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1. Description of the project

This application is a squirrel tracker which keeps track of all the known squirrels at Central Park. It imports the [2018 Central Park Squirrel Census](#) data and allows to add, update, and view squirrel data. The application is implemented in Django

2. Functionality

- Management commands:
 - a) `$ python manage.py import_squirrel_data /path/to/file.csv`
This command can be used to import the data from the 2018 census file (in CSV format). The file path should be specified at the command line after the name of the management command.
 - b) `$ python manage.py export_squirrel_data /path/to/file.csv`
This command that can be used to export the data in CSV format. The file path should be specified at the command line after the name of the management command.

- Views:

- a) Home:

A view with general stats about the sightings.

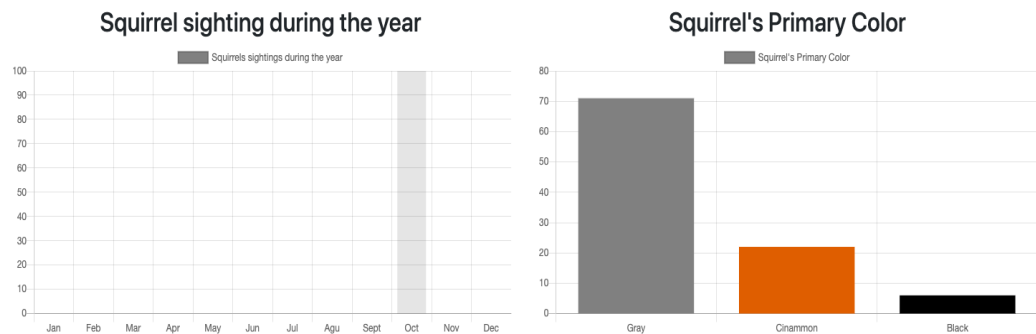
Following 5 attributes are selected to be displayed:

- 1) Squirrel sightings during the year
- 2) Squirrel's primary fur colour
- 3) Squirrel sightings by shift
- 4) Squirrel's age
- 5) Location of squirrel

This view randomly selects 100 samples and displays the above 5 stats for the selected samples.

Note: It may take some time to load the page with stats because it randomly selects 100 samples and then plots the stats.

For example: Below screenshot shows stats for the first two attributes:



- b) Sightings:

A view that lists all squirrel sightings with links to “edit” each

This view should also have a single link to the “add” sighting view

- 1) Update View: To update details for a particular squirrel

When the user clicks on edit, it redirects the user to the Edit page where user can edit details for each squirrel i.e. in this case for `unique_squirrel_id`

- 2) Add View: To create a new squirrel sightings

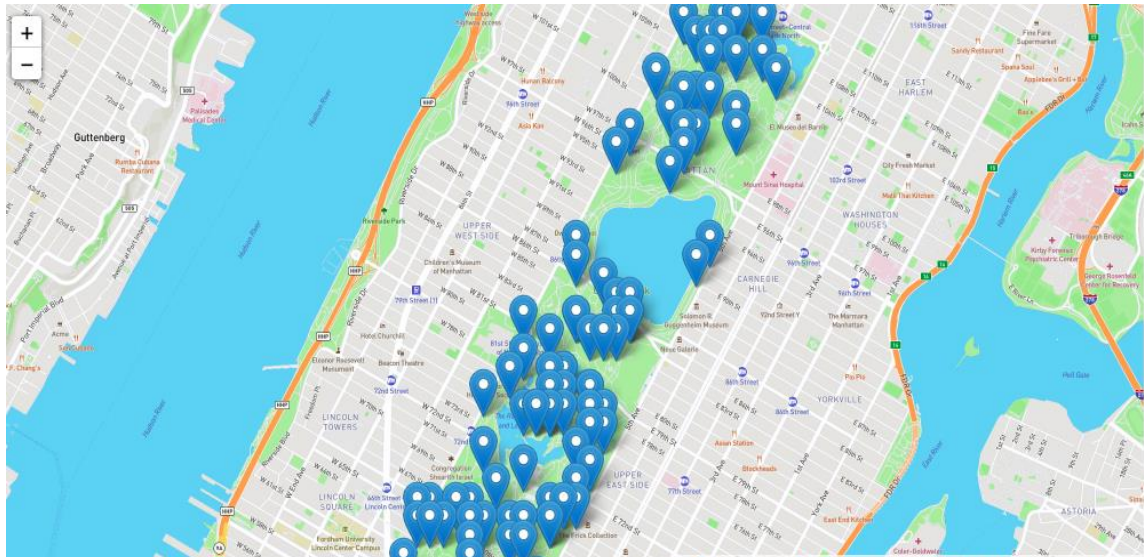
When the user clicks on add, it redirects the user to the Add page where user can create new squirrel sightings for inputting required data for each squirrel

- c) Map:

A view that shows a map that displays the location of the squirrel sightings on an OpenStreets map.

It randomly selected 100 samples from the data and plots it on the map

Used <https://leafletjs.com/> library for plotting



3. Technologies

- a) Python 3.7
- b) Django 2.2.7
- c) Bootstrap

4. Installation

Clone the git repo using

git clone https://github.com/MaximilianoVedoya/Group25_TFA.git

Then run

python manage.py runserver

See below screenshot for reference:

```
(base) dyn-209-2-211-143:desktop kshipra$ git clone https://github.com/MaximilianoVedoya/Group25_TFA.git
Cloning into 'Group25_TFA'...
remote: Enumerating objects: 552, done.
remote: Counting objects: 100% (552/552), done.
remote: Compressing objects: 100% (269/269), done.
remote: Total 552 (delta 423), reused 403 (delta 282), pack-reused 0
Receiving objects: 100% (552/552), 938.70 KiB | 3.50 MiB/s, done.
Resolving deltas: 100% (423/423), done.
(base) dyn-209-2-211-143:desktop kshipra$ python manage.py runserver
python: can't open file 'manage.py': [Errno 2] No such file or directory
(base) dyn-209-2-211-143:desktop kshipra$ cd Group25_TFA
(base) dyn-209-2-211-143:Group25_TFA kshipra$ ls
2018_Central_Park_Squirrel_Census_-_Squirrel_Data.csv
Group25_TFA
db.sqlite3
manage.py
products.csv
project
sightings
templates
(base) dyn-209-2-211-143:Group25_TFA kshipra$ python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
December 05, 2019 - 18:07:35
Django version 2.2.7, using settings 'project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

Click on <http://127.0.0.1.8000/>

You can view the 'Squirrel Tracker' Application with all the functionalities mentioned above

5. Group Name and Section

Project Group 25, Section 2

6. UNI of each member of the team

"UNIs: [kc3311, mv2779]"

Kshipra Chowdhary - UNI: kc3311

Maximiliano Ramirez – UNI: mv2779

7. A link to the server running the application

<https://fluted-ranger-255500.appspot.com/>