

# High-Level Design(概要设计规约)

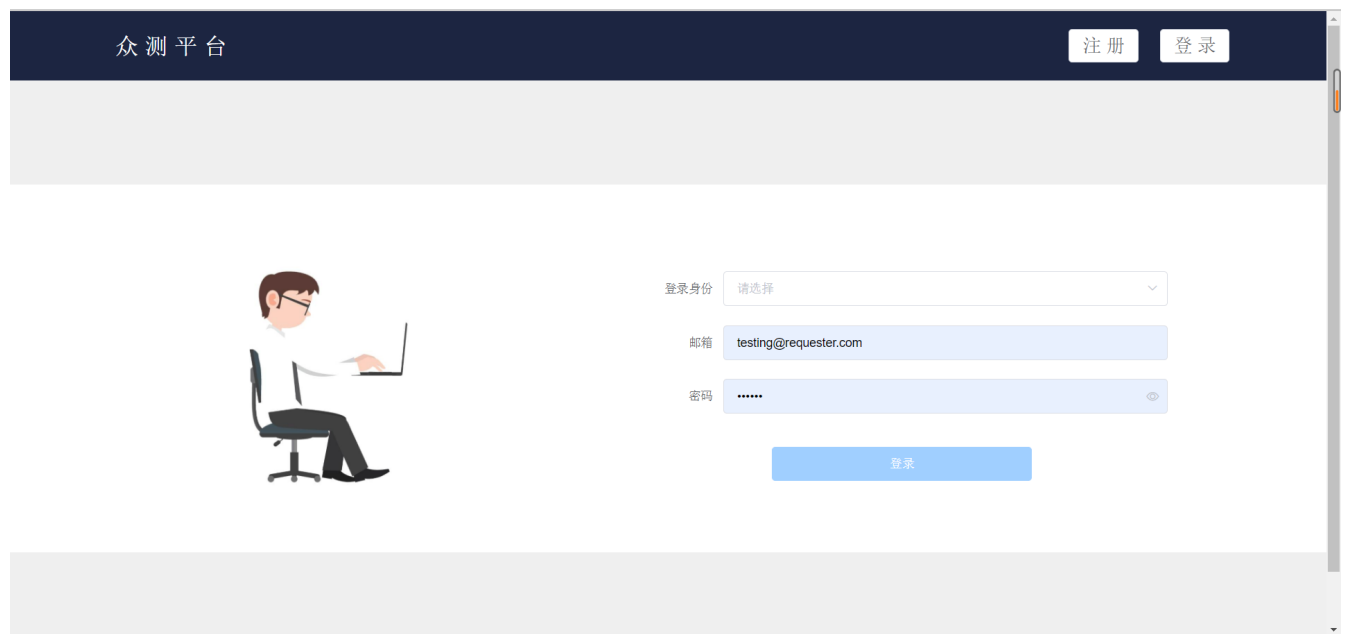
## Prototype Design(原型设计)

The UI design of the project

### Tourist Section

Sign in

This part is for tourist to sign in .



众测平台

注册 登录

登录身份 请选择

邮箱 testing@requester.com

密码 .....

登录

Sign up

This part is for tourist to sign up .

众测平台

注册

登录

身份

请选择身份

\* 用户名

请输入用户名

\* 邮箱

testing@requester.com

\* 密码

\*\*\*\*\*

\* 确认密码

请重复输入密码

\* 手机号码

请输入您的手机号码

\* 年龄

请输入您的年龄


\* 性别

请选择

\* 姓名

请输入真实姓名

注册



## Worker Section

**View or modify personal information.** Worker can view his personal informaon and make changes. View account balance\Make a withdrawal and view the withdrawal history

Worker can view his account balance in this page, and he can make a withdrawal and view the withdrawal history.

