Ramrao Adik Institute of Technology

Department of Electronics and Telecommunication Engineering

Database Management Systems

Mini Project Report On

Housing Society Expenses

By-

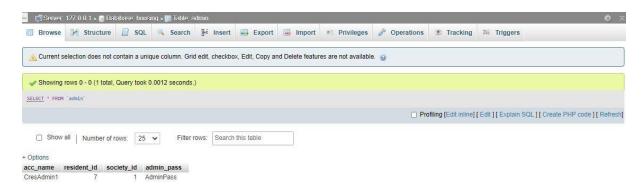| Vaibhav More	18ET3006	TE/B/B2
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DESCRIPTION

Generally, in Society all the work is decided in meetings and maintenance bills, contact no of members are recorded on the papers. There is no automated system for doing all the things that generally happens in society, so that members can come to know what is happening in society. The Society Management System allows members to login with their own account and get updated with society happenings. Society Management System is the website portal to reduce conflicts among society members. The system has automated functionality for calculating monthly maintenance bill and member can view their bill status on their account.
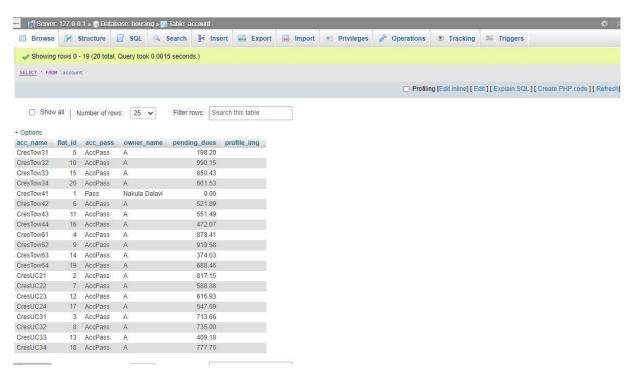
In current housing society management system all society works are done manually. Society chairman keep all the society expenses report on paper file. If some time this data is needed then retrieving this data is very slow and tiresome work. Society expenses and earning data is stored in various registers so the linking between it becomes difficult. Voting is conducted in the society for various designations like secretary, treasurer, chairman, etc. members need to be present on the site for voting. Due to some reasons some members cannot be present & cast vote. This problem need to be solved so that all society member can take part in the voting. Generating bill and sending it to each society member is also a tiresome work. Sometime members did not get bills and it is lost. Payment collection is also big task in society. Watchman has to go each flat to collect the payments. In current system all work is done manually so each work takes more time. Sending notice or other message to society members is also a big task. so an system is needed that can solved all above problems.
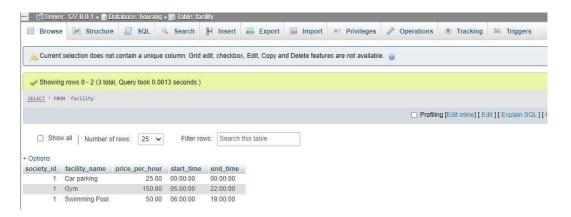
TABLE WITH ATTRIBUTES AND CONSTRAINTS:
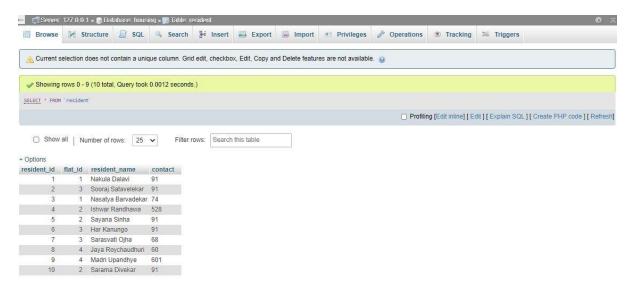
1. Describing table admin:

