4/1/22, 10:52 AM index.jsx

```
1 /**
   * @module User/PieChart
 2
 3
    * @memberof User
    */
 4
 5
 6 import { Chart as ChartJS, ArcElement, Tooltip, Legend } from 'chart.js';
 7 import { Pie } from 'react-chartjs-2';
 8 import { useEffect, useState } from "react";
 9
10
11 /**
   * Displays user stats, regarding their performance in quizzes.
12
13
    * @function
    * @return {HTML}
14
    */
15
16 export default function PieChart(){
17
     /**
18
      * Stores how many quizes a user has done correctly, and a function to change the
19
   value of "done".
20
      * @constant
      * @type {Array.<String, Function>}
21
      * @property {}
22
      */
23
     const [done, set_done] = useState(5)
24
25
      * Stores how many quizes a user has attempted, and a function to change the value
26
   of "attempted".
27
      * @constant
28
      * @type {Array.<String, Function>}
      * @param
29
      */
30
31
     const [attempted, set attempted] = useState(7)
32
      * Stores how many quizes a user has remaining, and a function to change the value
33
   of "remaining".
      * @constant
34
35
      * @type {Array.<String, Function>}
36
37
     const [remaining, set_remaining] = useState(5)
38
39
       useEffect(
40
         () = > {
           console.log(localStorage.getItem("id"))
41
           fetch("http://localhost:8000/user/quiz/stats/overall",{
42
43
               method: "POST",
               headers: {
44
                    'Content-Type': 'application/json',
45
46
               },
               body: JSON.stringify(
47
48
                    "student": true,
49
                    "id": localStorage.getItem("id")
50
51
               )
52
53
           })
54
           .then(response => response.json())
55
           .then(data => {
56
               const quiz_stats = data
```

```
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  57
                  set_done(quiz_stats["done"])
  58
                  set_attempted(quiz_stats["attempted"])
                  set remaining(quiz stats["remaining"])
  59
  60
             })
  61
           },[]
  62
  63
         ChartJS.register(ArcElement, Tooltip, Legend);
  64
  65
         /**
  66
          * Stores labels for the Pie chart.
  67
          * @constant
  68
  69
          * @property {string} "Quizes done"
          * @property {string} "Quizes attempted"
  70
            @property {string} "Quizes remaining"
  71
  72
          */
  73
         const labels = [
  74
  75
             "Quizes done",
  76
             "Quizes attempted",
  77
              "Questions remaining"
  78
         ]
  79
         /**
  80
  81
          * @constant
          * @property {Object} labels.labels
  82
          * @property {Object.Array} datasets[0]
  83
          * @property {string} datasets[0].label
  84
          * @property {Object.Array} "(datasets[0].data[done] |
  85
     datasets[0].data[attempted] | datasets[0].data[remaining])"
  86
          * @property {Object.Array} "(datasets[0].backgroundColor[0] |
     datasets[0].backgroundColor[1] | datasets[0].backgroundColor[2])"
          * @property {Object.Array} "(datasets[0].borderColor[0] |
  87
     datasets[0].borderColor[1] | datasets[0].borderColor[2])"
          * @property {integet} datasets[0].borderWidth
  88
          * @property {string} datasets[0].label
  89
  90
  91
         const data = {
             labels: labels,
  92
  93
             datasets: [{
                label: '',
  94
  95
                data: [done, attempted, remaining],
  96
                backgroundColor: [
  97
                  '#569D1B',
                  '#CC350B',
  98
                  '#004586',
  99
 100
                ],
                borderColor: [
 101
                  '#569D1B',
 102
                  '#CC350B',
 103
                  '#FFD320',
 104
 105
                ],
               borderWidth: 1
 106
 107
             }]
 108
           };
 109
         /**
 110
          * @constant
 111
 112
          * @property {Object} plugins
 113
          * @property {Object} legend
```

localhost:4649/?mode=undefined

4/1/22, 10:52 AM index.jsx * @property {string} plugins.legend.position 114 115 * @property {string} plugins.legend.align * @property {Object} plugins.legend.labels 116 * @property {Object} plugins.legend.labels.font 117 * @property {String} plugins.legend.labels.font.size 118 */ 119 const options = { 120 121 plugins:{ legend: { 122 123 position: "right", align: "middle", 124 labels:{ 125 126 font:{ size: "20" 127 128 129 } 130 131 } 132 } 133 134 135 return(136 <Pie className="pie-chart" data={data} options={options} height="50"</pre> width="50" /> 137)

138 }