众测平台

欢迎回来 !!!  
Guo

个人中心

退出登陆

个人中心

任务广场

我的任务

交易明细

数据统计

帮助中心

Guo

工人ID: 271

账户余额: ¥ 16.7

姓名: 国琳

性别: 女

年龄: 21

电话号码: 18321851719

邮箱: testing@worker.com

提现方式: 微信

专业: 计算机

教育水平: 本科

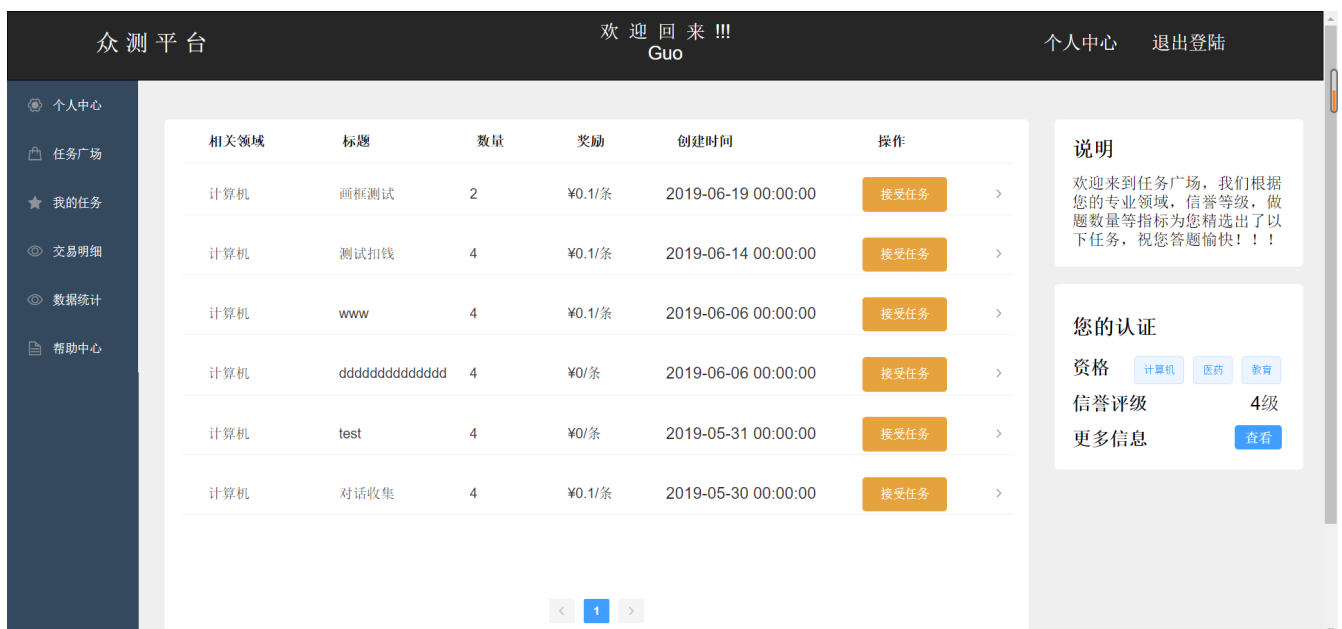
擅长领域: 计算机 医药 教育

所属机构: 计算机



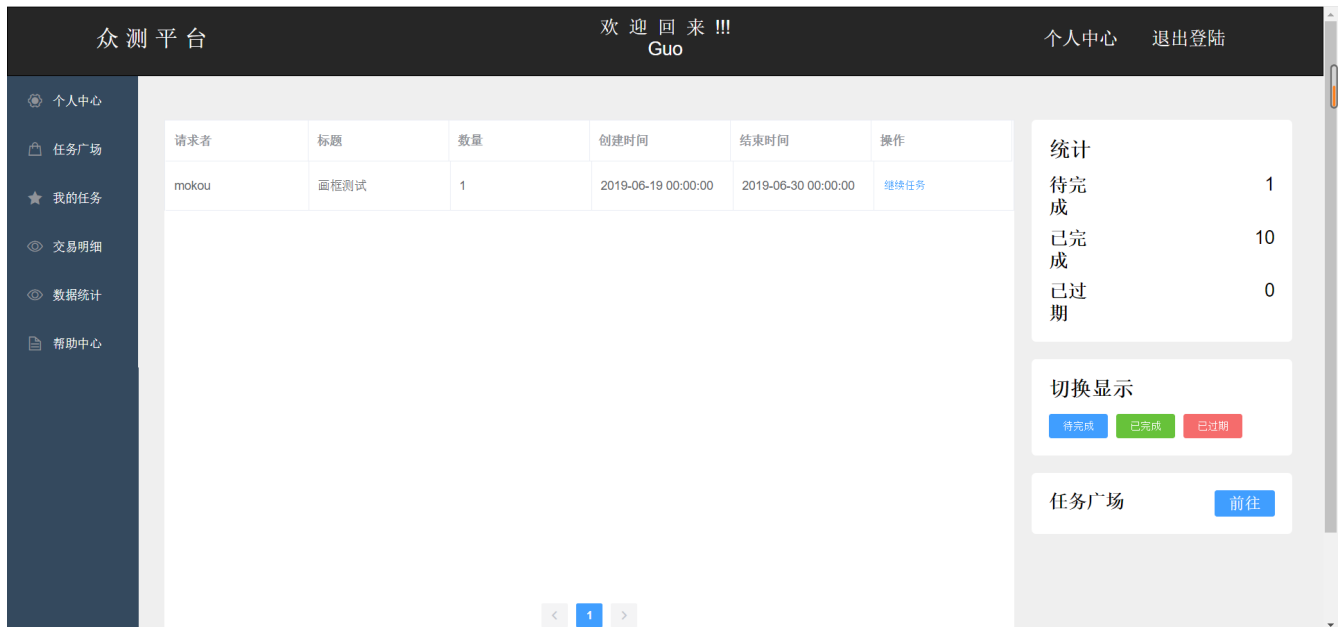
## View Mission Square

This part is for viewing the tasks, you can know about task creation me, bonus amount, level requirements, etc.



## View My mission

This part is for worker to learn about the details of own mission



## View Deal

This part is for worker to learn about the details of the deal



## View Data of the work



## Requester Section

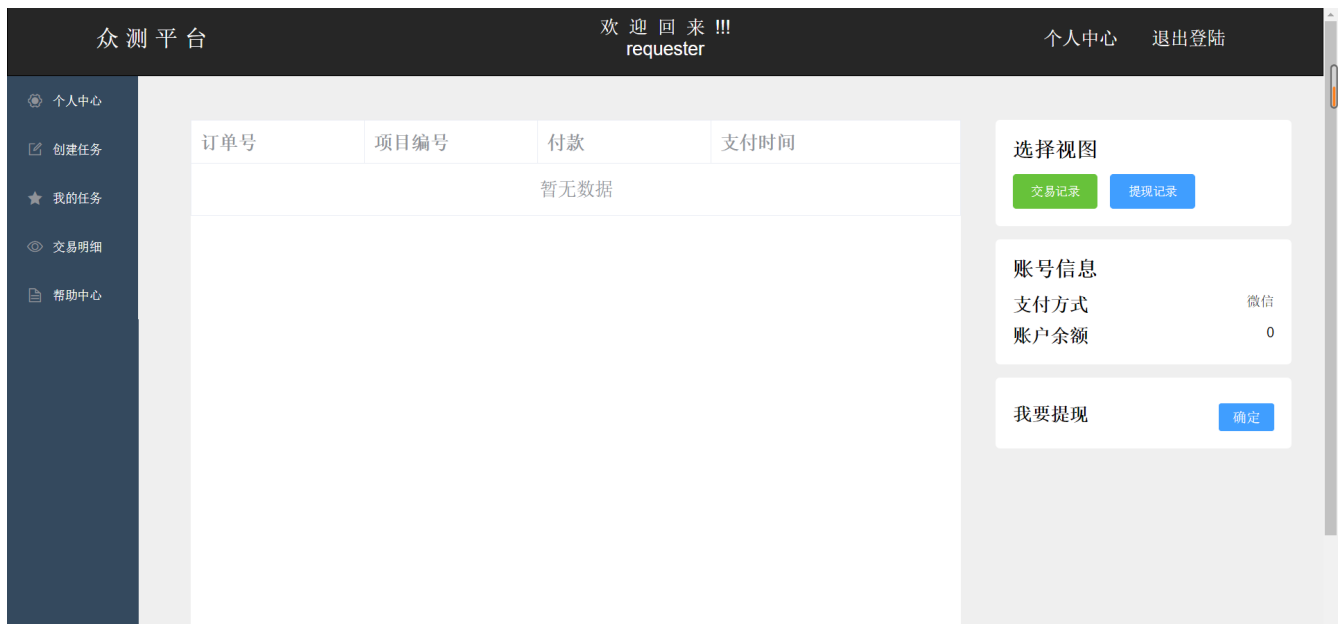
### View personal information

Requester can view his personal information in this part

The '个人中心' (Personal Center) page shows the following information:

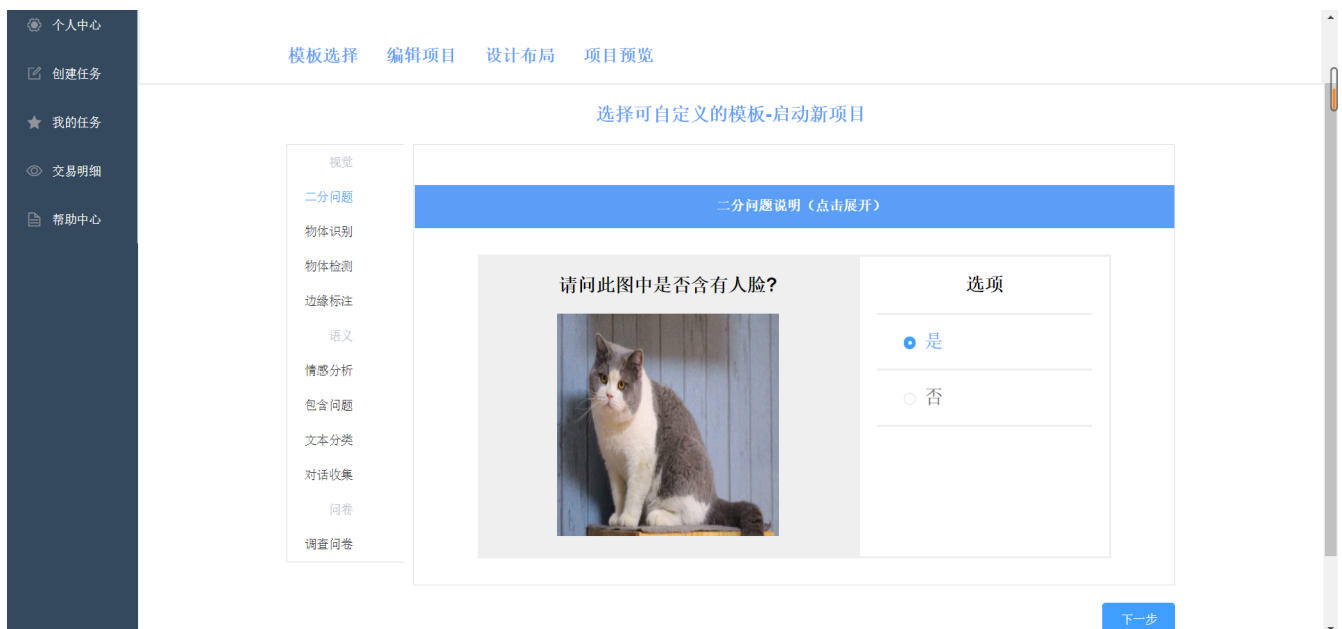
昵称:	requester
用户ID:	381
账户余额:	¥0
姓名:	Requester
性别:	女
年龄:	21
电话号码:	13224456789
邮箱:	testing@requester.com
支付方式:	微信