acc_name	resident_id	society_id	admin_pass
CresAdmin1	7	1	AdminPass

2. Describing table account:

acc_name	flat_id	acc_pass	owner_name	pending_dues	profile_img
CresTow31	5	AccPass	A	198.20	
CresTow32	10	AccPass	A	990.15	
CresTow33	15	AccPass	A	850.43	
CresTow34	20	AccPass	A	661.53	
CresTow41	1	Pass	Nakula Dalavi	0.00	
CresTow42	6	AccPass	A	521.89	
CresTow43	11	AccPass	A	551.49	
CresTow44	16	AccPass	A	472.07	
CresTow61	4	AccPass	A	878.41	
CresTow62	9	AccPass	A	919.58	
CresTow63	14	AccPass	A	374.03	
CresTow64	19	AccPass	A	688.46	
CresUC21	2	AccPass	A	817.15	
CresUC22	7	AccPass	A	588.88	
CresUC23	12	AccPass	A	616.93	
CresUC24	17	AccPass	A	547.69	
CresUC31	3	AccPass	A	713.66	
CresUC32	8	AccPass	A	735.00	
CresUC33	13	AccPass	A	409.18	
CresUC34	18	AccPass	A	777.76	

3. Describing table facility:

society_id	facility_name	price_per_hour	start_time	end_time
1	Car parking	25.00	00:00:00	00:00:00
1	Gym	150.00	05:00:00	22:00:00
1	Swimming Pool	50.00	06:00:00	19:00:00

4. Describing table committee_member :

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

Options

resident_id	wing_id	post
1	1	Treasurer
6	3	Chairman
7	3	Admin

5. Describing table resident :

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

+ Options

resident_id	flat_id	resident_name	contact
1	1	Nakula Dalavi	91
2	3	Sooraj Satavelekar	91
3	1	Nasatya Barvadekar	74
4	2	Ishwar Randhawa	528
5	2	Sayana Sinha	91
6	3	Har Kanungo	91
7	3	Sarasvati Ojha	68
8	4	Jaya Roychaudhuri	60
9	4	Madri Upandhye	601
10	2	Sarama Divekar	91

5. Describing table maintenance_bill :

bill_num	flat_id	bill_date	water_charges	property_tax	elec_charges	sinking_fund	parking_charges	noc	insurance	other	due_date	amount	down_doc

Query results operations

🔲 Create view

ENTITY RELATIONSHIP DIAGRAM

Untitled *

SQL Commands Used

-- **Table structure for table `account`**

```
CREATE TABLE `account` (

    `acc_name` varchar(14) NOT NULL,

    `flat_id` int(11) NOT NULL,

    `acc_pass` varchar(15) NOT NULL,

    `owner_name` varchar(127) NOT NULL,

    `pending_dues` decimal(10,2) NOT NULL,

    `profile_img` varchar(255) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- **Dumping data for table `account`**

```
INSERT INTO `account` (`acc_name`, `flat_id`, `acc_pass`, `owner_name`, `pending_dues`, `profile_img`) VALUES

    ('CresTow31', 5, 'AccPass', 'A', '198.20', ''),

    ('CresTow32', 10, 'AccPass', 'A', '990.15', ''),

    ('CresTow33', 15, 'AccPass', 'A', '850.43', ''),

    ('CresTow34', 20, 'AccPass', 'A', '661.53', ''),

    ('CresTow41', 1, 'Pass', 'Nakula Dalavi', '0.00', ''),

    ('CresTow42', 6, 'AccPass', 'A', '521.89', ''),

    ('CresTow43', 11, 'AccPass', 'A', '551.49', ''),

    ('CresTow44', 16, 'AccPass', 'A', '472.07', ''),

    ('CresTow61', 4, 'AccPass', 'A', '878.41', ''),

    ('CresTow62', 9, 'AccPass', 'A', '919.58', ''),

    ('CresTow63', 14, 'AccPass', 'A', '374.03', ''),

    ('CresTow64', 19, 'AccPass', 'A', '688.46', ''),

    ('CresUC21', 2, 'AccPass', 'A', '817.15', ''),

    ('CresUC22', 7, 'AccPass', 'A', '588.88', ''),

    ('CresUC23', 12, 'AccPass', 'A', '616.93', ''),

    ('CresUC24', 17, 'AccPass', 'A', '547.69', ''),

    ('CresUC31', 3, 'AccPass', 'A', '713.66', ''),('CresUC32', 8, 'AccPass', 'A', '735.00', ''),('CresUC33', 13, 'AccPass', 'A',
    '409.18', ''),('CresUC34', 18, 'AccPass', 'A', '777.76', '')
```

-- Table structure for table `admin`

