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Submitted to: Data Glacier

## Deployment on Flask

Set-up folder and git using Anaconda Prompt

```
(base) C:\Users\innam>mkdir Project && cd Project  
.  
(base) C:\Users\innam>git init
```

Set-up virtual environment using Anaconda

Create a virtual environment

```
(base) C:\Users\innam>conda create -n virtualenv
```

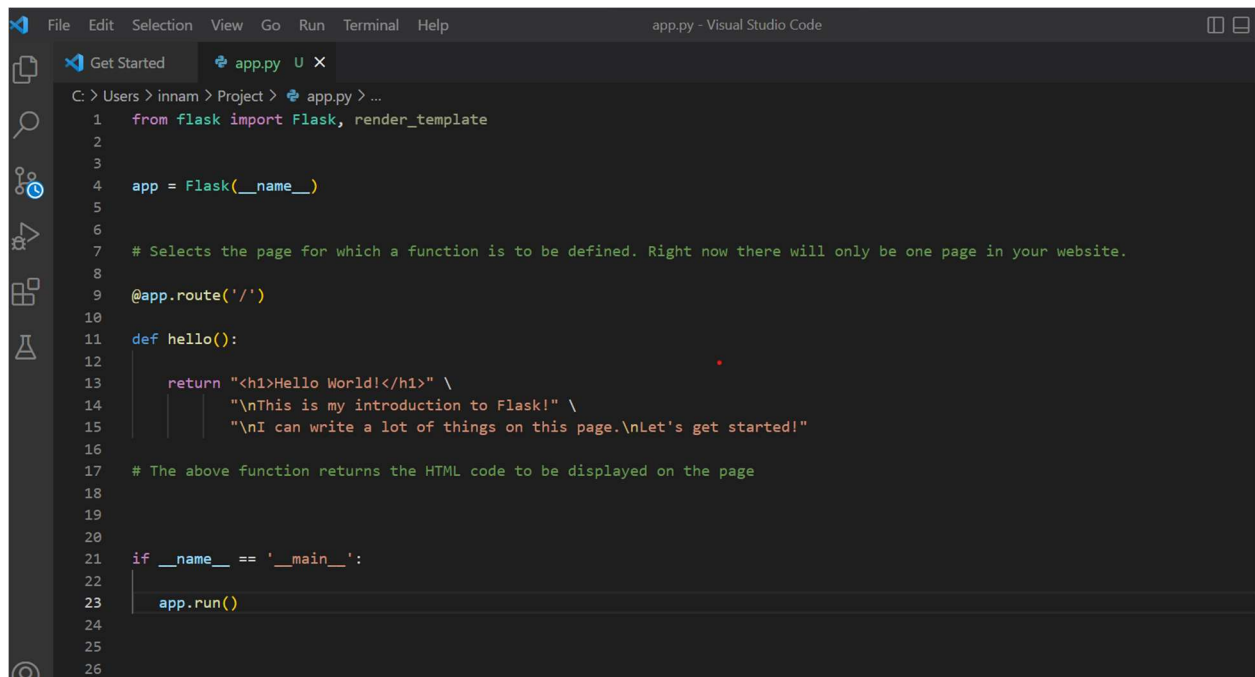
Activate your virtual environment

```
(base) C:\Users\innam>conda activate virtualenv  
.  
(virtualenv) C:\Users\innam>
```

Set-up Flask

```
python -m pip install Flask
```

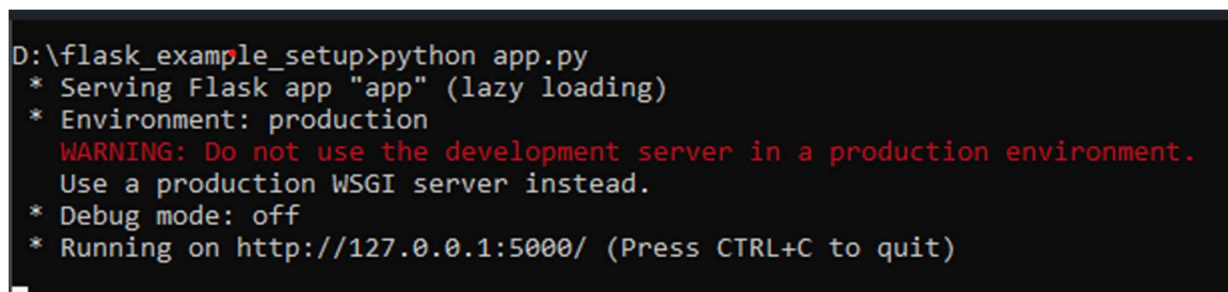
## First Flask Program using Visual Studio Code



