

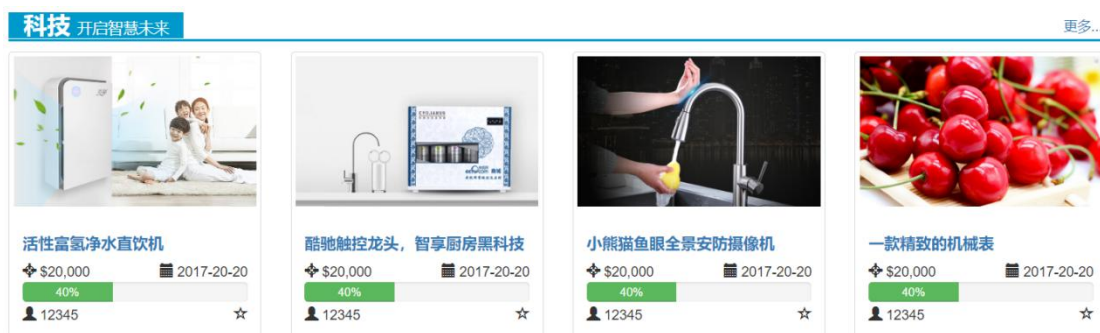
尚筹网

[18-尚硅谷-尚筹网-前台-展示项目]

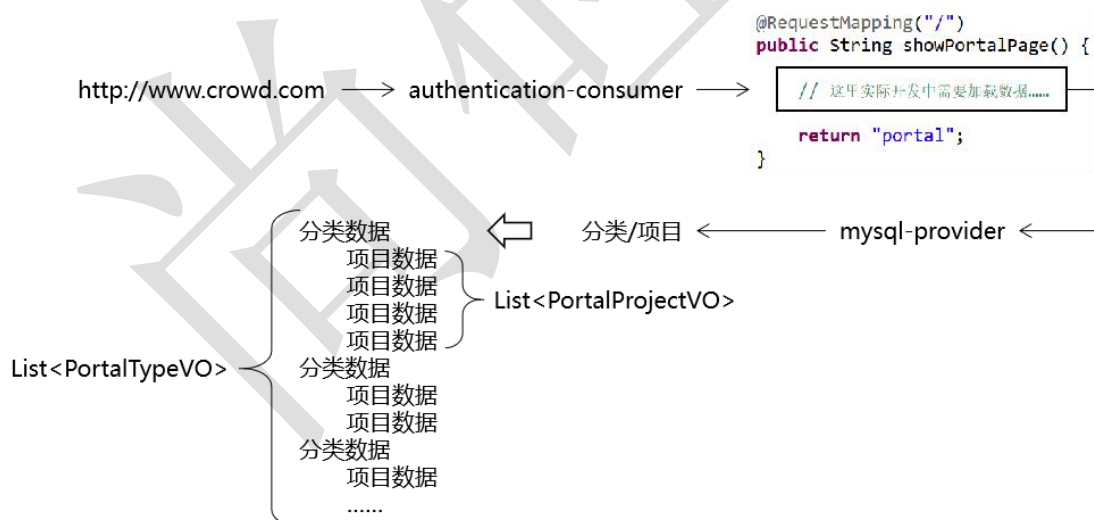
1 首页显示项目数据

1.1 目标

在首页上加载真实保存到数据库的项目数据，按分类显示。



1.2 思路



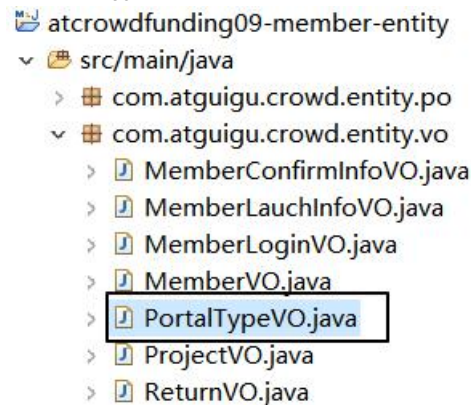
1.3 操作步骤

- 创建实体类
PortalTypeVO
PortalProjectVO
- mysql-provider 微服务暴露数据查询接口
 - ProjectPOMapper.xml 中编写查询数据的 SQL 语句

- 在 ProjectPOMapper 接口中声明查询数据的方法
- 在 ProjectService 中调用 Mapper 方法拿到数据
- 在 ProjectHandler 中调用 Service 方法拿到数据
- api 工程声明 Feign 的接口
- 在 authentication-consumer 中调用 mysql-provider 暴露的接口拿到数据存入模型
- 在 portal.html 中显示模型中的数据

