

SpringBoot2基于Swagger2生成离线Api文档



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通过swagger2与swagger-ui可以很方便的生成系统的在线api文档，这方面的博客网上有很多。

但是利用swagger生成离线api文档的博客就不多了。有的无法兼容springboot2，有的配置起来太麻烦，复用性与易用性较差。

为了能够方便的自动生成api离线文档，笔者花了些时间基于网上的博客做了修改，代码经过亲测可用于springboot2项目。

注意：生成pdf离线文档时，会因为

代码样例下载地址

Github: <https://github.com/ChaselX/springboot-swagger2-offline-api-doc>
(<https://github.com/ChaselX/springboot-swagger2-offline-api-doc>)

Gitee: <https://gitee.com/chasel96/springboot-swagger2-offline-api-doc>
(<https://gitee.com/chasel96/springboot-swagger2-offline-api-doc>)

旧版与新版的区别

个人觉得旧版的配置简单许多，新版的配置按照官方demo的配置来做还是复杂了很多

重要提示1： 本文档有两种版本生成，上面的只能基于2.6.1以下的swagger版本使用，下面的可以用于2.6.1以上版本。笔者在官档上看到了使用最新的swagger来生成离线api文档的方法，并已经在代码样例中实现了。

重要提示2： 在生成pdf离线文档时，因为adoc的字符编码问题，部分中文会消失，网上有现成的解决办法，但是由于解决的方式不够灵活，不在文档中展示。生成html离线文档不受影响。



使用2.6.1及以下版本生成Api文档

离线文档生成效果预览



生成文档效果预览

最终目标

配置到Springboot项目中以后，在项目打包的时候便会通过单元测试在指定的目录生成被官方 (<https://springfox.github.io/springfox/docs/current/>)称为staticdocs的离线文档

从Maven配置开始

Maven依赖引入

该篇博文引用的依赖都要引入， Spring Rest Docs的依赖spring-restdocs-mockmvc，离线文档的依赖springfox-staticdocs，因为要在单元测试的时候生成文档，所以需要再加测试相关的spring-boot-starter-test。

注意：因为springfox-staticdocs在16年以后就没有发布新依赖包了， swagger2与swagger-ui的依赖包版本必须为2.6.1， 否则会因为springfox-staticdocs的swagger-model与swagger2中的model不兼容导致错误。亲测踩坑填坑。

```

<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.reporting.outputEncoding>UTF-8</project.reporting.outputEn
coding>
    <java.version>1.8</java.version>
    <snippetsDirectory>${project.build.directory}/generated-snippets</s
nippetsDirectory>
</properties>

<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <!--swagger-->
    <dependency>
        <groupId>io.springfox</groupId>
        <artifactId>springfox-swagger2</artifactId>
        <version>2.6.1</version>
    </dependency>
    <dependency>
        <groupId>io.springfox</groupId>
        <artifactId>springfox-swagger-ui</artifactId>
        <version>2.6.1</version>
    </dependency>
    <!--offline doc-->
    <dependency>
        <groupId>org.springframework.restdocs</groupId>
        <artifactId>spring-restdocs-mockmvc</artifactId>
        <version>2.0.2.RELEASE</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>io.springfox</groupId>
        <artifactId>springfox-staticdocs</artifactId>
        <version>2.6.1</version>
        <scope>test</scope>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

```

Maven插件

asciidoctor-maven-plugin 插件会把Asciidoc格式文件转成HTML5格式输出。

```

<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <configuration>
        <includes>
          <include>/**/*.Documentation.java</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctor-maven-plugin</artifactId>
      <version>1.5.3</version>
      <configuration>
        <sourceDirectory>${project.basedir}/docs/asciidoc</sourceDirectory>

        <sourceDocumentName>index.adoc</sourceDocumentName>
        <attributes>
          <doctype>book</doctype>
          <toc>left</toc>
          <toclevels>3</toclevels>
          <numbered></numbered>
          <hardbreaks></hardbreaks>
          <sectlinks></sectlinks>
          <sectanchors></sectanchors>
          <generated>${project.build.directory}/asciidoc</generated>

          </attributes>
        </configuration>
        <!-- Since each execution can only handle one backend, run
             separate executions for each desired output type -->
        <executions>
          <execution>
            <id>output-html</id>
            <phase>test</phase>
            <goals>
              <goal>process-asciidoc</goal>
            </goals>
            <configuration>
              <backend>html5</backend>
              <!--<outputDirectory>${project.basedir}/docs/asciidoc/html</outputDirectory>-->
            </configuration>
          </execution>
        </executions>
        <!-- Configure generic document generation settings -->
        <dependencies>
          <!-- add for SpringBoot 2 -->
          <dependency>
            <groupId>org.jruby</groupId>
            <artifactId>jruby-complete</artifactId>
            <version>1.7.26</version>
          </dependency>
        </dependencies>
      </plugin>
    </plugins>
  </build>