```sql
CREATE TABLE `admin` (

        `acc_name` varchar(15) NOT NULL,

        `resident_id` int(11) NOT NULL,

        `society_id` int(11) NOT NULL,

        `admin_pass` varchar(15) NOT NULL

    ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Dumping data for table `admin`

```sql
INSERT INTO `admin` (`acc_name`, `resident_id`, `society_id`, `admin_pass`) VALUES

        ('CresAdmin1', 7, 1, 'AdminPass');
```

-- Stand-in structure for view `admin_flat`

```sql
CREATE TABLE `admin_flat` (

        `acc_name` varchar(15)

        ,`flat_id` int(11)

        );
```

-- Table structure for table `basic_maintenance_bill`

```sql
CREATE TABLE `basic_maintenance_bill` (

        `bill_num` int(11) NOT NULL,

        `flat_id` int(11) NOT NULL,

        `bill_date` date NOT NULL,

        `water_charges` decimal(8,2) NOT NULL,

        `property_tax` decimal(8,2) NOT NULL,

        `elec_charges` decimal(8,2) NOT NULL,

        `sinking_fund` decimal(8,2) NOT NULL,

        `parking_charges` decimal(8,2) NOT NULL,

        `noc` decimal(8,2) NOT NULL,

        `insurance` decimal(8,2) NOT NULL,

        `other` decimal(8,2) NOT NULL,

        `due_date` date NOT NULL,

        `down_doc` varchar(255) DEFAULT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- **Table structure for table `committee_member`**

```sql
CREATE TABLE `committee_member` (

        `resident_id` int(11) NOT NULL,

        `wing_id` int(11) NOT NULL,

        `post` varchar(31) NOT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- **Dumping data for table `committee_member`**

```sql
INSERT INTO `committee_member` (`resident_id`, `wing_id`, `post`) VALUES

        (1, 1, 'Treasurer'),

        (6, 3, 'Chairman'), (7, 3, 'Admin');
```

-- **Table structure for table `documents`**

```sql
CREATE TABLE `documents` (

        `doc_id` int(11) NOT NULL,

        `flat_id` int(11) NOT NULL,

        `doc_name` varchar(31) NOT NULL,

        `upload_date` date NOT NULL,

        `path` varchar(255) NOT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- **Table structure for table `facility`**

```sql
CREATE TABLE `facility` (

        `society_id` int(11) NOT NULL,

        `facility_name` varchar(31) NOT NULL,

        `price_per_hour` decimal(10,2) NOT NULL,

        `start_time` time NOT NULL,

        `end_time` time NOT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- **Dumping data for table `facility`**

```sql
INSERT INTO `facility` (`society_id`, `facility_name`, `price_per_hour`, `start_time`, `end_time`) VALUES

(1, 'Car parking', '25.00', '00:00:00', '00:00:00'),

        (1, 'Gym', '150.00', '05:00:00', '22:00:00'),(1, 'Swimming Pool', '50.00', '06:00:00', '19:00:00');
```

```sql
CREATE TABLE `flat` (

  `flat_id` int(11) NOT NULL,

  `wing_id` int(11) NOT NULL,

  `flat_num` int(11) NOT NULL,

  `facing` varchar(31) NOT NULL,

  `area` decimal(6,2) NOT NULL,

  `BHK` decimal(2,1) NOT NULL,

  `floor_no` int(11) NOT NULL,

  `price` decimal(10,2) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Dumping data for table `flat`

```sql
INSERT INTO `flat` (`flat_id`, `wing_id`, `flat_num`, `facing`, `area`, `BHK`, `floor_no`, `price`) VALUES

