

Week 4: Deployment on Flask

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Batch Code: LISUM02

Submission Date: 12/08/2021

Submitted to: GitHub

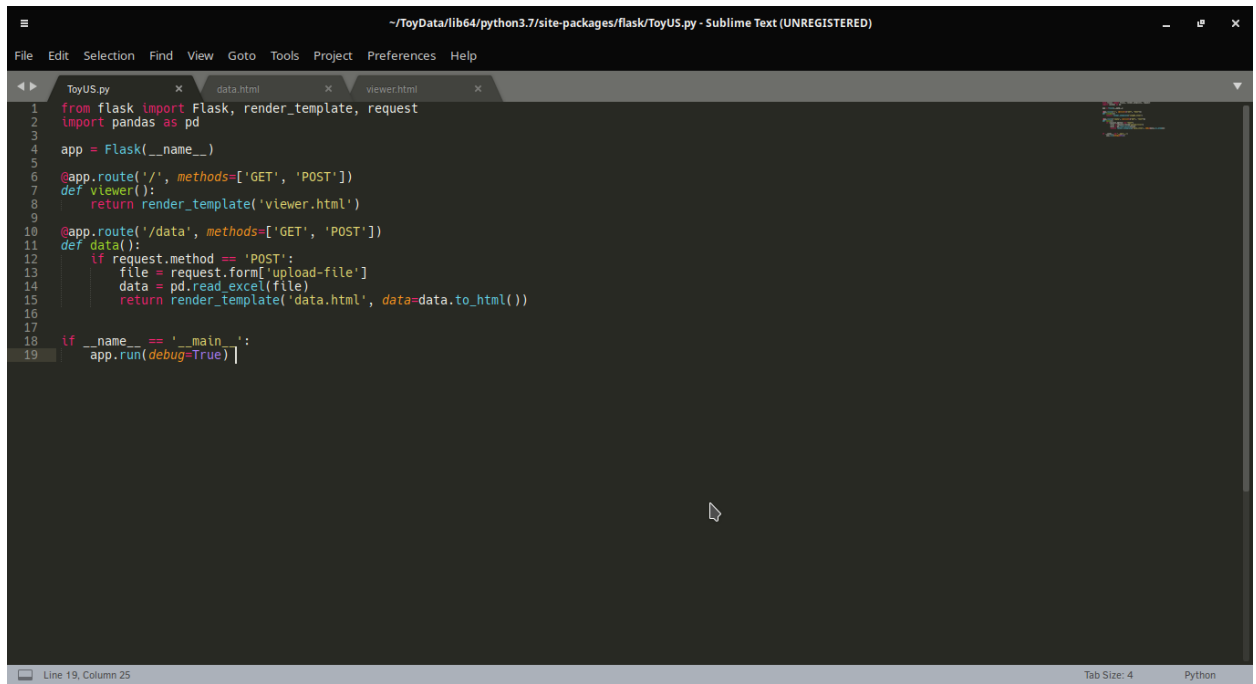
Files Created

Name	Date modified	Type	Size
__pycache__	8/12/2021 12:51 AM	File folder	
json	8/9/2021 7:19 PM	File folder	
templates	8/11/2021 11:17 PM	File folder	
__init__.py	8/9/2021 7:19 PM	PY File	3 KB
__main__.py	8/9/2021 7:19 PM	PY File	1 KB
app.py	8/9/2021 7:19 PM	PY File	81 KB
blueprints.py	8/9/2021 7:19 PM	PY File	23 KB
cli.py	8/9/2021 7:19 PM	PY File	32 KB
config.py	8/9/2021 7:19 PM	PY File	11 KB
ctx.py	8/9/2021 7:19 PM	PY File	18 KB
debughelpers.py	8/9/2021 7:19 PM	PY File	7 KB
globals.py	8/9/2021 7:19 PM	PY File	2 KB
helpers.py	8/9/2021 7:19 PM	PY File	30 KB
logging.py	8/9/2021 7:19 PM	PY File	3 KB
py.typed	8/9/2021 7:19 PM	TYPED File	0 KB
scaffold.py	8/9/2021 7:19 PM	PY File	32 KB
sessions.py	8/9/2021 7:19 PM	PY File	15 KB
signals.py	8/9/2021 7:19 PM	PY File	3 KB
templating.py	8/9/2021 7:19 PM	PY File	6 KB
testing.py	8/9/2021 7:19 PM	PY File	11 KB
toydata.xlsx	8/11/2021 10:47 PM	Microsoft Excel W...	10 KB
ToySales.py	8/11/2021 11:16 PM	PY File	1 KB
typing.py	8/9/2021 7:19 PM	PY File	2 KB
views.py	8/9/2021 7:19 PM	PY File	6 KB
wrappers.py	8/9/2021 7:19 PM	PY File	6 KB

