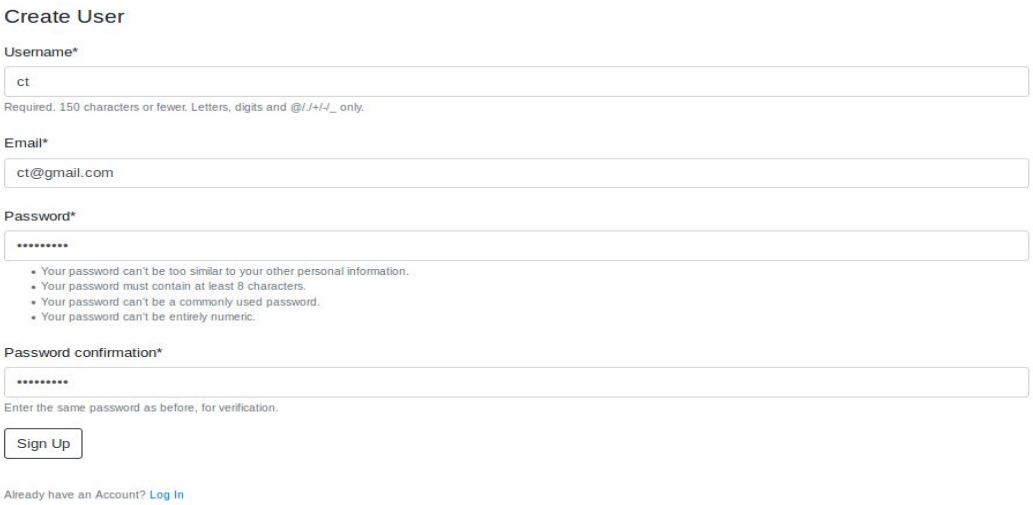
Milestone 4
Purple Nut
Team 6

1. List of features
    a. Completed Features
        i. Create user accounts
        ii. Create events
        iii. Sign Up for events
        iv. Filter Events
    b. Features to add
        i. Follow users
            1. Sort by popular with those you follow
        ii. Notifications
        iii. Host on AWS
        iv. Google maps API
        v. General HTML improvement
2. Architecture diagram
    a. Django handles the management of all parts of our architecture using a 'View-Model-Controller'
    b. Django routes requests with view functions. View functions pull data from the database (currently sqlite, will migrate to postgres) and will pass the data to templates. Templates are HTML files with special Django syntax to render the variables passed to it.
3. Front end design
    a. Need a datetime picker in create event form
    b. Should use a modal for listing attendees (currently an ugly table)

