모던 웹 애플리케이션 개발1

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날짜: 2023/02/06

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실습 1. 공공데이터 API 신청 및 확인

- ▶ 1) 공공데이터 회원가입 후 로그인
- ▶ 2) '부산광역시 동물병원' 검색 후 openAPI 상세 확인
- ▶ 3) 활용신청/승인 후 API 테스트(POSTMAN)

실습 1. 공공데이터 API 신청 및 확인

		http://apis.data.go.kr/6260000/BusanAr			
pageNo numOfRows URL Parameter Key		WWItWyH%2BBfK2QsquwkUSkcF7sT:			
		1			
			Header		Value Manage presets
			Send	Preview Add to collectio	
Julia	7.00.00	***			
dy Coo	kies (undefined) Headers (11)	STATUS 200 OK TIME 1772 ms			
Pretty	Raw Preview 📺	≣⊩ JSON XML			
5 6 7 8 9 10 11 12 13	<pre> <body- <br=""></body-> <items></items></pre>	/tel> 10			
15 16 17	<lat>35.230555<td></td></lat>				
18	<pre><item> <lon>129.127957 </lon></item></pre>				
19 20 21 22	<gugun>해운대구<tel>051-784-7844<!--</td--><td>/tel></td></tel></gugun>	/tel>			
20 21 22 23 24 25 26 27	<pre><gugun>하바운대구</gugun></pre> /gugun>하바운대구/gugun>51-784-7844 <approval>2004-08- <br< td=""><td>ugun> /tel> 16</td></br<></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></approval> 1-17	ugun> /tel> 16			
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실습 2. kakao Maps 신청 및 확인

- ▶ 1) 카카오맵 API 회원가입 후 로그인
- ▶ 2) 개발자 등록 및 앱 생성
- ▶ 3) 사이트 도메인 등록
- ▶ 4) 다양한 지도 API 샘플 참고

- ▶ 프로젝트 : MapBusanAnimalHospital
- Framework : Spring Boot 2.7.8
- Build : Framework
- Group : map.busan.animal.hospital
- Packaging : jar
- Language : Java 11
- Dependencies: Spring Boot Devtools, Lombok, Thymeleaf, Spring Web

```
MainController.java ×
43
               RequestEntity<Void> req = RequestEntity
44
                        .get(uri)
45
                        .build();
46
               RestTemplate restTemplate = new RestTemplate();
               ResponseEntity<String> result = restTemplate.exchange(req, String.class);
48
49
50
51
               //JSON 문자열
52
               String jsonData = result.getBody();
53
54
               //json 파싱
55
               ObjectMapper om = new ObjectMapper();
               try {
56
57
58
                   ResultVO resultVO = om.readValue(jsonData, ResultVO.class);
                   ItemV0[] items = resultV0.getGetTblAnimalHospital().getBody().getItems().getItem();
59
60
                   System.out.println(items);
61
                   model.addAttribute( attributeName: "items",items);
62
               } catch (JsonMappingException e){
63
                   e.getStackTrace();
65
               catch (JsonProcessingException e) {
                   a printCtackTrace().
```

```
index.html ×
                <!DOCTYPE html>
              <html xmlns:th="http://www.thymeleaf.org">
                        <meta charset="UTF-8">
                        <title>Index</title>
                        <div id="map" style="position:fixed;width:100%;height:100%;"></div>
                        <script type="text/javascript" src="//dapi.kakao.com/v2/maps/sdk.js?appkey=d755e3e3ef0063279f6b09cd42de710d"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>
                        <script th:inline="javascript">
               var mapContainer = document.getElementById('map'), // 지도를 표시할 div
                        mapOption = {
                                center: new kakao.maps.LatLng(35.17976009603529, 129.0750629182266), // 지도의 중심좌표
                                 level: 5 // 지도의 확대 레벨
              var map = new kakao.maps.Map(mapContainer, mapOption); // 지도를 생성합니다
              // 마커를 표시할 위치와 title 객체 배열입니다
              var items = [[${items}]]
              for (var item of items) {
```

```
ItemVO.java ×
       import lombok.*;
       3 usages
       ⊝@Getter
       @Setter
       @#LlArgsConstructor
       @NoArgsConstructor
       ⊝@ToString
       public class ItemV0 {
           no usages
11
           private String gugun;
           no usages
12
           private String animal_hospital;
           no usages
13
           private String approval;
14
           private String road_address;
           no usages
15
           private String tel;
           no usages
           private String lat;
16
17
           private String lon;
           private String basic_date;
18
19 }
```

```
ResultVO.java ×
                @Setter
21
                public class Header {
                    no usages
22
                    private String resultCode;
                    no usages
                    private String resultMsg;
23
                1 usage
25
                @Getter
                @Setter
27
                public class Body {
                    no usages
28
                    private Items items;
                    no usages
29
                    private int numOfRows;
                    no usages
30
                    private int pageNo;
                    no usages
31
                    private int totalCount;
                    1 usage
32
                    @Getter
33
                    @Setter
34
                    public class Items{
                        private ItemVO[] item;
35
36
```

