

CSE 480

Web Technology

CSE 480 – Web Technology

- Course Teacher
 - Md Rifat Ahmmad Rashid
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 - Dept. Computer Science and Engineering
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 - Ulab Permanent Campus Room 318
- Counselling hours:
 - Sun & Tue – 11:00 am to 02:00 pm
 - Mon & Wed – 11:30 am to 1:00 pm
 - Thursday – 10:00 am to 4:00 pm
- Or fix an appointment (via email)
 - To discuss more complex topics

Course Outline

The tentative schedule is subject to changes based on the learning status

→ Introduction to Web Technologies

→ HTML 5, CSS3 with it's new components

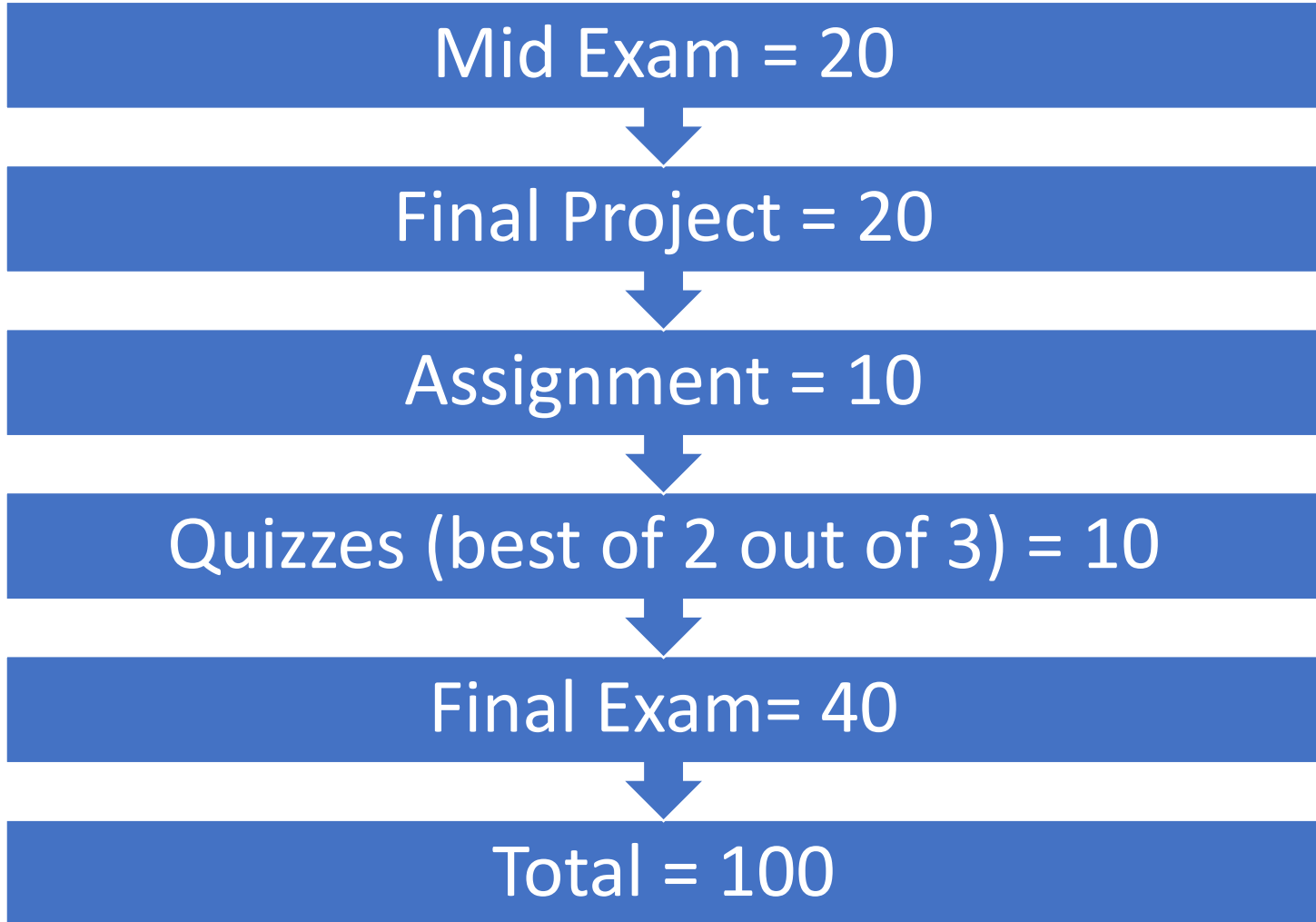
→ JavaScript, jQuery, AJAX

→ Data transmission, formats and processes.

