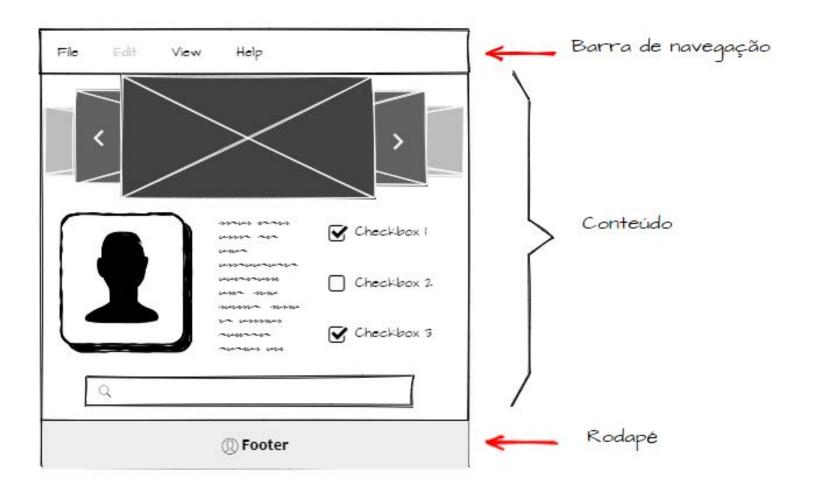
# Desenvolvendo Layout

hands-on



# Thymeleaf fragments

Nome do arquivo: \templates\footer.html

```
<fre><footer th:fragment="copy">
    &copy; 2011 The Good Thymes Virtual Grocery
</footer>
```

Nome do arquivo: \templates\home.html

```
<body>
...

<div th:insert="footer :: copy"></div>

<div th:replace="footer :: copy"></div>

<div th:include="footer :: copy"></div>
</body>
```

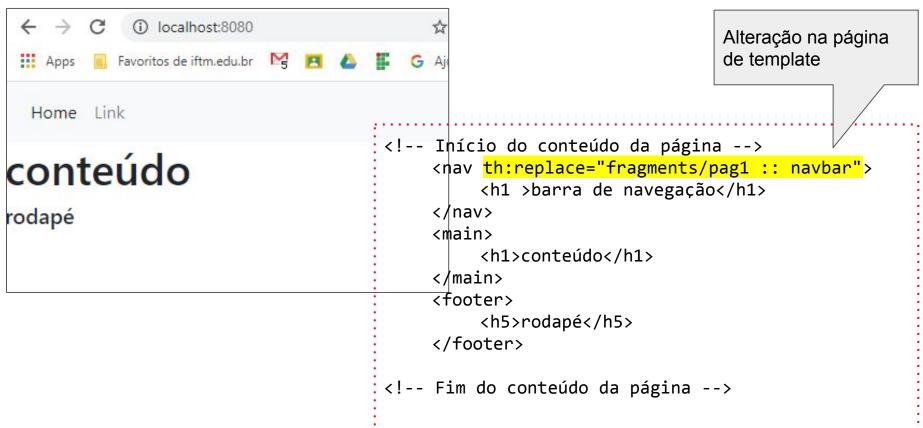
#### Código gerado

```
<div>
  <footer>
   © 2011 The Good Thymes Virtual Grocery
  </footer>
</div>
<footer>
 © 2011 The Good Thymes Virtual Grocery
</footer>
<div>
 © 2011 The Good Thymes Virtual Grocery
</div>
```

# Fragmento barra de navegação

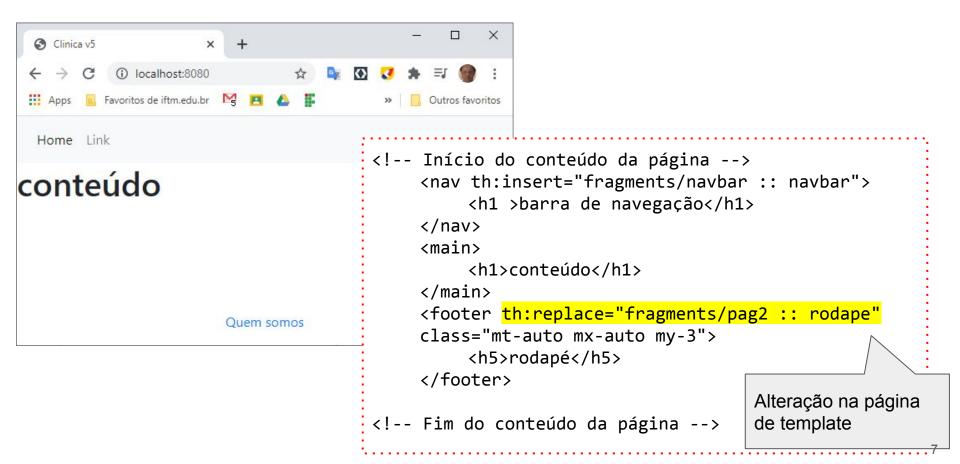
```
<nav th:fragment="navbar" class="navbar navbar-expand-md navbar-light bg-light">
    <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
        data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
        aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <a class="nav-link btn btn-primary btn-lg text-white m-1" href="/">
                 Página 1</a>
             <a class="nav-link btn btn-primary btn-lg text-white m-1" href="#">
                 Marcar consulta</a>
             </div>
</nav>
```

## Resultado



# Fragmento rodapé

## Resultado



## O modelo

```
<!DOCTYPF html>
<html th:fragment="modelo">
<head> ... </head>
<body class="d-flex flex-column min-vh-100">
   <!-- Início do conteúdo da página -->
   <nav th:replace="fragments/barranavegacao :: navbar"> </nav>
   <main th:replace="this :: conteudo"></main>
   <footer th:replace="fragments/footer :: rodape"</pre>
           class="mt-auto mx-auto my-3"></footer>
</body></html>
```

