Metadata

Course: DS 5100

Module: 09 Python Packages
Topic: HW Package Booklover
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Date: 7 July 2023 (revised)

Student Info

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• URL of this file in GitHub: https://github.com/jkenzak/HW9/blob/main/hw09.ipynbs

Instructions

In your **private course repo on Rivanna**, use this Jupyter notebook and the data file described to write code that performs the tasks below.

Save your notebook in the M09 directory.

Remember to add and commit these files to your repo.

Then push your commits to your repo on GitHib.

Be sure to fill out the **Student Info** block above.

To submit your homework, save your results as a PDF and upload it to GradeScope. More information about how to create the PDF for this assignment are included at the end of this document.

TOTAL POINTS: 8

Overview

Follow the following recipe we used in class to package the code you wrote for HW08 -- booklover.py and booklover_test.py.

- 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

Tasks

Task 1

(5 points)

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

In [1]: !ls -lR

```
total 40
drwxr-xr-x 6 jackkenzakowski staff 192 Jul 2 12:22 BookLovers
drwxr-xr-x 6 jackkenzakowski staff 192 Jul 2 12:25 BookLovers.egg-info
-rw-r--r-- 1 jackkenzakowski staff 1073 Jul 2 12:12 LICENSE
-rw-r--r-- 1 jackkenzakowski staff 5 Jul 2 12:12 README.md
drwxr-xr-x 4 jackkenzakowski staff 128 Jul 2 12:25 build
-rw-r--r 1 jackkenzakowski staff 5299 Jul 2 12:08 hw09.ipynb
-rw-r--r-- 1 jackkenzakowski staff 280 Jul 2 12:25 setup.py
./BookLovers:
total 24
-rw-r--r 1 jackkenzakowski staff 29 Jul 2 12:22 init .py
-rw-r--r- 1 jackkenzakowski staff 1034 Jul 1 16:32 booklover.py
-rw-r--r 1 jackkenzakowski staff 1941 Jul 1 16:29 booklover_test.py
./BookLovers.egg-info:
total 32
-rw-r--r- 1 jackkenzakowski staff 210 Jul 2 12:25 PKG-INFO
-rw-r--r 1 jackkenzakowski staff 238 Jul 2 12:25 SOURCES.txt
-rw-r--r-- 1 jackkenzakowski staff 1 Jul 2 12:25 dependency_links.txt
-rw-r--r-- 1 jackkenzakowski staff 11 Jul 2 12:25 top_level.txt
./build:
total 0
drwxr-xr-x 2 jackkenzakowski staff 64 Jul 2 12:25 bdist.macosx-10.9-x86
drwxr-xr-x 3 jackkenzakowski staff 96 Jul 2 12:25 lib
./build/bdist.macosx-10.9-x86_64:
./build/lib:
total 0
drwxr-xr-x 5 jackkenzakowski staff 160 Jul 2 12:25 BookLovers
./build/lib/BookLovers:
total 24
-rw-r--r- 1 jackkenzakowski staff 29 Jul 2 12:22 __init__.py
-rw-r--r 1 jackkenzakowski staff 1034 Jul 1 16:32 booklover.py
-rw-r--r- 1 jackkenzakowski staff 1941 Jul 1 16:29 booklover_test.py
```

Task 2

(1 point)

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

URL: https://github.com/jkenzak/HW9

Task 3

(1 point)

Show the results of installing your package.

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

```
In [7]: !pip install -e .
```

Obtaining file:///Users/jackkenzakowski/HW9 Preparing metadata (setup.py) ... done Installing collected packages: BookLovers Running setup.py develop for BookLovers Successfully installed BookLovers-0.1

Task 4

(1 point)

Create a file outside your repo to test your package by running it.

To do this, import the package into your file and create a BookLover object.

Then add a book and then print number books read.

Then run the file.

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

!python ../book_lover_demo.py

```
In [9]: !python ../Desktop/book_lover_demo.py
```

Welcome to BookLover

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