M09-HW about:sredoc

Metadata

Course: DS 5100

Module: 09 Python Packages
Topic: HW Package Booklover
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Date: 10 October 2022 (revised)

Student Info

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 URL of this file in GitHub: https://github.com/ballard11/DS5100-2022-08-O/tree /main/lessons/M09_PythonModules/HW9_Package

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.

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- 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 [3]:
```

```
%ls -1R
```

```
Volume in drive C has no label.
Volume Serial Number is OCO5-53DB
```

Directory of C:\Users\Ben\OneDrive\Documents\UVA 1st Semester\Programming New Githu b\DS5100-2022-08-0\lessons\M09_PythonModules

File Not Found

```
Directory: C:\Users\Ben\OneDrive\Documents\UVA 1st
Semester\Programming New Github\DS5100-2022-08-0\lessons
\M09_PythonModules\HW9_Package
```

Mode LastWriteTime Length Name

da---l 11/3/2022 10:32 PM .ipynb_checkpoints da---l 11/3/2022 10:26 PM HW_package.egg-info da---l 11/3/2022 10:27 PM **pycache** -a---l 11/3/2022 10:32 PM 1508 booklover.py -a---l 11/2/2022 8:46 PM 2931 booklover_test.py -a---l 11/2/2022 8:46 PM 5879 M09-HW.ipynb -a---l 11/3/2022 10:26 PM 103 setup.py -a---l 11/2/2022 8:46 PM 2 **init**.py

Task 2

(1 point)

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

URL: https://github.com/ballard11/DS5100-2022-08-O.git

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Task 3

```
(1 point)
```

Show the results of installing your package.

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

```
In [4]:
```

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

Obtaining file:///C:/Users/Ben/OneDrive/Documents/UVA%201st%20Semester/Programming%20New%20Github/DS5100-2022-08-0/lessons/M09_PythonModules

```
ERROR: Command errored out with exit status 1:
    command: 'C:\Users\Ben\anaconda3\python.exe' -c 'import sys, setuptools, tokeniz
e; sys.argv[0] = '"'"'C:\\Users\\Ben\\OneDrive\\Documents\\UVA 1st Semester\\Programm
ing New Github\\DS5100-2022-08-0\\lessons\\M09_PythonModules\\setup.py'"'"; __file__
='"'"'C:\\Users\\Ben\\OneDrive\\Documents\\UVA 1st Semester\\Programming New Github\\
DS5100-2022-08-0\\lessons\\M09_PythonModules\\setup.py'"'";f=getattr(tokenize, '"'"
open'"'", open)(__file__);code=f.read().replace('"'"'\r\n'""', '"'"'\n'""');f.clos
e();exec(compile(code, __file__, '"'"'exec'"'"'))' egg_info --egg-base 'C:\Users\\Ben\\AppData\\Local\\Temp\pip-pip-egg-info-jn1ipvxx'
```

cwd: C:\Users\Ben\OneDrive\Documents\UVA 1st Semester\Programming New Githu
b\DS5100-2022-08-0\lessons\M09_PythonModules\

```
Complete output (6 lines):
```

```
Traceback (most recent call last):
```

File "<string>", line 1, in <module>

 $\label{lem:constant} File "C:\Users\Ben\OneDrive\Documents\UVA 1st Semester\Programming New Github\D S5100-2022-08-0\lessons\M09_PythonModules\setup.py", line 6$

```
author='Ben Ballard'
```

SyntaxError: invalid syntax

WARNING: Discarding file:///C:/Users/Ben/OneDrive/Documents/UVA%201st%20Semester/Prog ramming%20New%20Github/DS5100-2022-08-0/lessons/M09_PythonModules. Command errored ou t with exit status 1: python setup.py egg_info Check the logs for full command outpu

ERROR: Command errored out with exit status 1: python setup.py egg_info Check the log s for full command output.

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
```

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Installing package from console

PS C:\Users\Ben\OneDrive\Documents\UVA 1st Semester\Programming New Github\DS5100-2022-08-O\lessons\M09_PythonModules\HW9_Package> pip install -e . Obtaining file:///C:/Users/Ben/OneDrive/Documents/UVA%201st%20Semester /Programming%20New%20Github/DS5100-2022-08-O/lessons/M09_PythonModules /HW9_Package Installing collected packages: HW-package Running setup.py develop for HW-package Successfully installed HW-package

Running in Python

PS C:\Users\Ben\OneDrive\Documents\UVA 1st Semester\Programming New Github\DS5100-2022-08-O\lessons\M09_PythonModules\HW9_Package> python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32 Type "help", "copyright", "credits" or "license" for more information.

importing Booklover and calling it, creating object

import booklover BookLover() Traceback (most recent call last): File "", line 1, in NameError: name 'BookLover' is not defined booklover.BookLover() Traceback (most recent call last): File "", line 1, in TypeError: init() missing 3 required positional arguments: 'name', 'email', and 'fav_genre'

booklover.BookLover("Be", "bkq5nt@virginia.edu", "scifi")

<booklover.BookLover object at
0x0000010C51295370>