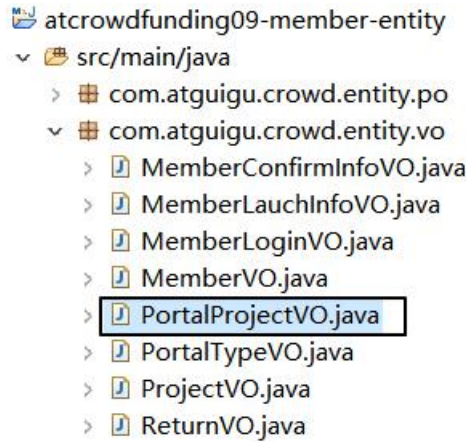
1.4 代码第一步：创建实体类

1.4.1 PortalTypeVO

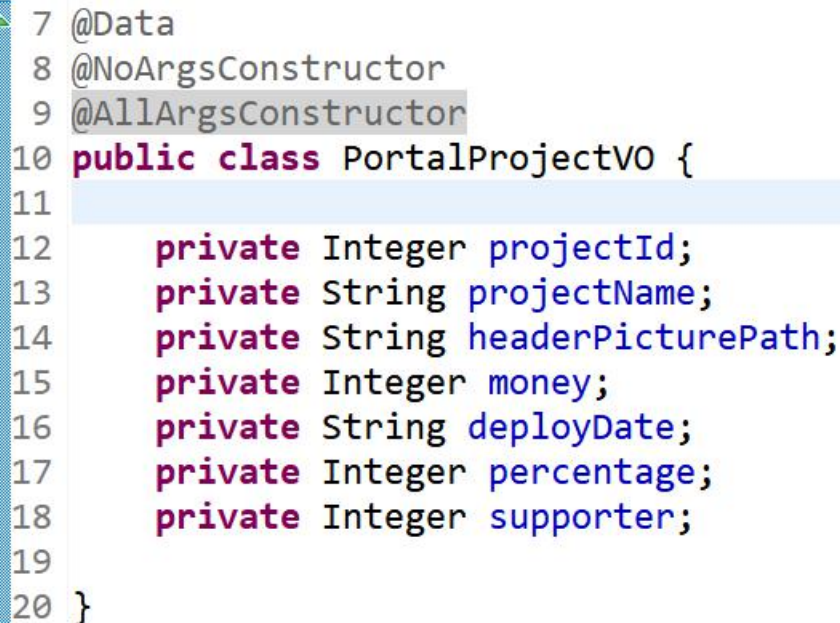


```
9 @Data
10 @NoArgsConstructor
11 @AllArgsConstructor
12 public class PortalTypeVO {
13
14     private Integer id;
15     private String name;
16     private String remark;
17
18     private List<PortalProjectVO> portalProjectVOList;
19
20 }
21
```

1.4.2 PortalProjectVO

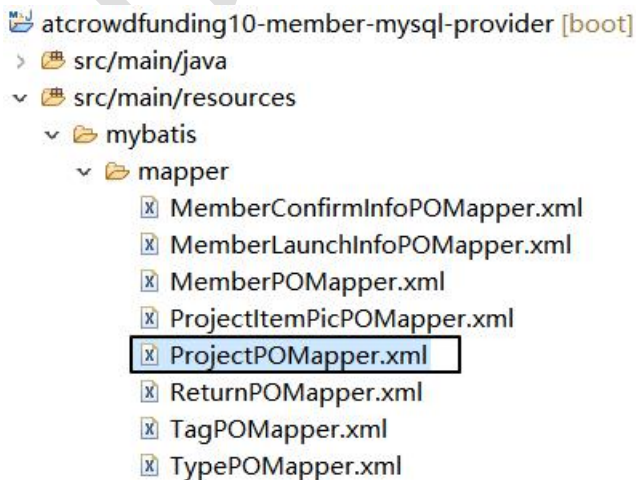


```
atcrowdfunding09-member-entity
├── src/main/java
│   ├── com.atguigu.crowd.entity.po
│   └── com.atguigu.crowd.entity.vo
│       ├── MemberConfirmInfoVO.java
│       ├── MemberLaunchInfoVO.java
│       ├── MemberLoginVO.java
│       ├── MemberVO.java
│       ├── PortalProjectVO.java
│       ├── PortalTypeVO.java
│       ├── ProjectVO.java
│       └── ReturnVO.java
```



```
7 @Data
8 @NoArgsConstructor
9 @AllArgsConstructor
10 public class PortalProjectVO {
11
12     private Integer projectId;
13     private String projectName;
14     private String headerPicturePath;
15     private Integer money;
16     private String deployDate;
17     private Integer percentage;
18     private Integer supporter;
19
20 }
```

