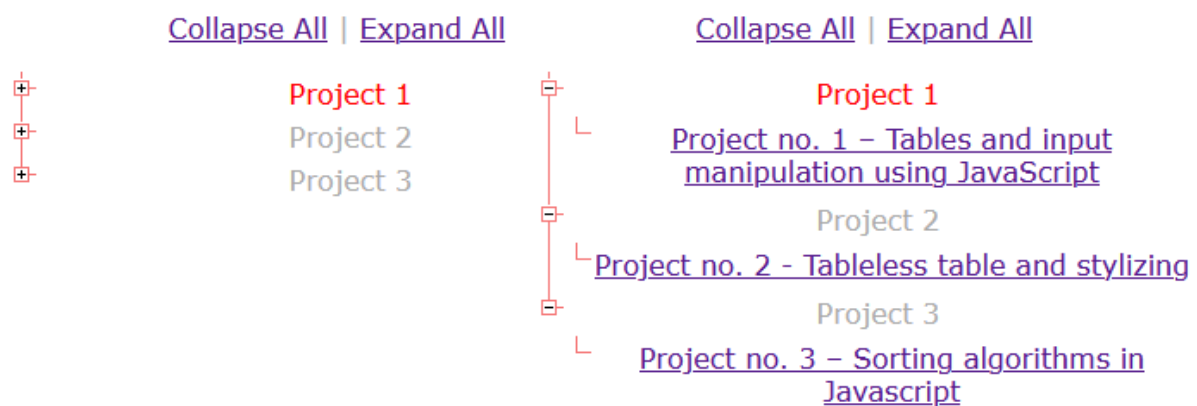# Advanced internet programming

Project no. 8 – JSON and jQuery applications

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Given task:

- Explain how Treeview menu is implemented and show an example.

In order to present the application of Treeview menu, I have modified a menu consolidating my previous projects into one Treeview example.

Present here are Collapse/Expand all options. The functionality there allows one to expand and collapse the Project menu depending on whichever project one want to explore. The treeview responds with collapse/expand whenever the buttons, Project, or collapse/expand buttons are clicked. The items inside the project folders are linked to the project sites.

Looking at the code:

```html
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>jQuery treeView</title>
<link rel="stylesheet" href="jquery.treeview/jquery.treeview.css">
<script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/jquery/1.2.6/jquery.min.js"></script>
<script src="jquery.treeview/lib/jquery.cookie.js" type="text/javascript"></script>
<script src="jquery.treeview/jquery.treeview.js" type="text/javascript"></script>
<script type="text/javascript" src="jquery.treeview/demo/demo.js"></script>
```

The lines in head create sources from which JS, CSS and jQuery are invoked by the lines of code.

```
<div class="menu">

  <div id="treecontrol" style="display:block;">
    <a title="Collapse the entire tree below" href="#">Collapse All</a>
    |
    <a title=" Expand the entire tree below"  href="#">Expand All</a>
  </div>
  <ul id="red" class="treeview-red treeview">
    <li class="expandable">
      <div class="hitarea expandable-hitarea"></div>
      <span class>Project 1</span>
      <ul style="display:block;">
        <li>
          <span class='file'><a href="PO1\AIP_PO1_beczkowh.html">Project no. 1 ▐ Tables and input manipulation using JavaScript</a></span>
        </li>
      </ul>
    </li>
    <li class="expandable">
      <div class="hitarea expandable-hitarea"></div>
      <span class>Project 2</span>
      <ul style="display:block;">
        <li>
          <span class='file'><a href="PO2\AIP_pr2_beczkowh.html">Project no. 2 - Tableless table and stylizing</a></span>
        </li>
      </ul>
    </li>
    <li class="expandable lastExpandable">
      <div class="hitarea expandable-hitarea lastExpandable-hitarea"></div>
      <span class>Project 3</span>
      <ul style="display:block;">
        <li>
          <span class='file'><a href="PO3\AIP_PO3_beczkowh.html">Project no. 3 ▐ Sorting algorithms in Javascript</a></span>
        </li>
      </ul>
    </li>
```

The menu has been edited using proper classes and id's in order to be responsive with given jQuery, JS and CSS.

The JSON and jQuery allows one to create a more integrated and readable html pages, which are more responsive and look better in consequence.

Submitting of the project took me extra time, due to fact that I ran into an issue, which caused the menu not to respond to collapse/expand options. Turned out there was another jQuery library inside the code from which the lines tried to invoke the options, but it was impossible. After removing the old jquery mention, the page started working properly.