

Week 6 Deliverables

Overview: In this week, you have studied additional Python language syntax for adding HTML tags through functions and using the Python Flask module. The Lab for this week demonstrates your knowledge of this additional Python functionality. Be sure to use the examples in the textbook reading along with the associate libraries, functions and processes when completing the assignments for this week.

Be sure to develop and test your Python code in the AWS Cloud9 IDE provided for the class.

You should continue to use the PEP Python Style guide mentioned in the book and found here:

<https://www.python.org/dev/peps/pep-0008/>

Some examples of Python Coding Style best practices include:

- Limit all lines to a maximum of 79 characters.
- Imports are always put at the top of the file, just after any module comments and before module globals and constants.
- Use 4 spaces for indentation.

Submission requirements for this project include 2 files. (Zipping them into one file is acceptable and encouraged):

- Python Web Page Code
- PDF or Word file showing your test and documentation results

Python Applications for Lab6: (total 100 points):

This exercise **(80 points)** uses the AWS Cloud9 environment to generate a simple Web page using Python flask. The Web page should include all basic components of the HTML structure including:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    ...your page content...
  </body>
</html>
```

In addition to the basic HTML structure components listed above, your web page should demonstrate and include the following HTML tags and functionality:

- At least 3 different Headings (e.g. <h1>, <h2>, <h3>)
- Paragraph (<p>)
- Comments <!-- -->)
- Ordered list

- Unordered list
- At least 3 Links to other External Web Sites
- Display the Date and Time on the Web page (Hint: Just use the Python date/time functions to display in HTML)

The content and topic of the Web site is up to you. It should be unique and something you want to create.

Hints:

1. Be sure to end tags that are started (e.g. <h1> </h1>)
2. Start early. This will take you longer than you think.
3. Be sure to send me questions, if you need assistance.

2. Document your results of the application running from the AWS Cloud9 classroom environment. Provide screen captures and descriptions of you running the Python application within AWS Cloud9 verifying you successfully started and have navigated to your Web application using your Browser. Show screen captures of your Web application running on the Browser. **20 points)**

Any submissions that do not represent work originating from the student will be submitted to the Dean's office and evaluated for possible academic integrity violations and sanctions.