1.5 代码第二步：SQL



```
atcrowdfunding10-member-mysql-provider [boot]
├── src/main/java
└── src/main/resources
    ├── mybatis
    │   └── mapper
    │       ├── MemberConfirmInfoPOMapper.xml
    │       ├── MemberLaunchInfoPOMapper.xml
    │       ├── MemberPOMapper.xml
    │       ├── ProjectItemPicPOMapper.xml
    │       ├── ProjectPOMapper.xml
    │       ├── ReturnPOMapper.xml
    │       ├── TagPOMapper.xml
    │       └── TypePOMapper.xml
```

```
<resultMap type="com.atguigu.crowd.entity.vo.PortalTypeVO"
id="loadPortalProjectListResultMap">

    <!-- 分类数据的常规属性 -->
    <id column="id" property="id"/>
    <result column="name" property="name"/>
    <result column="remark" property="remark"/>

    <!-- 分类数据中包含的项目数据的 List -->
    <!-- property 属性：对应 PortalTypeVO 中分类数据中的项目数据的 List 属性 -->
    <!-- column 属性：接下来查询项目时需要用到分类 id，就是通过 column 属性把值传入 -->

    <!-- ofType 属性：项目数据的实体类型 PortalProjectVO -->
    <collection
        property="portalProjectVOList"

        column="id"

        ofType="com.atguigu.crowd.entity.vo.PortalProjectVO"
        select="com.atguigu.crowd.mapper.ProjectPOMapper.selectPortalProjectVOList"/>
</resultMap>

<select id="selectPortalTypeVOList" resultMap="loadPortalProjectListResultMap">
    select id,name,remark from t_type
</select>

<select id="selectPortalProjectVOList"
resultType="com.atguigu.crowd.entity.vo.PortalProjectVO">
    SELECT
        t_project.id projectId,
        project_name projectName,
        money,
        deploydate deployDate,
        supportmoney/money*100 percentage,
        supporter supporter,
        header_picture_path headerPicturePath
        FROM t_project LEFT JOIN t_project_type ON t_project.id=t_project_type.projectid

    WHERE t_project_type.typeid=#{id}

    ORDER BY t_project.id DESC
    LIMIT 0,4
</select>
```

1.6 代码第三步：暴露 mysql-provider 中的接口

1.6.1 Service 方法

atcrowdfunding10-member-mysql-provider [boot]

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.handler
 - com.atguigu.crowd.mapper
 - com.atguigu.crowd.service.api
 - MemberService.java
 - ProjectService.java

```
8 public interface ProjectService {
9
10     void saveProject(ProjectVO projectVO, Integer memberId);
11
12     List<PortalTypeVO> getPortalTypeVO();
13
14 }
```

atcrowdfunding10-member-mysql-provider [boot]

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.handler
 - com.atguigu.crowd.mapper
 - com.atguigu.crowd.service.api
 - com.atguigu.crowd.service.impl
 - MemberServiceImpl.java
 - ProjectServiceImpl.java

```
@Override
public List<PortalTypeVO> getPortalTypeVO() {
    return projectPOMapper.selectPortalTypeVOList();
}
```

1.6.2 Handler 方法

atcrowdfunding10-member-mysql-provider [boot]

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.handler
 - MemberProviderHandler.java
 - ProjectProviderHandler.java
 - com.atguigu.crowd.mapper


```
@RequestMapping("/get/portal/type/project/data/remote")
public ResultEntity<List<PortalTypeVO>> getPortalTypeProjectDataRemote() {

    try {
        List<PortalTypeVO> portalTypeVOList = projectService.getPortalTypeVO();

        return ResultEntity.successWithData(portalTypeVOList);
    } catch (Exception e) {
        e.printStackTrace();

        return ResultEntity.failed(e.getMessage());
    }

}
```

1.6.3 创建 Feign 接口

atcrowdfunding17-member-api [boot]

- src/main/java
 - com.atguigu.crowd.api
 - MySQLRemoteService.java
 - RedisRemoteService.java
- src/main/resources

```
15 @FeignClient("atguigu-crowd-mysql")
16 public interface MySQLRemoteService {
17
18     @RequestMapping("/get/memberpo/by/login/acct/remote")
19     ResultEntity<MemberPO> getMemberPOByLoginAcctRemote(
20         @RequestParam("loginacct") String loginacct);
21
22     @RequestMapping("/save/member/remote")
23     public ResultEntity<String> saveMember(@RequestBody MemberPO memberPO);
24
25     @RequestMapping("/save/project/vo/remote")
26     ResultEntity<String> saveProjectVORemote(
27         @RequestBody ProjectVO projectVO,
28         @RequestParam("memberId") Integer memberId);
29
30     @RequestMapping("/get/portal/type/project/data/remote")
31     public ResultEntity<List<PortalTypeVO>> getPortalTypeProjectDataRemote();
32 }
33
```