The screenshot shows the Visual Studio Code interface with a file named `app.py` open. The code is a simple Flask application that prints a 'Hello World' message and an introduction to Flask. The code is as follows:

```
1  from flask import Flask, render_template
2
3
4  app = Flask(__name__)
5
6
7  # Selects the page for which a function is to be defined. Right now there will only be one page in your website.
8
9  @app.route('/')
10
11  def hello():
12
13      return "<h1>Hello World!</h1>" \
14             "\nThis is my introduction to Flask!" \
15             "\nI can write a lot of things on this page.\nLet's get started!"
16
17  # The above function returns the HTML code to be displayed on the page
18
19
20
21  if __name__ == '__main__':
22
23      app.run()
24
25
26
```

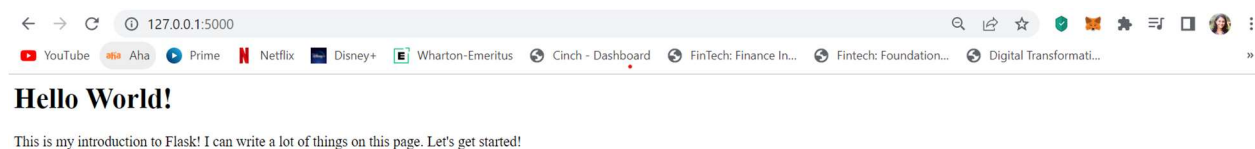
After running `app.py` command in Anaconda prompt



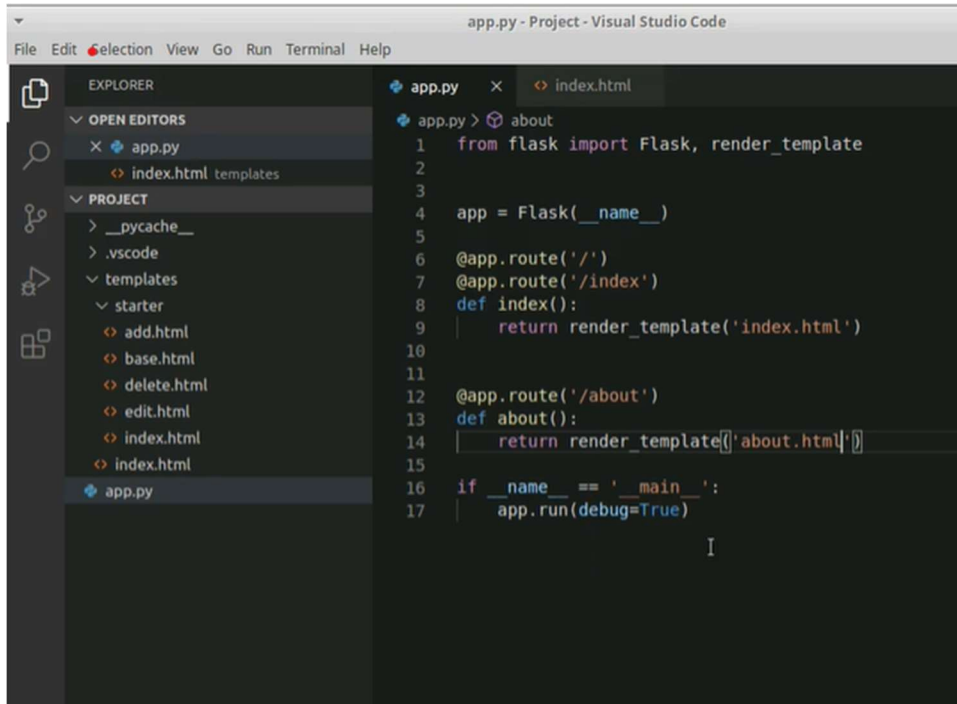
The screenshot shows the output of running the `python app.py` command in the Anaconda Prompt. The output is as follows:

```
D:\flask_example_setup>python app.py
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

## Checking the web http



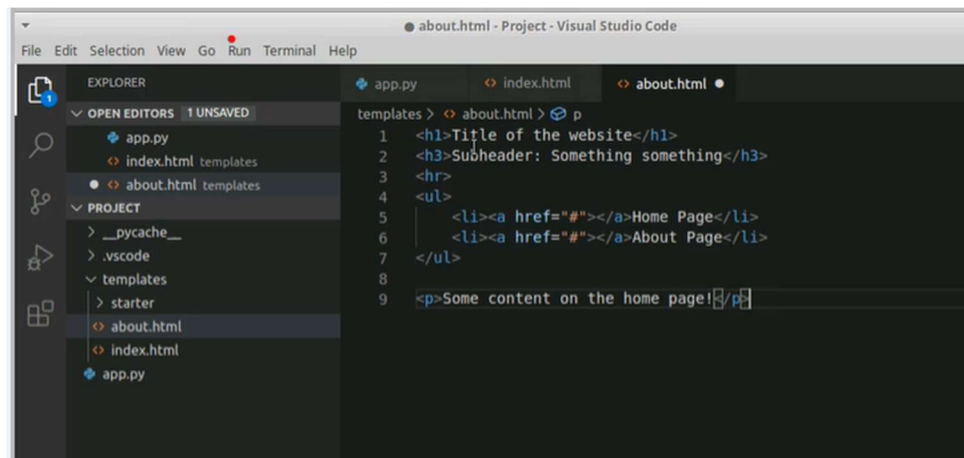
## Extending HTML Templates



