

PRD-食疗养生后端

一、文档综述

1.版本修订记录

v0.1 创建文档

二、数据库

数据库类型:mysql

数据库版本号:待定

数据库库名:DietRegimen

2.1. 用户信息表

user_info(

userID int auto_increment primary key,

name varchar(50),

age int,

```
gender varchar(50),

userImagePath varchar(50),

diseasesHistory text,

keywords text #用户关键词

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

2.2.食物信息表

```
food_info(

foodID int auto_increment primary key,

name varchar(50),

foodKindID int,

foodKind varchar(50),

info text, #食物介绍

effect text, #食物功效

keyword text, #食物关键词

taboo text, #禁忌

viewCount bigint,

collectCount bigint,

photoPath varchar(50) , #食物图片路径, 只有一张

voicePath varchar(50) #语音路径
```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

2.3 疾病信息表

```
disease_info(  
  

```

```
diseaseID int auto_increment primary key,  
  

```

```
name varchar(50),  
  

```

```
diseaseKind varchar(50),  
  

```

```
info text, #疾病介绍  
  

```

```
photoPath varchar(50), #疾病图片路径, 只有一张  
  

```

```
voicePath varchar(50),  
  

```

```
viewCount bigint,  
  

```

```
collectCount bigint  
  

```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

2.4 用户评论食物信息表

```
food_comment_info(  
  

```

```
id int auto_increment primary key,  
  

```

```
foodID int,  
  

```

```
userID int,  
  

```

```
userName varchar(50),  
  

```

```
comment text,  
  
date varchar(50),  
  
)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

2.5 用户评论疾病信息表

```
disease_comment_info(  
  
id int auto_increment primary key,  
  
diseaseID int,  
  
userID int,  
  
userName varchar(50),  
  
comment text,  
  
date varchar(50),  
  
)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

2.6 食物种类表

```
food_kind_info(  
  
kindID int auto_increment primary key,  
  
kindName varchar(50),  
  
kindInfo text,  
  
photoPath varchar(50),  
  
viewCount bigint,
```

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

2.7 用户收藏食物表

user_collect_food_info(

id int auto_increment primary key,

userID int,

foodID int,

date varchar(50)

))ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

2.8 用户收藏疾病表

user_collect_disease_info(

id int auto_increment primary key,

userID int,

diseaseID int,

date varchar(50)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

2.9 答题信息表

question_info(

id int auto_increment primary key,

info text, #问题内容

answer text, #问题回复选项，一般只有四个选项A, B,C,D

response text #问题选项对应的响应。具体内容TODO

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

2.10 疾病推荐食物表

disease_food_info{

id int auto_increment primary key,

diseaseID int,

diseaseName varchar(50),

foodName varchar(50),

foodID int,

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

2.11 用户食物信息关系表

2.12 用户食物

三、URL接口

code 通用返回码

Code	说明	备注
2000	成功	
4003	禁止访问	
5000	失败	
5003	服务器异常	

3.1.管理员端接口

- 统一前缀:/DietRegimen/control1/admin/ #为了安全
- 为了简化，不设置权限分配，统一用token。(token不在文档中给出)
- 照片需要先上传得到路径后才增删修改，图片均保存为相对路径。
- 不用修改的字段默认不填。
- 所有请求必须给出token
- 修改，删除时必须给出对应id

3.1.1 用户信息表

3.1.1.1 添加用户

POST /DietRegimen/control1/admin/addUser

Request Body:{

"token":""," #此为管理员token

"name":""," ,

"age":0,

"gender":""," ,

"userImagePath":""," ,

"diseasesHistory":""," ,

}

Resonse Body:{

"code":""," #2000,4003,5000,5003

}

3.1.1.2 修改用户信息

POST /DietRegimen/control1/admin/updateUser

Request Body:{

"token":""," #此为管理员token

userID:0 #用户id

"name":""," ,

"age":0,

"gender":""," ,

"userImagePath":""," ,


```
"diseasesHistory":"","
```

```
"keywords":"","
```

```
}
```

```
Resonse Body:{
```

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.1.3 删除用户信息

POST /DietRegimen/control1/admin/delUser

