

Menü mit Bootstrap und JSON

Um ein Menü dynamisch zu erstellen, habe ich mich dazu entschieden die Menüstruktur im JSON Format abzulegen. Man kann diese in einen String umwandeln und beliebig in eine Datenbank ablegen.

Hier mal ein Beispiel für die JSON Struktur:

JSON

```
array
(
    [0] => stdClass Object
        (
            [id] => 15
            [title] => Menü1
            [http] => http://www.google.de
            [customSelect] => 1
            [__domenu_params] => stdClass Object
                (
                )
        )
    [1] => stdClass Object
        (
            [id] => 11
            [title] => Menü2
            [superselect] => 2
            [customSelect] => 1
            [children] => Array
                (
                    [0] => stdClass Object
                        (
                            [id] => 9
                            [title] => SubMenü2-1
                            [http] =>
                            [superselect] => 1
                            [customSelect] => 2
                            [__domenu_params] => stdClass Object
                                (
                                )
                            [children] => Array
                                (
                                    [0] => stdClass Object
                                        (
                                            [id] => 10
                                            [title] => SubMenü2-1-1
                                        )
                                    )
                                )
                        )
                )
        )
)
```

something...

stdClass Object

Object

Submenü2-1-1-1

[customSelect] => select something...

[__domenu_params] => stdClass Object

Object

Submenü2-1-1-2x

<http://www.google.de>

[customSelect] => select something...

[__domenu_params] => stdClass Object

[1] => stdClass Object

```
[http] =>
[superselect] => 1
[customSelect] => select
```

```
[__domenu_params] =>
```

```
(
)
```

```
[children] => Array
```

```
(
```

```
[0] => stdClass
```

```
(
```

```
[id] => 16
```

```
[title] =>
```

```
(
)
```

```
)
```

```
[1] => stdClass
```

```
(
```

```
[id] => 19
```

```
[title] =>
```

```
[http] =>
```

```
(
)
```

```
)
```

```
)
```

```
)
```

```
)
```

```
)
```

```
(
```

```

[id] => 14
[title] => SumMenü2-2
[customSelect] => select something...
[__domenu_params] => stdClass Object
(
)

[children] => Array
(
  [0] => stdClass Object
  (
    [id] => 17
    [title] => doMenu List

    [customSelect] => select
    something...

    [__domenu_params] =>
    stdClass Object
    (
    )

  )

  [1] => stdClass Object
  (
    [id] => 18
    [title] => doMenu List

    [customSelect] => select
    something...

    [__domenu_params] =>
    stdClass Object
    (
    )

  )

)

)

[__domenu_params] => stdClass Object
(
)

)

[2] => stdClass Object
(

```

```
[title] => Menü3
[http] => http://www.test.de
[customSelect] => select something...
[id] => 12
[__domenu_params] => stdClass Object
    (
    )
)
)
```

Und hier das Beispiel für das Menü:

[menu.php](#)

```
<html>
<head>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.
min.css" integrity="sha384-
Vkoo8x4CGs03+Hhvxv8T/Q5PaXtkKtu6ug5T0eNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
integrity="sha384-
J6qa4849bIE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwjlYfoRSJoZ+n"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.
js" integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.mi
n.js" integrity="sha384-
wfSDF2E50Y2D1uUdj003uMBJnjuUD4Ih7YwaYdliqfktj0Uod8GCExl30g8ifwB6"
crossorigin="anonymous"></script>

    <style>
/* CSS für Dropdown */
.dropdown-submenu {
    position: relative;
}

.dropdown-submenu a::after {
    transform: rotate(-90deg);
    position: absolute;
    right: 6px;
```

```

        top: .8em;
    }

    .dropdown-submenu .dropdown-menu {
        top: 0;
        left: 100%;
        margin-left: .1rem;
        margin-right: .1rem;
    }
</style>

</head>
<body>
<?
/* Beispiell1 JSON */
// $menu
='[{"id":15,"title":"Menü1","customSelect":"1","__domenu_params":{}},{
id":11,"title":"Menü2","http":"","superselect":"2","customSelect":"1",
children":[{"id":9,"title":"SubMenü2-1","http":"","superselect":"1","cu
stomSelect":"2","__domenu_params":{},"children":[{"id":10,"title":"SubM
enü2-1-1","http":"","superselect":"1","customSelect":"select
something...","__domenu_params":{}}]}],{"id":14,"title":"SumMenü2-2","cu
stomSelect":"select
something...","__domenu_params":{}}],{"__domenu_params":{}},{ "title":"Me
nü3","customSelect":"select
something...","id":12,"__domenu_params":{}}]';

/* Beispiel2 JSON */
// $menu =
' [{"id":15,"title":"Menü1","customSelect":"1","__domenu_params":{}},{ "i
d":11,"title":"Menü2","http":"","superselect":"2","customSelect":"1","c
hildren":[{"id":9,"title":"SubMenü2-1","http":"","superselect":"1","cus
tomSelect":"2","__domenu_params":{},"children":[{"id":10,"title":"SubMe
nü2-1-1","http":"","superselect":"1","customSelect":"select
something...","__domenu_params":{},"children":[{"id":16,"title":"Submen
ü2-1-1-1","customSelect":"select
something...","__domenu_params":{}}]}]}],{"id":14,"title":"SumMenü2-2","
customSelect":"select
something...","__domenu_params":{}}],{"__domenu_params":{}},{ "title":"Me
nü3","customSelect":"select
something...","id":12,"__domenu_params":{}}]';

/* Beispiel3 JSON */
$menu =
' [{"id":15,"title":"Menü1","http":"http://www.google.de","customSelect
":"1","__domenu_params":{}},{ "id":11,"title":"Menü2","superselect":"2",
customSelect":"1","children":[{"id":9,"title":"SubMenü2-1","http":"","s
uperselect":"1","customSelect":"2","__domenu_params":{},"children":[{"i
d":10,"title":"SubMenü2-1-1","http":"","superselect":"1","customSelect
":"select
something...","__domenu_params":{},"children":[{"id":16,"title":"Submen