**View account balance\Recharge operation** Requester can view his account balance in this page, and he can do the recharge operation, in this part, he can also choose recharge method, is WeChat, Alipay or bank card.



**Create Task** Requester can create task in this page.

You can fill in project properties, specify design layout and preview project.



众测平台

欢迎回来 !!!  
requester

个人中心退出登陆

个人中心


创建任务

我的任务

交易明细

帮助中心

请问此图中是否含有人脸?



选项

☒ 是

☐ 否

项目编号205

项目名称test

请求机构同济大学

涉及领域计算机

任务描述test

每题奖励¥0.1

题目总数4

截止时间2019-06-23 00:00:00

请问此图中是否含有人脸?

选项

众测平台

欢迎回来 !!!  
requester

个人中心退出登陆

个人中心

创建任务

我的任务

交易明细

帮助中心

相关领域	标题	时间	操作
计算机	test	1天	<div>查看详情</div>

<1>

View task response Requester can view task response in this page.

众测平台

欢迎回来 !!!  
requester

个人中心退出登陆

个人中心

创建任务

我的任务

交易明细

帮助中心

任务描述:

请问此图中是否含有人脸?

任务选项:

是

否

任务状态:

答案收集中

第1份数据集

收集进度: 0%

准确率: 0%

导出答案

第2份数据集

收集进度: 0%

准确率: 0%

导出答案

验证校验集

## Admin section

### Check task

Admin can view check task in this page.

众测平台

欢迎回来 !!!

个人中心退出登陆

相关领域	标题	时间	操作
计算机	test	1 天	<div>查看详情</div>
计算机	test	1 天	<div>查看详情</div>
医药	图像物体识别	120 天	<div>查看详情</div>
医药	dsgsdg	500 天	<div>查看详情</div>
医药	图像标识	120 天	<div>查看详情</div>

<

1

2

3

4

5

>

By XLab 众测小组

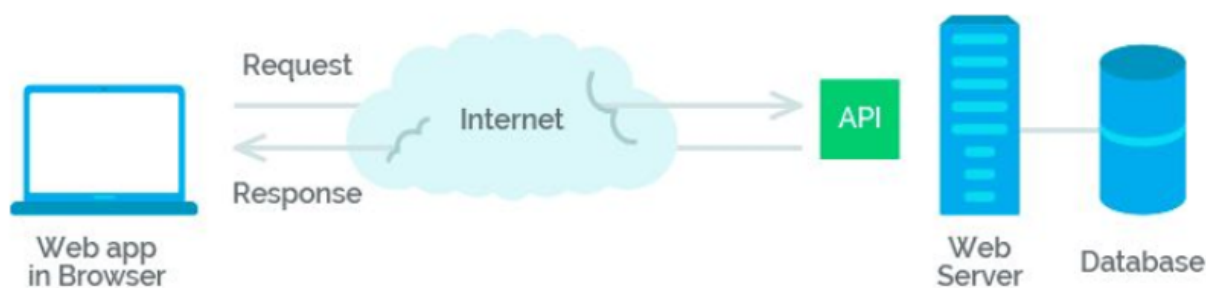






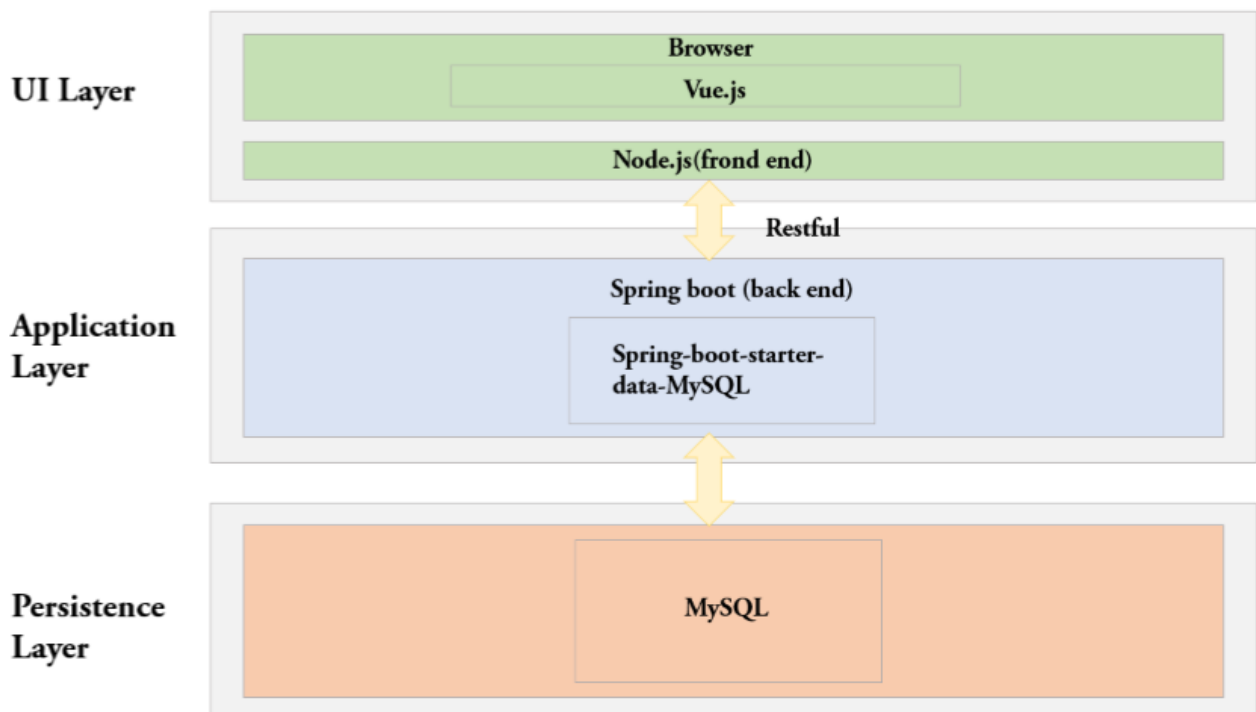
## Business Architecture(业务架构)

Restful is a web-based software architecture style designed to facilitate the transfer of information between different software/programs on a network such as the Internet. First, the web app sends a request to the backend through the Internet in the browser. The back end sends data requests to the database through the code, and the back end returns the data to the front end, completing the complete separation of the front and back ends.



