COSC 4353 Assignment 3

Travis Baylor, Sammy Melendez, Khang Pham

1. Provide link to Github repository

https://github.com/sammito1/fuel

2. List what backend technologies you are using and why?

We are using Django as our backend web framework due to its prevalence in modern web applications like Instagram, Quora, NASA, and many more, along with its relative ease of setup/use and thorough official documentation. Importantly, we leveraged Django's unified and straightforward approach to implementing complex components like forms in a reliable manner, which would otherwise require complex front and back-end validations to be manually implemented. Additionally, we took advantage of Django's support for HTML templating, which enables one to write HTML code that can be inherited by child templates from parent templates, thus maximizing code reusability. Lastly, we chose Django due to our shared familiarity with Python and its libraries like coverage.py, which we used to generate our code coverage report for question 3.

3. Provide code coverage report

```
/mnt/d/fuel/fuel project main*
base > coverage run --source='./fuel_app' manage.py test fuel_app
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
Ran 10 tests in 0.083s
OK
Destroying test database for alias 'default'...
/mnt/d/fuel/fuel project main*
base > coverage report
Name
                                   Stmts
                                           Miss Cover
fuel_app/__init__.py
                                       0
                                              0
                                                  100%
fuel_app/admin.py
                                              0
                                                  100%
                                       1
fuel app/apps.py
                                       3
                                                  100%
fuel_app/forms.py
                                                  100%
                                      19
fuel app/migrations/ init .py
                                       0
                                              0
                                                  100%
fuel app/models.py
                                              0
                                                  100%
                                       1
fuel app/tests.py
                                      62
                                             14
                                                   77%
fuel_app/urls.py
                                       3
                                                  100%
                                              0
fuel app/views.py
                                      37
                                              8
                                                   78%
TOTAL
                                                   83%
                                     126
                                             22
```

We reached 83% code coverage in our application according to the coverage.py module (https://coverage.readthedocs.io/en/coverage-5.5/)

4. List who did what within the group.

- Travis
 - Designed and implemented view for profile module
 - Designed and implemented automated unit tests for profile module
- Khang:
 - Designed and implemented view for fuel quote module
 - Designed and implemented automated unit tests for fuel quote module
- Sammy:
 - Set up initial Django application
 - Designed and implemented view for login/registration module

 $-\,$ Designed and implemented automated unit tests for login/registration module