```

生成文档的单元测试代码编写

```
package com.chinamobile.cmic.apidoc;

import io.github.robwin.markup.builder.MarkupLanguage;
import io.github.robwin.swagger2markup.GroupBy;
import io.github.robwin.swagger2markup.Swagger2MarkupConverter;
import org.junit.After;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.autoconfigure.restdocs.AutoConfigureRestDocs;
import org.springframework.boot.test.autoconfigure.web.servlet.AutoConfigureMockMvc;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.http.MediaType;
import org.springframework.restdocs.mockmvc.MockMvcRestDocumentation;
import org.springframework.restdocs.mockmvc.RestDocumentationRequestBuilders;
import org.springframework.restdocs.operation.preprocess.Preprocessors;
import org.springframework.test.context.junit4.SpringRunner;
import org.springframework.test.web.servlet.MockMvc;
import org.springframework.test.web.servlet.result.MockMvcResultMatchers;
import org.springframework.web.context.WebApplicationContext;
import springfox.documentation.staticdocs.SwaggerResultHandler;

/**
 * @author ChaselX
 * @date 2019/1/29 13:02
 */
@AutoConfigureMockMvc
@AutoConfigureRestDocs(outputDir = "target/generated-snippets")
@RunWith(SpringRunner.class)
@SpringBootTest(webEnvironment = SpringBootTest.WebEnvironment.RANDOM_PORT)
public class Documentation {
    private String snippetDir = "target/generated-snippets";
    private String outputDir = "target/asciidoc";

    @Autowired
    private MockMvc mockMvc;

    @Autowired
    private WebApplicationContext webApplicationContext;

    @After
    public void test() throws Exception {
        // 得到swagger.json,写入outputDir目录中
        mockMvc.perform(RestDocumentationRequestBuilders.get("/v2/api-docs")
            .accept(MediaType.APPLICATION_JSON))
            .andExpect(SwaggerResultHandler.outputDirectory(outputDir).build())
            .andExpect(MockMvcResultMatchers.status().isOk())
            .andReturn();

        // 读取上一步生成的swagger.json转成asciidoc,写入到outputDir
        // 这个outputDir必须和插件里面<generated></generated>标签配置一致
        Swagger2MarkupConverter.from(outputDir + "/swagger.json")
            .withPathsGroupedBy(GroupBy.TAGS)// 按tag排序
            .withMarkupLanguage(MarkupLanguage.ASCIIDOC)// 格式
            .withExamples(snippetDir)
            .build()
            .intoFolder(outputDir);// 输出
    }
}
```

```

    }

    @Test
    public void testApi() {
        try {
            mockMvc.perform(RestDocumentationRequestBuilders.get("/greeting
")
                        .accept(MediaType.APPLICATION_JSON))
                    .andExpect(MockMvcResultMatchers.status().isOk())
                    .andDo(MockMvcRestDocumentation.document("greeting",
                        Preprocessors.preprocessResponse(Preprocessors.
prettyPrint()))))
                    .andReturn();
        } catch (Exception e) {
            e.printStackTrace();
            Assert.fail();
        }
    }
}

```

这个类包含两个方法，TestApi()是用来生成例子，test()用来生成AsciiDoc的文档。生成例子用到了spring-restdocs-mockmvc，每一个API都要进行单元测试才能生成相应的文档片段（snippets），生成的结果如图：