Sample Data

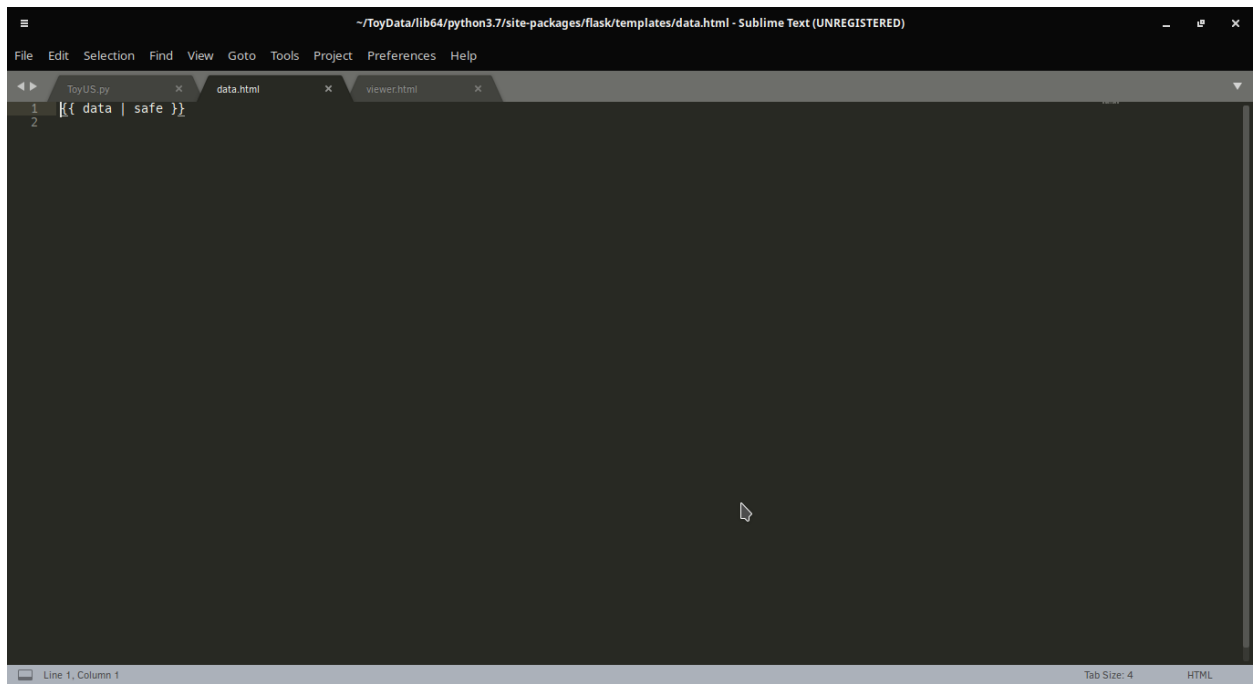
Traditional Toy Categories	2018	2019	2020	2018 vs 2019 % change	2019 vs 2020 % change
Grand Total (US POS – 78% Coverage)	\$22.69	\$21.66	\$25.14	-4.50%	16.10%
Action Figures & Accessories	\$1.57	\$1.72	\$1.66	9.20%	-3.20%
Arts & Crafts	\$1.09	\$1.05	\$1.17	-3.70%	10.90%
Building Sets	\$1.87	\$1.82	\$2.29	-2.50%	25.50%
Dolls	\$3.46	\$3.29	\$3.64	-5.00%	10.70%
Explorative & Other Toys	\$1.48	\$1.39	\$1.56	-6.00%	12.10%
Games/Puzzles	\$2.23	\$2.21	\$2.93	-0.70%	32.20%
Infant/Toddler/Preschool Toys	\$3.31	\$3.00	\$3.27	-9.20%	8.70%
Outdoor & Sports Toys	\$4.24	\$4.16	\$5.35	-1.90%	28.60%
Plush	\$1.32	\$1.20	\$1.25	-9.20%	4.20%
Vehicles	\$1.46	\$1.34	\$1.55	-8.10%	15.70%
Youth Electronics	\$0.64	\$0.46	\$0.47	-27.90%	1.80%

