

모던 웹 애플리케이션 개발1

이름 : 공민혁
반 : JAVA1 오전반

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1. 공공데이터 신청 및 확인

1. 공공데이터 신청 및 확인

https://apis.data.go.kr/6260000/BusanAnimalHospService/getTbAnimalHospital?serviceKey=54cn%2FxHMhC4RmQmRFejl4zeU8YF40tbbi%2FQK

Send Preview Add to collection

Body Cookies (undefined) Headers (11) STATUS 200 OK TIME 217 ms

Pretty Raw Preview

JSON XML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <response>
3   <header>
4     <resultMsg>NORMAL_CODE</resultMsg>
5     <resultCode>00</resultCode>
6   </header>
7   <body>
8     <items>
9       <item>
10        <lon>129.156999</lon>
11        <road_address>부산광역시 해운대구 뱘반송로 73 (뱘송동)</road_address>
12        <gugun>해운대구</gugun>
13        <tel>051-544-7588</tel>
14        <approval>2011-02-10</approval>
15        <basic_date>2023-01-17</basic_date>
16        <lat>35.230555</lat>
17        <animal_hospital>85조은동물병원</animal_hospital>
18      </item>
19      <item>
20        <lon>129.127957</lon>
21        <road_address>부산광역시 해운대구 재반로 148, 32호 (재송동)</road_address>
22        <gugun>해운대구</gugun>
23        <tel>051-784-7844</tel>
24        <approval>2004-08-16</approval>
25        <basic_date>2023-01-17</basic_date>
26        <lat>35.190959</lat>
27        <animal_hospital>갯마을동물병원</animal_hospital>
28      </item>
29      <item>
30        <lon>129.155099</lon>
31        <road_address>부산광역시 해운대구 해운대로 580, 4층 (우동)</road_address>
32        <gugun>해운대구</gugun>
33        <tel>051-704-7582</tel>
34        <approval>1999-01-22</approval>
35        <basic_date>2023-01-17</basic_date>
36        <lat>35.161211</lat>
37        <animal_hospital>김준완 동물의료센터</animal_hospital>
38      </item>
39      <item>
40        <lon>129.206318</lon>
41        <road_address>부산광역시 해운대구 송정2로13번길 46 (송정동)</road_address>
42        <gugun>해운대구</gugun>
43        <tel>051-701-7599</tel>
44        <approval>2014-10-13</approval>
45        <basic_date>2023-01-17</basic_date>
46        <lat>35.194809</lat>
47        <animal_hospital>누리동물병원</animal_hospital>
48      </item>
49      <item>
50        <lon>129.177735</lon>
51        <road_address>부산광역시 해운대구 좌동순환로402번길 8, 204호 (좌동, 피렌체오피스텔)</road_address>
52        <gugun>해운대구</gugun>
53        <tel>051-731-7530</tel>
54        <approval>2013-07-22</approval>
55        <basic_date>2023-01-17</basic_date>
```

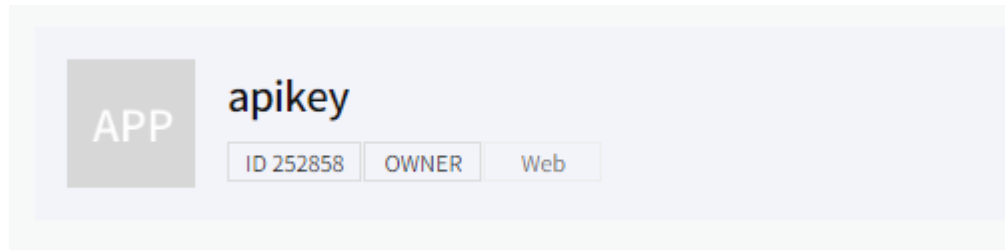
개발계정 상세보기

기본정보

데이터명	부산광역시_동물병원 현황			상세설명
서비스유형	REST	심의여부	자동승인	
신청유형	개발계정 활용신청	처리상태	승인	
활용기간	2023-02-06 ~ 2025-02-06			

2. Kakao Maps 신청 및 확인

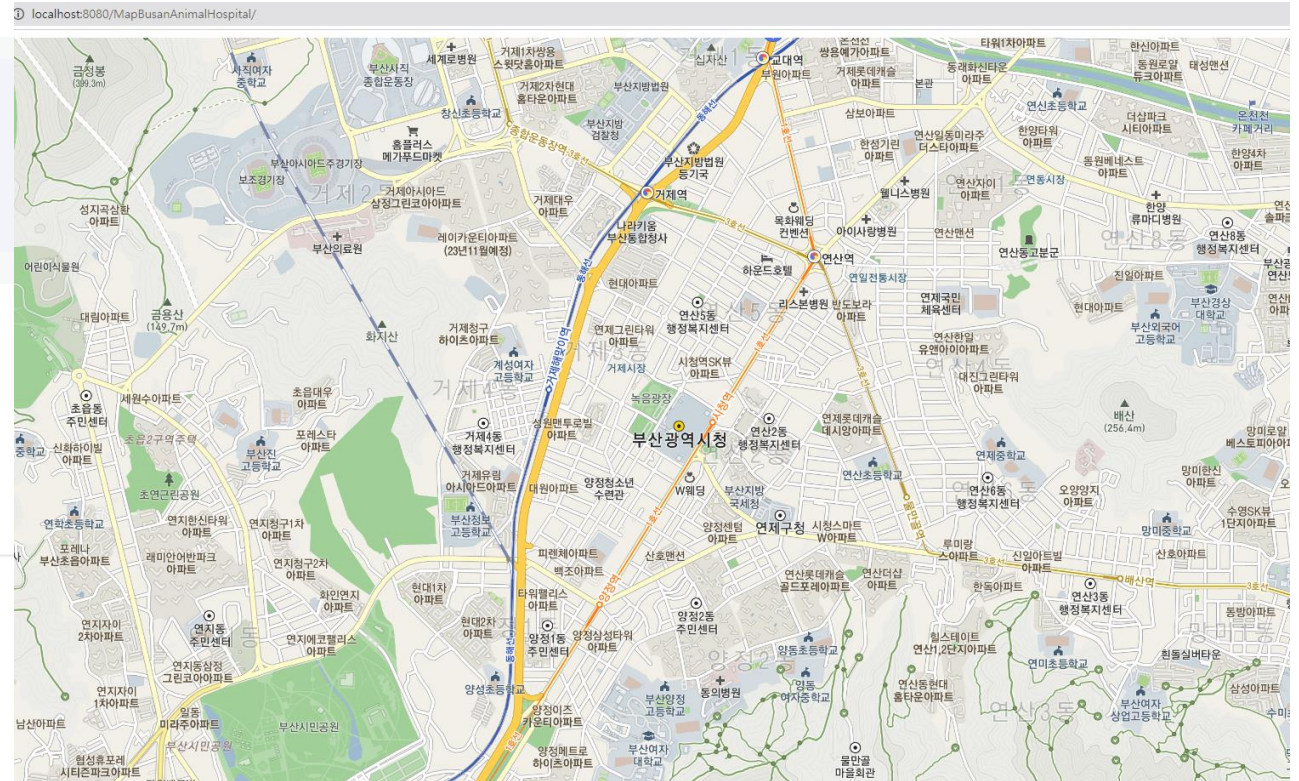
2. Kakao Maps 신청 및 확인



Web

사이트 도메인

<http://localhost:8080>



3. 구현화면(vo)

