

Report HW4 20210318 Web_Flask

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[Project Structure](#)

[Functions](#)

Project Structure

```
1 | hotel.csv
2 |
3 | └─.idea
4 |   | .gitignore
5 |   | misc.xml
6 |   | modules.xml
7 |   | web_flask.iml
8 |   | workspace.xml
9 |   |
10 |   └─inspectionProfiles
11 |       profiles_settings.xml
12 |
13 | └─apps
14 |   | app.py
15 |   | settings.py
16 |   |
17 |   └─static
18 |     | └─css
19 |         style.css
20 |     |
21 |     └─js
22 |         jquery.js
23 |         |
24 |         └─jslib
25 |             jquery.min.js
26 |         |
27 |         └─templates
28 |             index.html
29 |         |
30 |         └─__pycache__
31 |             settings.cpython-38.pyc
32 |         |
33 |         └─__pycache__
```

Functions

All functions are shown in my `demo.mp4`

Choose a `.csv` file and upload it:

```
1 | $("#displayFile").click(function () {
2 |     var reader = new FileReader();
3 |     reader.onload = function (e) {
```

```

4      var table = $("<table id='data_table' class='pure_table'/>");
5      var datas = e.target.result.split("\n");
6      for (var i = 0; i < datas.length; ++i) {
7          var row_datas = datas[i].split(",");
8          var row = $("<tr />");
9          if (i % 2 == 0) {
10             row = $("<tr class='treven' />");
11         } else {
12             row = $("<tr class='trodd' />");
13         }
14         if (i == 0) {
15             row = $("<tr class='thead' />");
16         }
17         for (var j = 0; j < row_datas.length; ++j) {
18             var column = $("<td contenteditable='true' />");
19             column.html(row_datas[j]);
20             row.append(column);
21         }
22         if (i !== 0 && i % 2 == 1) {
23             row.append('<td><input type="button" value="Delete Row"
id="deleteRow" class="deodd"></td>');
24         } else if (i !== 0 && i % 2 == 0) {
25             row.append('<td><input type="button" value="Delete Row"
id="deleteRow" class="deeven"></td>');
26         } else {
27             row.append('<td>Operation</td>');
28         }
29         table.append(row);
30     }
31     $("#dpCSV").html('').append(table);
32 };
33 reader.readAsText($("#uploadFile")[0].files[0]);
34 });

```

- features:
 - declare `thead` so the head can have a unique color
 - declare `tr` in odd row and even row separately to make rows with different index in different color
 - not only the given `.csv` file can be displayed correctly, the js code can be suitable for the `.csv` files with different number of columns or rows

Add a new row to the html page:

```

1  $("#addRow").click(function () {
2      var add_datas = prompt("Input new row,split column data with ','");
3      if (add_datas.length > 0) {
4          if (document.getElementById("data_table")) {
5              var cells_cnt =
document.getElementById("data_table").rows[0].cells.length;
6              add_datas = add_datas.split(',');
7              var new_row = $("<tr />");
8              var row_cnt = $("table tr").size();
9              if (row_cnt % 2 == 0) {
10                 new_row = $("<tr class='treven' />");
11             } else {
12                 new_row = $("<tr class='trodd' />");

```

```

13     }
14     for (var i = 0; i < cells_cnt - 1; ++i) {
15         var new_col = $("<td contenteditable='true' />");
16         if (add_datas[i]) {
17             new_col.html(add_datas[i]);
18         } else {
19             new_col.html("NULL");
20         }
21         new_row.append(new_col);
22     }
23     if (row_cnt % 2 == 1) {
24         new_row.append('<td><input type="button" value="Delete
Row" id="deleteRow" class="deodd"></td>');
25     } else if (row_cnt % 2 == 0) {
26         new_row.append('<td><input type="button" value="Delete
Row" id="deleteRow" class="deeven"></td>');
27     } else {
28         new_row.append('<td>Operation</td>');
29     }
30     $("#data_table").append(new_row);
31 } else {
32     alert("Please load a file first!");
33 }
34 } else {
35     alert("Invalid Input!")
36 }
37
38 });

```

- feature:
 - the new added row can also be identified as odd row or even row, then we can render them in different color

Delete row:

```

1     $("body").on("click", "#deleteRow", function () {
2         var rowIndex =
3         $(this).parent().parent().parent().find("tr").index($(this).parent().parent()
4         );
5         document.getElementById("data_table").deleteRow(rowIndex);
6     });

```

Save current table to `.csv` file:

```

1     $("#saveFile").click(function () {
2         var tableInfo = "";
3         var tableObj = document.getElementById("data_table");
4         for (var i = 0; i < tableObj.rows.length; i++) {
5             for (var j = 0; j < tableObj.rows[i].cells.length; j++) {
6                 tableInfo += tableObj.rows[i].cells[j].innerText;
7                 tableInfo += ",";
8             }
9             tableInfo += "\n";
10        }
11        createAndDownloadFile("hotel_new.csv", tableInfo);
12    });

```

```
13  
14     function createAndDownloadFile(fileName, content) {  
15         var aTag = document.createElement('a');  
16         var blob = new Blob([content]);  
17         aTag.download = fileName;  
18         aTag.href = URL.createObjectURL(blob);  
19         aTag.click();  
20         URL.revokeObjectURL(blob);
```

- feature:
 - just a single click can we download the file, without the burden of redirect to another page or choose local directory or rename the file