Pre-run Flask Codes



```
1 from flask import Flask, render_template, request
2 import pandas as pd
3
4 app = Flask(__name__)
5
6 @app.route('/', methods=['GET', 'POST'])
7 def viewer():
8     return render_template('viewer.html')
9
10 @app.route('/data', methods=['GET', 'POST'])
11 def data():
12     if request.method == 'POST':
13         file = request.form['upload-file']
14         data = pd.read_excel(file)
15         return render_template('data.html', data=data.to_html())
16
17
18 if __name__ == '__main__':
19     app.run(debug=True)
```

1. Line 19, Column 25 Python



```
1 <table>{{ data | safe }}</table>
2
```

2. Line 1, Column 1 HTML

Sublime Text (UNREGISTERED) - ~/ToyData/lib64/python3.7/site-packages/flask/templates/viewer.html

File Edit Selection Find View Goto Tools Project Preferences Help

ToyUS.py data.html viewer.html

```
1 <form class="" action="data" method="post">
2   <input type="file" name="upload-file" value="">
3   <input type="submit" name="" value="Submit">
4 </form>
5
```

Line 5, Column 1 Tab Size: 4 HTML

3.

Templates for Viewing

 data.html	8/11/2021 11:17 PM	Opera Web Docu...	1 KB
 viewer.html	8/11/2021 10:02 PM	Opera Web Docu...	1 KB