```
@Getter
@Setter
@AllArgsConstructor
@NoArgsConstructor
@ToString
public class ResultVO {
    private GetTblAnimalHospital getTblAnimalHospital;

    @Getter
    @Setter
    public class GetTblAnimalHospital {
        private Header header;
        private Body body;

        @Getter
        @Setter
        public class Header {
            private String resultMsg;
            private String resultCode;
        }

        @Getter
        @Setter
        public class Body {
            private Items items;
            private int numOfRows;
            private int pageNo;
            private int totalCount;

            @Getter
            @Setter
            public class Items {
                private ItemVO[] item;
            }
        }
    }
}
```

```
@Getter
@Setter
@AllArgsConstructor
@NoArgsConstructor
@ToString
public class ItemVO {
    private String gugun;
    private String road_address;
    private String approval;
    private String tel;
    private String basic_date;
    private String lon;
    private String lat;
    private String animal_hospital;
}
```

3. 구현화면(controller)

```
@Controller
public class MainController {

    @GetMapping(value = {"/", "/index"})
    public String index(Model model) {

        String apiURL = "http://apis.data.go.kr/6260000/BusanAnimalHospService/getTblAnimalHospital";
        String serviceKey = "54cn%2FxmHc4RmQmRFejI4zeU8YF40tbbI%2FQKezMb9TDG2hUZ%2B1LUsg6oX3KW3A01PDCfNLQr1l3W1aif499yNQ%3D%3D";
        String resultType= "json";
        String pageNo = "1";
        String numofRows = "1000"; // 부산시 전체 동물병원 279

        URI uri = UriComponentsBuilder
            .fromUriString(apiURL)
            .queryParams("serviceKey", serviceKey)
            .queryParams("resultType", resultType)
            .queryParams("pageNo", pageNo)
            .queryParams("numofRows", numofRows)
            .encode()
            .build()
            .toUri();

        RequestEntity<Void> req = RequestEntity.get(uri).build();

        RestTemplate restTemplate = new RestTemplate();
        ResponseEntity<String> result = restTemplate.exchange(req, String.class);

        // JSON 문자열
        String jsonData = result.getBody();

        // JSON 파싱(Deserialization)
        ObjectMapper om = new ObjectMapper();
        try {
            ResultVO resultVO = om.readValue(jsonData, ResultVO.class);
            ItemVO[] items = resultVO.getGetTblAnimalHospital().getBody().getItems().getItem();
        }
    }
}
```

