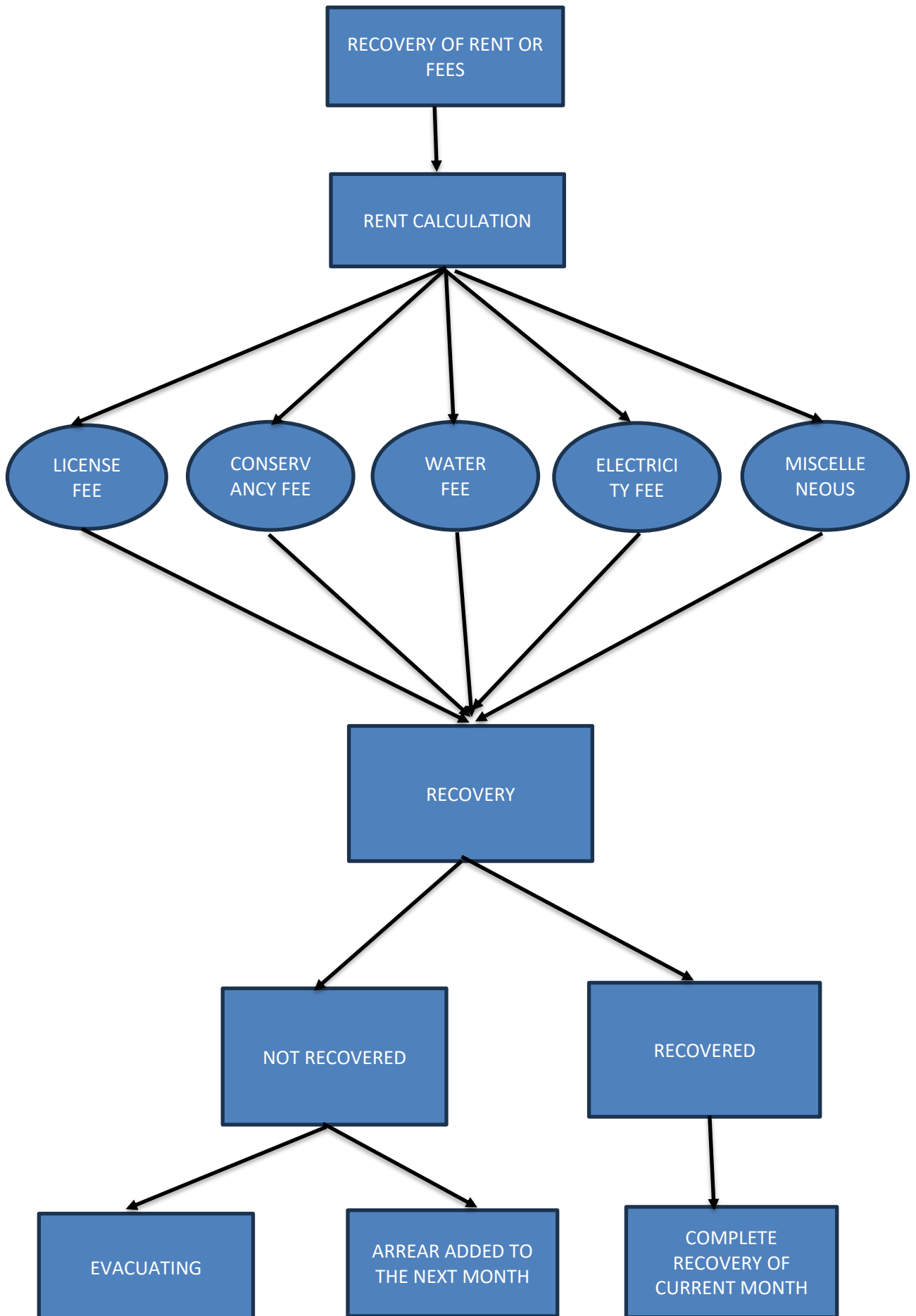
## LEVEL 1



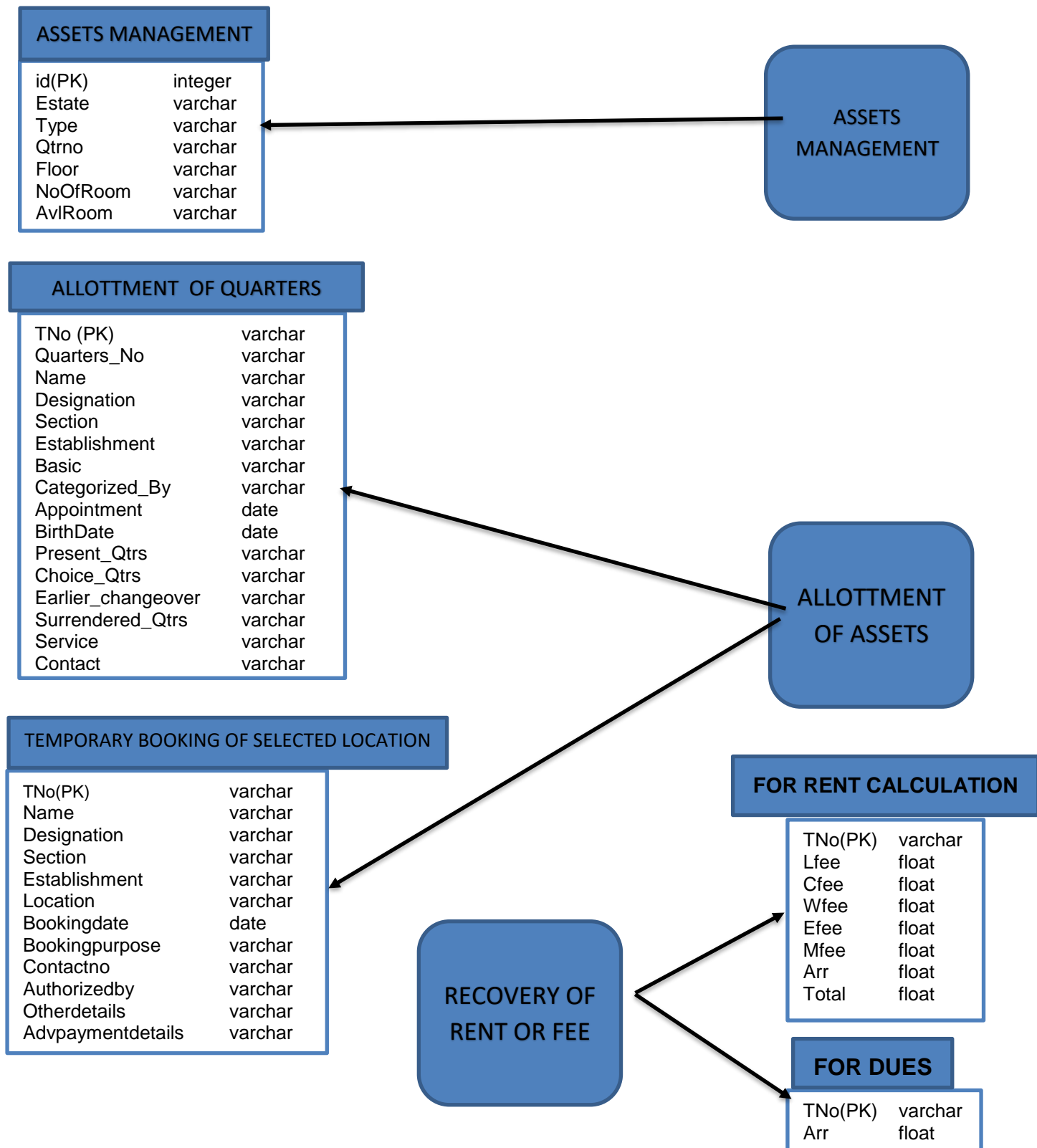
## **LEVEL 2**



### LEVEL 3



# CONCEPTUAL SCHEMA



## ENTITIES AND ATTRIBUTES

This section of the document explains the entities used in the project, their attributes and how they will work together. Basically, this is intended to make the design more easy and understandable for everyone. By defining these entities and their attributes, and showing how they interconnect, this section aims to clarify the system's design. It ensures that all components are easily understood and efficiently managed, providing a comprehensive overview that simplifies the overall design for everyone involved.

### ENTITIES:-

- ASSETS MANAGEMENT
- ALLOTTMENT OF ASSETS
- RECOVERY OF RENT OR FEE

### ASSETS MANAGEMENT:-

Asset management is the systematic process of developing, operating, maintaining, and selling assets in a cost-effective manner. It includes two main components:

- i. Registration: Categorizing and tracking assets by assigning them specific types, usually Type 1 to 8.
- ii. Maintenance: Ensuring assets remain functional and efficient through regular inspections, repairs, and upgrades.

