Object Oriented Programming

MINI PROJECT

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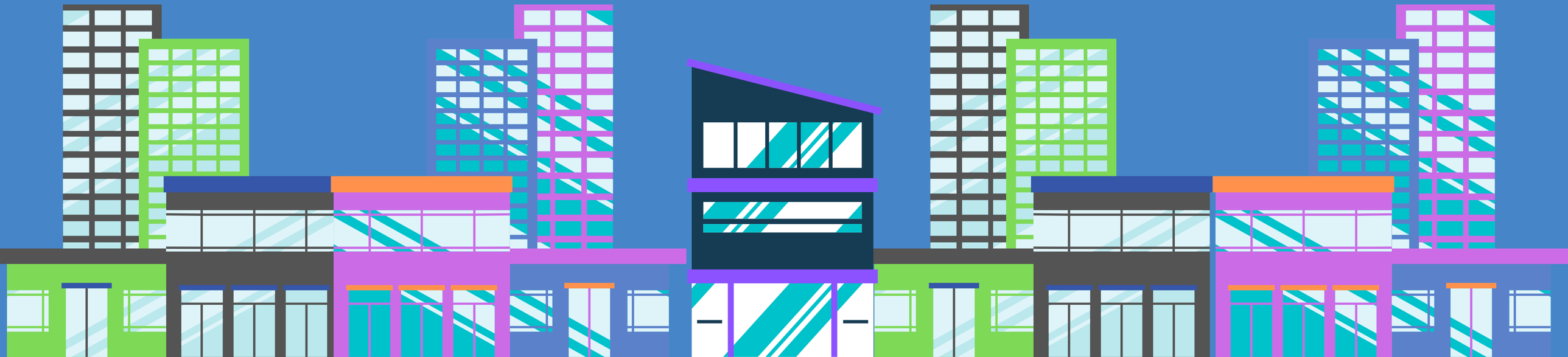
SOCIETY MANAGEMENT

Our project is an extension of existing society management systems. This system tackles the data processing and organization in the backend i.e. it is meant for use in the society office.



SCOPE

We will be able to create a system which presents the functionalities of the current society management systems in a more organised way. It will allow us to draw from existing systems and improve them.

PRELIMINARY FINDINGS

The current management systems used by the society are good but not good enough. They lack organization and efficiency. The data is cluttered and is divided into modules which share common data but there is no physical link in the application to connect them. We need to come up with a portal which is one stop for all. Also, there is an immediate need for migration from paperwork to digitalised data handling so, we need to come up with an interface which is beginner friendly.

FEATURES

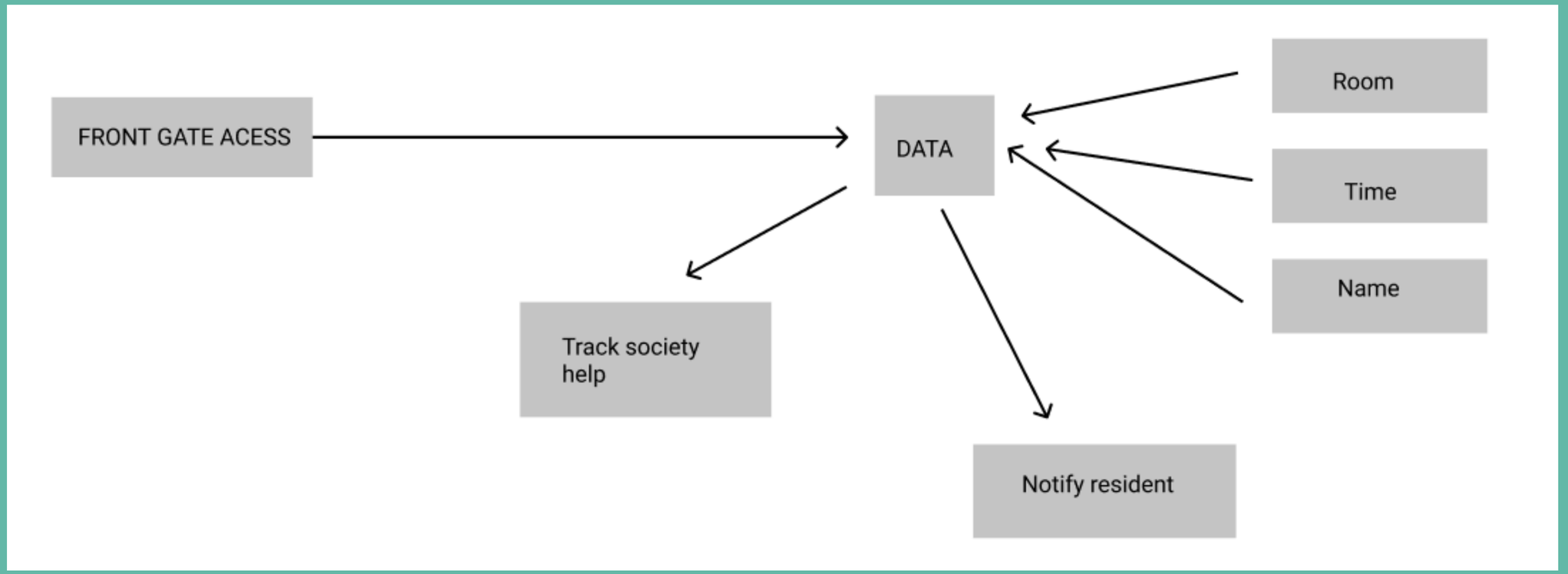
- FRONT GATE SECURITY SYSTEM
- CLUBHOUSE
- BILL GENERATION
- QUERY MANAGEMENT
- HALL BOOKING