Api用例片段

生成完整的AsciiDoc文档用到了 Swagger2MarkupConverter，第一步先获取在线版本的文档并保存到文件 swagger.json 中，第二步把 swagger.json 和之前的例子snippets整合并保存为AsciiDoc格式的完整文档。生成结果如图：

AsciiDoc格式的文档

Swagger配置类

通过配置类定义一些文档相关的信息

```

package com.chinamobile.cmic.apidoc.config;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import springfox.documentation.builders.ApiInfoBuilder;
import springfox.documentation.builders.PathSelectors;
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.service.ApiInfo;
import springfox.documentation.service.Contact;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;

/**
 * @author ChaselX
 * @date 2019/1/30 11:22
 */
@Configuration
@EnableSwagger2
public class SwaggerConfig {

    @Bean
    public Docket createRestApi() {
        return new Docket(DocumentationType.SWAGGER_2)
            .apiInfo(apiInfo())
            .select()
            .apis(RequestHandlerSelectors.basePackage("com.chinamobile.
cmic.apidoc"))
            .paths(PathSelectors.any())
            .build();
    }

    private ApiInfo apiInfo() {
        return new ApiInfoBuilder().title("API Document")
            .description("API Document for Spring Boot 2 Project")
            .contact(new Contact("ChaselX", "", ""))
            .version("1.0")
            .build();
    }
}

```

index.adoc

路径：项目名/docs/asciidoc/index.adoc

```

include::{generated}/overview.adoc[]
include::{generated}/definitions.adoc[]
include::{generated}/paths.adoc[]

```

生成HTML5的文档

利用前面配置的maven插件，只需要执行打包就可以生成相应的文档，如图：

参考资料

1. <https://www.jianshu.com/p/af7a6f29bf4f>
(<https://www.jianshu.com/p/af7a6f29bf4f>)
 2. <https://blog.csdn.net/fly910905/article/details/79131755>
(<https://blog.csdn.net/fly910905/article/details/79131755>)
-

使用2.6.1及以上版本生成Api文档

从Maven配置开始

Maven依赖引入

该篇博文引用的依赖都要引入，Spring Rest Docs的依赖spring-restdocs-mockmvc，离线文档的依赖springfox-staticdocs，因为要在单元测试的时候生成文档，所以需要再加测试相关的spring-boot-starter-test。

```
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <project.reporting.outputEncoding>UTF-8</project.reporting.outputEn
coding>
  <java.version>1.8</java.version>

  <swagger2markup.version>1.2.0</swagger2markup.version>
  <asciidoctor.input.directory>${project.basedir}/src/docs/asciidoc</
asciidoctor.input.directory>
  <swagger.output.dir>${project.build.directory}/swagger</swagger.out
put.dir>
  <swagger.snippetOutput.dir>${project.build.directory}/asciidoc/snip
pets</swagger.snippetOutput.dir>
  <generated.asciidoc.directory>${project.build.directory}/asciidoc/g
enerated</generated.asciidoc.directory>
  <asciidoctor.html.output.directory>${project.build.directory}/ascii
doc/html</asciidoctor.html.output.directory>
  <asciidoctor.pdf.output.directory>${project.build.directory}/asciid
oc/pdf</asciidoctor.pdf.output.directory>
  <swagger.input>${swagger.output.dir}/swagger.json</swagger.input>
  <springfox.version>2.9.2</springfox.version>
```



```
</properties>

<repositories>
  <repository>
    <id>jcentral</id>
    <name>bintray</name>
    <url>http://jcenter.bintray.com</url>
    <snapshots>
      <enabled>>false</enabled>
    </snapshots>
  </repository>
  <repository>
    <id>jcenter-snapshots</id>
    <name>jcenter</name>
    <url>http://oss.jfrog.org/artifactory/oss-snapshot-local/</url>
  </repository>
</repositories>

<dependencies>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
  <!--Default Log Encoder for Swagger2Markup-->
  <dependency>
    <groupId>net.logstash.logback</groupId>
    <artifactId>logstash-logback-encoder</artifactId>
    <version>5.1</version>
  </dependency>
  <!--swagger-->
  <dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger2</artifactId>
    <version>${springfox.version}</version>
  </dependency>
  <dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger-ui</artifactId>
    <version>${springfox.version}</version>
  </dependency>
  <!--offline doc-->
  <dependency>
    <groupId>org.springframework.restdocs</groupId>
    <artifactId>spring-restdocs-mockmvc</artifactId>
    <!--<scope>test</scope>-->
  </dependency>
  <dependency>
    <groupId>io.github.swagger2markup</groupId>
    <artifactId>swagger2markup-spring-restdocs-ext</artifactId>
    <version>${swagger2markup.version}</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-staticdocs</artifactId>
    <version>2.6.1</version>
    <!--<scope>test</scope>-->
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
```