(1, 1, 1, 'Road', '122.63', '2.0', 1, '14901257.36'),

(2, 2, 1, 'Garden', '183.08', '3.0', 1, '7264300.33'),

(3, 3, 1, 'Road', '165.98', '3.0', 1, '14679345.69'),

(4, 4, 1, 'Road', '128.28', '4.0', 1, '6898278.36'),

(5, 5, 1, 'Garden', '171.15', '2.0', 1, '13927108.77'),

(6, 1, 2, 'Garden', '164.51', '3.0', 1, '5994075.69'),

(7, 2, 2, 'Road', '145.26', '2.0', 1, '5266672.67'),

(8, 3, 2, 'Garden', '193.56', '2.0', 1, '14847875.91'),

(9, 4, 2, 'Garden', '188.87', '3.0', 1, '6313682.72'),

(10, 5, 2, 'Road', '197.78', '4.0', 1, '7061944.77'),

(11, 1, 3, 'Road', '113.44', '3.0', 2, '14199216.33'),

(12, 2, 3, 'Garden', '113.13', '2.0', 2, '10231816.58'),

(13, 3, 3, 'Road', '153.73', '3.0', 2, '13852142.43'),

(14, 4, 3, 'Road', '119.42', '2.0', 2, '13149057.86'),

(15, 5, 3, 'Garden', '126.67', '3.0', 2, '6575387.59'),

(16, 1, 4, 'Garden', '182.47', '2.0', 2, '5920659.02'),

(17, 2, 4, 'Road', '164.05', '2.0', 2, '14690337.61'),(18, 3, 4, 'Garden', '174.44', '2.0', 2, '13791953.26'),(19, 4, 4, 'Garden', '161.26', '2.0', 2, '14819224.63'),(20, 5, 4, 'Road', '126.96', '2.0', 2, '11881943.88');
```

```sql
CREATE TABLE `issues` (

  `issue_id` int(11) NOT NULL,

  `acc_name` varchar(14) NOT NULL,

  `issue_date` date NOT NULL,

  `issue_desc` varchar(255) NOT NULL,

  `reported_by` varchar(127) NOT NULL,

  `related` varchar(31) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Dumping data for table `issues`

```sql
INSERT INTO `issues` (`issue_id`, `acc_name`, `issue_date`, `issue_desc`, `reported_by`, `related`) VALUES

(1, 'CresTow41', '2018-05-13', 'The pool had a strange smell', '', 'Pool Facilities');
```

-- Stand-in structure for view `maintenance_bill`

```sql
CREATE TABLE `maintenance_bill` (

  `bill_num` int(11)

  ,`flat_id` int(11)

  ,`bill_date` date

  ,`water_charges` decimal(8,2)

  ,`property_tax` decimal(8,2)

  ,`elec_charges` decimal(8,2)

  ,`sinking_fund` decimal(8,2)

  ,`parking_charges` decimal(8,2)

  ,`noc` decimal(8,2)

  ,`insurance` decimal(8,2)

  ,`other` decimal(8,2)

  ,`due_date` date

  ,`amount` decimal(15,2)

  ,`down_doc` varchar(255)

);
```

-- Table structure for table `notices`

```sql
CREATE TABLE `notices` (

        `notice_id` int(11) NOT NULL,

        `society_id` int(11) NOT NULL,

        `notice_header` varchar(63) NOT NULL,

        `notice_date` date NOT NULL,

        `notice_desc` varchar(1023) NOT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Dumping data for table `notices`

```sql
INSERT INTO `notices` (`notice_id`, `society_id`, `notice_header`, `notice_date`, `notice_desc`) VALUES

(1, 1, 'Welcome notice', '2017-09-12', 'Welcome to all the new members! An orientation will be held in the society hall on 21/09/2017. At least one member of each flat is required to attend it, however, all are welcome.\r\n\r\nThe Secretary,\r\nCrescent Bay'),

(2, 1, 'Proposal for Day Care Centre', '2017-11-08', 'There has been made a proposal, numbered PR-DCC-001, for a day care centre next to the society park. The proposal has been sent to the members by email. Please review it before the next vote.\r\n\r\nThe Secretary,\r\nCrescent Bay');
```

-- Table structure for table `notice_wing`

```sql
CREATE TABLE `notice_wing` (

        `notice_id` int(11) NOT NULL,

        `wing_id` int(11) NOT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Table structure for table `resident`

```sql
CREATE TABLE `resident` (

        `resident_id` int(11) NOT NULL,

        `flat_id` int(11) NOT NULL,

        `resident_name` varchar(127) NOT NULL,

        `contact` varchar(11) DEFAULT NULL

        ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

-- Dumping data for table `resident`

```sql
INSERT INTO `resident` (`resident_id`, `flat_id`, `resident_name`, `contact`) VALUES