1.7 代码第四步：调用 mysql-provider 接口

atcrowdfunding12-member-authentication-consumer

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.config
 - com.atguigu.crowd.handler
 - MemberHandler.java
 - PortalHandler.java

```
@RequestMapping("/")
public String showPortalPage(Model model) {

    // 1、调用MySQLRemoteService提供的方法查询首页要显示的数据
    ResultEntity<List<PortalTypeVO>> resultEntity =
        mySQLRemoteService.getPortalTypeProjectDataRemote();

    // 2.检查查询结果
    String result = resultEntity.getResult();
    if(ResultEntity.SUCCESS.equals(result)) {

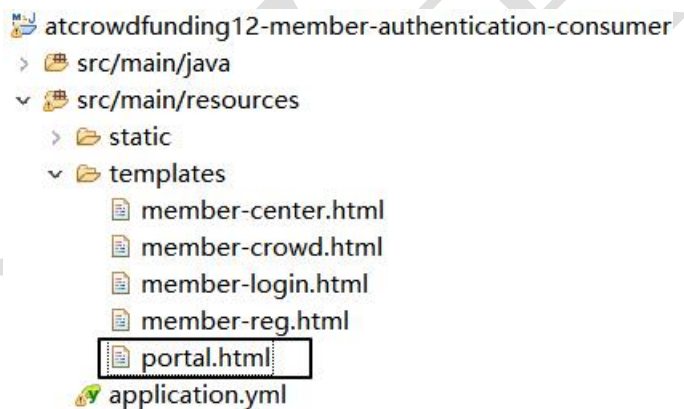
        // 3.获取查询结果数据
        List<PortalTypeVO> list = resultEntity.getData();

        // 4.存入模型
        model.addAttribute(CrowdConstant.ATTR_NAME_PORTAL_DATA, list);

    }

    return "portal";
}
```

1.8 代码第五步：页面显示

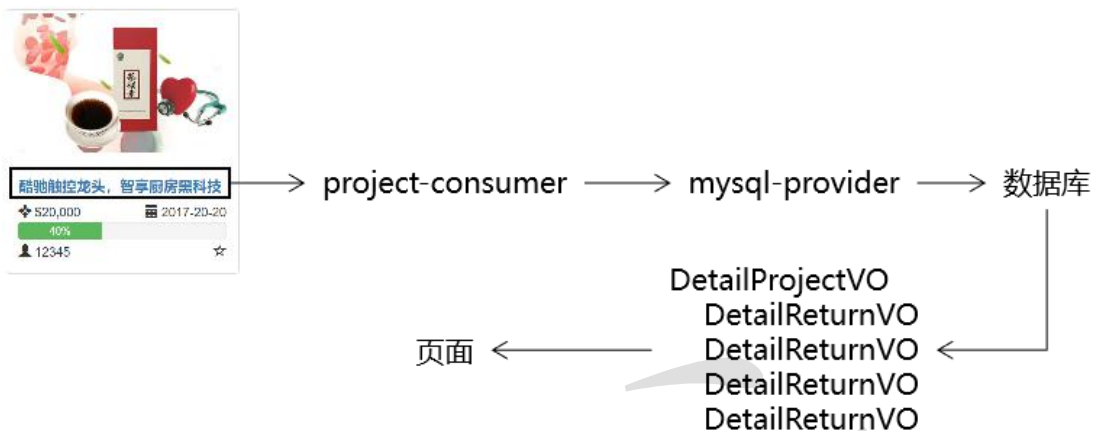


2 显示项目详情

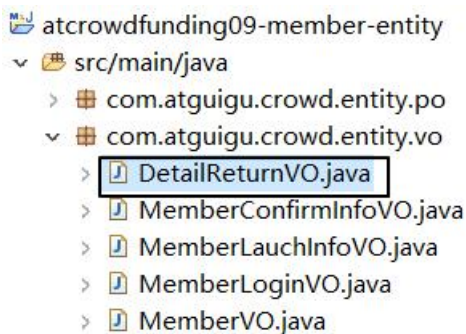
2.1 目标

显示项目详情

2.2 思路



2.3 代码第一步：创建实体类



```

@Data
@NoArgsConstructor
@AllArgsConstructor
public class DetailReturnVO {

    // 回报信息主键
    private Integer returnId;

    // 当前档位需支持的金额
    private Integer supportMoney;

    // 单笔限购，取值为 0 时无限额，取值为 1 时有限额
    private Integer signalPurchase;

    // 具体限额数量
    private Integer purchase;

    // 当前该档位支持者数量
    private Integer supproterCount;
  