```
Request Body:{
```

```
"token":""," #此为管理员token
```

```
userID:0 #用户id
```

```
}
```

```
Resonse Body:{
```

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.2 食物信息表

3.1.2.1 添加食物

POST /DietRegimen/control1/admin/addFood

Request Body:{

"token": "", #此为管理员token

"name": "",

"foodKindID": 0,

"foodKind": "",

"info": "",

"effect": "",

"keyword": "",

"taboo": "",

"viewCount": 0,

"photoPath": "",

"voicePath": ""

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.2.1 修改食物信息

POST /DietRegimen/control1/admin/updateFood

Request Body:{

"token": "", #此为管理员token

"foodID":0, #食物id

"name":"","

"foodKindID":0,

"foodKind":"","

"info":"","

"effect":"","

"keyword":"","

"taboo":"","

"viewCount":0,

"collectCount":0,

"photoPath":"","

"voicePath":"","

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.2.2 删除食物信息

POST /DietRegimen/control1/admin/updateFood

Request Body:{

"token":""," #此为管理员token

"foodID":0, #食物id

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.3 疾病信息表

3.1.3.1 添加疾病

POST /DietRegimen/control1/admin/addDisease

Request Body:{

"token":""," #此为管理员token

"name":"","

"diseaseKind":"","

"voicePath":"","

"viewCount":0 ,

"collectCount":0 ,

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

```
}
```

3.1.3.2 修改疾病

POST /DietRegimen/control1/admin/updateDisease

Request Body:{

"token":""," #此为管理员token

"diseaseID":0, #疾病id

"name":"","

"diseaseKind":"","

"voicePath":"","

"viewCount":0 ,

"collectCount":0 ,

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.3.2 删除疾病

POST /DietRegimen/control1/admin/updateDisease

Request Body:{

"token":""," #此为管理员token

"diseaseID":0, #疾病id

```
}
```

Resonse Body:{

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.4 用户评论食物信息表(暂不提供)

3.1.4.1 添加用户评论食物

POST /DietRegimen/control1/admin/

Request Body:{

```
"token":"", #此为管理员token
```

```
}
```

Resonse Body:{

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.4.2 修改用户评论食物

POST /DietRegimen/control1/admin/

Request Body:{

```
"token":"", #此为管理员token
```

```
"id":0
```

```
}
```

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.4.3 删除用户评论食物

POST /DietRegimen/control1/admin/

Request Body:{

"token":"", #此为管理员token

"id":0

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.5 用户评论疾病信息表(暂不提供)

3.1.5.1 添加

POST /DietRegimen/control1/admin/

Request Body:{

"token":"", #此为管理员token

}

Resonse Body:{

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.5.2 修改

POST /DietRegimen/control1/admin/

Request Body:{

```
"token":""," #此为管理员token
```

```
"id":0
```

```
}
```

Resonse Body:{

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```

3.1.5.3 删除

POST /DietRegimen/control1/admin/

Request Body:{