        (1, 1, 'Nakula Dalavi ', '91'),

        (2, 3, 'Sooraj Satavelekar ', '91'),

        (3, 1, 'Nasatya Barvadekar ', '74'),
```

(4, 2, 'Ishwar Randhawa ', '528'),

(5, 2, 'Sayana Sinha ', '91'),

(6, 3, 'Har Kanungo ', '91'),

(7, 3, 'Sarasvati Ojha ', '68'),

(8, 4, 'Jaya Roychaudhuri ', '60'),

(9, 4, 'Madri Upandhye ', '601'),

(10, 2, 'Sarama Divekar ', '91');

-- Table structure for table `society`

CREATE TABLE `society` (

`society_id` int(11) NOT NULL,

`society_name` varchar(255) NOT NULL,

`region` varchar(127) NOT NULL,

`city` varchar(127) NOT NULL,

`state` varchar(127) NOT NULL,

`area` decimal(5,2) NOT NULL COMMENT 'in acres'

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- Dumping data for table `society`

INSERT INTO `society` (`society_id`, `society_name`, `region`, `city`, `state`, `area`) VALUES

(1, 'Crescent Bay', 'Parel, South Mumbai', 'Mumbai', 'Maharashtra', '5.48');

-- Table structure for table `wing`

CREATE TABLE `wing` (

`wing_id` int(11) NOT NULL,

`society_id` int(11) NOT NULL,

`wing_name` varchar(15) NOT NULL,

`no_of_floors` int(11) NOT NULL,

`total_area` decimal(6,4) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- Dumping data for table `wing`

INSERT INTO `wing` (`wing_id`, `society_id`, `wing_name`, `no_of_floors`, `total_area`) VALUES

(1, 1, 'Tower 4', 45, '1.0467'),

```
(2, 1, 'UC2', 53, '1.2340'),

(3, 1, 'UC3', 37, '0.8900'),

(4, 1, 'Tower 6', 21, '0.5410'),

(5, 1, 'Tower 3', 59, '1.7300');
```

-- Structure for view `admin_flat`

```
DROP TABLE IF EXISTS `admin_flat`;

CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `admin_flat` AS select `admin`.`acc_name` AS `acc_name`,`resident`.`flat_id` AS `flat_id` from (((`admin` join `committee_member` on((`admin`.`resident_id` = `committee_member`.`resident_id`))) join `resident` on((`admin`.`resident_id` = `resident`.`resident_id`))) join `flat` on((`resident`.`flat_id` = `flat`.`flat_id`))) ;
```

-- Structure for view `maintenance_bill`

```
DROP TABLE IF EXISTS `maintenance_bill`;

CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `maintenance_bill` AS select `basic_maintenance_bill`.`bill_num` AS `bill_num`,`basic_maintenance_bill`.`flat_id` AS `flat_id`,`basic_maintenance_bill`.`bill_date` AS `bill_date`,`basic_maintenance_bill`.`water_charges` AS `water_charges`,`basic_maintenance_bill`.`property_tax` AS `property_tax`,`basic_maintenance_bill`.`elec_charges` AS `elec_charges`,`basic_maintenance_bill`.`sinking_fund` AS `sinking_fund`,`basic_maintenance_bill`.`parking_charges` AS `parking_charges`,`basic_maintenance_bill`.`noc` AS `noc`,`basic_maintenance_bill`.`insurance` AS `insurance`,`basic_maintenance_bill`.`other` AS `other`,`basic_maintenance_bill`.`due_date` AS `due_date`,(((((((`basic_maintenance_bill`.`water_charges` + `basic_maintenance_bill`.`property_tax`) + `basic_maintenance_bill`.`elec_charges`) + `basic_maintenance_bill`.`sinking_fund`) + `basic_maintenance_bill`.`parking_charges`) + `basic_maintenance_bill`.`noc`) + `basic_maintenance_bill`.`insurance`) + `basic_maintenance_bill`.`other`) AS `amount`,`basic_maintenance_bill`.`down_doc` AS `down_doc` from `basic_maintenance_bill` ;
```

-- Indexes for dumped tables

-- Indexes for table `account`