FRONT GATE SECURITY SYSTEM

Systematic record of guest entry at main gate

System to track parcel delivery and notify the residents

Track society help


FRONT GATE ACESS
DATA
Room
Time
Name
Track society help
Notify resident

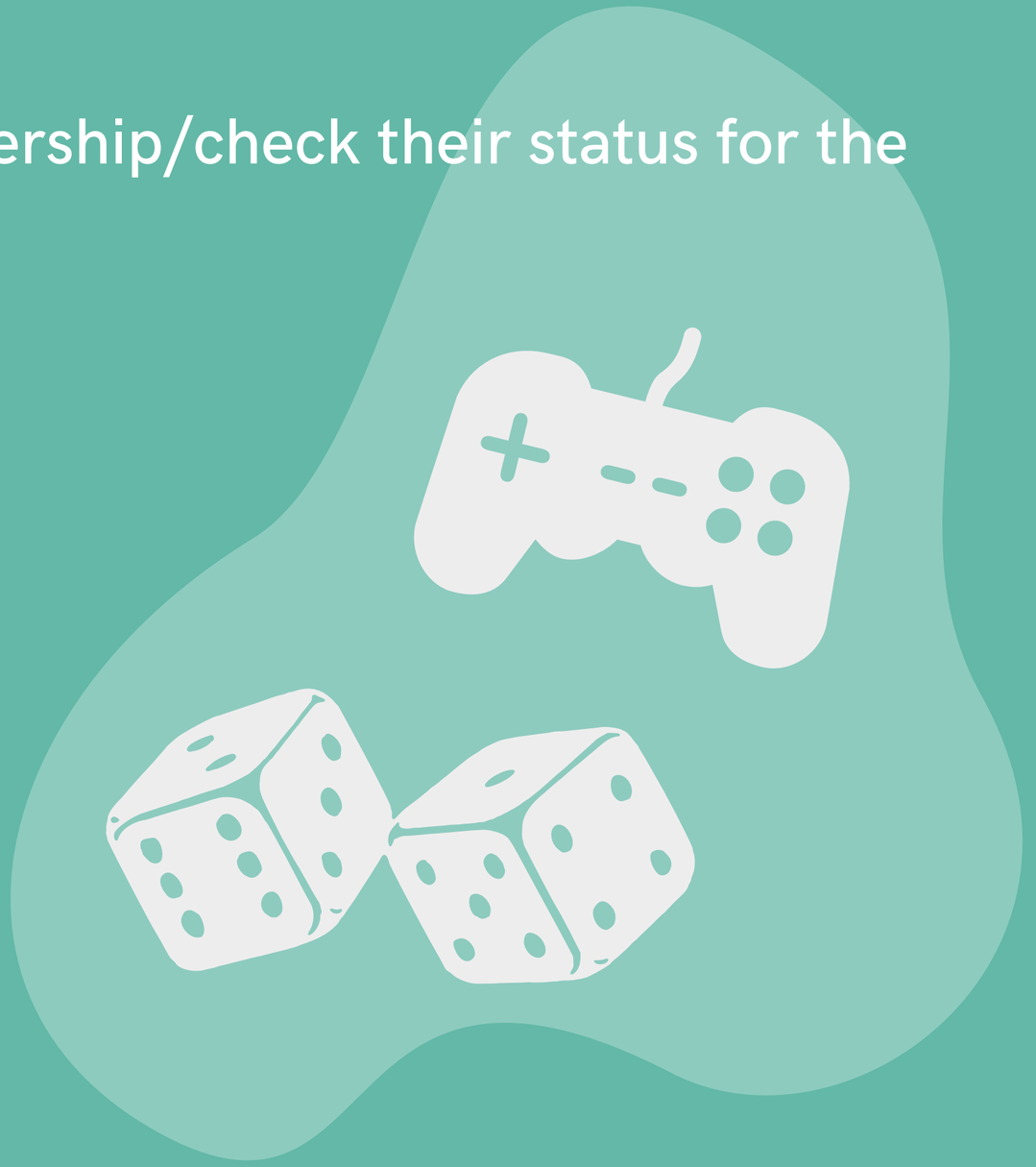
CLUBHOUSE

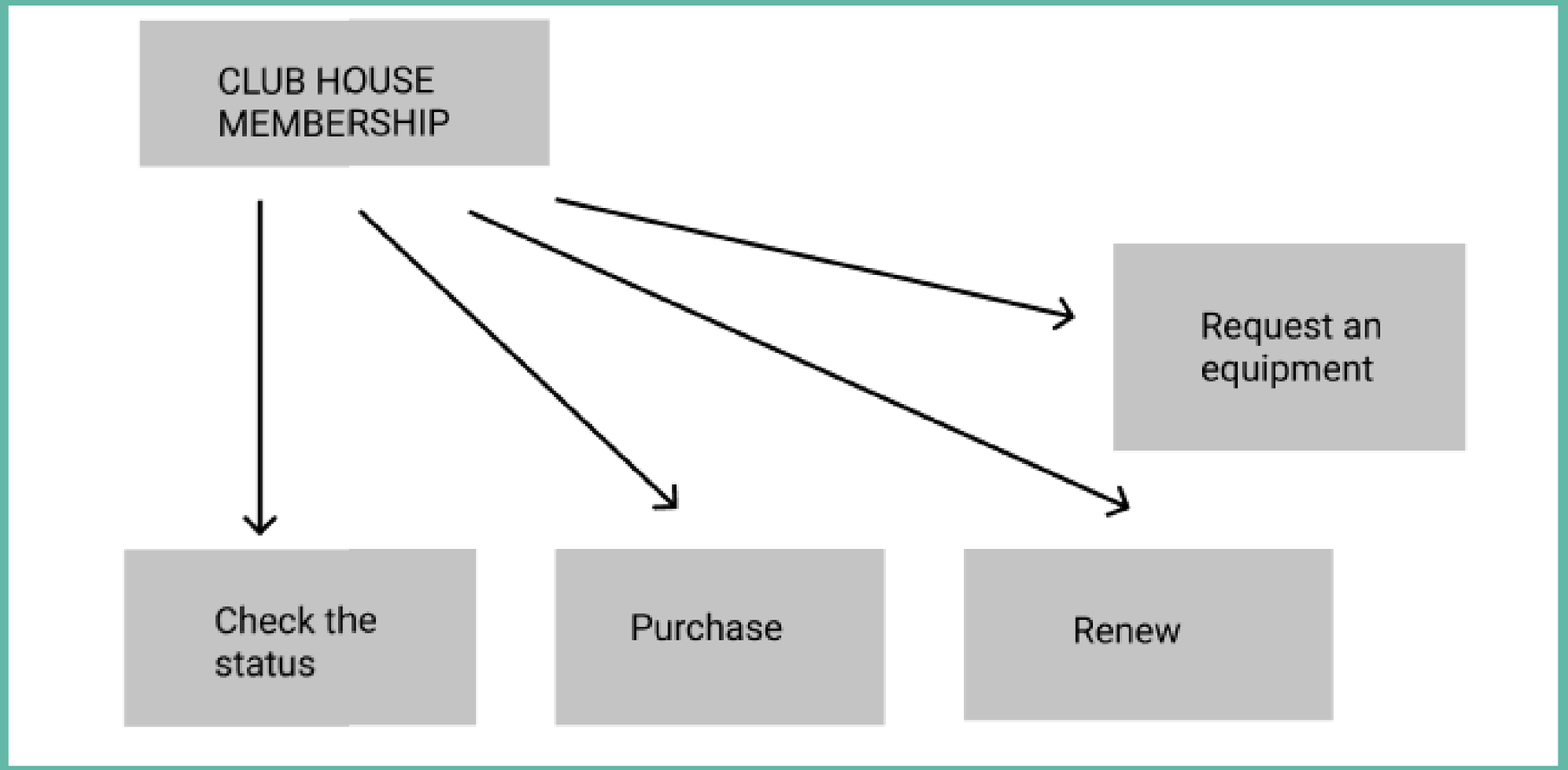
It allows society members to apply for membership/check their status for the following amenities:

1. Swimming Pool
2. Gym
3. Indoor Games

Functions under this:

- Check membership status .
- Purchase a membership
- Renew memberships
- Request an equipment



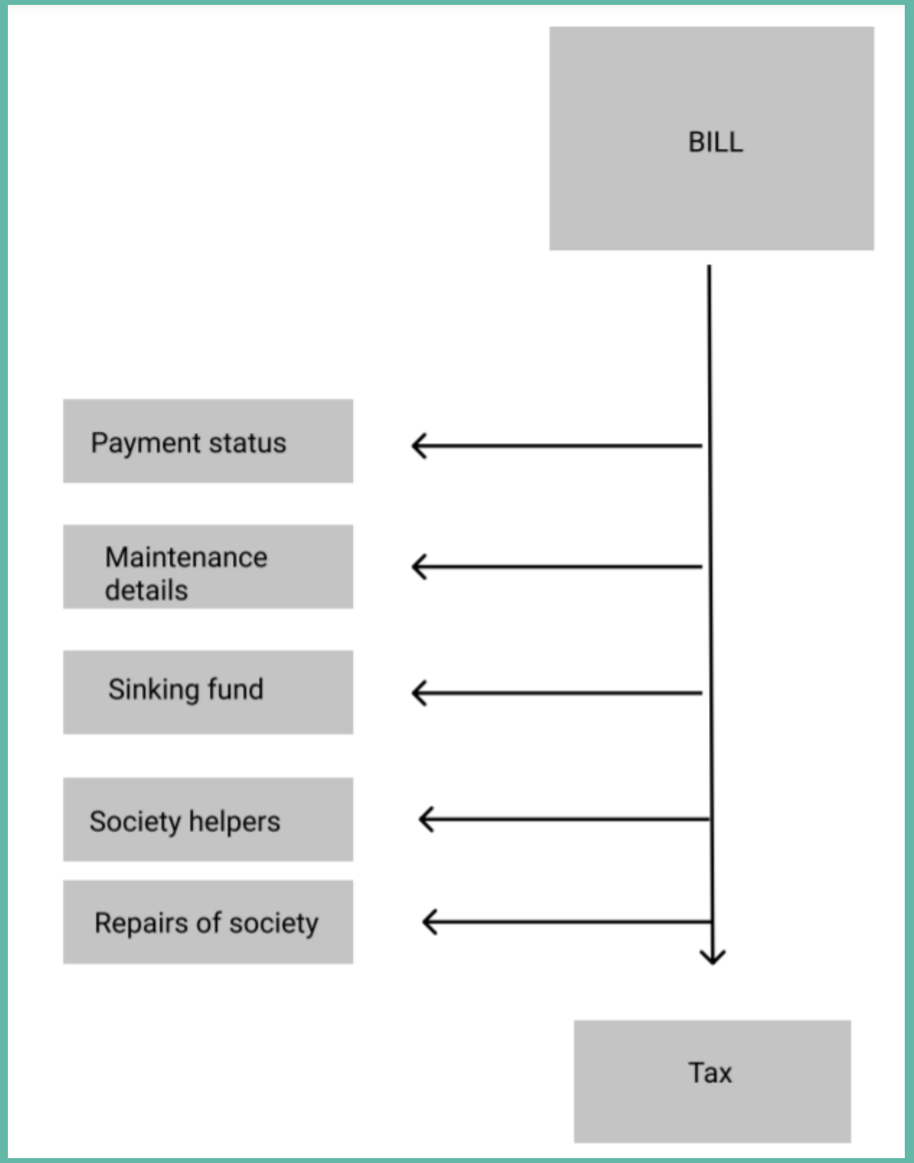

CLUB HOUSE MEMBERSHIP
Request an equipment
Check the status
Purchase
Renew

BILL GENERATION

Payments:

- Check rent prices and payment status by rentals
- Check for Maintenance details per flat.
- Check society’s sinking funds.
- Check payment status of each society helpers
- Check cost of repairs of the society
- Overall tax

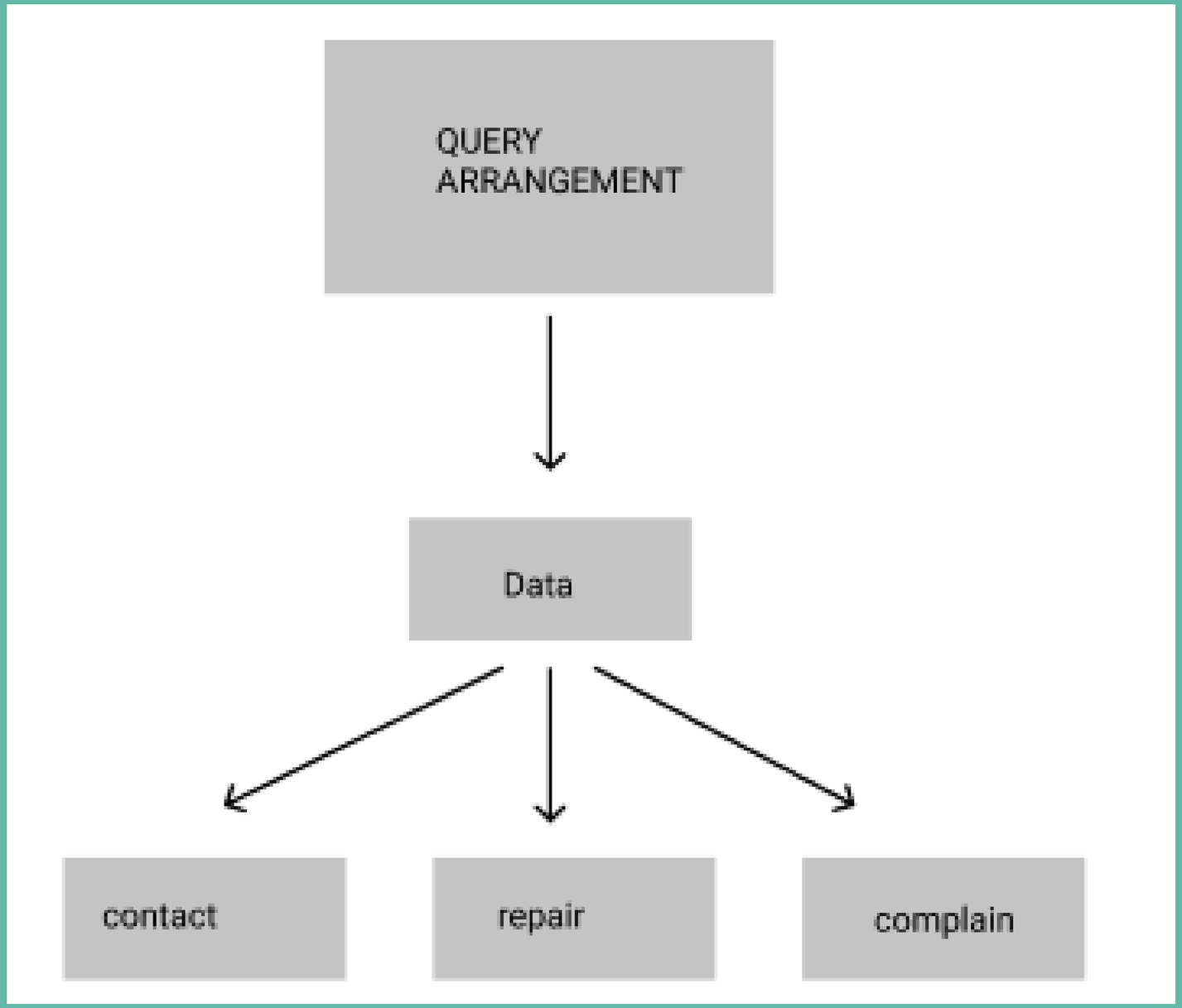
Use the above pointers to generate the final bill.


