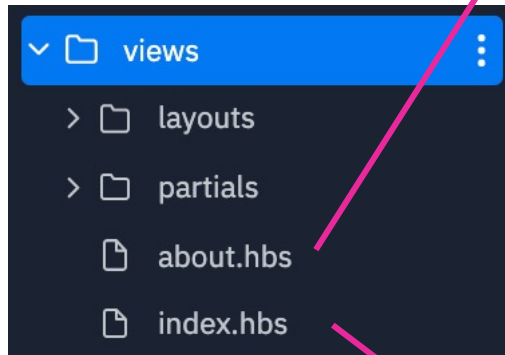


WEBTECHNOLOGIEN

04 — WEB APPS — FRONTEND

PROF. DR. MARKUS HECKNER

DAS STARTERPROJEKT VERFÜGT ÜBER 2 VIEWS



Web App Template About

Web app template

Content goes here...

Web App Template About

Welcome to the Web app template!

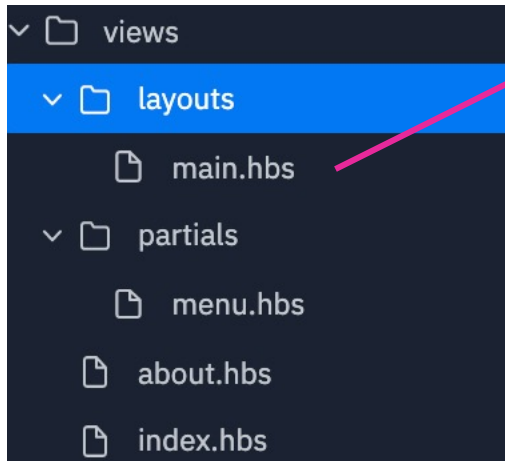
Web app template

A web app template.

LAYOUT

- main.hbs legt die Hauptstruktur für alle Seiten fest
- Bindet Bootstrap für Layout der Website ein

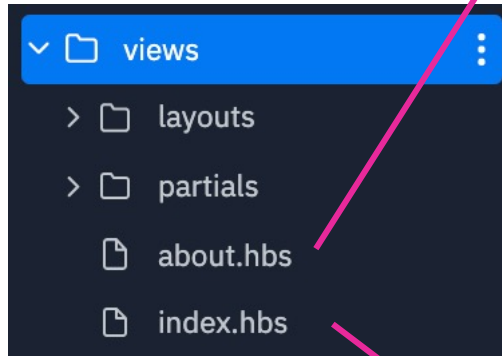
{{title}} ist ein Platzhalter und kann dynamisch ersetzt werden (mehr später)



```
views/layouts/main.hbs x
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <title>{{title}}</title>
6      <meta charset="UTF-8">
7      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.
8        integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jI
9        crossorigin="anonymous">
10     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bund
11       integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+IlRH9sENB00LRn5q+8nbTov4+
12       crossorigin="anonymous"></script>
13     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"><
14   </head>
15   <body>
16     <section class="container">
17       {{{body}}}
18     </section>
19   </body>
20 </html>
```

Inhalte der Views werden an die Stelle von {{{body}}} eingesetzt

ANZEIGE DER VIEWS IM FRONTEND



Web App Template About

Web app template

Content goes here...

views/about.hbs ×

```
1  {{> menu id="about"}}
2
3  <div class="border p-2 my-2">
4    <h3>Web app template</h3>
5    <p>Content goes here...</p>
6  </div>
7
```

Web App Template About

Welcome to the Web app template!

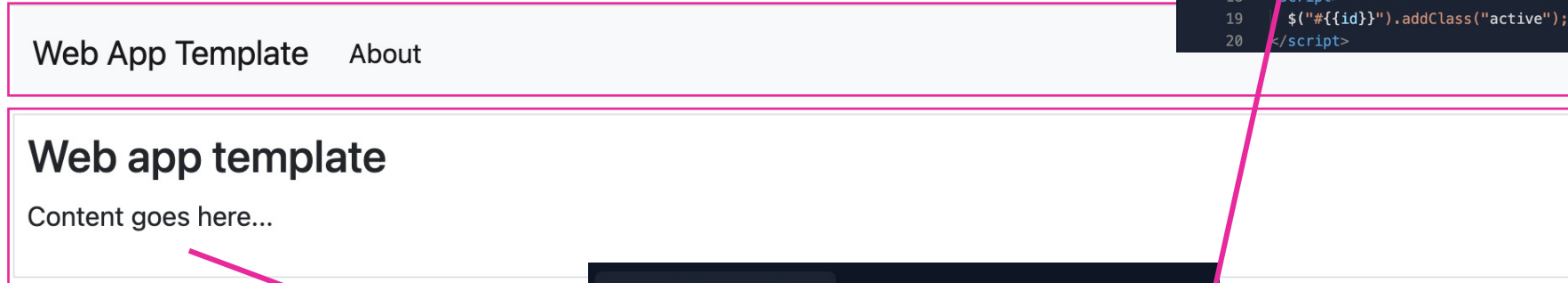
Web app template

A web app template.

