**PROJECT REPORT 1**

**PROJECT OVERVIEW:**

**Project team number**: 55

**Project title**: HOUSING SOCIETY APPLICATION

**Project team members**: Jayesh Sinha(2017347), Prerak Malik(2019378),

Isha Singh(2019363), Prakhar Maurya(2019317),

Nikhil Kushwah(2019260)

**PROJECT SUMMARY:**

**PROBLEM STATEMENT**:

After a lot of brainstorming we finally ended up with two topics.

The problem statement of the first topic(SPORTMASTERS) aims at modelling a database for a particular branch of a chain of sports stores. The store sells sports goods related to different sports offline and also delivers them to the customers residence in case of online/bulk orders. The database will contain information about the stock of sports goods, details of employees, customers, products available, events lined up, sports training programs and the order delivery details(for customers and delivery executives)

The problem statement of the second topic **(HOUSING SOCIETY APPLICATION)** focuses on the management of everyday services in the housing societies. We have designed our application in such a way that all the operations are computerized and the problems faced by the housing societies are solved. The unique component of this project is the approval of entry using the application. And then after a lot of discussion we chose the latter.

**TIMELINE - PROJECT PROGRESSION:**

**WEEK 1: Identifying Stakeholders**

**STAKEHOLDERS:**

1. Residents
2. Maintenance staff
3. Security Staff
4. Visitor
5. Service Providers

**WEEK 2: Identifying the queries associated with the stakeholders**

1. **Residents:**

* Lookup information of other resident’s households.
* Books events in the community centre.
* Registers a complaint to be resolved by the maintenance staff.
* Approves the entry of delivery executives/ visitors.
* Lookup the attendance and details of the service provider/ visitor associated with the resident.

1. **Maintenance staff:**

* Looks for pending complaints
* Looking up maintenance staff details
* Make announcements
* Sign up new users/ Delete users(temporarily or permanently)
* Lookup information of fines/ penalties of residents

**3)Security Department:**

* Allows the entry/ exit of visitors and service providers
* Asks residents for entry approval // relational function with maintenance staff for residents’ info
* Attendance and leave information
* Check for announcements

**4) Visitor:**

* Parking slot booking
* Lookup the resident(s) associated with this account
* Check for announcements/ rules
* Applies for access to services(e.g. Gym, library, swimming pool etc)
* Registers complaints

**5) Service Provider:**

* Checks his/ her own attendance
* Checks residents associated with his/her account
* Checks for announcements
* Parking slot booking

**ENTITIES**

1)Resident

2)Service Providers (Weak Entity)

3)Parking

4)Visitor (Weak Entity)

5)Complaint

6)Maintenance staff

7)Announcement

8)Security Staff

**RELATIONSHIPS BETWEEN THE ENTITIES**

Resident **Associated with** Visitor

Resident **Associated with** Service Providers

Parking is **allotted** to the Resident

Parking is **allotted** to the Service Providers

Parking is **allotted** to the Visitor

Service Providers **checks** announcements.

Residents **checks** announcements.

Security staff **makes/checks for** announcements.

Maintenance staff **makes/checks for** announcements.

Security staff **resolves** complaints.

Maintenance staff **resolves** complaints.

Service Providers **registers** complaints

Resident **registers** complaints

Visitor **registers** complaints

**INDIVIDUAL MEMBER CONTRIBUTION:**

1)**Ideation** - Prerak, Nikhil, Jayesh, Isha, Prakhar

2)**Identifying entities and attributes and preparing schemas and**

**er diagram** - Prerak, Nikhil and Jayesh

3)**Progress report, Document handling** - [Isha Singh](mailto:isha19363@iiitd.ac.in)

4)**MySQL Server and Populating schemas with data**- Prakhar

**LINKS OF ALL THE DOCUMENTS:**

**ER Diagram (PDF)**

<https://drive.google.com/file/d/1FBl52hUVXoTmVv8OsYooRRpfoA21jsw8/view?usp=sharing>

**Housemate.png**

<https://drive.google.com/file/d/1llfFFVfGQVNyF_qgUcEnQ7mWXk14FVB-/view?usp=sharing>

**Schema Script**

<https://drive.google.com/file/d/1nDImfNfWX5CDqIIdm8zM-9MZyy6wVEWS/view?usp=sharing>