Maven插件

asciidoctor-maven-plugin 插件会把Asciidoc格式文件转成HTML5格式输出。

```
<pluginRepositories>
  <pluginRepository>
    <id>jcenter-snapshots</id>
    <name>jcenter</name>
    <url>http://oss.jfrog.org/artifactory/oss-snapshot-local/</url>
  </pluginRepository>
  <pluginRepository>
    <id>jcenter-releases</id>
    <name>jcenter</name>
    <url>http://jcenter.bintray.com</url>
    <snapshots>
      <enabled>>false</enabled>
    </snapshots>
  </pluginRepository>
</pluginRepositories>

<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.3</version>
      <configuration>
        <compilerVersion>${java.version}</compilerVersion>
        <source>${java.version}</source>
        <target>${java.version}</target>
        <encoding>UTF-8</encoding>
        <!-- prevents endPosTable exception for maven compile -
-->
        <useIncrementalCompilation>>false</useIncrementalCompila
tion>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <configuration>
        <systemPropertyVariables>
          <io.springfox.staticdocs.outputDir>${swagger.output
.dir}</io.springfox.staticdocs.outputDir>
          <io.springfox.staticdocs.snippetsOutputDir>${swagge
r.snippetOutput.dir}</io.springfox.staticdocs.snippetsOutputDir>
        </systemPropertyVariables>
      </configuration>
    </plugin>

    <!-- First, use the swagger2markup plugin to generate asciidoc
-->
    <plugin>
      <groupId>io.github.swagger2markup</groupId>
      <artifactId>swagger2markup-maven-plugin</artifactId>
      <version>${swagger2markup.version}</version>
      <dependencies>
        <dependency>
          <groupId>io.github.swagger2markup</groupId>
          <artifactId>swagger2markup-import-files-ext</artifa
```

```

ctId>
        <version>${swagger2markup.version}</version>
    </dependency>
    <dependency>
        <groupId>io.github.swagger2markup</groupId>
        <artifactId>swagger2markup-spring-restdocs-ext</art
ifactId>
        <version>${swagger2markup.version}</version>
    </dependency>
</dependencies>
<configuration>
    <swaggerInput>${swagger.input}</swaggerInput>
    <outputDir>${generated.asciidoc.directory}</outputDir>
    <config>
        <swagger2markup.markupLanguage>ASCIIDOC</swagger2ma
rkup.markupLanguage>
        <swagger2markup.pathsGroupedBy>TAGS</swagger2markup
.pathsGroupedBy>

        <swagger2markup.extensions.dynamicOverview.contentP
ath>${project.basedir}/src/docs/asciidoc/extensions/overview</swagger2marku
p.extensions.dynamicOverview.contentPath>
        <swagger2markup.extensions.dynamicDefinitions.conte
ntPath>${project.basedir}/src/docs/asciidoc/extensions/definitions</swagger
2markup.extensions.dynamicDefinitions.contentPath>
        <swagger2markup.extensions.dynamicPaths.contentPath
>${project.basedir}/src/docs/asciidoc/extensions/paths</swagger2markup.exte
nsions.dynamicPaths.contentPath>
        <swagger2markup.extensions.dynamicSecurity.contentP
ath>${project.basedir}src/docs/asciidoc/extensions/security/</swagger2marku
p.extensions.dynamicSecurity.contentPath>

        <swagger2markup.extensions.springRestDocs.snippetBa
seUri>${swagger.snippetOutput.dir}</swagger2markup.extensions.springRestDoc
s.snippetBaseUri>
        <swagger2markup.extensions.springRestDocs.defaultSn
ippets>true</swagger2markup.extensions.springRestDocs.defaultSnippets>
    </config>
</configuration>
<executions>
    <execution>
        <phase>test</phase>
        <goals>
            <goal>convertSwagger2markup</goal>
        </goals>
    </execution>
</executions>
</plugin>

<!-- Run the generated asciidoc through Asciidoctor to generate
other documentation types, such as PDFs or HTML5 -->
<plugin>
    <groupId>org.asciidoctor</groupId>
    <artifactId>asciidoctor-maven-plugin</artifactId>
    <version>1.5.6</version>
    <!-- Include Asciidoctor PDF for pdf generation -->
    <dependencies>
        <dependency>
            <groupId>org.asciidoctor</groupId>
            <artifactId>asciidoctorj-pdf</artifactId>
            <version>1.5.0-alpha.16</version>
        </dependency>
        <dependency>
            <groupId>org.jruby</groupId>
            <artifactId>jruby-complete</artifactId>
            <version>1.7.21</version>
        </dependency>