```

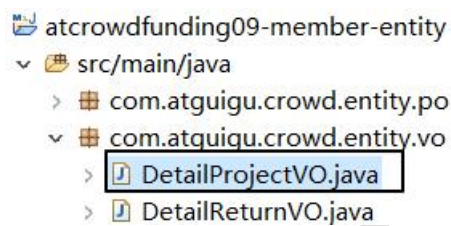


```
// 运费，取值为 0 时表示包邮
private Integer freight;

// 众筹成功后多少天发货
private Integer returnDate;

// 回报内容
private String content;

}
```



atcrowdfunding09-member-entity

- src/main/java
 - com.atguigu.crowd.entity.po
 - com.atguigu.crowd.entity.vo
 - DetailProjectVO.java**
 - DetailReturnVO.java

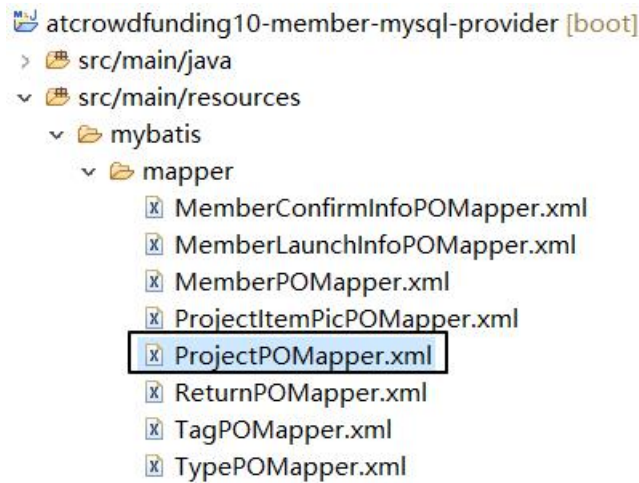
```
@Data
@NoArgsConstructor
@AllArgsConstructor
public class DetailProjectVO {

    private Integer projectId;
    private String projectName;
    private String projectDesc;
    private Integer followerCount;
    private Integer status;
    private String statusText;
    private Integer money;
    private Integer supportMoney;
    private Integer percentage;
    private String deployDate;
    private Integer lastDay;
    private Integer supporterCount;
    private String headerPicturePath;
    private List<String> detailPicturePathList;
    private List<DetailReturnVO> detailReturnVOList;

}
```

2.4 代码第二步：mysql-provider 暴露接口

2.4.1 SQL



```
<resultMap type="com.atguigu.crowd.entity.vo.DetailProjectVO"
id="loadProjectDetailResultMap">
  <id column="id" property="projectId"/>
  <result column="project_name" property="projectName"/>
  <result column="project_description" property="projectDesc"/>
  <result column="money" property="money"/>
  <result column="status" property="status"/>
  <result column="deploydate" property="deployDate"/>
  <result column="supportmoney" property="supportMoney"/>
  <result column="follower" property="followerCount"/>
  <result column="supporter" property="supporterCount"/>
  <result column="header_picture_path" property="headerPicturePath"/>
  <collection
    property="detailPicturePathList"
    select="com.atguigu.crowd.mapper.ProjectPOMapper.selectDetailPicturePath"
    column="id"/>

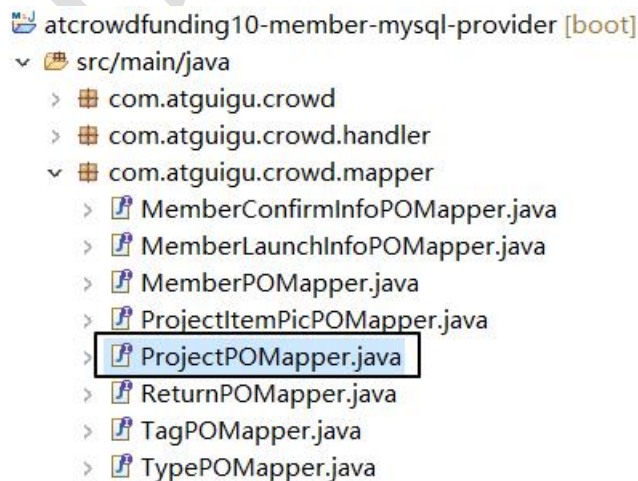
  <collection
    property="detailReturnVOList"
    select="com.atguigu.crowd.mapper.ProjectPOMapper.selectDeatailReturnVO"
    column="id"/>
</resultMap>

<select id="selectDetailPicturePath" resultType="string">
  SELECT item_pic_path FROM t_project_item_pic WHERE projectid=#{id}
</select>

<select id="selectDeatailReturnVO" resultType="com.atguigu.crowd.entity.vo.DetailReturnVO">
```

```
select
    id returnId,
    supportmoney supportMoney,
    content,
    signalpurchase signalPurchase,
    purchase,
    freight,
    returndate returnDate
from t_return
where projectid=#{id}
</select>

<select id="selectDetailProjectVO" resultMap="loadProjectDetailResultMap">
    select
        id,
        project_name,
        project_description ,
        money,
        status,
        deploydate,
        supportmoney,
        supporter,
        supportmoney/money*100 percentage,
        follower,
        header_picture_path
    from
        t_project
    where id=#{projectId}
</select>
```



```
atcrowdfunding10-member-mysql-provider [boot]
├── src/main/java
│   ├── com.atguigu.crowd
│   ├── com.atguigu.crowd.handler
│   └── com.atguigu.crowd.mapper
│       ├── MemberConfirmInfoPOMapper.java
│       ├── MemberLaunchInfoPOMapper.java
│       ├── MemberPOMapper.java
│       ├── ProjectItemPicPOMapper.java
│       └── ProjectPOMapper.java
│       ├── ReturnPOMapper.java
│       ├── TagPOMapper.java
│       └── TypePOMapper.java
```

```
public interface ProjectPOMapper {  
  
    // .....  
  
    DetailProjectVO selectDetailProjectVO(Integer projectId);  
}
```