Running Codes

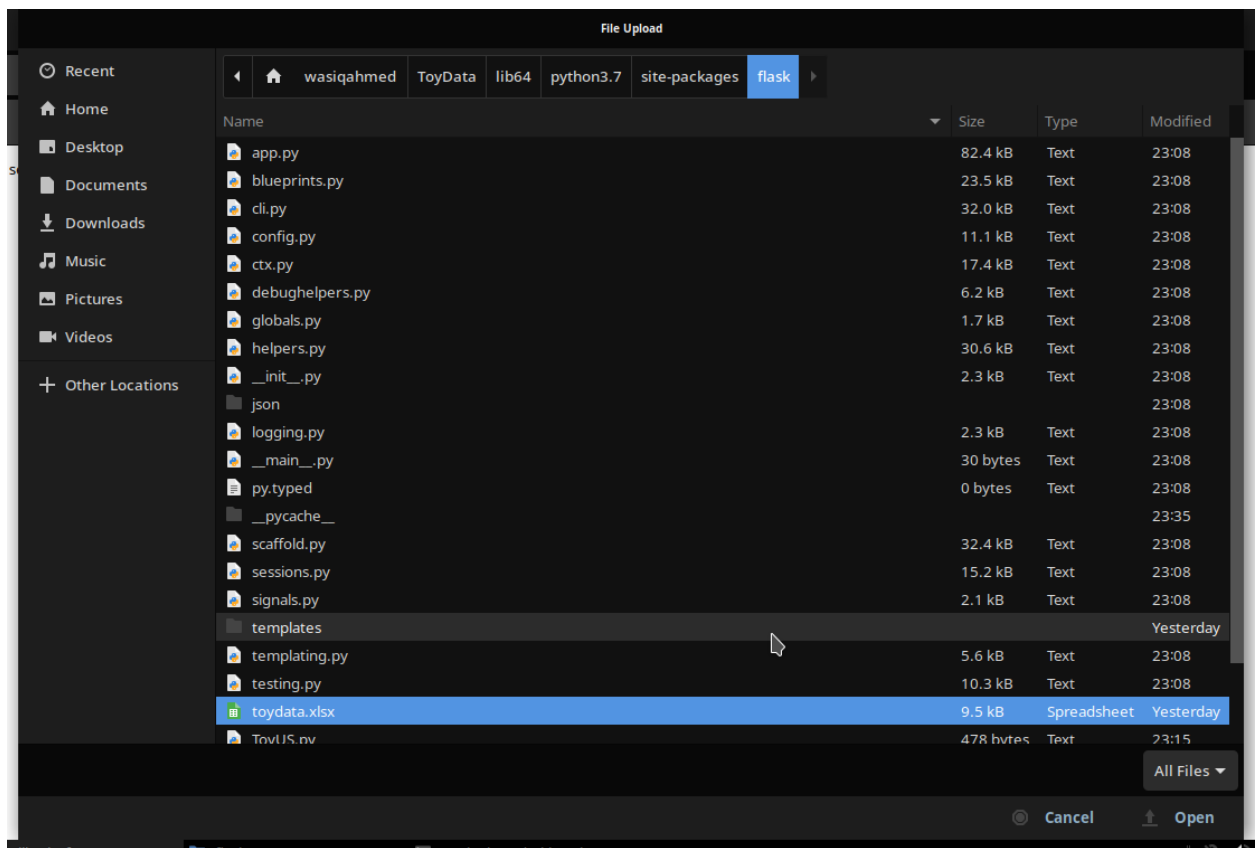
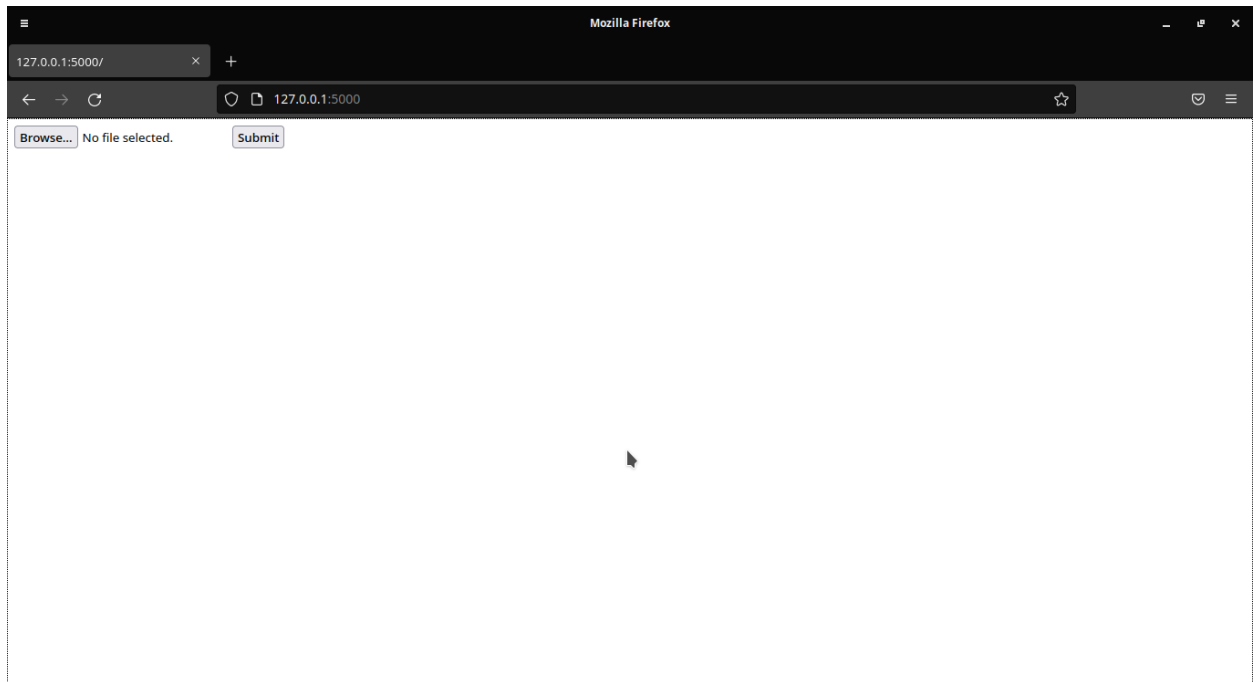
```
wasiqahmed@khumi:~$ python3 -m venv ToyData
wasiqahmed@khumi:~$ . ./ToyData/bin/activate
(ToyData) wasiqahmed@khumi:~$ pip install Flask
Collecting Flask
  Downloading Flask-2.0.1-py3-none-any.whl (94 kB)
    |#####| 94 kB 202 kB/s
Collecting click<7.1.2
  Downloading click-8.0.1-py3-none-any.whl (97 kB)
    |#####| 97 kB 458 kB/s
Collecting Jinja2>=3.0
  Downloading Jinja2-3.0.1-py3-none-any.whl (133 kB)
    |#####| 133 kB 1.3 MB/s
Collecting itsdangerous<=2.0
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting Werkzeug<=2.0
  Downloading Werkzeug-2.0.1-py3-none-any.whl (288 kB)
    |#####| 288 kB 1.2 MB/s
Collecting importlib-metadata
  Downloading importlib_metadata-4.6.3-py3-none-any.whl (17 kB)
Collecting MarkupSafe<=2.0
  Downloading MarkupSafe-2.0.1-cp37-cp37m-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux2_12_x86_64.manylinux2010_x86_64.whl (31 kB)
Collecting zipp<=0.5
  Downloading zipp-3.5.0-py3-none-any.whl (5.7 kB)
Collecting typing-extensions<=3.6.4
  Downloading typing_extensions-3.10.0.0-py3-none-any.whl (26 kB)
Installing collected packages: zipp, typing-extensions, MarkupSafe, importlib-metadata, Werkzeug, Jinja2, itsdangerous, click, Flask
Successfully installed Flask-2.0.1 Jinja2-3.0.1 MarkupSafe-2.0.1 Werkzeug-2.0.1 click-8.0.1 importlib-metadata-4.6.3 itsdangerous-2.0.1 typing-extensions-3.10.0.0 zipp-3.5.0
WARNING: You are using pip version 21.1.3; however, version 21.2.4 is available.