```
app.py - Project - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  OPEN EDITORS
    app.py
    index.html templates
  PROJECT
    __pycache__
    .vscode
    templates
    starter
    add.html
    base.html
    delete.html
    edit.html
    index.html
    index.html
    app.py

app.py
1 from flask import Flask, render_template
2
3
4 app = Flask(__name__)
5
6 @app.route('/')
7 @app.route('/index')
8 def index():
9     return render_template('index.html')
10
11
12 @app.route('/about')
13 def about():
14     return render_template('about.html')
15
16 if __name__ == '__main__':
17     app.run(debug=True)
```

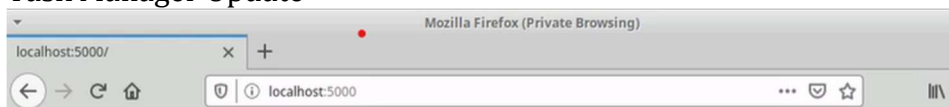


```
about.html - Project - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  OPEN EDITORS 1 UNSAVED
    app.py
    index.html templates
    about.html templates
  PROJECT
    __pycache__
    .vscode
    templates
    starter
    about.html
    index.html
    app.py

templates > about.html > p
1 <h1>Title of the website</h1>
2 <h3>Subheader: Something something</h3>
3 <hr>
4 <ul>
5     <li><a href="#"></a>Home Page</li>
6     <li><a href="#"></a>About Page</li>
7 </ul>
8
9 <p>Some content on the home page!</p>
```

## Task Manager Update



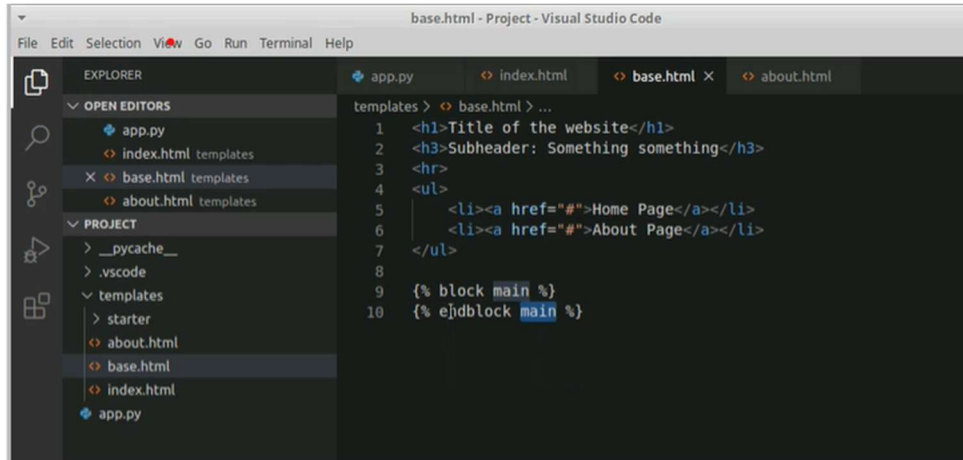
### Title of the website

#### Subheader: Something something

- Home Page
- About Page

Some content on the home page!

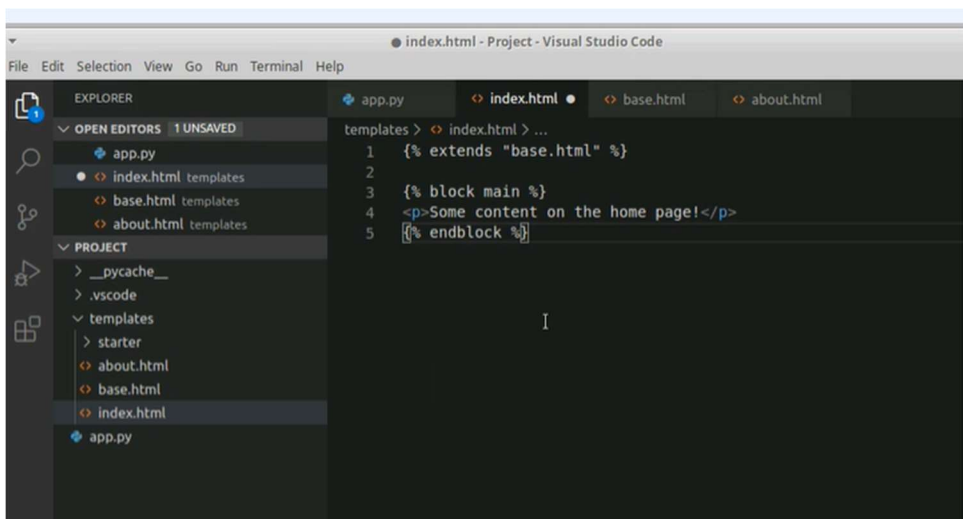
## Creating a copy of about.html – base.html



