

thymeleaf-ee (0.0.1)

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Travis CI status: [Build Status](#)

Chapter 1. Introduction

This repo contains example of Thymeleaf and Java EE integration

Read GitHub pages [project reference documentation](#)

generated by [generator-jvm](#) yeoman generator (java-ee-thymeleaf)

Chapter 2. Implementation

2.1. create Java EE project

I'm using my yo `generator-jvm` generator package (type: `java-ee`, name `thymeleaf-ee`):

```
npm i -g yo generator generator-jvm
yo jvm -t java-ee -n thymeleaf-ee
```

beans.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns="http://xmlns.jcp.org/xml/ns/javaee"
       xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/beans_1_1.xsd"
       bean-discovery-mode="all">
</beans>
```

2.2. add thymeleaf and mvc 1.0 spec dependencies

```

<dependencies>
  <dependency>
    <groupId>javax.mvc</groupId>
    <artifactId>javax.mvc-api</artifactId>
    <version>1.0-pr</version>
  </dependency>
  <dependency>
    <groupId>org.mvc-spec.ozark</groupId>
    <artifactId>ozark-resteasy</artifactId>
    <version>1.0.0-m03</version>
  </dependency>
  <dependency>
    <groupId>org.mvc-spec.ozark.ext</groupId>
    <artifactId>ozark-thymeleaf</artifactId>
    <version>1.0.0-m03</version>
    <exclusions>
      <exclusion>
        <groupId>org.thymeleaf</groupId>
        <artifactId>thymeleaf</artifactId>
      </exclusion>
    </exclusions>
  </dependency>
  <dependency>
    <groupId>org.thymeleaf</groupId>
    <artifactId>thymeleaf</artifactId>
    <version>3.0.9.RELEASE</version>
  </dependency>
</dependencies>

```

```

allprojects {
  dependencies {

    implementation 'org.webjars:jquery:3.3.1-1'
    implementation 'org.webjars:material-design-icons:3.0.1'
    implementation 'org.webjars:materializecss:0.100.2'

    implementation 'javax.mvc:javax.mvc-api:1.0-pr'
    implementation 'org.mvc-spec.ozark:ozark-resteasy:1.0.0-m03'
    implementation 'org.mvc-spec.ozark.ext:ozark-thymeleaf:1.0.0-m03', {
      exclude group: 'org.thymeleaf', module: 'thymeleaf'
    }
    implementation 'org.thymeleaf:thymeleaf:3.0.9.RELEASE'
  }
}

```

2.3. configure thymeleaf

configure Thymeleaf view resolver

```
@Slf4j
@ApplicationScoped
public class ThymeleafViewEngine extends ViewEngineBase {

    @Inject ServletContext servletContext;
    TemplateEngine engine;

    @Override
    public boolean supports(final String view) {
        return !view.contains(".");
    }

    @PostConstruct
    public void postConstruct() {
        final ServletContextTemplateResolver resolver = new
        ServletContextTemplateResolver(servletContext);
        resolver.setPrefix("/WEB-INF/layouts/");
        resolver.setSuffix(".html");
        resolver.setTemplateMode(TemplateMode.HTML);
        resolver.setCacheable(false);
        engine = new TemplateEngine();
        engine.setTemplateResolver(resolver);
    }

    @Override
    public void processView(ViewEngineContext context) throws ViewEngineException {
        Try.run(() -> {

            final HttpServletRequest request = context.getRequest();
            final HttpServletResponse response = context.getResponse();
            final WebContext webContext = new WebContext(request, response, servletContext,
            request.getLocale());

            webContext.setVariables(context.getModels());
            request.setAttribute("view", context.getView());
            engine.process(/*default layout*/ "default", webContext, response.getWriter());

        }).orElseThrow(ViewEngineException::new);
    }
}
```

2.4. create MVC controller

```
@Path("")
@Controller
@Produces(TEXT_HTML)
public class IndexPage {

    @Inject Models models;

    @GET
    @Path("")
    public String indexView() {
        models.put("message", "Hello, World!");
        models.put("data", asList("ololo", "trololo"));
        return "index";
    }
}
```

2.5. add default (basic) pages layout

Thymeleaf default layout template in `src/main/resources/webapp/WEB-INF/layouts/default.html` file:

```
<!doctype html>
<html lang="en"
      xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="http://www.thymeleaf.org">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="IE=Edge" />
  <title>Template | Thymeleaf EE</title>
  <link rel="icon" type="image/x-icon" th:href="@{/assets/favicon.ico}" />
  <link rel="stylesheet" type="text/css" th:href="@{/webjars/material-design-
icons/3.0.1/material-icons.css}"
      href="/webjars/material-design-icons/3.0.1/material-icons.css"/>
  <link rel="stylesheet" type="text/css" th:href=
"@{/webjars/materializecss/0.100.2/css/materialize.min.css}"
      href="/webjars/materializecss/0.100.2/css/materialize.css"/>
  <link rel="stylesheet" type="text/css" th:href="@{/assets/styles.css}" />
  <!-- custom styles will be added here...-->
  <th:block th:include="${view} :: header" />
</head>
<body>

<div th:text="${message}">Here should be some basic message...</div>
<ul th:each="item : ${data}">
  <li th:text="${item}"></li>
</ul>

<!-- custom view specific stuff: -->
<div th:replace="${view} :: content"></div>

<script th:src="@{/webjars/jquery/3.3.1-1/jquery.min.js}"
        src="/webjars/jquery/3.3.1-1/jquery.js"></script>
<script th:src="@{/webjars/materializecss/0.100.2/js/materialize.min.js}"
        src="/webjars/materializecss/0.100.2/js/materialize.js"></script>
<script th:src="@{/assets/scripts.js}"></script>
<!-- custom scripts will be added here...-->
<th:block th:include="${view} :: footer" />
</body>
</html>
```

2.6. and finally create view for index page

Thymeleaf index view template (file `src/main/resources/webapp/WEB-INF/layouts/index.html`):

```
<!DOCTYPE html>
<html lang="en" xmlns="http://www.w3.org/1999/xhtml" xmlns:th=
"http://www.thymeleaf.org">
<head>
  <title>Hello | Thymeleaf EE</title>
  <div th:fragment="header" th:remove="tag">
    <!-- additional styles -->
  </div>
</head>
<body th:fragment="content">
<h1>Hello!</h1>
<div th:fragment="footer" th:remove="tag">
  <!-- additional scripts -->
</div>
</body>
</html>
```

Chapter 3. Links

- [GitHub repo](#)
- [GitHub pages](#)

Chapter 4. Other links

- [DZone: Thymeleaf With JavaEE 8 article](#)
- [JSR 371: Model-View-Controller Specification](#)
- [Resteasy docs](#)
- [Ozark: MVC for JavaEE](#)