```
ALTER TABLE `account`

  ADD PRIMARY KEY (`acc_name`),

 ADD KEY `flat_acc` (`flat_id`);
```

-- Indexes for table `admin`

```
ALTER TABLE `admin`

  ADD PRIMARY KEY (`resident_id`);
```

indexes for table `basic_maintenance_bill`

```
ALTER TABLE `basic_maintenance_bill`

ADD PRIMARY KEY (`bill_num`),

 ADD UNIQUE KEY `bill_date` (`bill_date`),

 ADD KEY `flat_bill` (`flat_id`);
```

-- Indexes for table `committee_member`

```sql
ALTER TABLE `committee_member`
  ADD PRIMARY KEY (`resident_id`),
  ADD KEY `wing_member` (`wing_id`);
```

-- Indexes for table `documents`

```sql
ALTER TABLE `documents`
  ADD PRIMARY KEY (`doc_id`),
  ADD KEY `flat_docs` (`flat_id`);
```

-- Indexes for table `facility`

```sql
ALTER TABLE `facility`
  ADD PRIMARY KEY (`society_id`,`facility_name`);
```

-- Indexes for table `flat`

```sql
ALTER TABLE `flat`
  ADD PRIMARY KEY (`flat_id`),
  ADD KEY `wing_flat` (`wing_id`);
```

-- Indexes for table `issues`

```sql
ALTER TABLE `issues`
  ADD PRIMARY KEY (`issue_id`),
  ADD KEY `acc_issues` (`acc_name`);
```

-- Indexes for table `notices`

```sql
ALTER TABLE `notices`
  ADD PRIMARY KEY (`notice_id`),
  ADD KEY `society_notice` (`society_id`);
```

-- Indexes for table `notice_wing`

```sql
ALTER TABLE `notice_wing`
  ADD KEY `notice_constraint` (`notice_id`),
  ADD KEY `wing_notice` (`wing_id`);
```

-- Indexes for table `resident`

```sql
ALTER TABLE `resident`
        ADD PRIMARY KEY (`resident_id`),
```

```
                    ADD KEY `flat_resident` (`flat_id`);
```

-- **Indexes for table `society`**

```
ALTER TABLE `society`

  ADD PRIMARY KEY (`society_id`),

  ADD KEY `society_id` (`society_id`);
```

-- **Indexes for table `wing`**

```
ALTER TABLE `wing`

  ADD PRIMARY KEY (`wing_id`),

  ADD KEY `society_wing` (`society_id`);

-- AUTO_INCREMENT for dumped tables

-- AUTO_INCREMENT for table `basic_maintenance_bill`

ALTER TABLE `basic_maintenance_bill`

  MODIFY `bill_num` int(11) NOT NULL AUTO_INCREMENT;

-- AUTO_INCREMENT for table `documents`

ALTER TABLE `documents`

  MODIFY `doc_id` int(11) NOT NULL AUTO_INCREMENT;

-- AUTO_INCREMENT for table `flat`

ALTER TABLE `flat`

  MODIFY `flat_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

-- AUTO_INCREMENT for table `issues`

ALTER TABLE `issues`

  MODIFY `issue_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;

-- AUTO_INCREMENT for table `notices`

ALTER TABLE `notices`

 MODIFY `notice_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;

-- AUTO_INCREMENT for table `resident`

ALTER TABLE `resident`

 MODIFY `resident_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=11;
```

-- AUTO_INCREMENT for table `society`

ALTER TABLE `society`

  MODIFY `society_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;

-- AUTO_INCREMENT for table `wing`

ALTER TABLE `wing`

  MODIFY `wing_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;

-- Constraints for dumped tables

-- Constraints for table `account`

ALTER TABLE `account`

  ADD CONSTRAINT `flat_acc` FOREIGN KEY (`flat_id`) REFERENCES `flat` (`flat_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `basic_maintenance_bill`

ALTER TABLE `basic_maintenance_bill`

  ADD CONSTRAINT `flat_bill` FOREIGN KEY (`flat_id`) REFERENCES `flat` (`flat_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `committee_member`

ALTER TABLE `committee_member`

  ADD CONSTRAINT `resident_member` FOREIGN KEY (`resident_id`) REFERENCES `resident` (`resident_id`) ON DELETE CASCADE ON UPDATE CASCADE,

  ADD CONSTRAINT `wing_member` FOREIGN KEY (`wing_id`) REFERENCES `wing` (`wing_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `documents`

ALTER TABLE `documents`

  ADD CONSTRAINT `flat_docs` FOREIGN KEY (`flat_id`) REFERENCES `flat` (`flat_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `facility`

ALTER TABLE `facility`

  ADD CONSTRAINT `society_facility` FOREIGN KEY (`society_id`) REFERENCES `society` (`society_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `flat`

ALTER TABLE `flat`

  ADD CONSTRAINT `wing_flat` FOREIGN KEY (`wing_id`) REFERENCES `wing` (`wing_id`) ON DELETE CASCADE ON UPDATE CASCADE;

-- Constraints for table `issues`