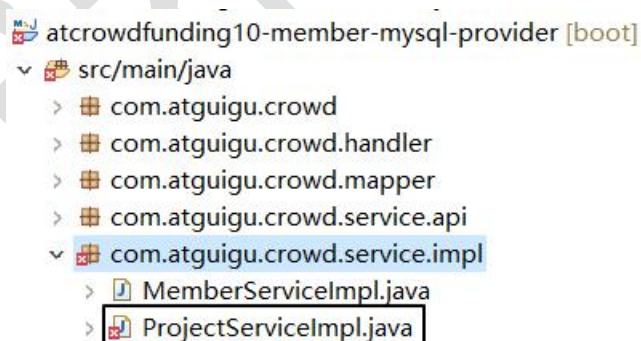
2.4.2 Service 方法



atcrowdfunding10-member-mysql-provider [boot]

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.handler
 - com.atguigu.crowd.mapper
 - com.atguigu.crowd.service.api
 - MemberService.java
 - ProjectService.java**
 - com.atguigu.crowd.service.impl

```
public interface ProjectService {  
  
    void saveProject(ProjectVO projectVO, Integer memberId);  
  
    List<PortalTypeVO> getPortalTypeVO();  
  
    DetailProjectVO getDetailProjectVO(Integer projectId);  
}
```



atcrowdfunding10-member-mysql-provider [boot]

- src/main/java
 - com.atguigu.crowd
 - com.atguigu.crowd.handler
 - com.atguigu.crowd.mapper
 - com.atguigu.crowd.service.api
 - com.atguigu.crowd.service.impl
 - MemberServiceImpl.java
 - ProjectServiceImpl.java**

```
@Override  
public DetailProjectVO getDetailProjectVO(Integer projectId) {  
  
    // 1.查询得到 DetailProjectVO 对象  
    DetailProjectVO detailProjectVO = projectPOMapper.selectDetailProjectVO(projectId);  
  
    // 2.根据 status 确定 statusText  
}
```

```
Integer status = detailProjectVO.getStatus();

switch (status) {
case 0:
    detailProjectVO.setStatusText("审核中");
    break;
case 1:
    detailProjectVO.setStatusText("众筹中");
    break;
case 2:
    detailProjectVO.setStatusText("众筹成功");
    break;
case 3:
    detailProjectVO.setStatusText("已关闭");
    break;

default:
    break;
}

// 3.根据 deployeDate 计算 lastDay
// 2020-10-15
String deployDate = detailProjectVO.getDeployDate();

// 获取当前日期
Date currentDay = new Date();

// 把众筹日期解析成 Date 类型
SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
try {
    Date deployDay = format.parse(deployDate);

    // 获取当前当前日期的时间戳
    long currentTimeStamp = currentDay.getTime();

    // 获取众筹日期的时间戳
    long deployTimeStamp = deployDay.getTime();

    // 两个时间戳相减计算当前已经过去的时间
    long pastDays = (currentTimeStamp - deployTimeStamp) / 1000 / 60 / 60 / 24;

    // 获取总的众筹天数
```



```
Integer totalDays = detailProjectVO.getDay();

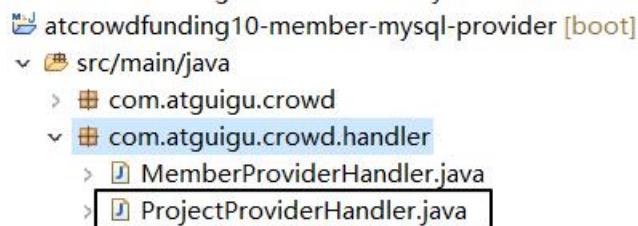
// 使用总的众筹天数减去已经过去的天数得到剩余天数
Integer lastDay = (int) (totalDays - pastDays);

detailProjectVO.setLastDay(lastDay);

} catch (ParseException e) {
    e.printStackTrace();
}

return detailProjectVO;
}
```