```
// JSON 파싱(Deserialization)
ObjectMapper om = new ObjectMapper();
try {
    ResultVO resultVO = om.readValue(jsonData, ResultVO.class);
    ItemVO[] items = resultVO.getGetTblAnimalHospital().getBody().getItems().getItem();
    model.addAttribute("items", items);
} catch (JsonMappingException e) {
    e.printStackTrace();
} catch (JsonProcessingException e) {
    e.printStackTrace();
}
return "index";
```


3. 구현화면(index)

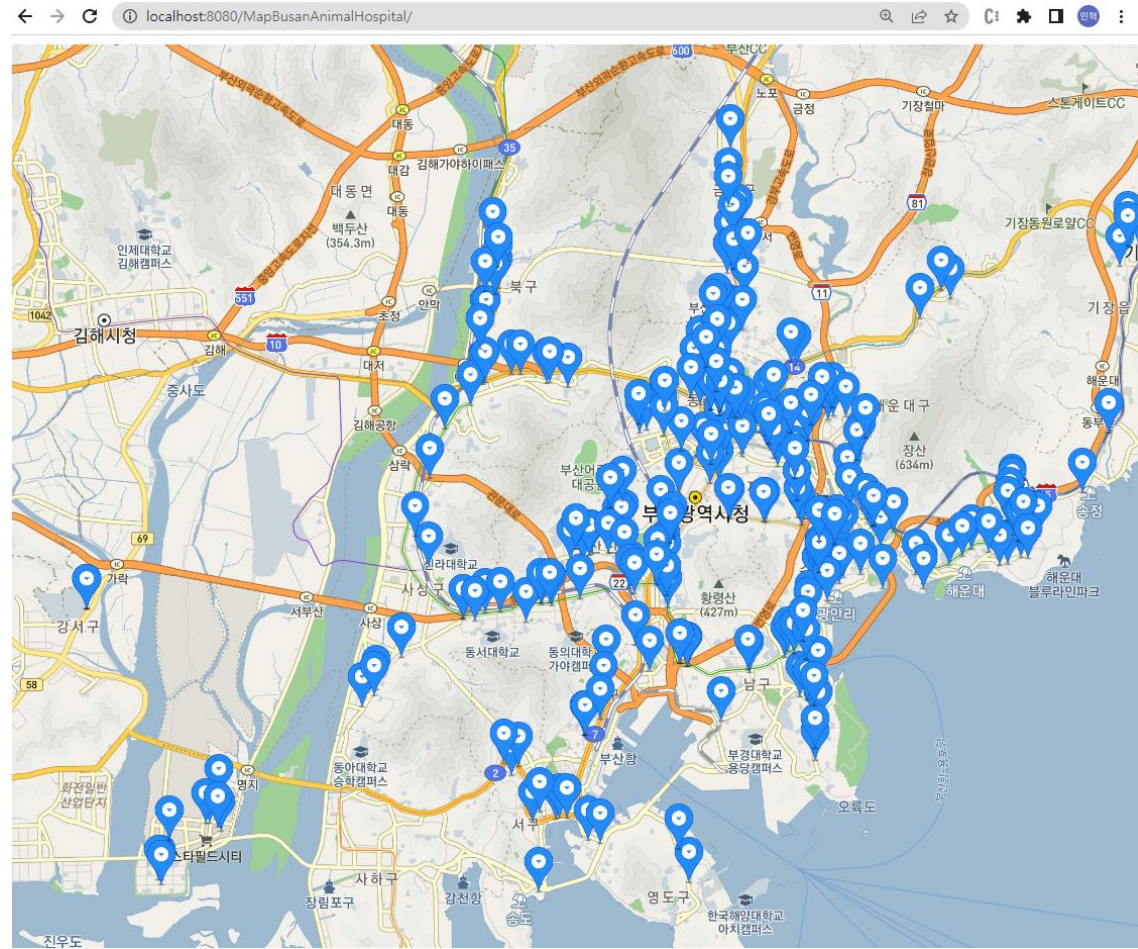
```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
  <head>
    <meta charset="UTF-8">
    <title>index</title>
  </head>
  <body>
    <div id="map" style="position:fixed;width:100%;height:100%"></div>

    <script type="text/javascript" src="//dapi.kakao.com/v2/maps/sdk.js?appkey=75f4a41bacb576ca7085c5b856c74801"></script>
    <script th:inline="javascript">
      // 카카오 지도 API 가이드 참고(http://apis.map.kakao.com)
      var container = document.getElementById('map');
      var options = {
        center: new kakao.maps.LatLng(35.17976009603529, 129.0750629182266), // 지도 중심 좌표(부산시청)
        level: 5 // 지도 레벨(확대, 축소 정도)
      };

      var map = new kakao.maps.Map(container, options);
      var items = [[${items}]];

      for(var item of items){
        // 마커 생성
        var marker = new kakao.maps.Marker({
          title: item.animal_hospital,
          position: new kakao.maps.LatLng(item.lat, item.lon)
        });
        // 마커 표시
        marker.setMap(map);
      }
    </script>
  </body>
</html>
```

3. 구현화면(marker)



끝