W4111 – Project Part 3

1. **Both members' name and UNI**

Shimen Feng sf2911 - Mert Ketenci mk4139

For logging into the application please use:

Username = sfeng

Password = 123

2. **The URL to access your application**

url from GCP external IP: http://35.233.138.142:8111

3. **link to the GitHub repo containing your codebase**

https://github.com/shimengfeng/Database_Project1

4. **The changes we made on Part-3:**

1. We have updated the users entity:

At the begining of the project we have defined the users table which has only 3 attributes. Those were age, u_id and address. We enhanced this table as a user generally has more attributes than 3 and using u_id was not the best practice. Thus, we added:

(a) firstname: first name of the user

(b) lastname: last name of the user

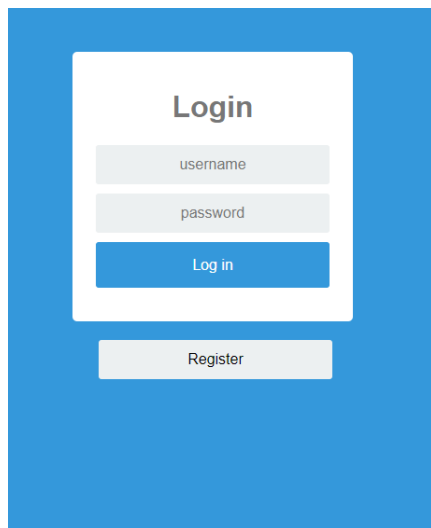(c) e-mail : e-mail of the user, is now our new primary key.

(d) u_id : is still there and unique.

(e) password: is the password user uses while logging in.

(f) username: Is the unique name user uses while logging in. It was not a good practice to make user enter his/her u_id while logging in. That is why we created username.

A general summary for the web-page:

1) Log-in page:
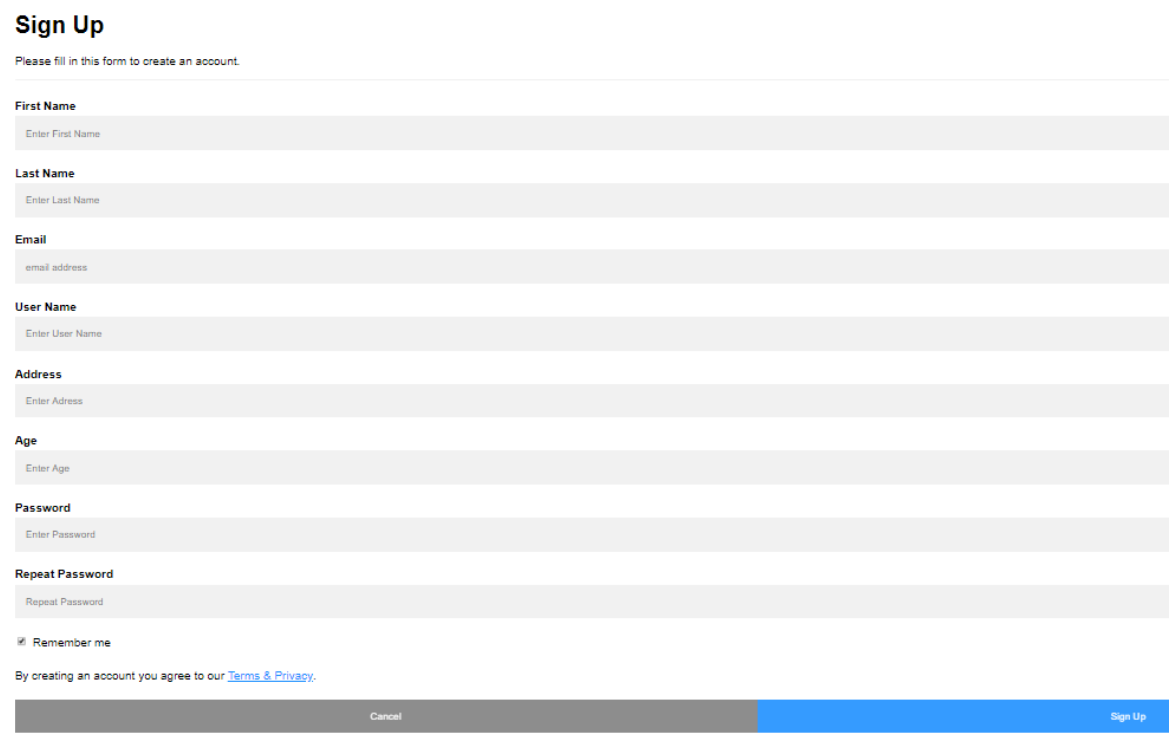
A user can enter to this page by entering his/her username and password.

