



# Roominator



# Problem:

- You need to find a roommate in your area
- Use roominator!



# Terminology

- Rentor – a person that is renting out a room
- Rentee – a person looking for a room to rent



# Matching Criteria

- Age is within the range, both sides
- Price rentor is within rentee's range
- Lifestyle: Liberal to conservative on a 1 to 5 scale
- Even in the 21'st century some people want to live with their gender so this is also an option
- Distance



# Demo



# Technologies used

- Passport – Authenticaion, login etc
- Bcrypt – used for encrypting passwords
- Pug – HTML rendoring
- Tabulator – front end data grid
- MySQL – Sever side function an stored procere for the zip code distance calculation
- 290 other Node dependencies!

# Function (defined in mysql)

```
DELIMITER ;;
CREATE DEFINER='root'@'localhost' FUNCTION `haversine` (
    lat1 FLOAT, lon1 FLOAT,
    lat2 FLOAT, lon2 FLOAT
) RETURNS float
NO SQL
DETERMINISTIC
COMMENT 'Returns the distance in degrees on the Earth\n
between two known points of latitude and longitude'
BEGIN
    RETURN DEGREES(ACOS(
        COS(RADIANS(lat1)) *
        COS(RADIANS(lat2)) *
        COS(RADIANS(lon2) - RADIANS(lon1)) +
        SIN(RADIANS(lat1)) * SIN(RADIANS(lat2))
    ));
END ;;
DELIMITER ;
```

# Stored Procedure (in mySQL)

```
CREATE TEMPORARY TABLE rentors AS
select ranswers.user_id, ranswers.answer as "ranswer", uszips.city,
       round(69*haversine(uszips.lat,uszips.lng, zip2.lat, zip2.lng),0) AS miles,
       " " as newcol
from uszips, uszips as zip2, answers, answers as ranswers
where ranswers.user_id > 225 and
      uszips.zip = ranswers.answer
      and
      zip2.zip = answers.answer
      and
      (answers.source = "rentee"
      and answers.id = 37
      and answers.question_code = 'zipcode')
      and (ranswers.source = "rentor"
      and ranswers.question_code = 'zipcode')
having miles < radius
order by miles;

open cur2;
read_loop: LOOP
    FETCH cur2 INTO fuser_id, franswer, fcity, fmiles, fnewcol;
    IF done THEN
        LEAVE read_loop;
    END IF;
END LOOP;
close cur2;
```