## Technology Architecture(技术架构)

The architecture of the technology stacks (coding language, frameworks, libraries, styles, etc) used in the project. Here is our Technology Architecture:



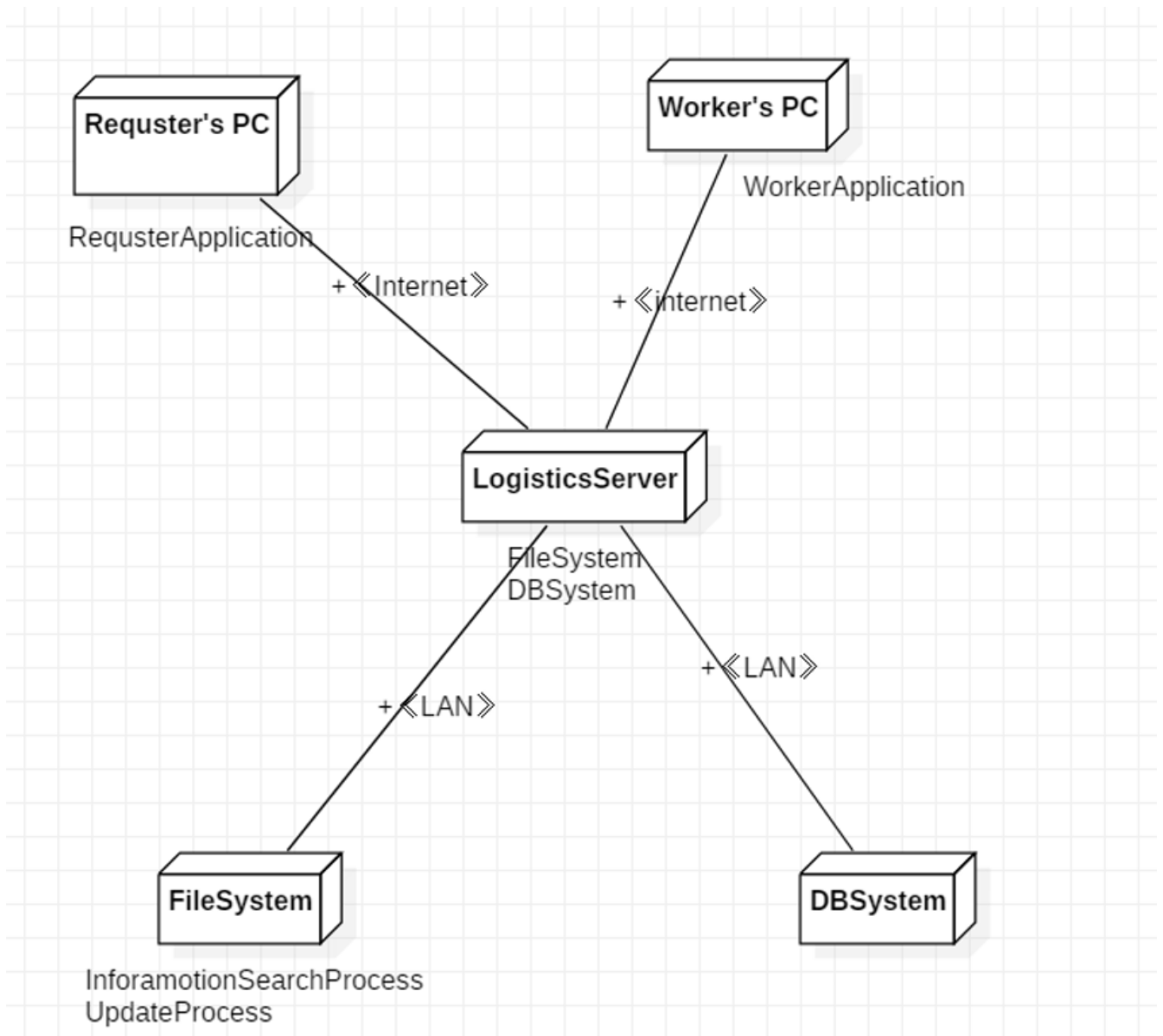
In the UI Layer, we use Vue.js as our front end frame and build the front end on the Nodejs.

In the Application Layer, we use Java as the primary development language for our backend. At the same me, we use the Spring-boot-starter-data-MySQL to Exchange data with the MySQL database.

In the Persistence Layer, we use MySQL for basic data storage, while using Redis to save cookies that record user login status. Spring-boot automatically caches logs and checks for errors or business records.

## Deployment Topology(部署架构)

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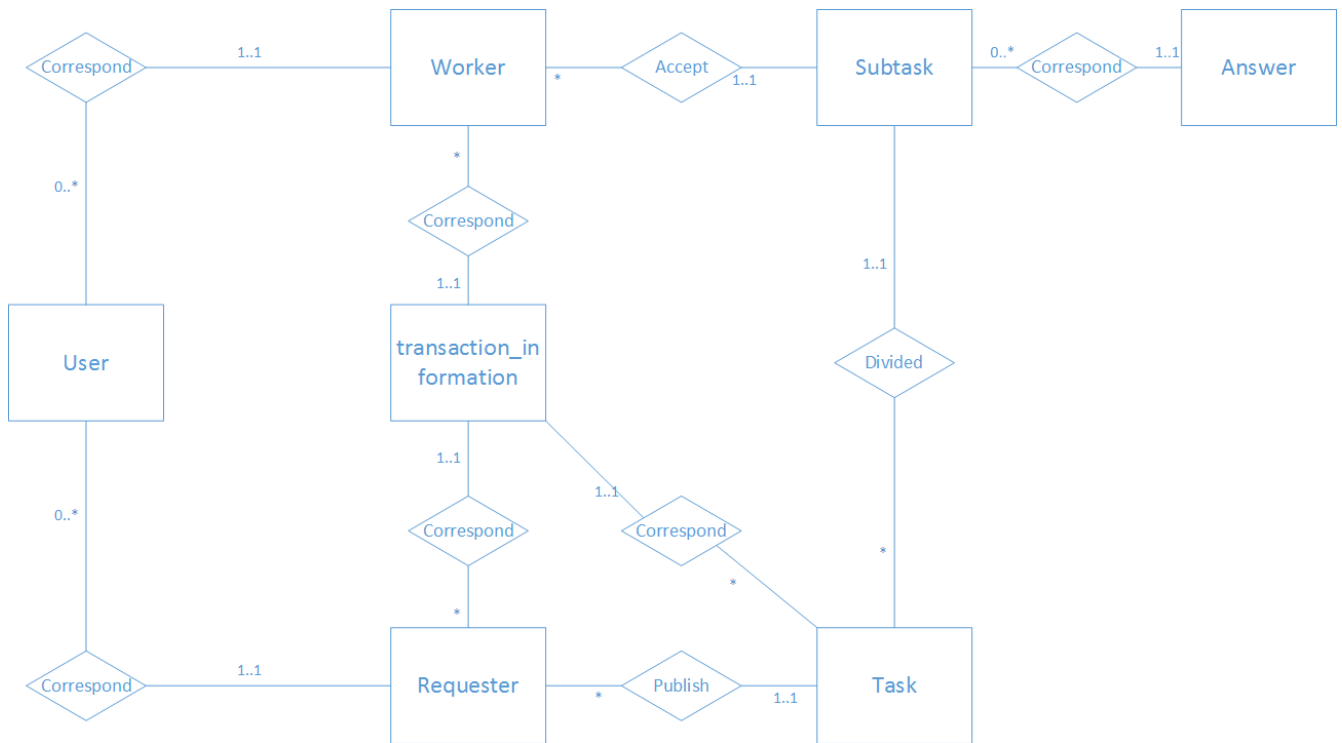
Deployment Topology shows how the whole project is deployed in the physical environment, including servers, VMs/containers, networks, key components, etc. An overview picture is required to show the topology. Here is our Deployment Topology:

We use the method of front and rear separation to deploy, at the same me, the back end of our estimation system and the back end of the crowdsourcing system are respectively deployed on two computers, respectively interacting with different databases, but together for the same front-end service. This depends on spring's support for cross-domain access, and the low coupling between the estimate system and the crowdsourcing system.

## Data Models(数据建模)

### Entity-Relation Design(实体-关系设计)

An Entity-Relation Diagram is required to show the concepts in the project and their relations. Here is our E-R diagram.



## Datadase Design(数据库设计)

**Muser:** (username (由于spring security字段限制, 将邮箱写成username) , password, role)

```

CREATE TABLE IF NOT EXISTS muser (
  username VARCHAR(30) NOT NULL,
  password VARCHAR(10) NOT NULL,
  role VARCHAR(10) NOT NULL,
  PRIMARY KEY ( username )
)ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

**Worker:** (worker\_id, 用户名, 昵称, 电话号码, 邮箱, 当前余额, 余额提现信息, 学历水平, 工作领域, 年龄层次, 经验值, 性别)

```

CREATE TABLE IF NOT EXISTS worker (
  worker_id INT UNSIGNED AUTO_INCREMENT,
  username VARCHAR(10) NOT NULL,
  name VARCHAR(20) NOT NULL,
  tele_number VARCHAR(11),
  e_mail VARCHAR(30),

```

```

balance INT UNSIGNED,

withdrawn_method VARCHAR(20),

education VARCHAR(20),

work_area VARCHAR(30),

age INT UNSIGNED,

xp INT UNSIGNED,

gender INT UNSIGNED,

major VARCHAR(20),

extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,

extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,

PRIMARY KEY ( worker_id )

FOREIGN KEY ( e-mail references user)

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

**Requester: (requester\_id, 用户名, 昵称, 电话号码, 邮箱, 机构名称, 机构地址, 项目用途, 支付方式, 性别, 年龄, 余额)**

```
CREATE TABLE IF NOT EXISTS `requester` (
```

```

requester_id INT UNSIGNED AUTO_INCREMENT,

username VARCHAR(10) NOT NULL,

name VARCHAR(20) NOT NULL,

tele_number VARCHAR(11),

e_mail VARCHAR(30),

insitution_name VARCHAR(30),

address VARCHAR(30),

pay_method VARCHAR(20),

gender INT UNSIGNED,

age INT UNSIGNED,

balance INT UNSIGNED,

extend1 VARCHAR(128),

extend2 VARCHAR(128),

PRIMARY KEY ( requester_id )

```

FOREIGN KEY ( `e-mail` references user)

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

**Task:** (`task_id`, 任务名称, 任务描述, 任务酬劳, 任务状态, 发布者id, 项目类型, 限制条件, 开始时间, 结束时间, 参与人数, 等级, 工作时间限制 (以小时计), 酬劳支付时间 (以小时计), 领域, 项目用途, 年龄最低要求, 年龄最高要求, 问题资源链接 (xml), 是否审核, 是否完成, 问题总数, 问题答案, 问题剩余情况)

```
CREATE TABLE IF NOT EXISTS `task` (
```

```
task_id INT UNSIGNED AUTO_INCREMENT,
```

```
name VARCHAR(50) NOT NULL,
```

```
description VARCHAR(255) NOT NULL,
```

```
reward FLOAT,
```

```
status VARCHAR(5),
```

```
requester_id INT UNSIGNED NOT NULL,
```

```
type VARCHAR(10),
```

```
restrictions INT,
```

```
start_time DATETIME,
```

```
end_time DATETIME,
```

```
population INT UNSIGNED,
```

```
level INT UNSIGNED,
```

```
time_limitation FLOAT,
```

```
pay_time FLOAT,
```

```
area VARCHAR(30),
```

```
use VARCHAR(45),
```

```
min_age INT UNSIGNED,
```

```
max_age INT UNSIGNED,
```

```
resource_link VARCHAR(255),
```

```
reviewed int(10) NOT NULL DEFAULT 0 COMMENT '管理员是否审核, 0为未审核, 1为已审核',
```

```
is_finished INT NOT NULL,
```

```
number_of_questions INT NOT NULL,
```

```
answer JSON,
```

```
rest_of_question JSON,
```

```
extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
PRIMARY KEY ( task_id )  
FOREIGN KEY ( requester_id references requester)
```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
FOREIGN KEY ( requester_id references requester )
```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

*/Task\_of\_requester: (task\_of\_requester\_id, requester\_id, 任务 (json) ) /*

```
CREATE TABLE IF NOT EXISTS `task_of_requester` (
```

```
task_of_requester_id INT UNSIGNED NOT NULL,  
requester_id INT UNSIGNED NOT NULL,  
tasks VARCHAR(300) NOT NULL,  
extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
PRIMARY KEY ( task_of_requester_id )  
FOREIGN KEY ( requester_id references requester )
```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

*/Answer: (answer\_id, task\_id, worker\_id, 答案 (json) , answer\_time) /*

```
CREATE TABLE IF NOT EXISTS `answer` (
```

```
answer_id INT UNSIGNED NOT NULL,  
task_id INT UNSIGNED NOT NULL,  
worker_id INT UNSIGNED NOT NULL,  
answer JSON NOT NULL,  
answer_time DATETIME NOT NULL,  
extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,
```

```
extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
PRIMARY KEY ( answer_id )  
FOREIGN KEY ( task_id references task )  
FOREIGN KEY ( worker_id references worker )
```

```
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

*/Transaction\_information: (id, time, requester\_id, worker\_id, task\_id, value) /*

```
CREATE TABLE IF NOT EXISTS `answer`(  
id INT UNSIGNED NOT NULL,  
time DATETIME,  
requester_id INT UNSIGNED NOT NULL,  
worker_id INT UNSIGNED NOT NULL,  
task_id INT UNSIGNED NOT NULL,  
value FLOAT NOT NULL,  
extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,  
PRIMARY KEY ( id )  
FOREIGN KEY ( task_id references task )  
ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

*/\* Subtask: (subtask\_id, 起始位置, 创建时间, 截止时间, 终止位置, 是否完成, task\_id, 子任务类型, 更新时间, worker\_id, 属于第几个任务, 已完成位置) \*/*