### ATTRIBUTES:-

Name	Data Type	Type
id	integer	Primary key attribute
Estate	varchar	Non_key attribute
Type	varchar	Non_key attribute
Qtrno	varchar	Non_key attribute
Floor	varchar	Non_key attribute
NoOfRoom	varchar	Non_key attribute
AvlRoom	varchar	Non_key attribute

## ALLOTTMENT OF ASSETS:-

Allotment of Assets involves the distribution and assignment of assets to various departments, teams, or individuals within an organization. This process ensures that resources are allocated efficiently to meet operational needs and support organizational goals.

i. Allotment Of Quarters: Allotment of Quarters refers to the process of assigning residential spaces (quarters) within a property or estate to individuals or families. This is typically done based on criteria such as need, eligibility, and availability.

ii. Temporary Booking Of Selected Location: Temporary Booking of Selected Location involves reserving a specific property or part of an estate for short-term use. This could be for temporary residents, guests, or special events.

## ATTRIBUTES:-

### **ALLOTTMENT OF QUARTERS**

<b>Name</b>	<b>Data Type</b>	<b>Type</b>
TNo	varchar	Primary_key attribute
Quarters_No	varchar	Non_key attribute
Name	varchar	Non_key attribute
Designation	varchar	Non_key attribute
Section	varchar	Non_key attribute
Establishment	varchar	Non_key attribute
Basic	varchar	Non_key attribute
Categorized_By	varchar	Non_key attribute
Appointment	date	Non_key attribute
BirthDate	date	Non_key attribute
Present_Qtrs	varchar	Non_key attribute
Choice_Qtrs	varchar	Non_key attribute
Earlier_changeover	varchar	Non_key attribute
Surrendered_Qtrs	varchar	Non_key attribute
Service	varchar	Non_key attribute
Contact	varchar	Non_key attribute



## TEMPORARY BOOKING OF SELECTED LOCATION

Name	Data Type	Type
TNo	varchar	Primary_key attribute
Name	varchar	Non_key attribute
Designation	varchar	Non_key attribute
Section	varchar	Non_key attribute
Establishment	varchar	Non_key attribute
Location	varchar	Non_key attribute
Bookingdate	date	Non_key attribute
Bookingpurpose	varchar	Non_key attribute
Contactno	varchar	Non_key attribute
Authorizedby	varchar	Non_key attribute
Otherdetails	varchar	Non_key attribute
Advpaymentdetails	varchar	Non_key attribute

### RECOVERY OF RENT OR FEE:-

- License Fee: Charge for the right to use or occupy a property, based on size and location.
- Conservancy Fee: Payment for maintenance of common areas, covering cleaning and upkeep.
- Water Fee: Cost based on water consumption, measured by meters.
- Electricity Fee: Charge based on electricity usage, measured by meters.
- Miscellaneous Fees: Additional charges for other services or amenities, such as parking, garbage collection, or administrative fees.

### Dues and Defaulters:-

- Dues: Any unpaid fees are recorded as outstanding amounts.

- Defaulter Form: Used to identify and manage individuals or entities that have not paid their dues. It includes details of the outstanding amount and actions required to settle the payment.

## **ATTRIBUTES:-**

### **FOR RENT CALCULATION**

<b>Name</b>	<b>Data Type</b>	<b>Type</b>
TNo	varchar	Primary_key attribute
Lfee	float	Non_key attribute
Cfee	float	Non_key attribute
Wfee	float	Non_key attribute
Efee	float	Non_key attribute
Mfee	float	Non_key attribute
Arr	float	Non_key attribute
Total	float	Non_key attribute