```

```

</dependencies>
<!-- Configure generic document generation settings -->
<configuration>
    <sourceDirectory>${asciidoctor.input.directory}</source
Directory>

    <sourceDocumentName>index.adoc</sourceDocumentName>
    <attributes>
        <doctype>book</doctype>
        <toc>left</toc>
        <toclevels>3</toclevels>
        <numbered></numbered>
        <hardbreaks></hardbreaks>
        <sectlinks></sectlinks>
        <sectanchors></sectanchors>
        <generated>${generated.asciidoc.directory}</generat
ed>

        </attributes>
    </configuration>
    <!-- Since each execution can only handle one backend, run
        separate executions for each desired output type -->
    <executions>
        <execution>
            <id>output-html</id>
            <phase>test</phase>
            <goals>
                <goal>process-asciidoc</goal>
            </goals>
            <configuration>
                <backend>html5</backend>
                <outputDirectory>${asciidoctor.html.output.dire
ctory}</outputDirectory>
            </configuration>
        </execution>

        <execution>
            <id>output-pdf</id>
            <phase>test</phase>
            <goals>
                <goal>process-asciidoc</goal>
            </goals>
            <configuration>
                <backend>pdf</backend>
                <outputDirectory>${asciidoctor.pdf.output.direc
tory}</outputDirectory>
            </configuration>
        </execution>

    </executions>
</plugin>

<!-- specify the main class for the manifest -->
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <version>3.1.0</version>
    <configuration>
        <archive>
            <manifest>
                <addClasspath>true</addClasspath>
                <classpathPrefix>lib/</classpathPrefix>
                <!--important!!! specify the main class for the
manifest!!!-->

                <!--important!!! specify the main class for the
manifest!!!-->

                <!--important!!! specify the main class for the
manifest!!!-->

                <mainClass>com.chinamobile.cmic.apidoc.ApiDocAp

```

```

plication</mainClass>
        </manifest>
    </archive>
</configuration>
</plugin>

<!-- copy dependencies to the lib directory -->
<plugin>
    <artifactId>maven-dependency-plugin</artifactId>
    <executions>
        <execution>
            <phase>package</phase>
            <goals>
                <goal>copy-dependencies</goal>
            </goals>
            <configuration>
                <outputDirectory>${project.build.directory}/lib
</outputDirectory>
            </configuration>
        </execution>
    </executions>
</plugin>

<!-- copy the generated documents -->
<plugin>
    <artifactId>maven-resources-plugin</artifactId>
    <version>3.1.0</version>
    <executions>
        <execution>
            <id>copy-resources</id>
            <phase>prepare-package</phase>
            <goals>
                <goal>copy-resources</goal>
            </goals>
            <configuration>
                <outputDirectory>${project.build.outputDirector
y}/static/docs</outputDirectory>
                <resources>
                    <resource>
                        <directory>${asciidoctor.html.output.di
rectory}</directory>
                    </resource>
                    <resource>
                        <directory>${asciidoctor.pdf.output.dir
ectory}</directory>
                    </resource>
                </resources>
            </configuration>
        </execution>
    </executions>
</plugin>
</plugins>
</build>