```

```
ü2-1-1-1","customSelect":"select
something...","__domenu_params":{}},{ "id":19,"title":"Submenü2-1-1-2x",
"http":"http://www.google.de","customSelect":"select
something...","__domenu_params":{}}]}
]},{ "id":14,"title":"SumMenü2-2","customSelect":"select
something...","__domenu_params":{},"children":[{"id":17,"title":"doMenu
List Item. 1","customSelect":"select
something...","__domenu_params":{}},{ "id":18,"title":"doMenu List Item.
2","customSelect":"select
something...","__domenu_params":{}}]}], "__domenu_params":{}},{ "title":"
Menü3","http":"http://www.test.de","customSelect":"select
something...","id":12,"__domenu_params":{}}]';
$menu = json_decode($menu);      // Array
?>
```

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown"
aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNavDropdown">
    <?
      echo '<ul class="navbar-nav">';
      foreach ($menu as $key => $hauptmenu)
      {
        if ( isset($hauptmenu->children ))
        {
          echo '<li class="nav-item dropdown">';
          echo '<a class="nav-link dropdown-toggle" href="#"
id="navbarDropdownMenuLink" data-toggle="dropdown" aria-haspopup="true"
aria-expanded="false">'. $hauptmenu->title. '</a>';
          echo '<ul class="dropdown-menu" aria-
labelledby="navbarDropdownMenuLink">';
          foreach($hauptmenu->children as $subkey =>$submenu) {
            if( isset($submenu->children) )
            {
              echo '<li class="dropdown-submenu">';
              echo '<a class="dropdown-item dropdown-toggle"
href="#">'. $submenu->title. '<d</a>';
              echo '<ul class="dropdown-menu">';
              renderChildren($submenu->children);
              echo '</ul></li>';
            } else {
              echo '<li><a class="dropdown-item"
href="#">'. $submenu->title. '</a></li>';
            }
          }
        }
      }
    </div>
  </div>
</nav>
```

```

        echo '</ul></li>';
    } else {
        $link = ( isset($hauptmenu->http) ) ? $hauptmenu->http
: "";
        echo '<li class="nav-item"><a class="nav-link"
href="'. $link. '">'. $hauptmenu->title. '</a></li>';
    }
}
echo '</ul>';
?>
</div>
</nav>
<h4 class="text-center"><br>funktionierendes Beispiel: recursive Menü
mit Daten aus JSON Datei</h4>

<script>
// Treemenü Function für Bootstraß
$('.dropdown-menu a.dropdown-toggle').on('click', function(e) {
    if (!$(this).next().hasClass('show')) {
        $(this).parents('.dropdown-
menu').first().find('.show').removeClass('show');
    }
    var $subMenu = $(this).next('.dropdown-menu');
    $subMenu.toggleClass('show');

    $(this).parents('li.nav-item.dropdown.show').on('hidden.bs.dropdown',
function(e) {
        $('.dropdown-submenu .show').removeClass('show');
    });
    return false;
});
</script>
</body>
</html>

<?
// recursive Ausführen von Untermenüs
function renderChildren(array $children){
    foreach($children as $child){
        if ( isset($child->children) )
        {
            echo '<li class="dropdown-submenu">';
            echo '<a class="dropdown-item dropdown-toggle"
href="#">'. $child->title. '</a>';
            echo '<ul class="dropdown-menu">';
            renderChildren($child->children);
            echo "</ul>";
            echo "</li>";
        }
    }
}

```

```
        } else {
            $link = ( isset($child->http) ) ? $child->http : "";
            echo '<li><a class="dropdown-item"
href="' . $link . '">' . $child->title . '</a></li>';
        }
    }
}
```

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