XML and JSON

→ Cyber Security and Secured Protocols

Assessment



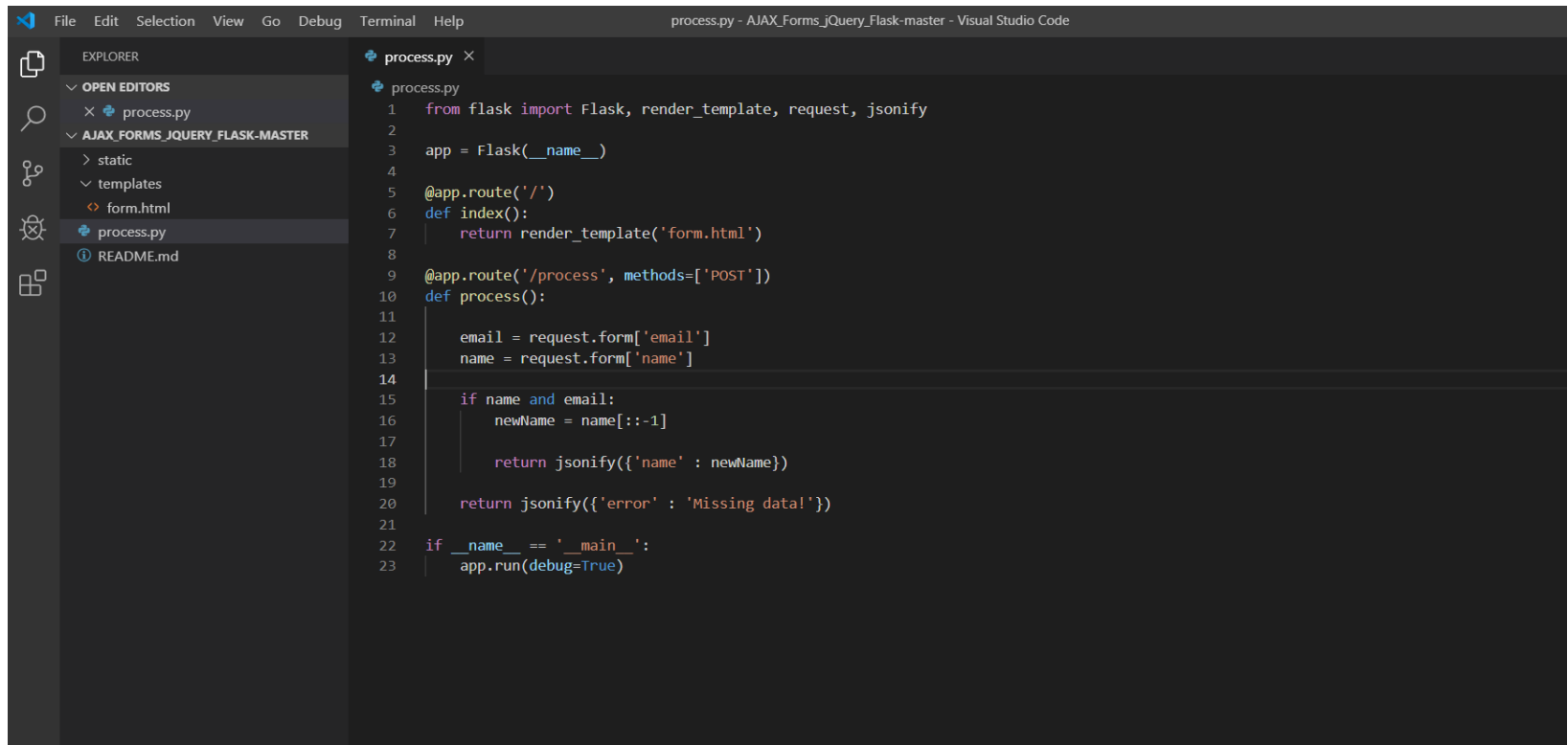
Course Policies and Procedures

- Failing to attend more than 5 classes will result in an automatic fail
- Students are advised to keep the cell phones in to silent mode
- Cheating and plagiarism are strictly prohibited
- There will be no makeup quiz
- ULAB regulations will be followed in conducting exams and evaluating answer scripts and grading