(ToyData) wasiqahmed@khumi:~$ /home/wasiqahmed/ToyData/bin/python3 -m pip install --upgrade pip
Requirement already satisfied: pip in ./ToyData/lib/python3.7/site-packages (21.1.3)
Collecting pip
  Downloading pip-21.2.4-py3-none-any.whl (1.6 MB)
    |#####| 1.6 MB 442 kB/s
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 21.1.3
    Uninstalling pip-21.1.3:
      Successfully uninstalled pip-21.1.3
  Successfully installed pip-21.2.4
(ToyData) wasiqahmed@khumi:~$ pip install pandas
Collecting pandas
  Downloading pandas-1.3.1-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.5 MB)
    |#####| 11.5 MB 212 kB/s
Collecting numpy<=1.17.3
  Downloading numpy-1.21.1-cp37-cp37m-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (15.7 MB)
    |#####| 15.7 MB 103 kB/s
Collecting python-dateutil<=2.7.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    |#####| 247 kB 1.7 MB/s
Collecting pytz<=2017.3
  Downloading pytz-2021.1-py2.py3-none-any.whl (510 kB)
    |#####| 510 kB 1.5 MB/s
Collecting six<=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, pytz, python-dateutil, numpy, pandas
Successfully installed numpy-1.21.1 pandas-1.3.1 python-dateutil-2.8.2 pytz-2021.1 six-1.16.0
(ToyData) wasiqahmed@khumi:~$ pip install openpyxl
Collecting openpyxl
  Downloading openpyxl-3.0.7-py2.py3-none-any.whl (243 kB)
    |#####| 243 kB 468 kB/s
Collecting et_xmlfile
  Downloading et_xmlfile-1.1.0-py3-none-any.whl (4.7 kB)
Installing collected packages: et_xmlfile, openpyxl
Successfully installed et_xmlfile-1.1.0 openpyxl-3.0.7
```