```sql
ALTER TABLE `issues`

  ADD CONSTRAINT `acc_issues` FOREIGN KEY (`acc_name`) REFERENCES `account` (`acc_name`) ON DELETE CASCADE ON
UPDATE CASCADE;

-- Constraints for table `notices`

ALTER TABLE `notices`

  ADD CONSTRAINT `society_notice` FOREIGN KEY (`society_id`) REFERENCES `society` (`society_id`) ON DELETE CASCADE
ON UPDATE CASCADE;

        -- Constraints for table `notice_wing`

        ALTER TABLE `notice_wing`

          ADD CONSTRAINT `notice_constraint` FOREIGN KEY (`notice_id`) REFERENCES `notices` (`notice_id`) ON DELETE
        CASCADE ON UPDATE CASCADE,

          ADD CONSTRAINT `wing_notice` FOREIGN KEY (`wing_id`) REFERENCES `wing` (`wing_id`) ON DELETE CASCADE
        ON UPDATE CASCADE;

-- Constraints for table `resident`

ALTER TABLE `resident`

  ADD CONSTRAINT `flat_resident` FOREIGN KEY (`flat_id`) REFERENCES `flat` (`flat_id`) ON DELETE CASCADE ON UPDATE
CASCADE;

-- Constraints for table `wing`

ALTER TABLE `wing`

  ADD CONSTRAINT `society_wing` FOREIGN KEY (`society_id`) REFERENCES `society` (`society_id`) ON DELETE CASCADE ON
UPDATE CASCADE;

        COMMIT;
```
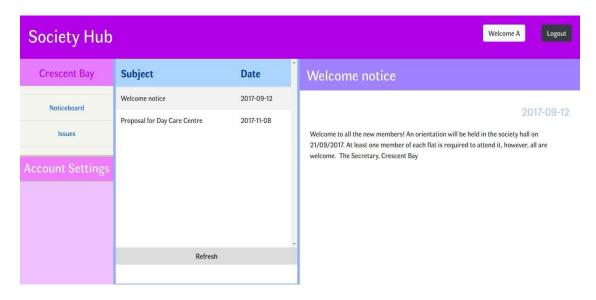
Front End

- We have Used HTML CSS as our front end to import/export or update MySQL data.

Front end enables user to access, add, or update the databases without Sql commands which saves time of the user as well as the developer.

Code Output

Conclusion
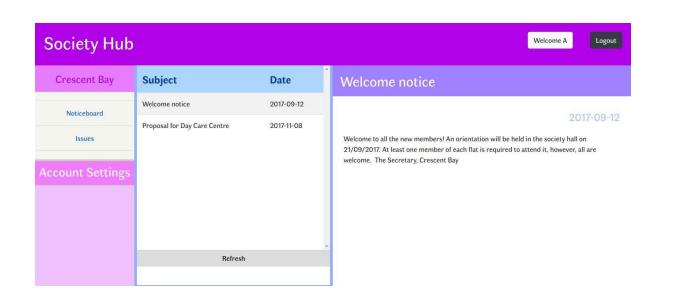
Society management system puts forth the actual working of a society. Administration, working, voting, etc. similar to a society are the key features of our project. User can access feeds and news from the society anywhere and anytime for their own comfort.

Future scope

This project can be enhanced further by adding online payment facility for the members to reduce the extra work of the admin. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to pre- sent this free and user–friendly website to Society members. Message and Email alerts for various happenings in the society can be added to the system so that users do not miss the updates and happenings of the society