Title:

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Roles:

- Clement Chan: Database stuff SQL, routes, pictures
- Alex Thompson: Working with google APIs and frontend stuff as well

Objective: Create a platform for trading sports equipment much like sidelineswap.com, but focusing mainly on local meetups and in-person transactions. Users will be able to create listings, see listings in their area with google maps, and directly message other users in order to meet up and sell/trade items.

APIs:

- Google Maps javascript interactive maps API to display locations of different listings and places in the user's area.

  Google maps api key - AIzaSyDEKSn9NsDrTue2ODvnY8WeQOnDHT5yxQg

Features List

- Essential
  - Login Page
  - Homepage for products being sold/traded
  - NavBar (Search/ Create Listing/ View Nearby Listings on Map / Messages)
  - Map for local listings
  - Create Listings Page
  - Direct Messages (if possible, end to end encryption)

- If we can:

  - Verification for vendors (actual stores w exact addresses)
  - Review system
  - Virtual transactions
  - Inventory page (If you’re a buyer, you can edit, sellers can view)
  - Filter Listings (price, sport, type)

Component List:

- __intit__.py:
  - Approutes:
    - /login:
      - Basic user login page
      - Buttons to register and home
    - /register:
      - Prompts user for email address, user and password
      - Buttons to login and home
    - /home:
      - If user is not logged in, shows listings in their area on a map and buttons to login/register
      - If user is logged in navbar displays:
        - Home
        - Search (don’t have to but possible)
        - Messages
        - Create Listings
      - Also listings displayed on map and on map overlay in a list ordered by closest.
    - /search:
      - Displays navbar
      - Shows search results in a list
    - /messages
      - List of users which have messages with you, newest at the top marking new and old.

- Clicking on a user will bring you to /messages<string:convo>

- /messages<string:convo>
    - Can be used by anyone
    - API version of the same route displaying the actual conversation and allowing the user to send a message.
    - Send button will send a message to /sendmessage<string:convo> updating db
    - Variables needed from database:

```
{
        ConvoID : <id>
        Messages : {
                        Message1 : {
                                        User: <username>
                                        Time : <time>
                                        Text :  <message1text>
                                    }
                        ...

                        MessageN : {
                                        User: <username>
                                        Time : <time>
                                        Text :  <messageNtext>
                                    }

                    }
}
```

- /sendmessage<string:id>
    - Can be used by anyone
    - Takes in variable:
    - MessageN as shown in structure above and convo id
    - Adds new messages to the database
    - Redirects to /messages<string:id>
- /createListing

            - Allows for user input of title,pictures, price, contact info, and location
            - Once user is finished with the listing they press the publish button redirecting them to /addListing<string:listing>
        - /addListing
            - Adds listing to the database
            - Redirects to /viewListing<string:id>
            - Takes in title, image files, price contact info, and location data
        - /viewListing<string:id>
            - Id tells python which listing to get from the DB
            - Displays Listing form db with its location on an imbedded google map
- Database file + structure:

Users

userID(int)	**username(string)**	**password(string)**
02	michael_scott	boop

Listings

userID(int)	**itemName(string)**	**itemDesc(string)**	**price(decimal)**	**picture?**	**purchasedBy(int)** - 0 for active
12	Nike Cleats	Vapor Untouchable pro 2018 size 10.5	95.50		0