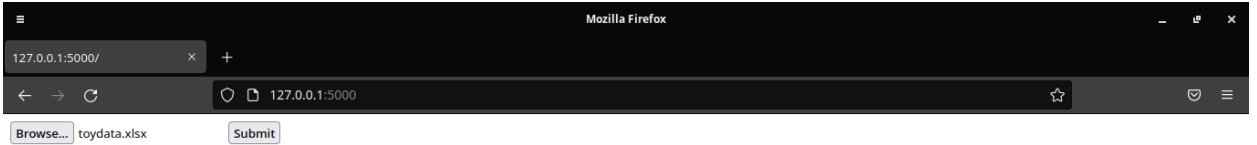
1.

```
wasiqahmed@khumi:~$ pip install openpyxl
Found existing installation: pip 21.1.3
Uninstalling pip-21.1.3:
  Successfully uninstalled pip-21.1.3
Successfully installed pip-21.2.4
(ToyData) wasiqahmed@khumi:~$ pip install pandas
Collecting pandas
  Downloading pandas-1.3.1-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.5 MB)
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Collecting numpy<=1.17.3
  Downloading numpy-1.21.1-cp37-cp37m-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (15.7 MB)
    |#####| 15.7 MB 103 kB/s
Collecting python-dateutil<=2.7.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    |#####| 247 kB 1.7 MB/s
Collecting pytz<=2017.3
  Downloading pytz-2021.1-py2.py3-none-any.whl (510 kB)
    |#####| 510 kB 1.5 MB/s
Collecting six<=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, pytz, python-dateutil, numpy, pandas
Successfully installed numpy-1.21.1 pandas-1.3.1 python-dateutil-2.8.2 pytz-2021.1 six-1.16.0
(ToyData) wasiqahmed@khumi:~$ pip install openpyxl
Collecting openpyxl
  Downloading openpyxl-3.0.7-py2.py3-none-any.whl (243 kB)
    |#####| 243 kB 468 kB/s
Collecting et_xmlfile
  Downloading et_xmlfile-1.1.0-py3-none-any.whl (4.7 kB)
Installing collected packages: et_xmlfile, openpyxl
Successfully installed et_xmlfile-1.1.0 openpyxl-3.0.7
```

2.

Code Results





3.

	Traditional Toy Categories	2018	2019	2020	2018 vs 2019 % change	2019 vs 2020 % change
0	Grand Total (US POS – 78% Coverage)	22.69	21.66	25.14	-0.045	0.161
1	Action Figures & Accessories	1.57	1.72	1.66	0.092	-0.032
2	Arts & Crafts	1.09	1.05	1.17	-0.037	0.109
3	Building Sets	1.87	1.82	2.29	-0.025	0.255
4	Dolls	3.46	3.29	3.64	-0.050	0.107
5	Explorative & Other Toys	1.48	1.39	1.56	-0.060	0.121
6	Games/Puzzles	2.23	2.21	2.93	-0.007	0.322
7	Infant/Toddler/Preschool Toys	3.31	3.00	3.27	-0.092	0.087
8	Outdoor & Sports Toys	4.24	4.16	5.35	-0.019	0.286
9	Plush	1.32	1.20	1.25	-0.092	0.042
10	Vehicles	1.46	134.00	1.55	-0.081	0.157
11	Youth Electronics	0.64	0.46	0.47	-0.279	0.018

4.