CSC444 PROJECT DATA STRUCTURE PROPOSAL

Teenager

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Teen ID | name | age | Home address | Email address | Cell phone | Prof pic | Bank account |
| 1 | ara | 14 | 789 | xx@a | 623 |  |  |
| 2 | bob | 15 | 666 | yy@a | 325 |  |  |

Client (Notice that client require less info than teenager)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Client ID | name | Home address | Email | Cell phone | pic | Bank account |
| 33 | nancy | rr | 1@3 | 33 |  |  |
| 34 | bill | cc | 3@1 | 22 |  |  |

Service\_List

|  |  |  |  |
| --- | --- | --- | --- |
| Service\_ID | Service\_Name | Description | Other info |
| 11 | Laundry | xxxx |  |
| 22 | Cleaning | xxxx |  |

Teenager\_Offer

|  |  |  |  |
| --- | --- | --- | --- |
| Offer ID | Teen ID | Service\_ID(can have multiple services from same teen ) | Period (can have multiple periods for same teen and same service) |
| 123 | 1 | 11 | 10 - 12 |
| 1234 | 1 | 11 | 13 - 14 |
| 124 | 1 | 22 | 10 - 13 |
| 3123 | 2 | 11 | 14 - 15 |

Client Request

|  |  |  |  |
| --- | --- | --- | --- |
| Request ID | Client ID | Service ID | Period |
| 1 | 33 | 11 | 10-11 |
| 2 | 33 | 11 | 12-13 |
| 3 | 34 | 11 | 14-15 |

To match, we can join offer table and request table on R.service\_id = O.service\_id and R.hour within O.hour

Match List

The table will be periodically update by rerun sql query. And insert (new result minus existed match) into list.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Match ID | Request ID | Offer ID | Status |  |
| 1 | 1 | 123 | sent |  |
| 2 | 1 | 124 | pending |  |
| 3 | 2 | 124 | Accepted (once an accept is seen, the server will remove all corresponding request id and offer id from request list and offer list |  |

The matched result will then be joined with teenager table and rating table for re-ordering. E.g Order by cient id, rating, teen\_age

Accumulative rating

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Default id | Person ID | Client/Teen (type) | #of rater | Avg rating |
| 0 | 33 (if type= client then it is client id) | Client | 100 | 3.5 |
| 1 | 1 | Teen | 123 | 7.0 |

Most Recent rating

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Default ID | Person ID | Client/Teen | Service ID | Rater ID | Review/comment | Rating time |
| 0 | 33 | Client | 11 | 1 (if person is client then rater will be teen) | “good!” | 2017 09 15 , 7pm |
| 1 | 33 | Client | 22 | 2 | “bad!” | 2017 09 15 , 8pm |
| 2 | 1 | Teen | 11 | 33 | “Very good!” | 2017 09 15 , 9pm |

Each person will keep only 10 records, once 10+1 is inserted, the oldest one will be removed

Admin List

|  |  |  |  |
| --- | --- | --- | --- |
| Default ID | Username | Password | Access |
| 0 | super | 111 | Super admin |
| 1 | Normal | 222 | Admin |

Account list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Default id | Username (unique) | password | Type | ID |
| 0 | sss | 123 | Client | 33 |
| 1 | ddd | 321 | Teen | 1 |

Block List

|  |  |  |  |
| --- | --- | --- | --- |
| Default ID | UserName | Block period |  |
|  |  |  |  |

Assistance List

|  |  |  |  |
| --- | --- | --- | --- |
| Default ID | Client/Teen | Person ID |  |
| 0 | Teen | 1 |  |