References

- Web Technology & Design By C. Xavier
- [Learning Web App Development](#) by Semmy Purewal
- Jump start CSS by Louis Lazaris
- Jump start HTML5 by Tiffany B.brown
- Jump start Javascript by Ara pehlivahian
- Flask Web Development – Developing web applications with python by Miguel Grinberg
- Compilation of web resources:
<https://frontendmasters.com/books/front-end-handbook/2019>

Visual Studio Code or Sublime Text 3 or Any other tools



The screenshot displays the Visual Studio Code interface with a Python Flask application. The Explorer sidebar on the left shows the project structure, including a file named `process.py`. The main editor window displays the code for `process.py`, which is a Flask application. The code includes imports for `Flask`, `render_template`, `request`, and `jsonify`. It defines a Flask app, a route for the index page, and a route for the `/process` endpoint that handles POST requests. The `process` function extracts email and name from the request form, validates the name, and returns a JSON response. The application is run in debug mode.

```
process.py
1  from flask import Flask, render_template, request, jsonify
2
3  app = Flask(__name__)
4
5  @app.route('/')
6  def index():
7      return render_template('form.html')
8
9  @app.route('/process', methods=['POST'])
10 def process():
11
12     email = request.form['email']
13     name = request.form['name']
14
15     if name and email:
16         newName = name[:-1]
17
18         return jsonify({'name' : newName})
19
20     return jsonify({'error' : 'Missing data!'})
21
22 if __name__ == '__main__':
23     app.run(debug=True)
```

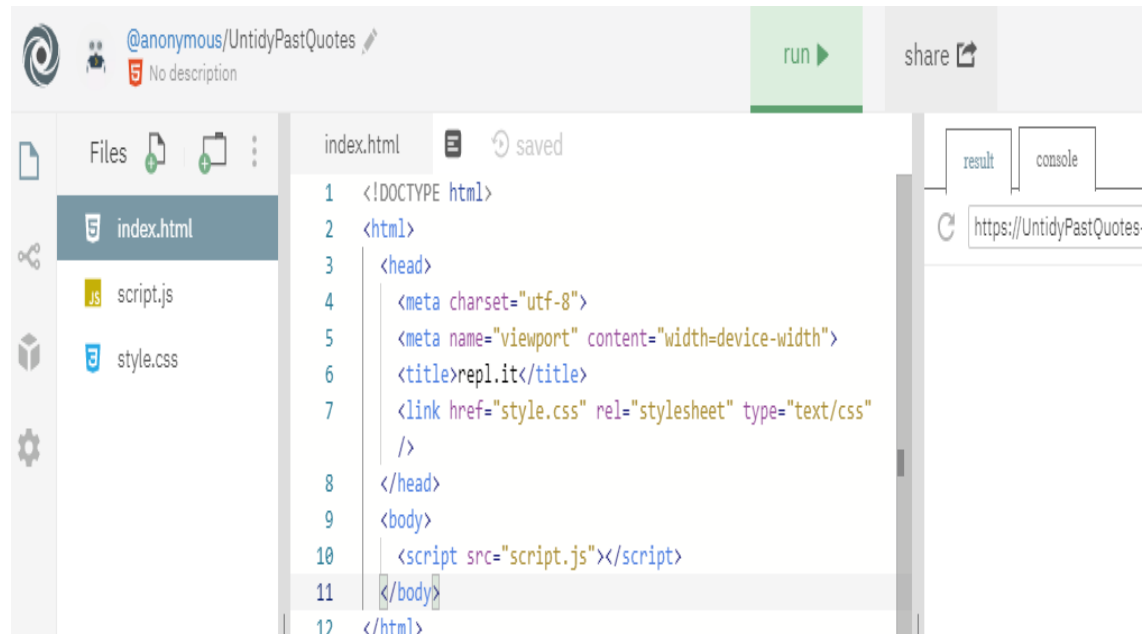
Online Code Editor

jdoodle

<https://www.jdoodle.com/html-css-javascript-online-editor/>

Repl

<https://repl.it/>



Sample Questions In Exams:

→ Explain the meaning of the following CSS properties and give examples of the possible values they might have. Give an example rule that uses all of these properties.

- a) margin
- b) border
- c) float
- d) display

Solution:

- a) Margin – defines the size of the margin which separates the content rectangle from the container- e.g. space
Around a paragraph to the previous or next para or to a floating image to the left or right.

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Sample Questions In Exams:

Create a webpage and add 5 buttons to your webpage: red, yellow, green, black, and silver. Every time you click on one of these buttons the background should take the corresponding color. Write the corresponding HTML, CSS and JavaScript code. (5 marks)