BILL
Payment status
Maintenance details
Sinking fund
Society helpers
Repairs of society
Tax

QUERY MANAGEMENT

It allows the members to put out their grievances and to seek remedy for the same. It allows them to access important information pertaining to society functioning.

- Contact of society help
- Repair in respective flats
- Complaint against the society office
- Grievances in general

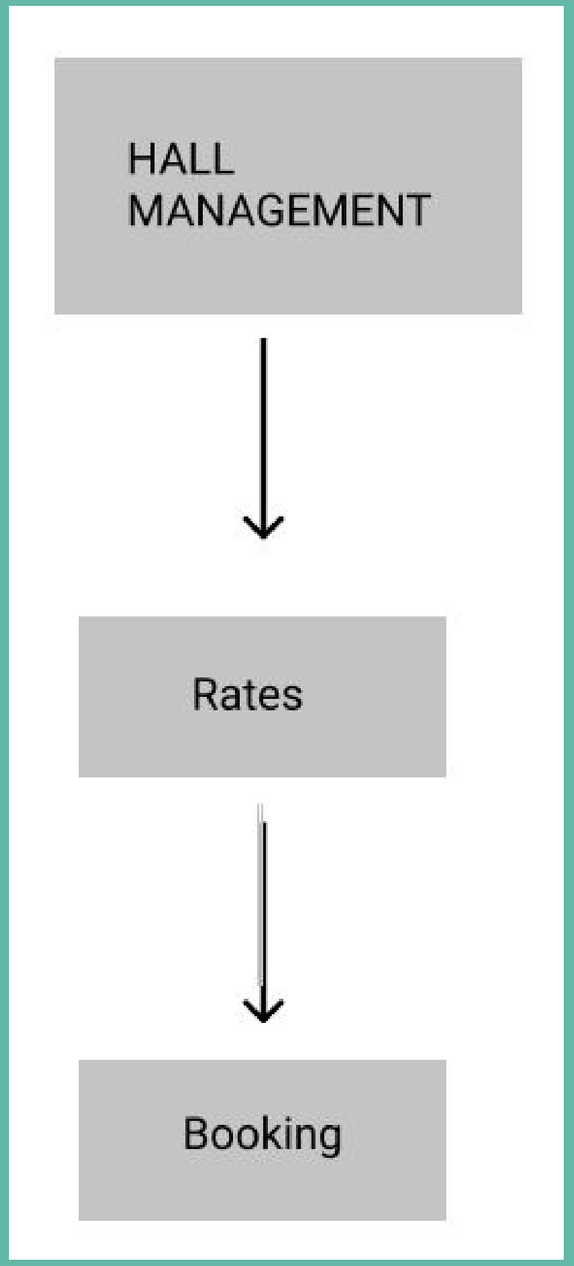

QUERY
ARRANGEMENT
Data
contact
repair
complain

HALL BOOKING FOR OCCASIONS

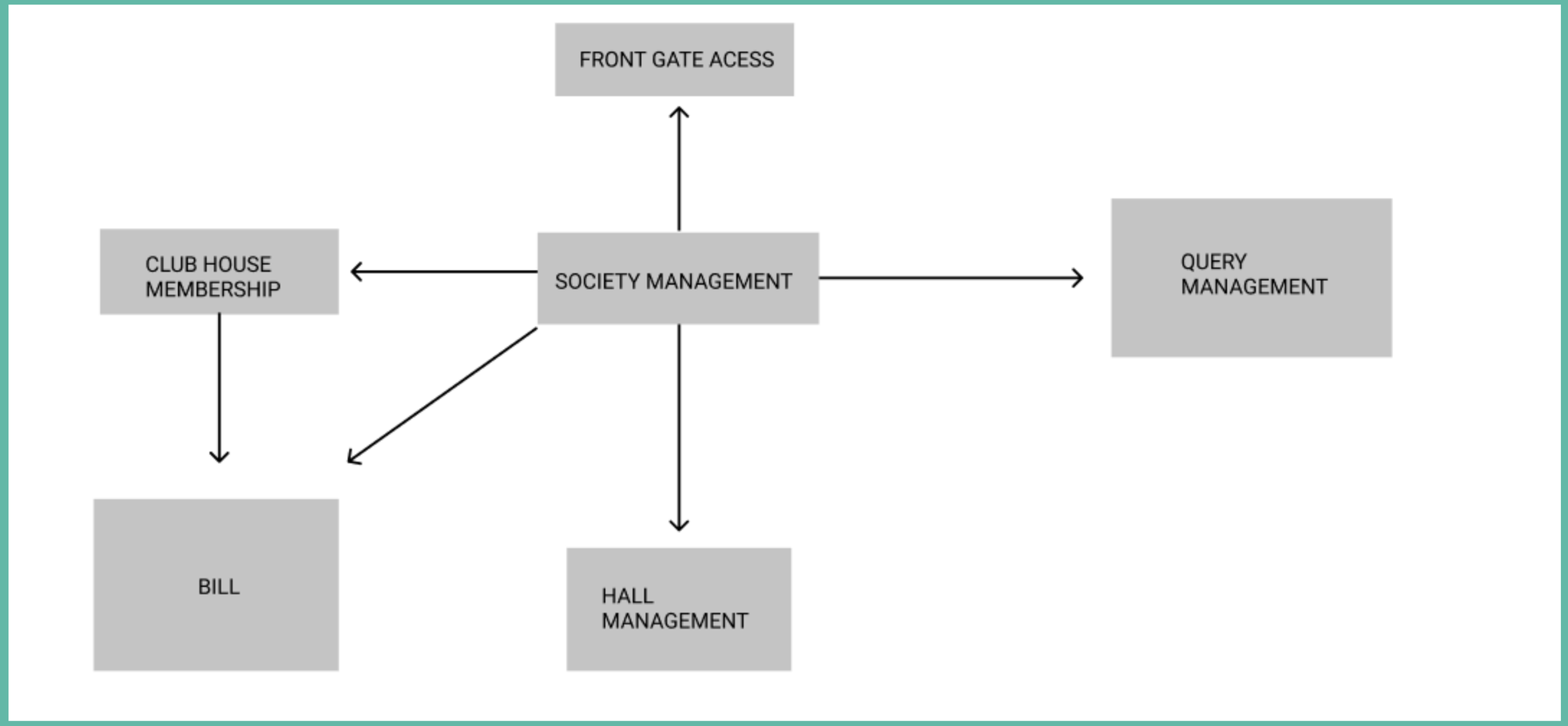
To allow the facility of renting out the society lawn to members and outsiders for functions.

Functions under this:

- Rates for rent
- Booking records


HALL
MANAGEMENT
Rates
Booking

DATA FLOW DIAGRAM



TIMELINE

0 WEEK

16TH Aug-23RD Aug

Explore various domains and pick a suitable topic for the project

Identify the concepts to be used and utilise this week to study them and get familiar with them

1 WEEK

23RD Aug-30TH Aug

Staff module

2 WEEK

30TH Aug-6TH Sept

Front gate security system module

3 WEEK

6TH Sept-13TH Sept

Clubhouse module

4 WEEK

13TH Sept-20TH Sept

Query management module

TIMELINE

5 WEEK

20TH Sept-27TH Sept

Hall Booking module

Bill Generation Module

6 WEEK

27TH Sept-4TH Oct

Bill Generation Module

7 WEEK

[4TH Oct-11TH Oct

Compilation of various files containing different functions to make the final project. Check for the coherence of the functions. Minor debugging of the program.

8 WEEK

11TH Oct-16TH Oct

Buffer week

THANK YOU!