```
base.html - Project - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
OPEN EDITORS
  app.py
  index.html templates
  base.html templates
  about.html templates
PROJECT
  __pycache__
  .vscode
  templates
  starter
  about.html
  base.html
  index.html
  app.py

templates > base.html > ...
1 <h1>Title of the website</h1>
2 <h3>Subheader: Something something</h3>
3 <hr>
4 <ul>
5   <li><a href="#">Home Page</a></li>
6   <li><a href="#">About Page</a></li>
7 </ul>
8
9 {% block main %}
10 {% endblock main %}
```

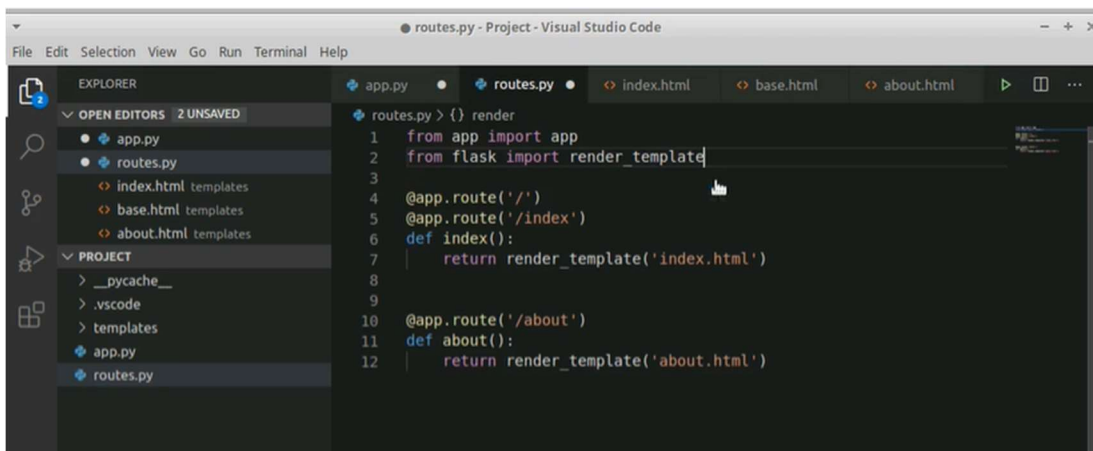


```
index.html - Project - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
OPEN EDITORS 1 UNSAVED
  app.py
  index.html templates
  base.html templates
  about.html templates
PROJECT
  __pycache__
  .vscode
  templates
  starter
  about.html
  base.html
  index.html
  app.py

