

# 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)

# 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:materializecss:0.100.2'
    //implementation 'org.jboss.resteasy:resteasy-html:3.5.1.Final'
    //implementation 'org.restlet.jee:org.restlet:2.4.0'

    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());

        }).getOrElseThrow(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 href="https://fonts.googleapis.com/icon?family=Material+Icons"
rel="stylesheet"/>
  <link href="https://fonts.googleapis.com/css?family=Roboto:300,400,500"
rel="stylesheet"/>-->
  <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/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](#)