注：1.实际建表使用workbench，可能与建表语句有小差别

2.服务器地址：139.199.183.133:3306

3.暂有用户名：qiansiwei 密码:12345

/\* User:（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`withdrawn\_method` VARCHAR(20),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),

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，研究领域，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),

`research\_field` VARCHAR(30),

`insititution\_name` VARCHAR(30),

`address` VARCHAR(30),

`pay\_method` VARCHAR(20),

`gender` INT UNSIGNED,

`age` INT UNSIGNED,

`balance` INT UNSIGNED,

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）\*/

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` VARCHAR(30),

`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,

PRIMARY KEY ( `task\_id` )

FOREIGN KEY ( `requester\_id` references requester)

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Question:（question\_id，题目内容，有无资源加载，题目类型，task\_id，是否必做）\*/

CREATE TABLE IF NOT EXISTS `question`(

`question\_id` INT UNSIGNED NOT NULL,

`content` VARCHAR(50) NOT NULL,

`resource\_loading` INT UNSIGNED NOT NULL,

`type` INT UNSIGNED NOT NULL,

`task\_id` INT UNSIGNED NOT NULL,

`compulsory` INT UNSIGNED NOT NULL,

PRIMARY KEY ( `question\_id` )

FOREIGN KEY ( `task\_id` references task )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Options:（option\_id，选项内容，question\_id，是否允许填空，选项编号）\*/

CREATE TABLE IF NOT EXISTS `option`(

`option\_id` INT UNSIGNED NOT NULL,

`content` VARCHAR(20) NOT NULL,

`question\_id` INT UNSIGNED NOT NULL,

`open\_answer\_permission` INT UNSIGNED NOT NULL,

`option\_number` INT UNSIGNED NOT NULL,

PRIMARY KEY ( `option\_id` )

FOREIGN KEY ( `question\_id` references question )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Option\_selected:（option\_selected\_id，option\_id，worker\_id，选择时间）\*/

CREATE TABLE IF NOT EXISTS `option\_selected`(

`option\_selected\_id` INT UNSIGNED NOT NULL,

`option\_id` INT UNSIGNED NOT NULL,

`worker\_id` INT UNSIGNED NOT NULL,

`time` DATETIME NOT NULL,

PRIMARY KEY ( `option\_selected\_id` )

FOREIGN KEY ( `option\_id` references option )

FOREIGN KEY ( `worker\_id` references worker )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Open\_answer:（open\_answer\_id，回答内容， question\_id， worker\_id，回答时间，option\_id）\*/

CREATE TABLE IF NOT EXISTS `open\_answer`(

`open\_answer\_id` INT UNSIGNED NOT NULL,

`content` VARCHAR(50) NOT NULL,

`question\_id` INT UNSIGNED NOT NULL,

`worker\_id` INT UNSIGNED NOT NULL,

`time` DATETIME NOT NULL,

`option\_id` INT UNSIGNED,

PRIMARY KEY ( `open\_answer\_id` )

FOREIGN KEY ( `question\_id` references question )

FOREIGN KEY ( `worker\_id` references worker )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Resource:（resource\_id，资源链接，资源类型，photo\_album\_id）\*/

CREATE TABLE IF NOT EXISTS `resource`(

`resource\_id` INT UNSIGNED NOT NULL,

`link` VARCHAR(100) NOT NULL,

`type` VARCHAR(10) NOT NULL,

`photo\_album\_id` INT UNSIGNED NOT NULL,

PRIMARY KEY ( `resource\_id` )

FOREIGN KEY ( `photo\_album\_id` references photo\_album )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* QuestionResource:（question\_id，resource\_id）\*/

CREATE TABLE IF NOT EXISTS `question\_resource`(

`question\_id` INT UNSIGNED NOT NULL,

`resource\_id` INT UNSIGNED NOT NULL,

PRIMARY KEY ( `question\_id`,`resource\_id` )

FOREIGN KEY ( `question\_id` references question )

FOREIGN KEY ( `resource\_id` references resource )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Photo\_album:（photo\_album\_id，requester\_id，name）\*/

CREATE TABLE IF NOT EXISTS `photo\_album`(

`photo\_album\_id` INT UNSIGNED NOT NULL,

`requester\_id` INT UNSIGNED NOT NULL,

`name` VARCHAR(30) NOT NULL,

PRIMARY KEY ( `photo\_album\_id` )

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,

PRIMARY KEY ( `task\_of\_requester\_id` )

FOREIGN KEY ( `requester\_id` references requester )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\* Personal\_task:（worker\_id，task\_id）\*/

CREATE TABLE IF NOT EXISTS `personal\_task`(

`worker\_id` INT UNSIGNED NOT NULL,

`task\_id` INT UNSIGNED NOT NULL,

PRIMARY KEY ( `worker\_id`,`task\_id` )

FOREIGN KEY ( `worker\_id` references worker )

FOREIGN KEY ( `task\_id` references task )

)ENGINE=InnoDB DEFAULT CHARSET=utf8;