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# =====  
# README.md  
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# Created     : Jun 2019  
# =====
```

Requirements

This was built and tested using MacOS but it should work well with any flavor of Linux or Windows

Python 3.6 or later but I am sure Python 3.* would work

Docker is optional

conda or virtualenv is optional

For testing the application:

- Browser (most popular browsers except for IE should work)

- Postman chrome extension or some similar tool

Running the Application

dockerfile is included

requirements.txt is included to cover dependent packages

Tests are written using unittest and are part of the build process

Python version: 3.6.2

I use conda for development but this should work with virtualenv as well

To run:

- > In linux shell navigate to `tailssubmission` folder

- > If you are not using docker then run `pip install -r requirements.txt`

- > In the linux shell, run `python app.py`

To see the application:

- > In browser visit <http://localhost:5000> to see the html rendering

- > In browser visit <http://localhost:5000/data> to see the raw json

- > Using Postman chrome extension visit <http://localhost:5000/data> with GET to see the raw json

- > using Postman chrom extension visit <http://localhost:5000/radius> with POST, headers = {'Content-type': 'application/json'} to get list of postcodes within the 20 kilometers radius (default)

- > using Postman chrom extension visit <http://localhost:5000/radius> with POST, headers = {'Content-type': 'application/json'} and add json

```
{  
    "postcode": "N11 3PW",  
    "radius": 10,  
    "distance_in": "mi"  
}
```

to get list of postcodes within the 10 miles radius of "N11 3PW"

To see the logs:

I have implemented logging. To tail the logs

> In linux shell navigate to `tailssubmission/logs` folder

> In the linux shell, run `tail -f app.log`

To run the tests:

> In linux shell navigate to `tailssubmission` folder

> In the linux shell, run `python -m unittest`

Application Structure

controllers Folder

Contains a Controller module with Controller class to implement MVC:

Controller

helpers Folder

Contains a set of helper modules with Helper classes:

Logging

LogHelper

PostCodeHelper

blueprints Folder

Contains a blueprint module that has one blueprint that contains 3 routes

static Folder

Contains css folder/file, header image and stores.json

settings Folder

Contains a .env file of the project

Templates Folder

Contains the html files for rendering

Final Notes

I thoroughly enjoy doing this test

I ran all .py files through pep8 checker to ensure PEP8 format is adhered too :)