```

生成文档的单元测试代码编写

```

package com.chinamobile.cmic.apidoc;

import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.autoconfigure.restdocs.AutoConfigureRe
stDocs;
import org.springframework.boot.test.autoconfigure.web.servlet.AutoConfigur

```

```

eMockMvc;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.http.MediaType;
import org.springframework.mock.web.MockHttpServletResponse;
import org.springframework.test.context.junit4.SpringRunner;
import org.springframework.test.context.web.WebAppConfiguration;
import org.springframework.test.web.servlet.MockMvc;
import org.springframework.test.web.servlet.MvcResult;

import java.io.BufferedWriter;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Paths;

import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.get;
import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.status;

/**
 * @author ChaseIX
 * @date 2019/1/29 13:02
 */
@WebAppConfiguration
@RunWith(SpringRunner.class)
@AutoConfigureRestDocs(outputDir = "build/asciidoc/snippets")
@SpringBootTest
@AutoConfigureMockMvc
public class Swagger2MarkupTest {

    @Autowired
    private MockMvc mockMvc;

    @Test
    public void testApi() throws Exception {
        mockMvc.perform(get("/greeting")
            .accept(MediaType.APPLICATION_JSON))
            .andDo(document("greetingGet",
                Preprocessors.preprocessResponse(Preprocessors.prettyPrint()))))
            .andExpect(status().isOk());
    }

    @Test
    public void createSpringfoxSwaggerJson() throws Exception {

        String outputDir = System.getProperty("io.springfox.staticdocs.outputDir");
        MvcResult mvcResult = this.mockMvc.perform(get("/v2/api-docs")
            .accept(MediaType.APPLICATION_JSON))
            .andExpect(status().isOk())
            .andReturn();

        MockHttpServletResponse response = mvcResult.getResponse();
        String swaggerJson = response.getContentAsString();
        Files.createDirectories(Paths.get(outputDir));
        try (BufferedWriter writer = Files.newBufferedWriter(Paths.get(outputDir, "swagger.json"), StandardCharsets.UTF_8)) {
            writer.write(swaggerJson);
        }
    }
}

```

这个类包含两个方法，TestApi()是用来生成例子，createSpringfoxSwaggerJson()用来生成Asciidoc的文档。生成例子用到了spring-restdocs-mockmvc，每一个API都要进行单元测试才能生成相应的文档片段（snippets），生成的结果如图：

Api用例片段

生成完整的Asciidoc文档用到了 Swagger2MarkupConverter，第一步先获取在线版本的文档并保存到文件 swagger.json 中，第二步把 swagger.json 和之前的例子snippets整合并保存为Asciidoc格式的完整文档。生成结果如图：

生成结果

Swagger配置类

通过配置类定义一些文档相关的信息

```

package com.chinamobile.cmic.apidoc.config;

import com.google.common.base.Predicates;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import springfox.documentation.builders.ApiInfoBuilder;
import springfox.documentation.service.ApiInfo;
import springfox.documentation.service.Contact;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;

import static springfox.documentation.builders.PathSelectors.ant;

/**
 * @author ChaselX
 * @date 2019/1/30 11:22
 */
@Configuration
@EnableSwagger2
public class SwaggerConfig {

    @Bean
    public Docket restApi() {
        return new Docket(DocumentationType.SWAGGER_2)
            .apiInfo(apiInfo())
            .select()
            .paths(Predicates.and(ant("/**"), Predicates.not(ant("/erro
r"))))
            .build();
    }

    private ApiInfo apiInfo() {
        return new ApiInfoBuilder()
            .title("API Document")
            .description("API Document for Spring Boot 2 Project")
            .contact(new Contact("ChaselX", "", ""))
            .version("1.0")
            .build();
    }
}