views/index.hbs ×

```
1  {{> menu }}
2
3  <div class="card mt-3">
4    <div class="card-header">
5      {{title}}
6    </div>
7    <div class="card-body">
8      <h5 class="card-title">Web app template</h5>
9      <p class="card-text">A web app template.</p>
10   </div>
11 </div>
```

VIEWS BINDEN PARTIALS EIN (HIER MENÜ)



```
views/partials/menu.hbs x
1 <nav class="navbar navbar-expand-lg navbar-light bg-light">
2   <div class="container-fluid">
3     <a class="navbar-brand" href="/">Web App Template</a>
4     <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
5       data-bs-target="#navbarTogglerDemo02"
6       aria-controls="navbarTogglerDemo02" aria-expanded="false" aria-label="Togg
7     <span class="navbar-toggler-icon"></span>
8   </button>
9   <div class="collapse navbar-collapse" id="navbarTogglerDemo02">
10     <ul class="navbar-nav me-auto mb-2 mb-lg-0">
11       <li class="nav-item">
12         <a class="nav-link" id="about" href="/about">About</a>
13       </li>
14     </ul>
15   </div>
16 </div>
17 </nav>
18 <script>
19   $("#{{id}}").addClass("active");
20 </script>
```

```
views/about.hbs x
1 {{> menu id="about"}}
2
3 <div class="border p-2 my-2">
4   <h3>Web app template</h3>
5   <p>Content goes here...</p>
6 </div>
7
```

HIGHLIGHTEN DES AKTUELLEN MENÜPUNKTS (CLIENT-SIDE JS “MAGIC”)

Web App Template About

Web app template

Content goes here...

Variable `id` wird mit Wert “about”
an `menu.hbs` übergeben.

views/about.hbs x

```
1 {{> menu id="about"}}
```

```
2
```

```
3 <div class="border p-2 my-2">
```

```
4   <h3>Web app template</h3>
```

```
5   <p>Content goes here...</p>
```

```
6 </div>
```

```
7
```

```
<div class="collapse navbar-collapse" id="navbarTogglerDemo02">
  <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    <li class="nav-item">
      <a class="nav-link" id="about" href="/about">About</a>
    </li>
  </ul>
</div>
</nav>

<script>
  $("#{{id}}").addClass("active");
</script>
```

Mithilfe der Bibliothek jQuery wird das Element mit der `id` about aus dem Menü selektiert und die Klasse “active” hinzugefügt – Menüeintrag about erscheint fett (clientseitiges (= im Browser ausgeführtes) JS ist *out of scope* für diesen Kurs)

DREI DATEIEN GENERIEREN EINEN VIEW

```
views/partials/menu.hbs x
1 <nav class="navbar navbar-expand-lg navbar-light bg-light">
2   <div class="container-fluid">
3     <a class="navbar-brand" href="/">Web App Template</a>
4     <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
5       data-bs-target="#navbarTogglerDemo02"
6       aria-controls="navbarTogglerDemo02" aria-expanded="false" aria-label="Toggle navigation">
7       <span class="navbar-toggler-icon"></span>
8     </button>
9     <div class="collapse navbar-collapse" id="navbarTogglerDemo02">
10      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
11        <li class="nav-item">
12          <a class="nav-link" id="about" href="/about">About</a>
13        </li>
14      </ul>
15    </div>
16  </div>
17  <script>
18    $("#{id}").addClass("active");
19  </script>
20 </nav>
```

```
views/layouts/main.hbs x
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <title>{{title}}</title>
6     <meta charset="UTF-8">
7     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
8       rel="stylesheet"
9       integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
10      crossorigin="anonymous">
11     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
12       integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+IlRH9sENB00Lrn5q+8nbTov4+1p"
13       crossorigin="anonymous"></script>
14     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
15   </head>
16   <body>
17     <section class="container">
18       {{{body}}}
19     </section>
20   </body>
21 </html>
```

```
views/about.hbs x
1 <{{> menu id="about">}}
2
3 <div class="border p-2 my-2">
4   <h3>Web app template</h3>
5   <p>Content goes here...</p>
6 </div>
```

Gerenderter View

Web App Template About

Web app template

Content goes here...

FAZIT

- main.hbs legt das Hauptlayout bzw. Die Hauptstruktur der Seite fest (hier steht der HTML-Header und Bootstrap wird eingebunden)
- Die Views (z.B. about) werden in `{{{body}}}` eingesetzt
- Views können weitere partials (z.B. menu.hbs) integrieren, die auch in mehreren Views wiederverwendet werden können
- Alle Templates können angepasst und erweitert werden um eigene Web-Apps zu erstellen
- Neue views und partials können angelegt werden, um die Web-App zu erweitern