# Página exemplo usando o modelo

```
<!DOCTYPE html>
<html th:include="fragments/modelo :: modelo">
<body>
    <div th:fragment="conteudo">
                   Coloque aqui seu código html
    </div>
</body>
</html>
```

## Fragmento - passo 1 - transformando o arquivo exemplo.html em view gerada pelo servidor

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org" th:include="fragments/modelo :: modelo">
<h1>Demonstração de fragmentos</h1>
<div th:fragment="conteudo">
    <div class="container-fluid">
         <div class="row mr-1" style="height:100px">
                                                                     Este fragmento de código
              <div class="col-md border">coluna 1</div>
                                                                     html é copiado para uma
              <div class="col-md border">coluna 2</div>
                                                                     área de memória no
              <div class="col-md border">coluna 3</div>
                                                                     servidor
         </div>
    </div>
</div>
<h1>conteúdo fora do fragmento</h1>
```

</html>

Fragmento - passo 2 - transformando o arquivo exemplo.html em view gerada pelo servidor

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org" th:include="fragments/modelo :: modelo">
```

Depois da cópia, todo o conteúdo entre a abertura e fechamento da tag html é apagado e ...

</html>

### Fragmento - passo 3 - transformando o arquivo exemplo.html em view gerada pelo servidor

#### <!DOCTYPE html>

<html xmlns:th="http://www.thymeleaf.org" th:include="fragments/modelo :: modelo">

```
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<!-- Bootstrap CSS -->
k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61qNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
<title>Clinica v5</title>
</head>
<body class="d-flex flex-column min-vh-100">
           <!-- Início do conteúdo da página -->
           <nav th:insert="fragments/barranavegacao :: navbar">
           <h1>barra de navegação</h1>
           </nav>
           <main th:insert="this :: conteudo" class="mL-3"></main>
           <footer th:insert="fragments/footer :: rodape" class="mt-auto mx-auto my-3">
           <h5>rodapé</h5>
           </footer>
          <!-- Fim do conteúdo da página -->
           <!-- Optional JavaScript -->
           <!-- jQuery first, then Popper.js, then Bootstrap JS -->
           <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"</pre>
integrity="sha384-DfXdz2htPH0LsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
           <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"</pre>
integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66LZH81PoYLFhbGU+6BZp6G7niu735Sk7LN" crossorigin="anonymous"></script>
           <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"</pre>
integrity="sha384-B4qt1jrGC7Jh4AqTPSdUt0Bvf08shuf57BaqhqFfPLYxofvL8/KUEfYiJ0MMV+rV" crossorigin="anonymous"></script>
</body>
```

... o conteúdo do fragmento modelo que está no arquivo /fragments/modelo.html é copiado aqui, e o atributo

th:include="fragments/modelo
:: modelo" é excluído



```
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<!-- Bootstrap CSS -->
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"</pre>
integrity="sha384-JcKb8q3iqJ61qNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
<title>Clinica v5</title>
</head>
<body class="d-flex flex-column min-vh-100">
                                 <!-- Início do conteúdo da página -->
                                 <nav th:insert="fragments/barranavegacao :: navbar">
                                 <h1>barra de navegação</h1>
                                 </nav>
                                 <main th:insert="this :: conteudo" class="mL-3"></main>
                                 <footer th:insert="fragments/footer :: rodape" class="mt-auto mx-auto my-3">
                                 <h5>rodapé</h5>
                                </footer>
                                 <!-- Fim do conteúdo da página -->
                                 <!-- Optional JavaScript -->
                                 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
                                 <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"</pre>
integrity="sha384-DfXdz2htPH0LsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
                                 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"</pre>
integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66LZH81PoYLFhbGU+6BZp6G7niu735Sk7LN" crossorigin="anonymous"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
                                 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"</pre>
integrity="sha384-B4qt1jrGC7Jh4AqTPSdUt0Bvf08shuf57BaqhqFfPLYxofvL8/KUEfYiJ0MMV+rV" crossorigin="anonymous"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
</body>
```

## Fragmento - passo 4 - transformando o arquivo exemplo.html em view gerada pelo servidor

#### <!DOCTYPE html>

<html xmlns:th="http://www.thymeleaf.org">

```
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<!-- Bootstrap CSS -->
k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61qNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
<title>Clinica v5</title>
</head>
<body class="d-flex flex-column min-vh-100">
           <!-- Início do conteúdo da página -->
           <nav th:insert="fragments/barranavegacao :: navbar";</pre>
           <h1>barra de navegação</h1>
           </nav>
           <main th:insert="this :: conteudo" class="ml-3"></main>
           <footer th:insert="fragments/footer :: rodape" class="mt-auto mx-auto my-3">
           <h5>rodapé</h5>
          </footer>
          <!-- Fim do conteúdo da página -->
          <!-- Optional JavaScript -->
           <!-- jOuery first, then Popper.js, then Bootstrap JS -->
           <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"</pre>
integrity="sha384-DfXdz2htPH0LsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
           <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"</pre>
integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66LZH81PoYLFhbGU+6BZp6G7niu735Sk7LN" crossorigin="anonymous"></script>
           <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"</pre>
integrity="sha384-B4qt1jrGC7Jh4AqTPSdUt0Bvf08shuf57BaqhqFfPLYxofvL8/KUEfYiJ0MMV+rV" crossorigin="anonymous"></script>
</body>
```

o processo é retomado e onde é encontrado o atributo th:insert é feita a inserção de fragmento

Fragmento - passo 4 - transformando o arquivo exemplo.html em view gerada pelo servidor