```

LogstashEncoder

在resources目录下创建一个名为logback.xml的配置文件，使用LogstashEncoder作为Default Log Encoder


```
<?xml version="1.0" encoding="UTF-8"?>
<configuration scan="true">
    <conversionRule conversionWord="clr" converterClass="org.springframework
k.boot.logging.logback.ColorConverter" />
    <conversionRule conversionWord="wex" converterClass="org.springframework
k.boot.logging.logback.WhitespaceThrowableProxyConverter" />

    <property name="CONSOLE_LOG_PATTERN" value="%clr(%d{yyyy-MM-dd HH:mm:ss
.SSS}){faint} %clr(%5p) %clr(${PID:- }){magenta} %clr(---){faint} %clr([%15
.15t{14}]){faint} %clr(%-40.40logger{39}){cyan} %clr(:){faint} %m%n%wex"/>

    <springProperty scope="context" name="application_name" source="info.na
me"/>
    <springProperty scope="context" name="application_version" source="info
.version"/>
    <springProperty scope="context" name="environment" source="info.envIRON
ment"/>

    <jmxConfigurator/>

    <appender name="CONSOLE" class="ch.qos.logback.core.ConsoleAppender">
        <encoder class="net.logstash.logback.encoder.LogstashEncoder" />
    </appender>

    <root level="INFO">
        <appender-ref ref="CONSOLE" />
    </root>

</configuration>
```

index.adoc

路径：项目名src/docs/asciidoc/index.adoc

```
include::{generated}/overview.adoc[]
include::{generated}/paths.adoc[]
include::{generated}/security.adoc[]
include::{generated}/definitions.adoc[]
```

生成HTML5、PDF的文档


利用前面配置的maven插件，只需要执行打包就可以生成相应的文档，如图：

生成的HTML5文档

生成的pdf文档

小礼物走一走，来简书关注我

赞赏支持

 Java 笔记 (/nb/16932445)

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谢随安 (/u/00a60b4319f4) ♂

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咸鱼


喜欢 | 16


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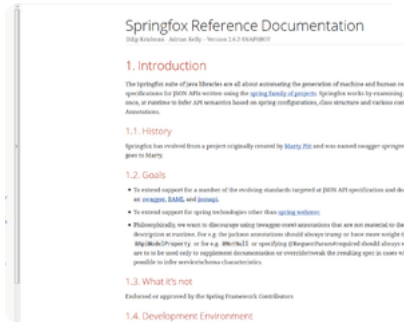
(/apps/redirect?utm_source=note-bottom-click)

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 技术方案 (/c/d8036c9aef89?utm_source=desktop&utm_medium=notes-included-collection)


(/p/af7a6f29bf4f?



utm_campaign=maleskine&utm_content=note&utm_medium=seo_notes&utm_source=recommendation

SpringBoot项目生成RESTfull API的文档 (/p/af7a6f29bf4f?utm_campa...


本人所在的项目团队分为前端开发和后端开发两个子小组，前后端通过RESTfull API通信，过去一般都要用word来写API文档，随着需求的变化和开发的深入，往往还要多次更新API文档，这会给开发人员增加不少

 quiterr (/u/e268fe04200a?

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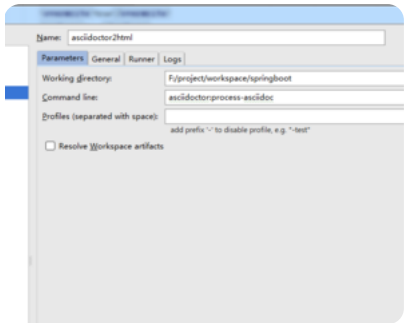
基于Spring的Restful接口生成工具 (/p/ecb8daa4ecf7?utm_campaign=...

场景 有时候需要为前端开发者提供Restful Api说明文档，通过word文档创建和修改非常耗时，希望有一种比较便捷的第三方库可以减少生成Api说明文档的工作量 基于Spring的Restful Api生成工具 术语解析

 飞天豌豆狼 (/u/3de004df8054?

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(/p/f0b1ed00c411?



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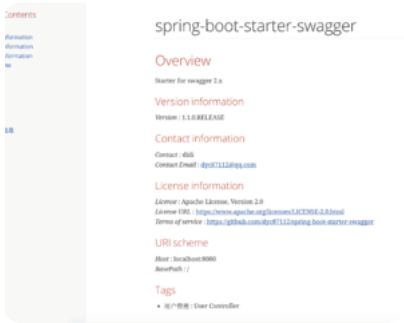
使用Swagger2Markup实现导出API文档 (/p/f0b1ed00c411?utm_campa...