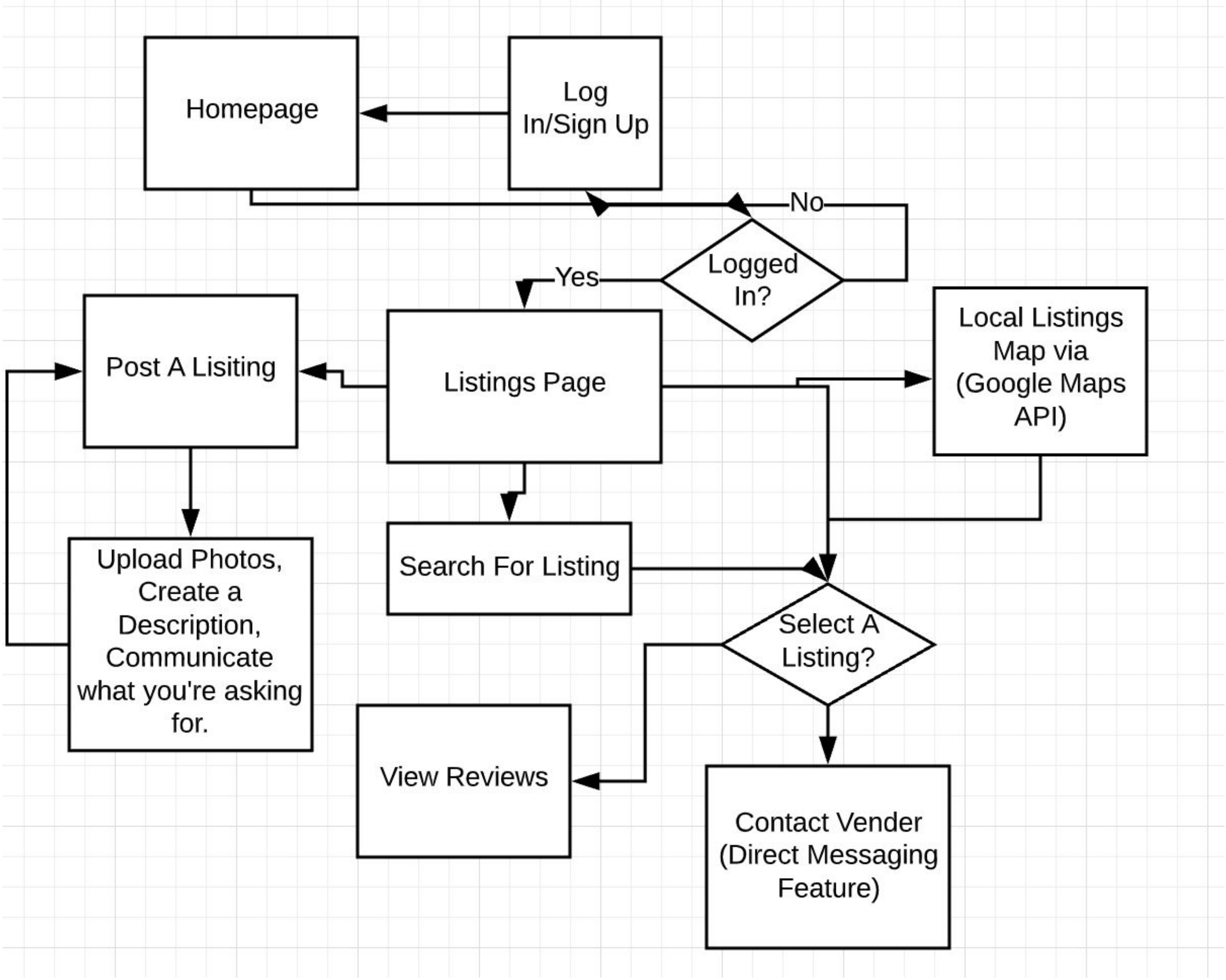
Messages

fromUser(int)	**toUser(int)**	**message(string)**	**timestamp(datetime)**
02	12	That's what she said	2020-06-04 22:42:21

- HTML files:
    - Template.html
    - Login.html
    - Register.html

- Home.html
- Search.html
- Messages.html
- Messaging.html
- View.html
- Create.html

Site Map (So Far)


Homepage
Log In/Sign Up
No
Logged In?
Yes
Post A Lisiting
Listings Page
Local Listings Map via (Google Maps API)
Upload Photos, Create a Description, Communicate what you're asking for.
Search For Listing
Select A Listing?
View Reviews
Contact Vender (Direct Messaging Feature)