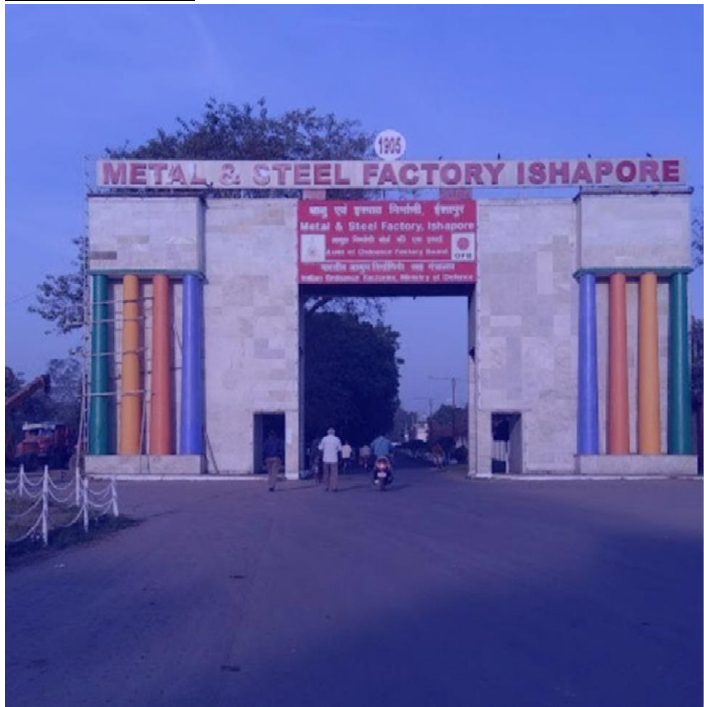
### **FOR DUES**

<b>Name</b>	<b>Data Type</b>	<b>Type</b>
TNo	varchar	Primary_key attribute
Arr	float	Non_key attribute

# ABOUT SOFTWARE (SCREENSHOTS) :-

An estate management project for software involves creating a comprehensive digital solution to streamline and enhance the management of properties. This software is designed to assist estate managers and tenants by offering a range of features to improve efficiency, communication, and overall property management.

## Login Page:



Metal and Steel Factory

Log In

Admin

Email


Password


Log in


- If and only if the user exists in DB and password entered is correct, he/she will be able to login, otherwise appropriate error message is displayed.


## Asset Management:

 **METAL AND STEEL FACTORY** Logout

 Asset Management

 Temporary Booking

 Allotment Of Quarters

 Recovery

Add Asset

Id	Estate	Type	QtrNo	Floor	Total Rooms	Available Rooms	Action
1	Park Estate	3	5	4	8	6	<div>Edit</div> <div>Delete</div>
7	OWL Estate	5	26	4	10	3	<div>Edit</div> <div>Delete</div>
13	EastLand Estate	5	65	4	16	5	<div>Edit</div> <div>Delete</div>

- After Login the subsequent Asset Management page will be opened in which Admin Keep track of properties and their values. This includes scheduling maintenance and repairs, as well as getting reports on asset performance.

### Temporary Booking of Selected Location: (Form)

- Temporary booking of a selected location involves reserving a property or a specific space within a property for short

### Display Details

TNo	Name	Designation	Section	Establishment	Location	Bookingdate	Bookingpurpose	Contact no	Authorizedby	Otherdetails	Adv
205236	Priyanshu Singh	Any	Any	OWL	Booking	2024-07-26	Stay	8495623972	Self	NA	200

- After fill-up the form of Temporary Booking , the details will be shown in the Display Details

**Allotment of Quarters: (Form)**

METAL AND STEEL FACTORY

Logout

Asset Management

Temporary Booking

Allotment Of Quarters

Recovery

ALLOTTMENT OF QUARTERS

25

Shreyansh Tripathi

Any

2

OWL

23658

25000

No

Date of Appointment:

28-07-2024

Date of Birth:

01-01-2000

10

26

No

Yes, 20

Yes

Submit

529631470

- The allotment of quarters involves assigning residential units to eligible employees or individuals, usually within government or corporate housing schemes.

**Details:**

METAL AND STEEL FACTORY

Logout

Asset Management

Temporary Booking

Allotment Of Quarters

Recovery

search TNo...

Form for Allotment Of Quarters

TNo	Quarters_No	Name	Designation	Section	Establishment	Basic	Categorized_By	Appointment	BirthDate	Present_Qtrs	Choice_
23658	25	Shreyansh Tripathi	Any	2	OWL	25000	ST	2024-07-28	2000-01-01	10	26

- After fill-up the form of Permanent Booking , the details will be shown in the Display Details

Recovery:

METAL AND STEEL FACTORY

Logout

Asset Management

Temporary Booking

Allotment Of Quarters

Recovery

Recovery

Rent Calculation

202563

3600

200

1200

1500

120

Submit

- It will calculate and collect rent from tenants. This includes tracking payments and debts, as well as getting reports on financial performance.

Page:

METAL AND STEEL FACTORY

Logout

Asset Management

Temporary Booking

Allotment Of Quarters

Recovery

search...

Add

Ticket No.	License fee	Conservancy fee	Water fee	Electricity fee	Misecellneous fee	Total	Due's	Action
202563	3600	200	1200	1500	120	6620	6620	<div>Paid</div> <div>Add Next Month</div> <div>Delete</div> <div>Edit</div>

- After fill-up the form of Rent Calculation , the Page will be shown in the Display Details