Objective: Deploy the url shortener application into your AWS-EB. After you've deployed the url shortener application, create your own Flask application. Deploy your created flask application and the To Do List application into your AWS-EB.

After successfully deploying the url shortner application, the Flask application I decided to make was a weather application that tells you the current temperature and description of a pre chosen location. The flask application ran perfectly on the local host port 5000 but the issue came when trying to deploy it to Elastic Beanstalk. My environment kept degrading. I first tried fixing it by renaming my file to application.py and adding application=app=Flask(__name__) to the python script. Still my environment kept degrading. After asking a classmate for help we decided to look at the log files the environment generated and realized that the error was coming from my requirements.txt file.

```
2021/09/10 23:47:45.386678 [ERROR] An error occurred during execution of command [app-deploy] - [InstallDependency]. Stop running the command. Error: fail to install dependencies
with requirements.txt file with error Command /bin/sh -c /var/app/venv/staging-LQMllest/bin/pip install -r requirements.txt failed with error exit status 1. Stderr:ERROR: Could not
install packages due to an OSError: [Errno 2] No such file or directory: '/opt/concourse/worker/volumes/live/0291c9e1-4b15-459f-623e-2770f55be269/volume/appnope_1594338395037/work'
```

When I first did the pip freeze command I saw that I had a lot of dependencies but I didn't know exactly why. After creating a new requirements.txt file we then ran into another issue seen below:

```
During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/cli/base_command.py", line 173, in _main
    status = self.run(options, args)
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/cli/req_command.py", line 203, in wrapper
    return func(self, options, args)
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/commands/install.py", line 286, in run
    reqs = self.get_requirements(args, options, finder, session)
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/cli/req_command.py", line 387, in get_requirements
    req_to_add = install_req_from_parsed_requirement(
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/req/constructors.py", line 447, in install_req_from_parsed_requirement
    req = install_req_from_line(
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/req/constructors.py", line 382, in install_req_from_line
    parts = parse_req_from_line(name, line_source)
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_internal/req/constructors.py", line 285, in parse_req_from_line
    markers = Marker(markers_as_string)
  File "/var/app/venv/staging-LQMllest/lib/python3.8/site-packages/pip/_vendor/packaging/markers.py", line 280, in __init__
    raise InvalidMarker(
pip._vendor.packaging.markers.InvalidMarker: Invalid marker: 'python_version >= â€˜3.6â€™', parse error at 'â€˜3.6â€™'
```

That time it was just a syntax error due to quotes in the requirements file. The third error had to do with the requests library not being included in the requirements file as seen below:

```
Sep 11 00:24:52 ip-172-31-39-229 web: File "<frozen importlib._bootstrap>", line 219, in _call_with_frames_removed
Sep 11 00:24:52 ip-172-31-39-229 web: File "/var/app/current/application.py", line 2, in <module>
Sep 11 00:24:52 ip-172-31-39-229 web: import requests
Sep 11 00:24:52 ip-172-31-39-229 web: ModuleNotFoundError: No module named 'requests'
```

Finally after fixing all of those issues my app was able to be deployed on Elastic Beanstalk. The Todo App was also deployed with no issues.

GitHub Repos:
https://github.com/bjones519/WeatherApp
https://github.com/bjones519/ToDoListFlaskApp