2.4.3 Handler 方法



```
atcrowdfunding10-member-mysql-provider [boot]
├── src/main/java
│   ├── com.atguigu.crowd
│   └── com.atguigu.crowd.handler
│       ├── MemberProviderHandler.java
│       └── ProjectProviderHandler.java
```

```
@RequestMapping("/get/project/detail/remote/{projectId}")
public ResultEntity<DetailProjectVO> getDetailProjectVORemote(@PathVariable("projectId")
Integer projectId) {

    try {
        DetailProjectVO detailProjectVO = projectService.getDetailProjectVO(projectId);

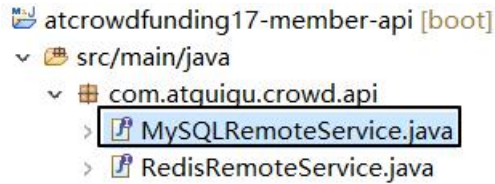
        return ResultEntity.successWithData(detailProjectVO);

    } catch (Exception e) {
        e.printStackTrace();

        return ResultEntity.failed(e.getMessage());
    }

}
```

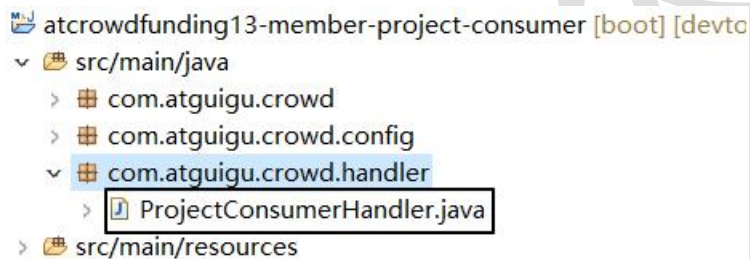
2.4.4 Feign 接口



```
atcrowdfunding17-member-api [boot]
├── src/main/java
│   └── com.atguigu.crowd.api
│       ├── MySQLRemoteService.java
│       └── RedisRemoteService.java
```

```
@RequestMapping("/get/project/detail/remote/{projectId}")
public ResultEntity<DetailProjectVO> getDetailProjectVORemote(@PathVariable("projectId")
Integer projectId);
```

2.5 代码第三步：project-consumer 调用接口



```
atcrowdfunding13-member-project-consumer [boot] [devto]
├── src/main/java
│   ├── com.atguigu.crowd
│   ├── com.atguigu.crowd.config
│   └── com.atguigu.crowd.handler
│       └── ProjectConsumerHandler.java
└── src/main/resources
```

```
@RequestMapping("/get/project/detail/{projectId}")
public String getProjectDetail(@PathVariable("projectId") Integer projectId, Model model) {

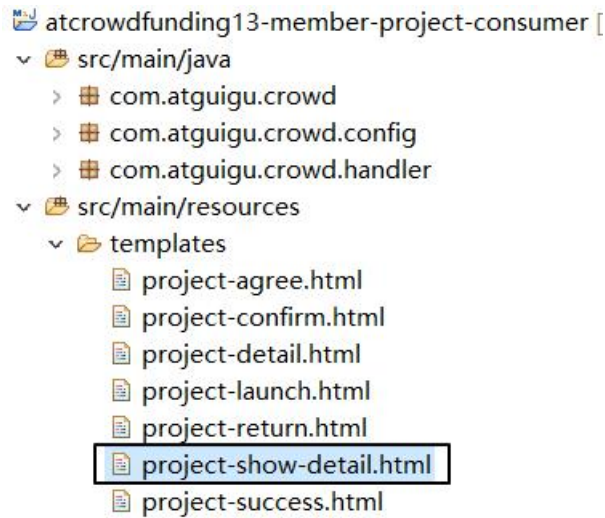
    ResultEntity<DetailProjectVO> resultEntity =
    mySQLRemoteService.getDetailProjectVORemote(projectId);

    if(ResultEntity.SUCCESS.equals(resultEntity.getResult())) {
        DetailProjectVO detailProjectVO = resultEntity.getData();

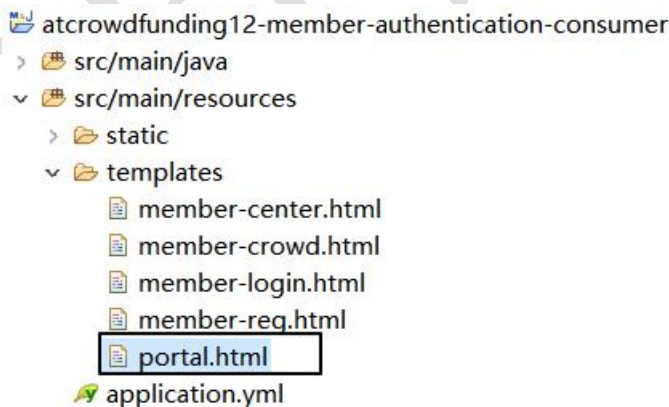
        model.addAttribute("detailProjectVO", detailProjectVO);
    }

    return "project-show-detail";
}
```