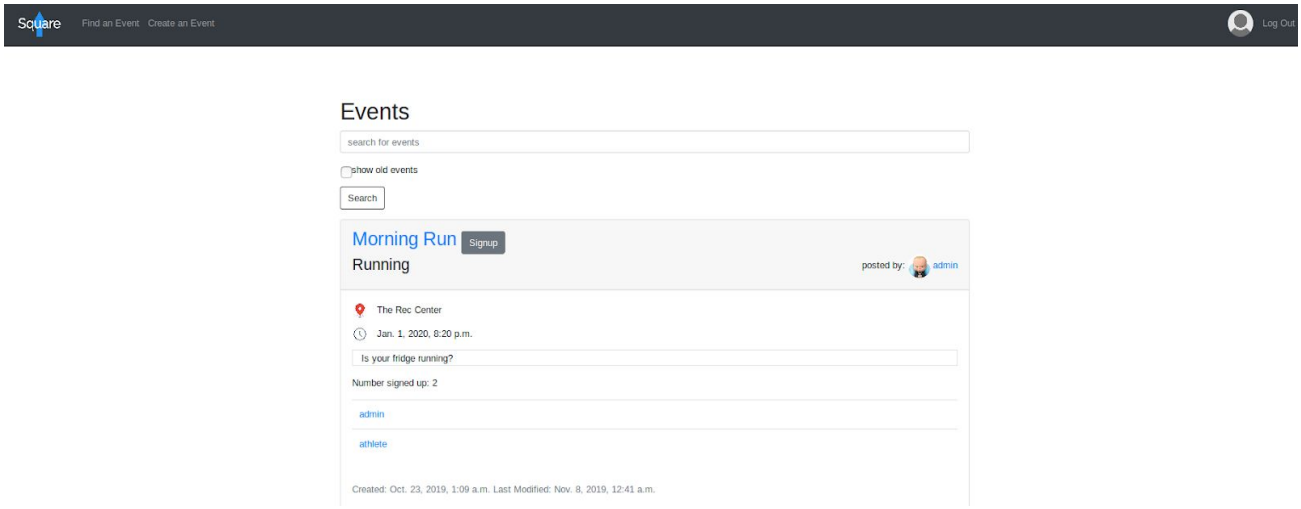
Front End Design

<u>Create Account</u>
To access the main features of our website, the user needs to make an account. If they do not have an account they can not access features such as signing up for events and creating events. So to have access to those features, they need to create a profile with the fields below.



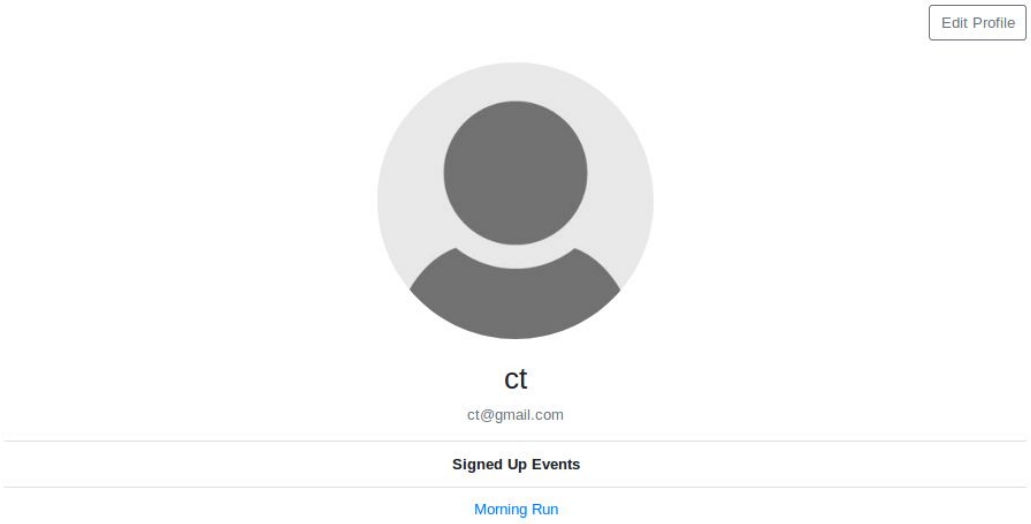
View events, sign up for events, edit events

Once logged in, the homepage of the website displays the list of upcoming events that have been posted by a user. Each listing displays the details of the event. If logged in, the user can sign up for any event by simply clicking the signup button. Also, if they are the creator of the event they have the ability to edit the event, and an edit event button will appear. The user in this instance had not created any events, so that is why no edit event button appears.