templates > index.html > ...
1 {% extends "base.html" %}
2
3 {% block main %}
4 <p>Some content on the home page!</p>
5 {% endblock %}
```

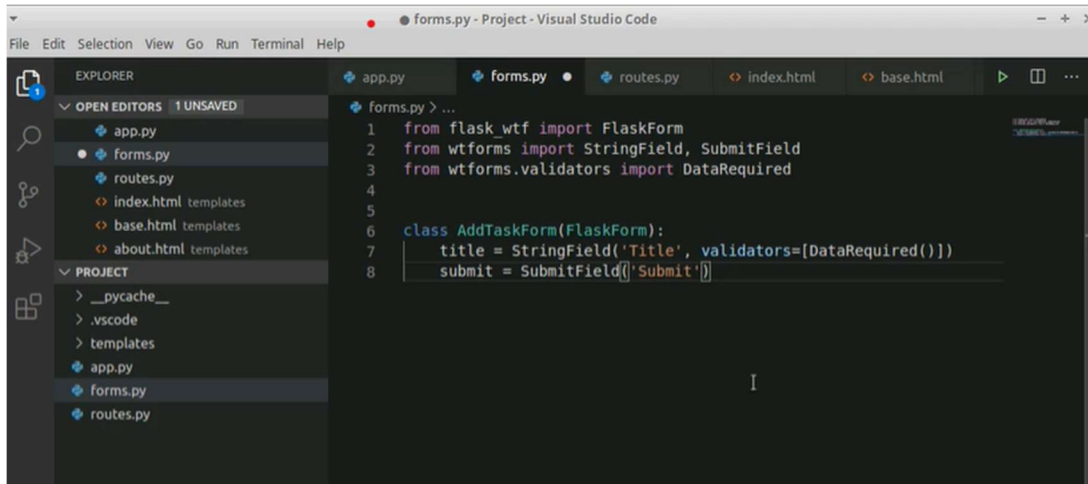
## Refactoring and Forms



```
routes.py - Project - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
OPEN EDITORS 2 UNSAVED
  app.py
  routes.py
  index.html templates
  base.html templates
  about.html templates
PROJECT
  __pycache__
  .vscode
  templates
  starter
  about.html
  base.html
  index.html
  app.py
  routes.py

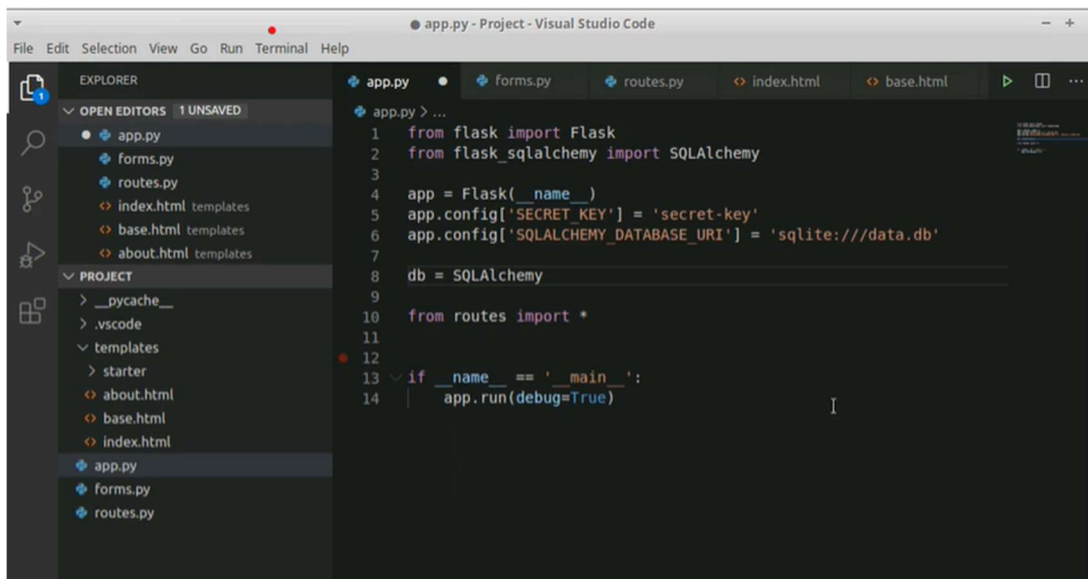
routes.py > {} render
1 from app import app
2 from flask import render_template
3
4 @app.route('/')
5 @app.route('/index')
6 def index():
7     return render_template('index.html')
8
9
10 @app.route('/about')
11 def about():
12     return render_template('about.html')
```



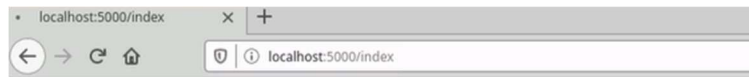
## Task Manager Update



## SQLAlchemy



```
hificant overhead and will be disabled by default in the future. Set it to
'SQLALCHEMY_TRACK_MODIFICATIONS adds significant overhead and '
>>> db.create_all()
>>> from models import Task
>>> from datetime import datetime
>>>
>>> t = Task(title="xyz")
```



# Title of the website

Subheader: Something something

- [Tasks](#)
- [Add New](#)

## Tasks



Add Task



Add Task