2)Register page:

You will register using this form. This will require all the information for the users table.

3) Main Page:

Housig information

User Profile
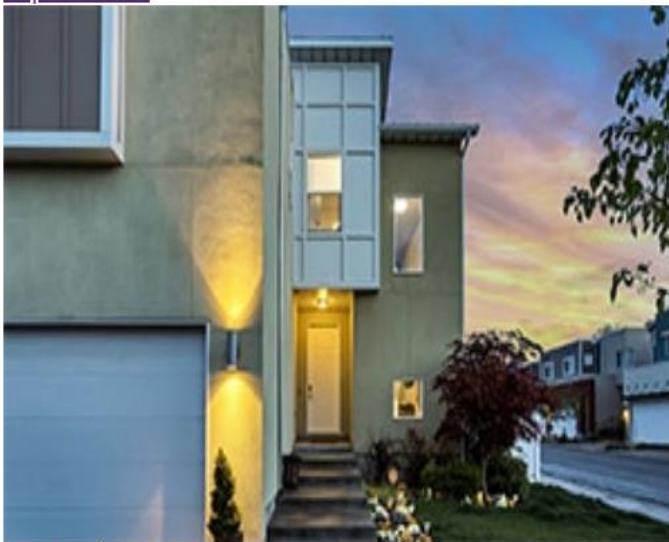
Welcome Back mkete! [Log Out]

Move-In!: `01.01.2019` Move-Out!: `31.12.2019` [Submit] Country: [＿＿＿＿＿＿＿＿＿＿] [Search]

Categories By Property

13 Results Found!

superCondo

For 100$

Clean & quiet apt home by the park

In the main page you will see the houses in database. You can query them according to the availability dates and location. The server is going to connect to SQL an find the suitable houses for a given date and for a given location. If no location is entered the query will run only according to date. If an invalid location is entered the query will result with 0 entries. If no location is eneterd the query is going to find all of the houses. Locations are countries such as United States, Turkey, etc… Click the link will direct user to the dtails of each housing post. These are data we queries from our database.

4) House Description Page:

Housing information

Chat Room

Back

Move-In!: 01.01.2019   Move-Out!: 31.12.2019   Submit   Country: [_____] Search

superCondo

For 100$
Book Now!

Description:

For Great light, exposed brick and 10 feet high ceiling. A fully renovated, West Elm furnished Condo, with Sony LED, everything that makes New York Great! BOOK ASAP available Turtle bay neighborhood in the heart of \\ midtown ea: distance

Features:

Rooms : 2
Area: 100 metersquare

Here a user can see detailed description of the house he/she wants to rent. At the bottom of the page, users can review the houses they have rented and post it. However, due to database constrain, a user will not be allowed to review his/her own post. The page will be re-directed if such action happens.

Description:

For Great light, exposed brick and 10 feet high ceiling. A full everything that makes New York Great! BOOK ASAP availal distance

Features:

Rooms : 2
Area: 100 metersquare

User Reviews:

Shimeng : Nice room for the price. Great neighborhood. Joh

Mr. : Very nice apt. New remodeled.

Shimeng : A great location, a very comfortable space and a

Master : The apartment is spacious for two people; a deli ne

mkete, Review this house!

Review this house!

5) Book Now:

If a user clicks on book now, he/she will be directed to a page to select his/her move-in and move-out date and the number of rooms he wants to rent.

6) Check-out:

For a selected move-in and move-out date the user is going to receive a check-out page:

The total payement amount is calculated by rooms*(move-out – move-in). This is currently the last page of this website. In the future, once we gather the payment infomration and authorize it with the users' bank, we coult update our book and listing table within database.

7) User Profile:

This is a page for a user to see his/her user details. Data are pulled form user table in database.

7) Chat-Room (future work):

We wanted to establish a page where users can chat. The current functionality allows users to post chat and will be updated upon click the button. However, in the future, a real-time chat will be helpful.