```
CREATE TABLE IF NOT EXISTS `personal_task`(  
subtask_id INT UNSIGNED NOT NULL,  
begin INT UNSIGNED NOT NULL,  
created_time DATETIME,  
deadline DATETIME,  
end INT UNSIGNED NOT NULL,  
is_finished INT UNSIGNED NOT NULL,  
task_id INT UNSIGNED NOT NULL,
```



```

type INT UNSIGNED NOT NULL,

updated_time DATETIME,

worker_id INT UNSIGNED NOT NULL,

number_of_task INT UNSIGNED NOT NULL,

now_begin INT UNSIGNED NOT NULL,

extend1 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,

extend2 varchar(128) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,

PRIMARY KEY ( subtask_id )

FOREIGN KEY ( worker_id references worker )

FOREIGN KEY ( task_id references task )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

## Relationship

Worker-Task Each worker can select multiple tasks to complete, and each task can be selected by multiple workers.

User-Worker A user can choose to register as a worker, and each user\_id will uniquely correspond to a worker\_id.

Resource-Question Each question can have multiple image resources, and each image resource can also correspond to multiple questions.

Task-Requester Each requester can publish multiple tasks, each task uniquely corresponds to one publisher - requester

Question-Open\_answer Each short answer question can have multiple answers, and each answer can only correspond to one question.

Question-Options Each multiple-choice question can have multiple options, each option uniquely corresponding to a short answer question

Options- Option\_selected Each option can have multiple choices of answers, and each answer can only uniquely correspond to one option.

## 接口规约

The specifications of interfaces used in interactions among subsystems

## Tourist

## register As Worker

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/register-as-worker>

Body**参数名**	类型	必需	描述	示例 e.g.
eMail	string	是		
password	string	是		
username	string	是		
name	string	是		
teleNumber	string	是		
withdrawnMethod	string	是		
education	string	是		
workArea	string	是		
age	string	是		
gender	string	是		
major	string	是		

## register As Requester

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/register-as-requester>

Body**参数名**	类型	必需	描述	示例 e.g.
eMail	string	是		
password	string	是		
username	string	是		
name	string	是		
teleNumber	string	是		
research_field	string	是		
institutionName	string	是		
address	string	是		
payMethod	string	是		
gender	string	是		
age	string	是		

## login

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/login>

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	the username of user	<a href="mailto:1661752018@qq.com">1661752018@qq.com</a>
password	string	是	the password of user	tongji
role	string	是	the role of the user	ROLE_WORKER

详细说明：

This interface is used to login, it will return with a token.

## register

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/register>

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	the email of the user	<a href="mailto:1661752018@qq.com">1661752018@qq.com</a>
password	string	是	the password of user	tongji
role	string	是	the role of user	ROLE_WORKER

详细说明：

This interface is used to register.The return value depends on the situation of adding.

## requester Add

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/requester/add>

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	The username of the requester	lyh
name	string	是	The name of the requester	liuyue
teleNumber	string	是	the teleNumber of the requester	13367403962
eMail	string	是	eMail of the requester	<a href="mailto:1661752019@qq.com">1661752019@qq.com</a>
research_field	string	是	research_field of the requester	medical
institutionName	string	是	institutionName of the requester	tongji university
address	string	是	address of the requester	上海
payMethod	string	是	payMethod of the requester	支付宝
gender	string	是	gender of the requester	0
age	string	是	age of the requester	30

详细说明：

This interface is used to add rows to the table "Requester".Because of "not null" restrictions, parameter "username" and "name" must be input.

## worker Add

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址: <http://localhost:8880/worker/add>

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	Username of the worker	lyh
name	string	是	Username of the worker	liuyuehan
teleNumber	string	是	teleNumber of the worker	13956642750
eMail	string	是	eMail of the worker	<a href="mailto:1661752019@qq.com">1661752019@qq.com</a>
withdrawnMethod	string	是	withdrawnMethod of the worker	支付宝
education	string	是	education situation of the worker	university
workArea	string	是	workArea of the worker	software engineering
age	integer	是	age of the worker	19
gender	integer	是	gender of the worker	0
major	string	是	major of the user	

详细说明:

This interface is used to add rows to the table "Worker".Because of "not null" restrictions, parameter "username" and "name" must be input.

## task Find All

[在线测试](#) [在线浏览](#)

请求方式: GET

请求地址: <http://localhost:8880/task/find-all>

详细说明:

This interface is used to get all the tasks which are arranged in reverse order.

## Worker

### answer

[在线测试](#) [在线浏览](#)

请求方式: POST

请求地址: <http://localhost:8880/question/answer>



# answer One

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/question/answer-one>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJnb29kX2RheSIsImNyZWZ0ZWQlOiE1NDM5MTAyMDkwNjcsImV4cCI6MTU0NDUxNTAwOX0.hXXrtau1PEgHZbucGzxfnW5I3yGjd9k49uJNWrEihCbcM1fyOF5q6bggyrtie

Body**参数名**	类型	必需	描述	示例 e.g.
optionId	integer	是	the id of the option	2
content	string	是	the content of the answer	没什么想法

详细说明：

This interface is used to answer a question.

# select One

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/question/select-one>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJkdW5zaGl5ZSIsImNyZWZ0ZWQlOiE1NDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaZLC0KM5bwKRQ_E6ttZJZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV8Kr

Body**参数名**	类型	必需	描述	示例 e.g.
optionId	integer	是	the id of option	1

详细说明：

This interface is used to select one option.

# find My Task

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/personal-task/find-my-task>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJnb29kX2RheSIsImNyZWZ0ZWQlOiE1NDIxNjg5MjU1ODgsImV4cCI6MTU0Mjc3MzcyNX0.FFuxjCQMBMf3kB4KFVUqIEMnZOCY8IZTBBEUzNuc_7QGcmXF6iFbGNILPxlrjw

详细说明：

This interface is used to get my(worker) task lists.

## find Myself

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8080/worker/find-myself>

Header**参数**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZlbnQiOiJlNDIxNjg5MTU1ODgsImV4cCI6MTU0Mjc3MzcyNX0.FFuxjCQMBMf3kB4KFVUqIEMnZOCY8iZTBBEUzNuc_7QGcmXF6iFbGNILPxlnjw

详细说明：

This interface is used to check the user's(worker) information.

## personal Task Add

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/personal-task/add>

Header**参数**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZlbnQiOiJlNDIxNjg5MTU1ODgsImV4cCI6MTU0Mjc3MzcyNX0.FFuxjCQMBMf3kB4KFVUqIEMnZOCY8iZTBBEUzNuc_7QGcmXF6iFbGNILPxlnjw

Body**参数名**	类型	必需	描述	示例 e.g.
taskId	integer	是	The id of the task	3

详细说明：

This interface is used to add pairs of workers and tasks. Besides, this interface is temporary. After the natural join logic finishes, this interface will update.