前言 在学会了如何使用Swagger之后，我们已经能够轻松地为Spring MVC或SpringBoot的Web项目自动构建出API文档了。但是，构建的文档必须通过整合swagger-ui、或使用单独部署的swagger-ui

 binnan (/u/e73a02fe13e2?

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(/p/087e17015fb0?



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使用Swagger2Markup实现API文档的静态部署（一）：AsciiDoc (/p/08...

在阅读本文之前，您先需要了解Swagger的使用，如果您还不知道它是用来干嘛的，请先阅读《Spring Boot中使用Swagger2构建强大的RESTful API文档》一文。前言 在学会了如何使用Swagger之后，我们已

 程序猿DD (/u/6a622d516e32?

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(/p/6eaa6182abed?



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在Spring REST API中使用Swagger2进行文档管理 (/p/6eaa6182abed?u...

写在前面 使用RESTful API作为Web服务对外提供服务的入口，基本上已经成为了标准，在提供REST API的同时，如何进行API文档管理是一个较为麻烦的事情，作为开发人员我们都了解API文档的重要性，但总

 程序员精进 (/u/21cf3250e09a?

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(/p/82f7c311e40f?



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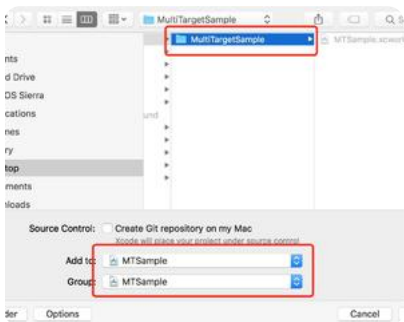
生气到底有多可怕? 医生说这些病都是气出来的! (/p/82f7c311e40f?utm_...

我们嘴边常挂一句话“气死我了”。“气死”不是夸张，生活中真有人被气死。容易生气、愤怒，不仅坏了心情，还会引发很多健康问题。俗话说，“不生气就不生病”。生气就像是一场“大地震”，气在心情，伤在身

 沃享财富 (/u/28164616ac81?

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(/p/818aed25b8e9?



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Workspace + Framework + MultiTarget + Cocoapods... (/p/818aed25b...

简介 本文主要介绍这样的一种项目结构：整个工程以一个Workspace来管理，这个Workspace中包含一到多个Project，一个Project中包含一到多个Target，每个Target可以输出一个静态库（Framework）或者



乌鸢 (/u/91e6f8976ea4?utm_campaign=maleskine&utm_content=user&utm_medium=seo_notes&utm_source=recommendation)

第一次去老婆家 (/p/24635bbc1662?utm_campaign=maleskine&utm_content=user&utm_medium=seo_notes&utm_source=recommendation)

第一次去老婆家，她家住二十楼！ 正巧那天电梯维修，没办法爬楼梯上去。开门的是她妈妈，我刚开口喊了句：“阿姨好！” 双腿瞬间一软“扑通”一下跪在她妈面前。 我尴尬的站起来准备解释！ 他爸在旁边调侃



我只是来讲个笑话 (/u/41ffdf52c150?utm_campaign=maleskine&utm_content=user&utm_medium=seo_notes&utm_source=recommendation)

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迟来的春天。 (/p/13dce70251ca?utm_campaign=maleskine&utm_content=note&utm_medium=seo_notes&utm_source=recommendation)

曾经听到一个故事，情节老套，似乎在我们的日常里，司空见惯。阿东最近在装修自己的房子。哥们九子见了，问他，咋，准备换换风格啊？阿东停下来，转过头的时候，脸上堆满幸福。这是我和小梅要住的新



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50平没有风格可言，业主的要求就是不拘泥于风格 (/p/77190051a770?utm_campaign=maleskine&utm_content=note&utm_medium=seo_notes&utm_source=recommendation)

试试搜相似的模型、案例 客户是一个文艺气息浓郁的单身男士，对家的要求是舒适 随性 安静，不拘泥于风格。好的作品是设计师和业主一起完成的，足够信任和支持，很庆幸本篇的业主是这样的人，所以后面



无言的设计 (/u/b4a761b2e81c?utm_campaign=maleskine&utm_content=user&utm_medium=seo_notes&utm_source=recommendation)