```
1 <!doctype html>
 2 <html lang="">
 3
      <head>
          <meta charset="utf-8">
 4
 5
          <title>Page Replacement System</title>
 6
 7
          <link rel="stylesheet" href="css/main.css">
 8
      </head>
 9
       <body data-bind="visible: true" style="display: none">
10
          <!--A banner that displays any errors encountered
11
          <div class="errorBanner" data-bind="visible:</pre>
  errorBanner">
12
              13
          </div>
14
15
          <!--A banner that displays any successes
  encountered-->
          <div class="successBanner" data-bind="visible:</pre>
16
  successBanner">
17
              bannerWords">
18
          </div>
19
20
          <!--Information needed to load the memory requests
    from the file-->
21
          <!-- ko if: fileInputNumber() == 1 -->
22
          <div id="firstFileInputDiv">
23
              Please enter a file to parse
24
              <input class="fileInput" data-bind="value:</pre>
  requestedFile">
25
              <button class="fileButton button blue" data-</pre>
  bind="click: getAllDataFromFile">Get Data</button>
          </div>
26
27
          <!-- /ko -->
28
          <!-- ko if: fileInputNumber() == 2 -->
          <div id="secondFileInputDiv">
29
30
              <div id="newInput">
31
                  <input class="fileInput" data-bind="value</pre>
   : requestedFile">
32
                  <button class="fileButton button blue"</pre>
  data-bind="click: function(){getAllDataFromFile()}">Start
  New</button>
                  <button id="stats" class="statsButton</pre>
33
```

```
33 button blue" data-bind="click: function(){showStats(true
  )}, visible: !showStats()">Open Stats</button>
              <button id="stats" class="statsButton</pre>
34
  button blue" data-bind="click: function() { showStats(false
  )}, visible: showStats()">Close Stats</button>
35
           </div>
36
        </div>
37
        <!-- /ko -->
38
39
        <div id="pageContent" data-bind="visible: !</pre>
  showStats()">
40
           <!--Table containing the memory request pulled
  in from the file-->
           <div id="memoryRequestsContainer">
41
42
              43
                  <thead>
44
                     45
                        shouldShowMemoryRequestTitle">Loaded Memory Requests
46
                     47
                  </thead>
48
                  lines, as: 'line'}">
49
                     50
                        </
  td>
51
                     52
                  53
              54
           </div>
55
56
           <!--Table containing the order of each process
57
           <div id="processOrderContainer">
58
              59
                  <thead>
60
                     <t.r>
61
                        orderedProcesses()[0]">Current Order
62
                     63
                  </thead>
                  64
  orderedProcesses, as: 'process'}">
65
                     66
```

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66 
67
                    68
                 69
70
           </div>
71
72
           <!--Table containing relevant PCB information
   -->
73
           <div id="pcbContainer" data-bind="foreach: {</pre>
  data: pcbsObservable, as: 'pcb'}">
74
              $index()}" class="pcb" >
75
                 <thead>
76
                    77
                       PCB
78
                    79
                 </thead>
80
                 81
                    82
                       Process
83
                       Page Table
84
                    85
                    86
                       </
  td>
87
                       T<span data-bind="text:
  $index"></span>
88
                    89
                 90
              91
           </div>
92
93
           <!--Table representing te page table-->
94
           <div id="pageTableContainer" data-bind="</pre>
  foreach: {data: pageTablesObservable, as: 'tables'}">
95
              96
                 <thead>
97
                    98
                       Page Table T<</pre>
  span data-bind="text: $index"></span> 
99
                    100
                    101
                       Logical Page
102
                       Physical Frame
103
```

```
104
                   </thead>
105
                   tables, as: 'table'}">
106
                      table, as: 'entry'}">
107
                         <td data-bind="text: entry['
   va'], attr: {id: 'pgtV' + ' ' + $parentContext.
   $parentContext.$index() + ' ' + $parentContext.$index()}"
   >
108
                        <td data-bind="text: entry['
   pa'], attr: {id: 'pgtP' + '_' + $parentContext.
   $parentContext.$index() + ' ' + $parentContext.$index()}"
   >
                      109
110
                   111
                112
            </div>
113
114
            <!--Table representing te free frame list-->
115
            <div id="freeFrameContainer" data-bind="</pre>
   visible: shouldShowFreeFrameList">
                116
117
                   <thead>
118
                      119
                         >Free Frame List
120
                      121
                   </thead>
122
                   123
                   <!-- ko foreach: new Array(
  physicalFrames()) -->
124
                      125
                         126
                      127
                   <!-- /ko -->
128
                   129
                130
            </div>
131
132
            <!--Table representing te physical memory-->
133
            <div id="physicalMemoryContainer" data-bind="</pre>
   visible: shouldShowPhysMem">
134
                135
                   <thead>
136
```

```
137
                           Physical
   Memory
138
                       139
                       140
                           >Frame Number
141
                           In Use By
142
                       143
                    </thead>
144
                    physicalMemoryObservable">
145
146
                           <td data-bind="text: $index,
  attr: {id: 'frameNum' + ' ' + $index()}">
147
                           <td data-bind="text: $data,
   attr: {id: 'frameUse' + ' ' + $index()}">
148
                       149
                    150
                 151
             </div>
152
         </div>
153
154
         <div id="totals" data-bind="visible: showStats()"</pre>
155
             Total Page Faults: <span data-bind="text:</p>
   pageFaults"></span>
156
          </div>
          <div id="statsContent" data-bind="visible:</pre>
157
   showStats()">
158
             <div id="processStatsContainer" data-bind="</pre>
   foreach: {data: processStatsObservable, as: 'processes'}"
159
                 160
                    <thead>
161
                    162
                       Process <span</pre>
   data-bind="text: ('P' + ($index()+1)), attr: {id: '
   procNum' + ' ' + $index()}"></span> Stats 
163
                    164
                    165
                       Total Size (Pages) 
166
                       Total Number of Memory
   References
167
                       Total Number of Page Faults</
   th>
                    168
```

```
169
                      </thead>
170
                      processes, as: 'process'}">
                      171
   process, as: 'stat'}">
172
                         ">
173
                         <td data-bind="text: stat['
   references']">
174
                         <td data-bind="text: stat['faults
   ']">
175
                      176
                      177
                  178
              </div>
179
           </div>
180
181
           <!--Buttons to control the simulation-->
           <!-- ko if: errorBanner() == '' -->
182
183
           <footer data-bind="visible: showFooter">
              <div id="footerButtonsBox">
184
185
                  <button class="button white footerButton"</pre>
    data-bind="click: function(){run(true, false, false)}">
   Step Forward</putton>
186
                  <button class="button white footerButton"</pre>
    data-bind="click: function() {run(false, true, false) }">
   Next Fault/button>
187
                  <button class="button white footerButton"</pre>
    data-bind="click: function(){run(false, false, true)}">
   Complete
188
              </div>
189
           </footer>
190
           <!-- /ko -->
191
192
           <script src="js/vendor/jquery-1.11.0.min.js">
   script>
           <script src="js/vendor/knockout-3.4.2.js">
193
   script>
194
           <script src="js/vendor/ko.observableDictionary.js</pre>
   "></script>
           <script src="js/model.js"></script>
195
196
           <script src="js/controller.js"></script>
197
       </body>
198 </html>
199
```