**19CSE202-Data Base Management System**

**REPORT**

**Team\_no:**35

**Team Members:**

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**Topic:** Township Management System

**Abstract**

**BRIEF DESCRIPTION OF OUR PROJECT:**

How we got this thought?

1. We wanted to be different from others
2. We wanted our project to be helpful for a large sector of people

Why we have chosen this township management system?

1. Nowadays there is a huge demand for gated communities in metropolitan cities
2. Many gated communities do not have formal database system for managing and maintaining the information of their flat or villa owners.

Working process of our system?

This application is designed to cater to the effective management of a gated community. the application also helps to maintain the databases of the community (apartments or villas), the revenue, family details, maintenance, parking facility, amenities, health details, etc.

The users of our project are management of the gated community, flat or villa owners.

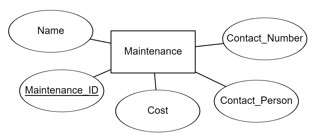
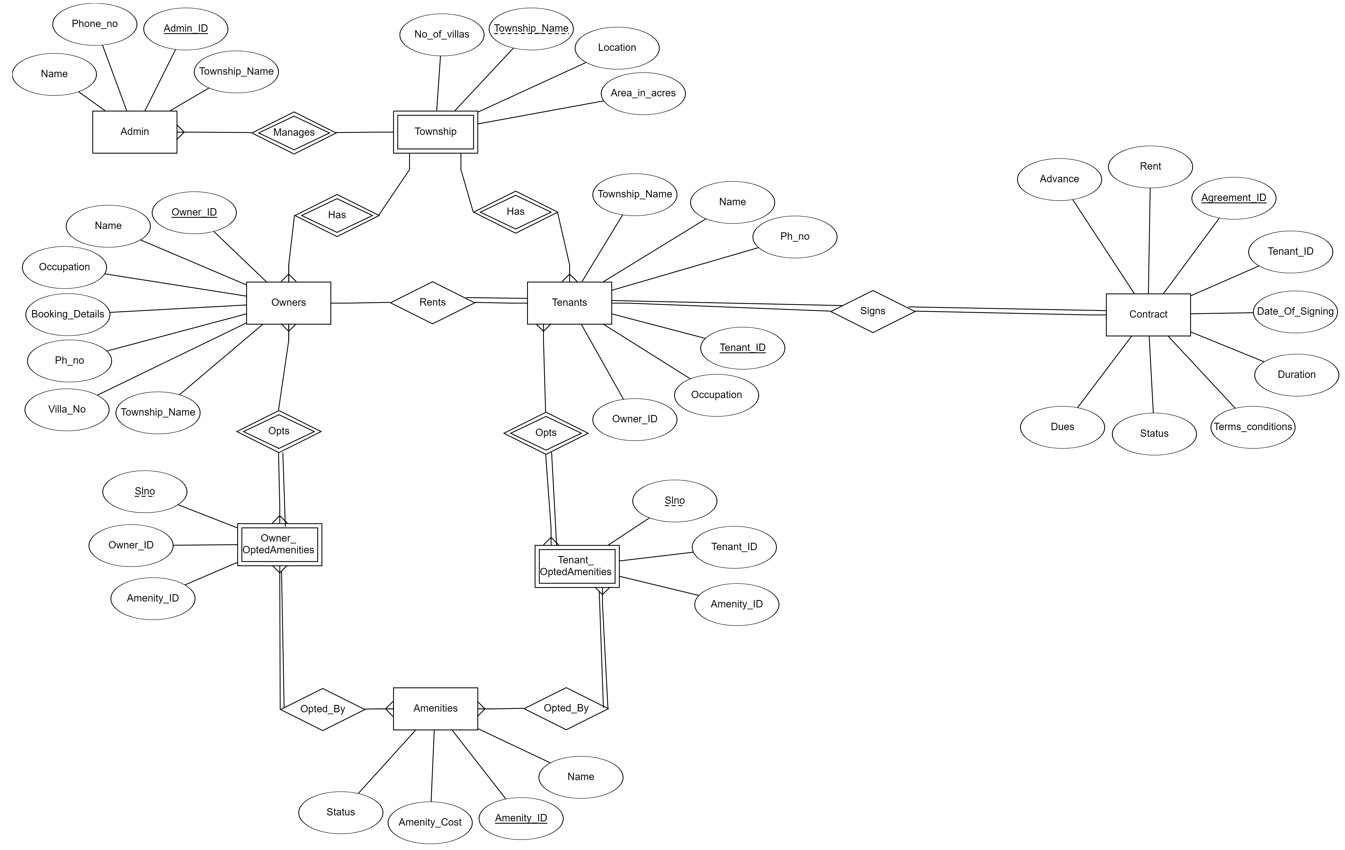
The functions of our township management system are:

1. Maintenance: owners can pay their maintenance charges (monthly or annually); owners can raise issues regarding plumbing and electrical issues.
2. Security system: video phone entry, access control doors, access to CCTV footage if required.
3. Amenities: owners can book party halls, they can also use other indoor facilities like reading room, health club, gymnasium, sports area.
4. Member details: management can change (add or delete or manage) the member details if required.

**Technologies used for the Application:**

* Front End: HTML, CSS
* Server Side: Servlets, Tomcat
* Database: Oracle SQL for creating database

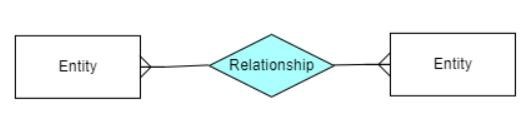
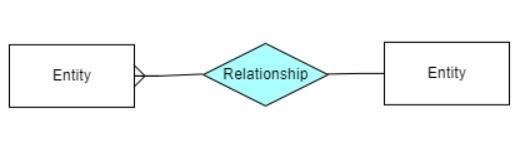
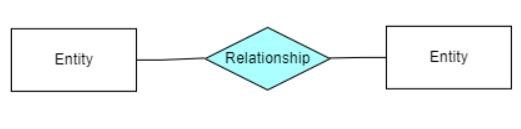
**ER Diagram/Table mapping**



**Symbolic Representation of Cardinality Ratios:**

one-to-one relationship (1:1)

many-to-one (m:1) many-to-many(m:m)



**Table Structure:**

Admin ( Admin\_ID varchar(10) PRIMARY KEY, Name varchar(20) NOTNULL, Phone\_no number(10) UNIQUE, Township\_Name varchar(20) NOTNULL)

Township (Township\_Name varchar(20) NOTNULL, No\_of\_Villas number(35) NOTNULL, Location varchar(100) NOTNULL, Area\_in\_acres number(25))

Owners ( Owner\_ID varchar(10) PRIMARY KEY, Name varchar(30) NOTNULL, Booking\_Details varchar(100) NOTNULL, Occupation

varchar(25), Ph\_no varchar(10) UNIQUE, Villa\_no varchar(10)

NOTNULL, Township\_Name varchar(20) FOREIGN

KEY(Township\_Name) REFERENCES Township(Township\_Name)) Tenants ( Tenant\_ID varchar(10) PRIMARY KEY, Name varchar(30)

NOTNULL, Ph\_no number(10)UNIQUE, Occupation varchar(25),

Township\_Name REFERENCES Township(Township\_Name), Owner\_ID REFERENCES Owners(Owner\_ID))

Contract ( Agreement\_ID varchar(10) PRIMARY KEY,

Date\_of\_Signing varchar(20) NOTNULL, Advance varchar(20) , Rent varchar(20) NOTNULL, Duration varchar(20) NOTNULL,

Terms\_Conditions varchar(150), Status varchar(20), Dues varchar(20), Tenant\_ID varchar(10) REFERENCES Tenants(Tenant\_ID))

Maintenance (Maintenance\_ID varchar(10) PRIMARY KEY, Name varchar(40) NOTNULL, Cost varchar(20) NOTNULL, Contact\_Person varchar(30) NOTNULL, Contact\_number varchar(8) UNIQUE)

Owner\_OptedAmenities (Slno varchar(5) NOTNULL, Owner\_ID

REFERENCES Owner(Owner\_ID), Amenity\_ID REFERENCES Amenities(Amenity\_ID))

Tenant\_OptedAmenities(Slno varchar(5), Tenant\_ID REFERENCES

Tenants(Tenant\_ID), Amenity\_ID REFERENCES

Amenities(Amenity\_ID))

Amenities(Amenity\_ID varchar(10) PRIMARY KEY, Name varchar(30) NOTNULL, Amenity\_Cost varchar(20) NOTNULL, Status varchar(30))

**Modules/Functionalities:**

Insert

Update

Delete