Chat Room

Back

Shimeng:my friend and I will be staying here fo

Shimeng:we will be touring lower manhattan, d
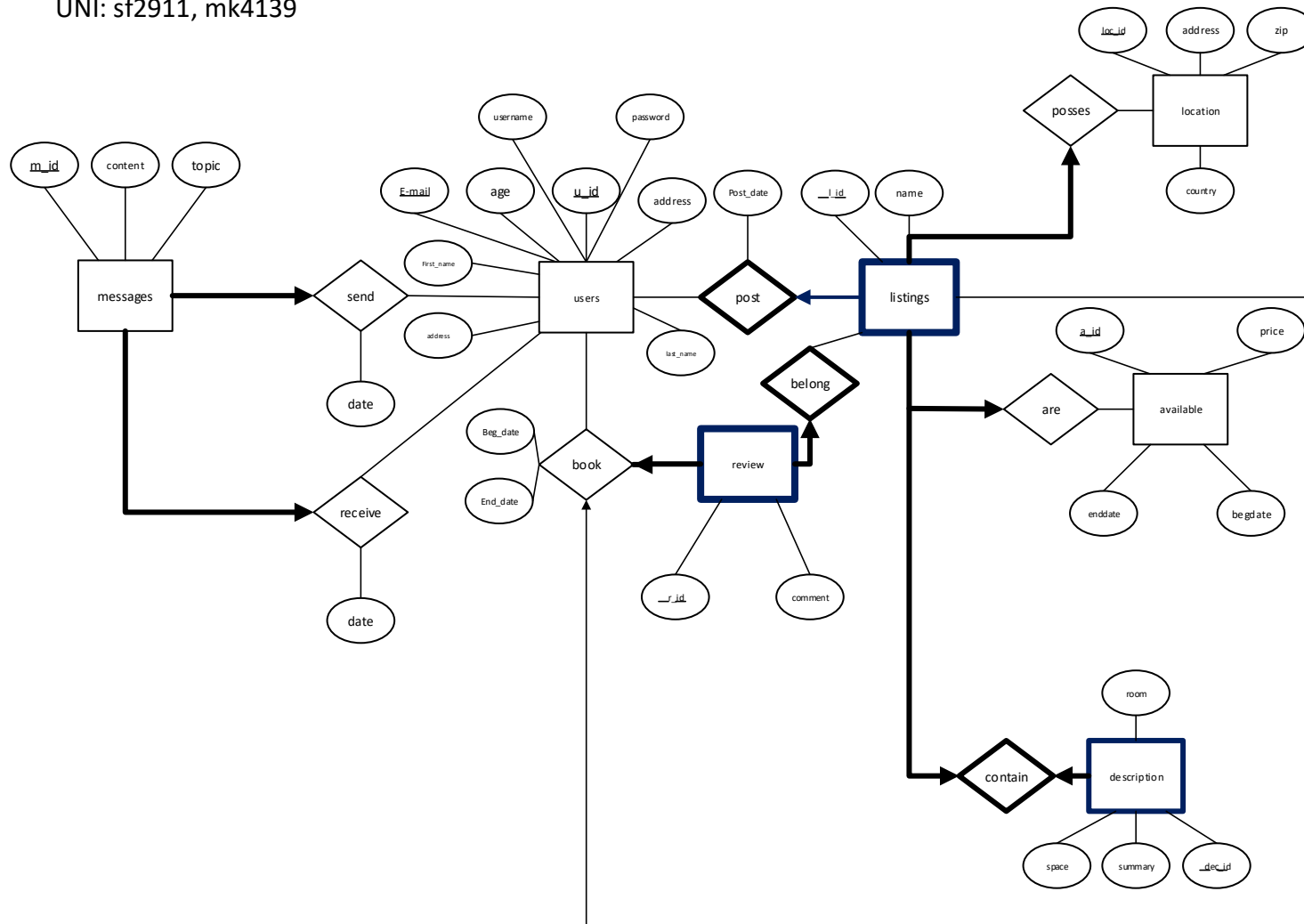
Shimeng:that sounds great, do you have parkir

Shimeng:That is really helpful! Thank you and

Shimeng:You have to turn on the heating butto

Shimeng:Yes, thank you!

Review this house!

Team Members: Shimeng Feng, Mert Ketenci
UNI: sf2911, mk4139

Descriptions

1. Description is a weak entity of listings since once a listing is deleted, the corresponding description of the housing will be removed.

2. Each listing contains exactly one description, poses at exactly one location, and have exactly one availability posted

3. A user can post listings and book exactly one of the listings

4. Listings are weak entities of users since once a user deactivates their account the corresponding listing will be removed

5. Users can post listings, and send and receive messages from other users.

6. Each review is a weak entity of users as well as listings. Either user or listing is removed, the corresponding review is removed.

7. Message is sent by exactly one user and received by exactly one user.

8. A user can post review to a listing he/she booked.

9. Each listing can be booked at most once (can exist without a demand)