## worker Delete

[在线测试](#) [在线浏览](#)

请求方式：DELETE

请求地址：<http://localhost:8080/worker/delete>



Body**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the worker	9

详细说明：

This interface is used to delete data in database identifying by id of the worker.

## worker Update

[在线测试](#) [在线浏览](#)

请求方式：PUT

请求地址：<http://localhost:8880/worker/update>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJYXNzUyMDE4QHFxLmNvbSIsImNyZWZlZWF0ZWQiOiJlNDQ0NDY1OTQ3NDcslmV4cCI6MTU0NTA1MTM5NH0.JlnE7LLY9nt1HAst10HMr51Rf2Mwb7Q6q5rR92ej5GJJOP

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	Username of the worker	lyh
name	string	是	true name of the user	liuyuehan
teleNumber	string	是	teleNumber of the worker	13956642750
eMail	string	是	eMail of the worker	<a href="mailto:1661752018@qq.com">1661752018@qq.com</a>
withdrawnMethod	string	是	withdrawnMethod of the worker	支付宝
education	string	是	education situation of the worker	university
workArea	string	是	workArea of the worker	software engineering
age	string	是	age of the worker	19
gender	string	是	gender of the worker	0
major	string	是	major of the user	

详细说明：

This interface is used to update one worker's information.

## Requester

### addResource

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/question/add-resource>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of requester	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJzdW5zaGluZSIsImNyZWZ0ZWQlOiJlNDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaZLC0KM5bwKRQ_E6ttZjZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV

Body**参数名**	类型	必需	描述	示例 e.g.
questionId	integer	是	the id of question	1
resourceId	integer	是	the id of resource	1

## seeAllAnswer

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8080/question/see-all-answer>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJzdW5zaGluZSIsImNyZWZ0ZWQlOiJlNDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaZLC0KM5bwKRQ_E6ttZjZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV8Kr

Query**参数名**	类型	必需	描述	示例 e.g.
taskId	string	是	the id of task	1

## taskAttribute

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8080/task/attribute>

Body**参数名**	类型	必需	描述	示例 e.g.
id	string	是		
name	string	是		
discribe	string	是		
tag	string	是		
reward	string	是	项目报酬	
population	string	是	参与人数	
finish_time	string	是	完成项目的时限	
limitation	string	是	项目的起止时间	
pay_time	string	是	自动支付的时间	
condition	string	是		
if_expert	string	是		

## optionAdd

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/question/add-option>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJpdW5zaGluzSIsImNyZWV0ZWQjOiJlNDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaZLC0KM5bwKRQ_E6ttZjZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV8Kr

Body**参数名**	类型	必需	描述	示例 e.g.
content	string	是	the content of the option	是
questionId	integer	是	the id of the question	1
openAnswerPermission	integer	是		
optionNumber	integer	是	the number of the option	1

详细说明：

This interface is used to add option to a question.

## questionAdd

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/question/add-question>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJpdW5zaGluc2lslmNyZWZ0ZWQlOiE1NDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaLZLC0KM5bwkRQ_E6ttZJZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV8Kr

Body**参数名**	类型	必需	描述	示例 e.g.
taskId	integer	是	the id of task	1
content	string	是	the content of question	问卷调查
resourceLoading	integer	是		0
type	integer	是	the type of the question	0

详细说明：

This interface is used to add question.

## findMyself

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://139.199.183.133:8080/requester/find-myself>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJpYXBweV9kYXkiLCJjcmVhdGVkIjoxNTQyMTY5OTg1NzExLCJleHAiOiE1NDI3NzQ3ODV9.k-mj_AVofkYdrom3z4Kf47Uw_4cs8_hgG1N34rxxuS-GNFB5_265xlKCJAFNXNkwF-bEm5GQWE9xqrvF3VlahQ

详细说明：

The interface is used to get user's(requester) information.

## requesterDelete

[在线测试](#) [在线浏览](#)

请求方式：DELETE

请求地址：<http://localhost:8080/requester/delete>

Body**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the requester	10

详细说明:

This interface is used to delete data in the table "Requester" identified by id.

## requesterUpdate

[在线测试](#) [在线浏览](#)

请求方式: PUT

请求地址: <http://localhost:8880/requester/update>

Header**参数**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyZWZ0ZWQwIjE1NDQ0NTA5NjA0NjYsImV4cCI6MTU0NTA1NTc2MH0.milva2OjplGDTD6u3MJ3VNVG2uwiZezCCf87fK4NX_ZTU8PuoDw-FazB7pad8pVoyz8maOVz5VxLNRip7lVA

Body**参数名**	类型	必需	描述	示例 e.g.
username	string	是	The username of the requester	lyh
name	string	是	The name of the requester	liuyue
teleNumber	string	是	the teleNumber of the requester	13367403962
eMail	string	是	eMail of the requester	<a href="mailto:1661752019@qq.com">1661752019@qq.com</a>
research_field	string	是	research_field of the requester	medical
institutionName	string	是	institutionName of the requester	tongji university
address	string	是	address of the requester	上海
payMethod	string	是	payMethod of the requester	支付宝
gender	string	是	gender of the requester	0
age	string	是	age of the requester	30

详细说明:

This interface is used to update one worker's information.

## taskDataAdd

[在线测试](#) [在线浏览](#)

请求方式: POST

请求地址: <http://localhost:8080/taskData/add>

Header**参数**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZvZWQiOiE1NDIxNjgzNTk0MDRslmV4cC6MTU0Mjc3MzE1OX0.PfbnTW-_p3qkWWYcq0cn9clIWGmj6QXS9T8S694PaGqPDcee5_rK1eNp5_vq6SXOF8lwXzPngYE8ha2yqxQ

Body**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	the id of task	1
worker_num	integer	是	the number of worker have get involved in the task	50
progress_rate	float	是	the rate of the task have been completed	0.8

Body**参数名**	类型	必需	描述	示例 e.g.
taskId	object	是	the Id of task to be updated	15
name	string	是	the name of the task	this task require some people to do tagging
description	string	是	the description of the task	this task require some people to do tagging
reward	string	是	the reward of task	20
status	string	是	the status of the task	良好
type	string	是	the type of the task	问卷调查
restrictions	string	是	the restrictions of the task	学生
start_time	string	是	the start_time of the task	2018-12-10 00:00:00
end_time	string	是	the end_time of the task	2018-12-12 00:00:00
level	string	是	the level of the task	1
time_limitation	string	是	the time_limitation of the task	3
pay_time	string	是	the pay_time of the task	1

详细说明：

The interface is used to update a task.

This can only be used by requester.

