M14_HW

July 11, 2022

1 Metadata

```
Course:  DS 5100
Module:  14 Python Packages
Topic:   HW Package Booklover
Author:  R.C. Alvarado
Date:    11 July 2022
```

2 Student Metadata

- Name: Jessica Kimbrell
- NetID: dfn7vs

3 Instructions

Follow the recipe we used in class to package the code you wrote for `HW09` – `booklover.py` and `booklover_test.py`.

Here is the recipe: * Create a new git repo for your package. * Create and edit the required files and directories for your package and move the booklover modules there. * Stage, commit, and push all the files you've created. * Install your package with pip. * Outside of your package dir, write a script to test your method.

Put this notebook in your repo. This will allow you to execute bash commands and capture the outpunt directly in the notebook.

TOTAL: 8 POINTS

4 Q1

(5 points)

Show the directory structure of your repo by running this command from the root of your repo:

[1]:
```
!ls -lR
```

```
.:
total 24
drwxr-sr-x 3 dfn7vs users 2048 Jul 11 13:42 booklover
-rw-r--r-- 1 dfn7vs users 1066 Jul 11 13:34 LICENSE
```

```
-rw-r--r-- 1 dfn7vs users 3757 Jul 11 13:34 M14_HW.ipynb
-rw-r--r-- 1 dfn7vs users   16 Jul 11 13:34 README.md
-rw-r--r-- 1 dfn7vs users  298 Jul 11 13:41 setup.py

./booklover:
total 20
-rw-r--r-- 1 dfn7vs users 1402 Jul 11 13:36 booklover.py
-rw-r--r-- 1 dfn7vs users 2710 Jul 11 13:36 booklover_test.py
-rw-r--r-- 1 dfn7vs users   41 Jul 11 13:42 __init__.py
```

5 Q2

(1 point)

Put the URL of your GitHub repo here. Just paste it into a Markdown cell.

URL: https://github.com/kimbrellj/M14_HW_Package

6 Q3

(1 point)

Show the results of installing your package.

```
!pip install -e .
```

[9]:
```
!module load anaconda/2020
!pip install -e .
```

```
Defaulting to user installation because normal site-packages is not writeable
Obtaining file:///sfs/qumulo/qhome/dfn7vs/Documents/MSDS/DS5100/M14_HW_Package
Installing collected packages: Booklover
  Attempting uninstall: Booklover
    Found existing installation: Booklover 0.1
    Uninstalling Booklover-0.1:
      Successfully uninstalled Booklover-0.1
  Running setup.py develop for Booklover
Successfully installed Booklover
```

7 Q4

(1 point)

Create a file outside your repo (one level up) to test your package.

Import the package and run it. Specifically, create a BookLover object, add a book, and then print number books read.

Show the output of running the file below, using a command like the following:

```
!python ../book_lover_demo.py
```

[12]:
```
!python ../book_lover_demo.py
```

```
Welcome to the booklover module!
1
```