2.6 代码第四步：页面



2.7 代码第五步：功能起点

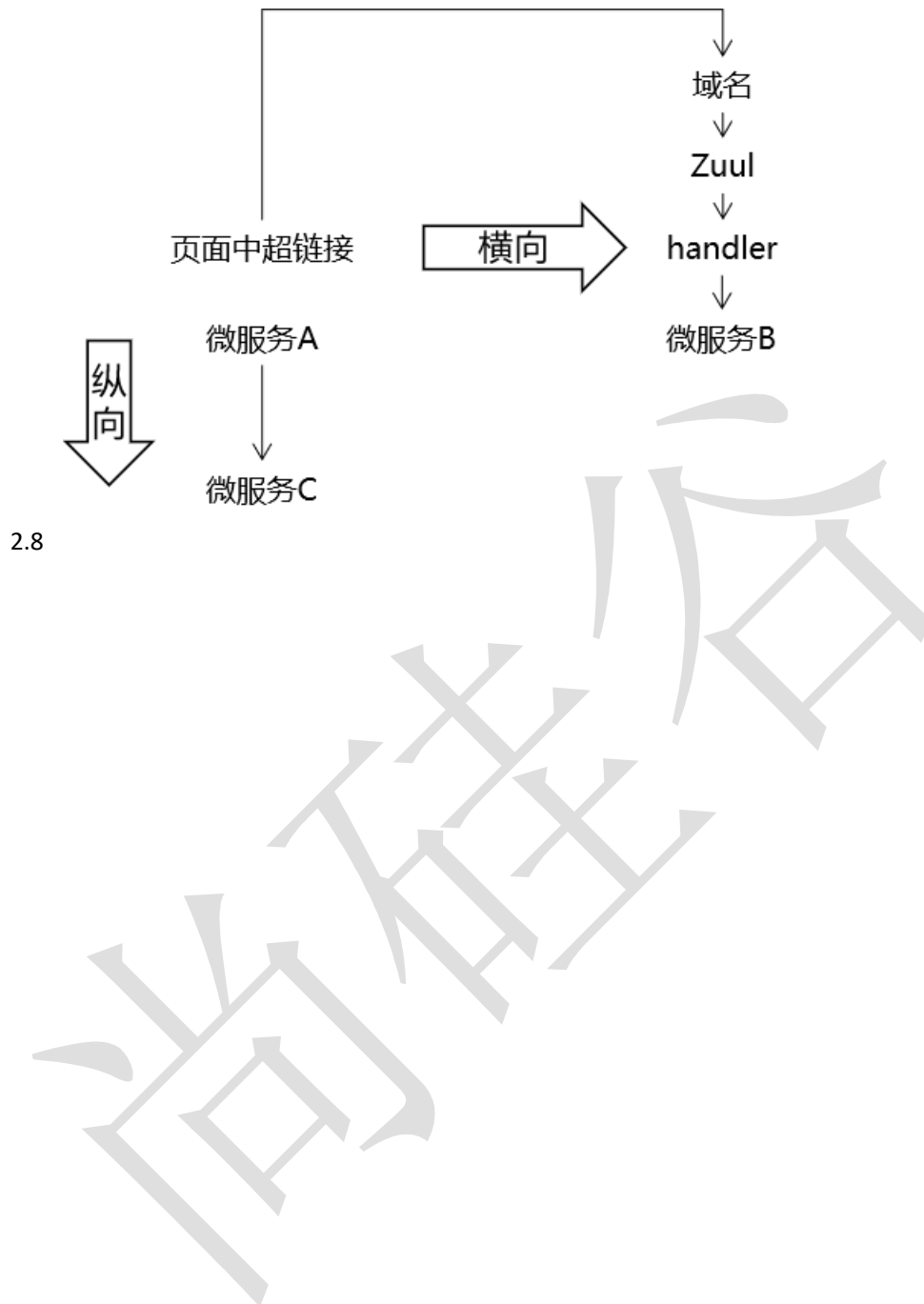


```

<a th:href="'http://www.crowd.com/project/get/project/detail/'+${project.projectId}"
href="project.html" th:text="${project.projectName}">活性富氢净水直饮机</a>

```

这里记得加上域名，因为我们是从一个微服务访问另外一个微服务。



2.8