```
"token":""," #此为管理员token
```

```
"id":0
```

```
}
```

Resonse Body:{

```
"code":"2000" #2000,4003,5000,5003
```

```
}
```


3.1.6 食物种类表

3.1.6.1 添加

POST /DietRegimen/control1/admin/

Request Body:{

"token":"", #此为管理员token

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.6.2 修改

POST /DietRegimen/control1/admin/

Request Body:{

"token":"", #此为管理员token

"kindID":0

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.6.3 删除

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

"kindID":0

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.7 用户收藏食物表(暂不提供)

3.1.7.1 添加

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.7.2 修改

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

"id":0

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.7.3 删除

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

"id":0

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.8 用户收藏疾病表(暂不提供)

3.1.8.1 添加

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.8.2 修改

POST /DietRegimen/control1/admin/

Request Body:{

"token": "", #此为管理员token

"id": 0

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

}

3.1.8.3 删除

POST /DietRegimen/control1/admin/

Request Body:{

"token":""," #此为管理员token

"id":0

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.9 答题信息表

3.1.9.1 添加

POST /DietRegimen/control1/admin/

Request Body:{

"token":""," #此为管理员token

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.9.2 修改

POST /DietRegimen/control1/admin/

Request Body:{

"token":""," #此为管理员token

"id":0

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.9.3 删除

POST /DietRegimen/control1/admin/

Request Body:{

"token":""," #此为管理员token

"id":0

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.1.10 图片相关

3.1.10.1 上传图片

POST /DietRegimen/control1/admin/uploadImage

Request Body:{

"token": "", #此为管理员token

"image": ""

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

"path": "" #图片路径

}

3.1.10.1 下载图片

POST /DietRegimen/control1/admin/downloadImage

Request Body:{

"token": "", #此为管理员token

"path": "" #图片相对路径

}

Resonse Body:{

"code": "2000" #2000,4003,5000,5003

"image": "" #图片

}

3.1.10.1 修改图片

POST /DietRegimen/control1/admin/updateImage

Request Body:{

"token":""," #此为管理员token

"path":""," #图片路径

"image":"","

}

Resonse Body:{

"code":"2000" #2000,4003,5000,5003

}

3.2.普通用户接口(给小程序提供的接口)

统一前缀:/DietRegimen/client

Request Header里存放sessionID,[非必须]

3.2.1 用户相关

3.2.1.1 获取个人信息

POST /DietRegimen/client/user/getUserInfo

Request Body:{

token 用户token

}

Resonse Body:{

code 返回码

userInfo:{} 用户详细信息

}

3.2.1.2 获取收藏信息

POST /DietRegimen/client/user/getCollectInfo

Request Body:{

token 用户token

}

Resonse Body:{

code 返回码

collectInfo:{} 收藏信息，包含疾病和食物信息

}

3.2.1.3 个人信息设置

POST /DietRegimen/client/user/postUserInfo

Request Body:{

token 用户token

userInfo 用户信息

}

Resonse Body:{

body:{

code 返回码

}

3.2.1.4 登录

POST /DietRegimen/client/user/userLogin

Request Body:{

code 登录凭证

userInfo AppID

secret

grant_type

}

Resonse Body:{

body:{

code 返回码

sessionID

}

[注]此处可参考小程序的登录API

3.2.2 食物相关

3.2.2.1 获取食物详细信息

POST /DietRegimen/client/food/getFoodDetails

Request Body:{

foodID 食物id

}

Resonse Body:{

code: 返回代码

details: 食物详细信息

}

3.2.2.2 获取食物种类

GET /DietRegimen/client/food/getFoodCategory

Resonse Body:{

code: 返回代码

foodCategory :{} 食物种类列表

}

3.2.2.3 搜索食物清单/获取指定食物种类的食物清单

POST /DietRegimen/client/food/searchFood

Request Body:{

keywords: 关键词

}

Resonse Body:{

code: 返回代码

foods:{} 食物集合

}

3.2.2.4 发表评论

POST /DietRegimen/client/food/commentFood

Request Body:{

token 用户token

foodID 食物id

content 评论内容

}

Resonse Body:{

code 返回代码

}

3.2.2.5 获取语音播报

POST /DietRegimen/client/food/foodVoice

Request Body:{

token 用户token

foodID 食物id

}

Resonse Body:{

foodVoice.mp3 语音文件

}

通过http返回状态码判断获取断成功与失败。

3.2.2.6 收藏食物

POST /DietRegimen/client/user/collectFood

Request Body:{

token 用户token

foodID 食物id

}

Resonse Body:{

code 返回码

}

3.2.3 疾病相关

3.2.3.1 获取疾病详细信息

POST /DietRegimen/client/health/getDiseaseDetails

Request Body:{

diseaseID 疾病id

}

Resonse Body:{

code 返回代码

diseaseDetails 疾病详细信息

}

3.2.3.2 获取疾病清单

GET /DietRegimen/client/health/getDiseasesLists

Resonse Body:{

code 返回代码

diseases:{} 疾病清单

}

3.2.3.3 发表评论

POST /DietRegimen/client/health/commentDisease

Request Body:{

token 用户token

diseaseID 食物id

content 评论内容

}

Resonse Body:{

body:{

code 返回代码

}

3.2.3.4 获取语音播报

POST /DietRegimen/client/health/diseaseVoice

Request Body:{

token 用户token

diseaseID 疾病id

}

Resonse Body:{

diseaseVoice.mp3 语音文件

}

通过http返回状态码判断获取断成功与失败。

3.2.3.5 收藏疾病

POST /DietRegimen/client/user/collecDisease

Request Body:{

token 用户token

diseaseID 疾病id

}

Resonse Body:{

code 返回码

}

3.2.3 推荐相关

3.2.3.1 获取推荐信息

POST /DietRegimen/client/recommend/getRecInfo

Request Body:{

token 用户token

}

Resonse Body:{

code 返回码

info:{} 推荐信息

foods:{} 食物清单

}

3.2.4 问卷相关

3.2.4.1 获取问卷信息

GET /DietRegimen/client/recommend/getQuestionnaireInfo

Resonse Body:{

code 返回码

infoLists 问卷列表

}

3.2.4.2 提交问卷

POST /DietRegimen/client/recommend/submitQuestionnaire

Request Body:{

token 用户token

answerInfoLists 问卷回答信息

}

Resonse Body:{

code 返回码

}