## 16

### Swagger API 與文件產生





#### 第十六單元大綱

- 16-1 Spring Swagger doc api應用
- 16-2 描述REST Service文件規範
- 16-3 單元測驗



# 16-1 Spring Swagger docapi應用



#### 何謂Swagger API

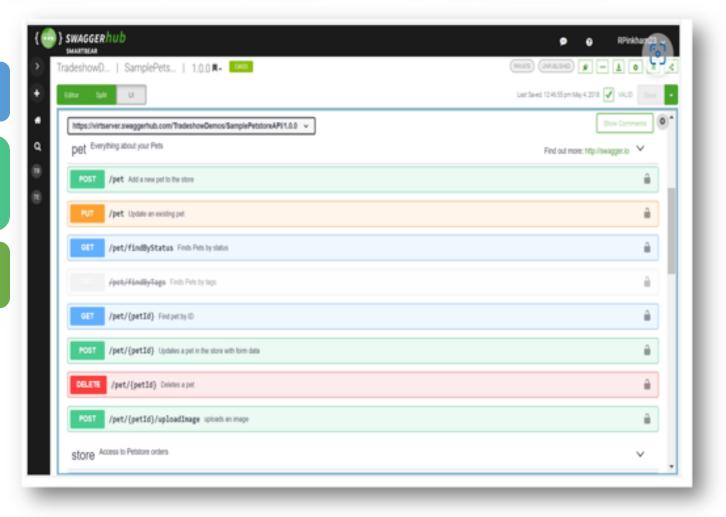


Swagger 是一個工具,可以讓您的API產生文件

透過Swagger UI工具可以產生HTML && CSS && Javascript產生網頁版的API文件

您亦可以借助Swagger文件進行API測試

https://swagger.io/





#### Spring Boot 使用springdoc套件



Springdoc套件是基於OpenAPI 3.0(Swagger 3)

Spring Boot專案pom.xml架構springdoc



#### 查看Swagger預設文件



#### http://localhost:8080/v3/api-docs

```
(i) localhost 8080/v3/api-docs
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ontroller"],"operationId":"retrieve","parameters":[{"name":"id","in":"path","required":true,'
type":"integer","format":"int32"}}],"responses":{"200":{"description":"OK","content":{"*/*":
schema":{"$ref":"#/components/schemas/Account"}}}}}},"/remove/{id}":{"delete":{"tags":["acc
controller"], "operationId": "remove", "parameters":[{"name":"id", "in":"path", "required":true, "sc
type":"integer","format":"int32"}}],"responses":{"200":{"description":"OK","content":{"*/*":
schema":{"type":"string"}}}}}},"components":{"schemas":{"Customers":{"type":"object","prop
id":{"type":"string"},"name":{"type":"string"},"address":{"type":"string"},"phone":
type":"string"},"country":{"type":"string"}}},"Emoji":{"type":"object","properties":{"index":
type":"integer","format":"int32"},"length":{"type":"integer","format":"int32"},"productId":
type":"string"},"emojiId":{"type":"string"}}},"Event":{"type":"object","properties":{"replyTe
type":"string"},"type":{"type":"string"},"mode":{"type":"string"},"timestamp":
type":"integer","format":"int64"},"source":{"$ref":"#/components/schemas/Source"},"message":
"$ref":"#/components/schemas/MyMessage"}}},"Mention":{"type":"object","properties":{"mentione
"type":"array","items":{"$ref":"#/components/schemas/Mentionee"}}}},"Mentionee":
"type":"object","properties":{"index":{"type":"integer","format":"int32"},"length":
type":"integer","format":"int32"},"userId":{"type":"string"}}},"MyMessage":
type":"object","properties":{"id":{"type":"string"},"type":{"type":"string"},"text":
type":"string"},"emojis":{"type":"array","items":{"$ref":"#/components/schemas/Emoji"}},"men"
"$ref":"#/components/schemas/Mention"}}},"Source":{"type":"object","properties":{"type":
```



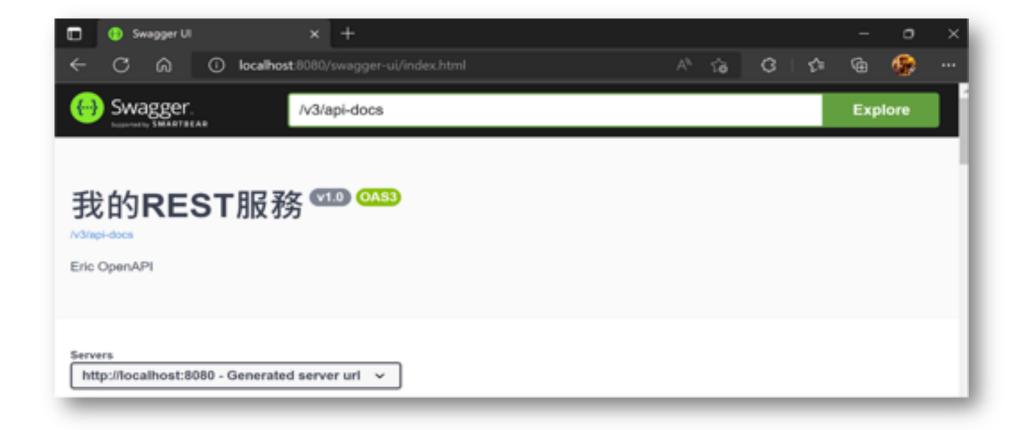
#### 配置Configuration Class

透過方法產生一個OpenAPI Bean

#### 檢視Swagger UI



#### http://localhost:8080/swagger-ui/index.html





#### 總結:16-1 Spring Swagger doc api應用

將Spring Boot配置springdoc api,並且配置 OpenAPI UI組態。接下來我們細部規劃Web API規範。