## taskAdd

[在线测试](#) [在线浏览](#)

请求方式：POST

请求地址：<http://localhost:8880/task/add>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJpdW5zaGluZSIsImNyZWZ0ZWQlOiJE1NDixNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaZLlC0KM5bwKRQ_E6ttZJZOjkl_Xg_Onlq2jsHvBWgZ6N4pTV8Kr

Body**参数名**	类型	必需	描述	示例 e.g.
name	string	是	the name of the task	Tag
description	string	是	the description of the task	this task require some people to do tagging
reward	integer	是	the reward of task	20
status	string	是	the status of the task	良好
type	string	是	the type of the task	问卷调查
restrictions	string	是	the restrictions of the task	学生
start_time	datetime	是	the start_time of the task	2018-12-10 00:00:00
end_time	datetime	是	the end_time of the task	2018-12-12 00:00:00
level	integer	是	the level of the task	1
time_limitation	integer	是	the time_limitation of the task	3
pay_time	integer	是	the pay_time of the task	1
area	string	是	the area of the task	
usage	string	是	the usage of the task	
min_age	integer	是	the minimal age of worker who can do this task	
max_age	integer	是	the maximal age of worker who can do this task	

详细说明:

This interface is used to add a new task.

Name,description and requester\_id is must.

This can only be used by requester.

## General

### seeHisQuestion

[在线测试](#) [在线浏览](#)

请求方式: GET

请求地址: <http://localhost:8080/question/see-his-answer>



Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJnb29kX2RheSIsImNyZWZ0ZWQlOiE1NDM5MTAyMDkwNjcsImV4cCI6MTU0NDUxNTAwOX0.hXXrtau1PEgHZbucGzxfnW5l3yGjd9k49ujNWRElhCbcM1fyOF5q6bgYrtie

Query**参数名**	类型	必需	描述	示例 e.g.
taskId	string	是	the id of the task	6
workerId	string	是	the id of the worker	22

详细说明：

This interface is used to see someone's answer of a task.

## seeAllQuestion

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/question/see-all-question>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJpdW5zaGlzSIsImNyZWZ0ZWQlOiE1NDIxNzEwMjAwNzksImV4cCI6MTU0Mjc3NTgyMH0.03MDnA4bkaLZLC0KM5bwkRQ_E6ttZjZOjkl_Xg_Onlq2jsHvBWgz6N4pTV8Kr

Query**参数名**	类型	必需	描述	示例 e.g.
taskId	integer	是	the id of task	1

详细说明：

This interface is used to see all question.

## changePassword

[在线测试](#) [在线浏览](#)

请求方式：PUT

请求地址：<http://localhost:8080/changePassword>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJnb29kX2RheSIsImNyZWZ0ZWQlOiE1NDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Body**参数名**	类型	必需	描述	示例 e.g.
password	string	是	the new password	software

详细说明：

This interface is used to change password.

## changePassword

[在线测试](#) [在线浏览](#)

请求方式: PUT

请求地址: <http://localhost:8080/changePassword>

Body**参数名**	类型	必需	描述	示例 e.g.
name	string	是	the name of the user	happy_all_the_time
password	string	是	the new password	tongji

详细说明:

This interface is used to change the password of the user.

## personalTaskDelete

[在线测试](#) [在线浏览](#)

请求方式: DELETE

请求地址: <http://localhost:8080/personal-task/delete>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZ0ZWQIQiE1NDIxNjg5MjU1ODgsImV4Cl6MTU0Mjc3MzcyNX0.FFuxjCQMf3k4BKFVUqIEMnZOCY8iZTBBEUzNuc_7QGcmXF6iFbGNILPxl

Body**参数名**	类型	必需	描述	示例 e.g.
workerId	integer	是	The id of the worker	2
taskId	integer	是	The id of the task	3

详细说明:

This interface is used to delete one row of personaltask.

## personalTaskFindWorkerList

[在线测试](#) [在线浏览](#)

请求方式: GET

请求地址: <http://localhost:8080/personal-task/find-worker-list>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJnb29kX2RheSIsImNyZWZ0ZWQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the task	2

详细说明：

This interface is used to find a list of worker's ids by task's id which the workers joined in.

## personalTaskFindTaskList

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8080/personal-task/find-task-list>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJnb29kX2RheSIsImNyZWZ0ZWQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the worker	1

详细说明：

This interface is used to find a list of task's ids by worker's id which the worker joined in.

## requesterFindByUsername

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/requester/find-by-username>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJnb29kX2RheSIsImNyZWZ0ZWQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
username	string	是	The username of the requester	hyq

详细说明：

This interface is used to find requester's information through his username. Usually, this interface is used after a requester log in.

## requesterFindById

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8080/requester/find-by-id>

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the requester	1

详细说明：

This interface is used to find requester's information through id.

## workerFindByUsername

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/worker/find-by-username>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth_Token	string	是	The token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZ0ZWQlOiE1NDIxNjg5MjU1ODgsImV4cC6MTU0Mjc3MzcyNX0.FFuxjCQMBMf3k84KFVUqIEMnZOCY8IZTBBEUzNuc_7QGcmXF6IfbGNILPxlrjw

Query**参数名**	类型	必需	描述	示例 e.g.
username	string	是	The username of worker	qsw

详细说明：

This interface is used to find worker's information through his username.Usually,this interface is used after a worker log in the system.

## workerFindById

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/worker/find-by-id>

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	The id of the worker(primary key)	1

详细说明:

This interface is used to find worker's information through worker's id.

## taskDataFind

[在线测试](#) [在线浏览](#)

请求方式: GET

请求地址: <http://localhost:8080/taskData/find>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWiiOiJnb29kX2RheSIsImNyZWVhbnQiOiJlNDIxNjgzNTk0MDgslmV4cCl6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	the id of task whose information need to be found	6

详细说明:

The interface is used to find a task's history.

## taskDelete

[在线测试](#) [在线浏览](#)

请求方式: DELETE

请求地址: <http://localhost:8080/task/delete>

Body**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	the id of task to be deleted	1

详细说明:

The interface is used to delete a task, the id of it required to be provided.

## taskFindByReward

[在线测试](#) [在线浏览](#)

请求方式: GET

请求地址: <http://localhost:8080/task/find-by-reward>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZlbnQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
lowest	integer	是	the lowest reward of user's expectation	20
highest	integer	是	the highest reward of user's expectation	50

详细说明：

The interface is used to find tasks whose reward is in the range of user's expectation.

## taskFindByRequesterId

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/task/find-by-requester-id>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZlbnQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
requesterid	integer	是	requester's id whose tasks need to be found	1

详细说明：

The interface is used to find tasks by the requester's id.

## taskFindByName

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/task/find-by-name>

Header**参数名**	类型	必需	描述	示例 e.g.
X_Auth-Token	string	是	the token of user	eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJnb29kX2RheSIsImNyZWZlbnQiOiJlNDIxNjgzNTk0MDgslmV4cCI6MTU0Mjc3MzE1OX0.PfbnTW-_p3qMWYcq0cnX9clIWGmj6QXS9T8Ss694PaGqPDcee5_rK1JeNp5_vq6SXOF8lwX7zPngYE8ha2ygxQ

Query**参数名**	类型	必需	描述	示例 e.g.
name	string	是	the name of task to be found	classify

详细说明：

The interface is used to find tasks by name.

## taskFindById

[在线测试](#) [在线浏览](#)

请求方式：GET

请求地址：<http://localhost:8880/task/find-by-id>

Query**参数名**	类型	必需	描述	示例 e.g.
id	integer	是	the id of task to be find	6

详细说明：

This interface is used to find a task by its id.

## 附录

### 环境变量

dev

变量名	变量值
host	localhost:8080