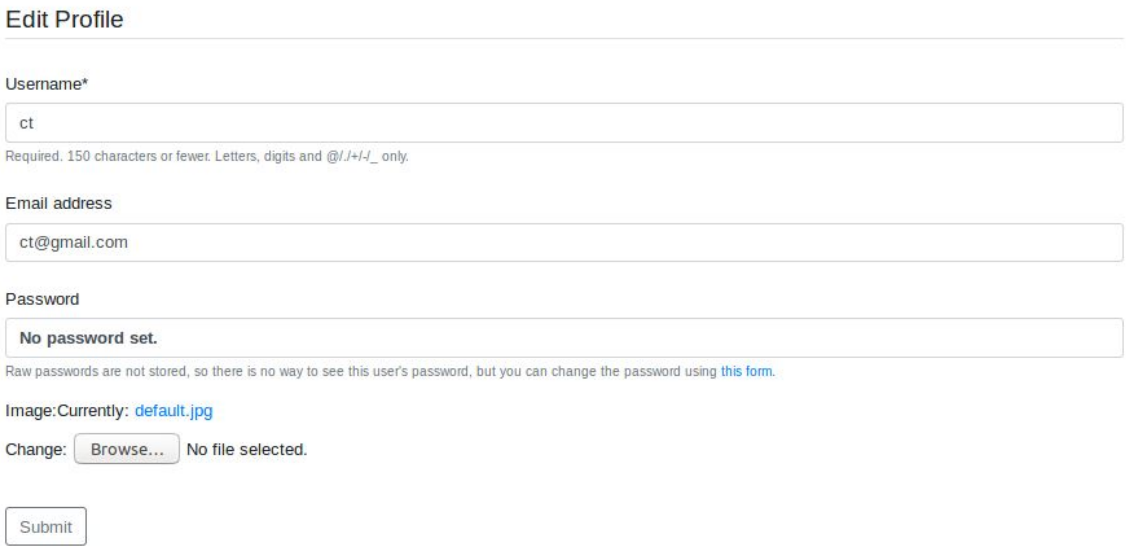
View Profile

If the user clicks the profile picture in the top right corner of the homepage, they have the ability to view their profile details.



Edit Profile

If the user wishes to change their profile name, email, or password they can do so by clicking the edit profile button on top right corner of view profile. This view will be presented to them.

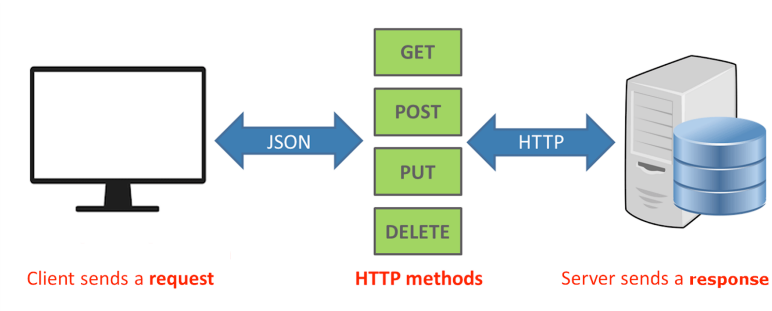


4. Web services design
    a. Google maps API to generate a thumbnail for each event
    b. Amazon Web Services

1. Message format: SOAP, XML, JSON, etc.
2. Request syntax: URI, Parameters & Data types
3. Actions on the server: named methods, HTTP verbs
4. Security: authentication (username & password)
5. Response format: SOAP, XML, JSON, etc.

AWS uses REST API - an abstract concept that defines the characteristics and features you would find in a web service request built according to the REST style

- Uses uniform interfaces. Resources are handled using http POST, GET, PUT, DELETE operations
- -Stateless. Every request is an independent request. Each request from client to server must contain all the information necessary to understand the request



Dynamic Web Server - Consists of a static web server plus extra software, most commonly an *application server* and a *database*. It's dynamic because the application server updates the hosted files before sending them to your browser via the HTTP server.

Database Design

-Currently we are using sqlite3 but will transfer our database over to postgresql
-1 to 1 between users and profiles
-many to many between users and events

Relations

i. Users
    1. ID
    2. Django class handles
        a. username
        b. password
    3. Profile extends user to add profile picture and followed users
    4. email
    5. name

ii. Events
    1. id
    2. Name
    3. Description
    4. Location
    5. Time
    6. Category
    7. author_id
iii. Profile
    1. id
    2. image
    3. user_id