课程说明

- 首页好友推荐的功能实现
- 谁看过我的功能实现
- 今日佳人的功能实现
- 聊一下的功能实现
- 上报地理位置的功能实现

1、首页好友推荐

1.1、默认推荐列表

如果查询不到推荐列表，那就需要给出默认的推荐列表。

1.1.1、配置默认推荐的用户

```
#application.properties
tanhua.sso.default.recommend.users=2,3,4,5,6,7,8,9,10,11,12,13
```

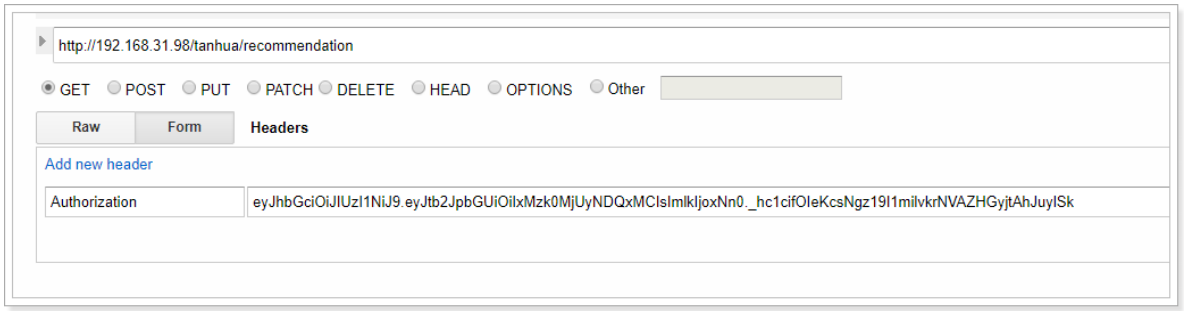
1.1.2、修改查询逻辑

```
//TodayBestService

/**
     * 查询推荐用户列表
     *
     * @param queryParam
     * @param token
     * @return
     */
    public PageResult queryRecommendUserList(RecommendUserQueryParam queryParam, String token) {
        //查询当前的登录信息
        User user = this.userService.queryUserByToken(token);
        if (null == user) {
            return null;
        }
        PageResult pageResult = new PageResult();
        PageInfo<RecommendUser> pageInfo = this.recommendUserService.queryRecommendUserList(user.getId(), queryParam.getPage(), queryParam.getPagesize());

        pageResult.setCounts(0); //前端不参与计算，仅需要返回字段
        pageResult.setPage(queryParam.getPage());
        pageResult.setPagesize(queryParam.getPagesize());


        List<RecommendUser> records = pageInfo.getRecords();

        if(CollectionUtils.isEmpty(records)){
```

```
            //默认推荐列表
            String[] ss = StringUtils.split(defaultRecommendUsers, ',');
            for (String s : ss) {
                RecommendUser recommendUser = new RecommendUser();

                recommendUser.setUserId(Long.valueOf(s));
                recommendUser.setToUserId(user.getId());
                recommendUser.setScore(RandomUtils.nextDouble(70, 99));

                records.add(recommendUser);
            }
        }

        List<Long> userIds = new ArrayList<>();
        for (RecommendUser record : records) {
            userIds.add(record.getUserId());
        }

        QueryWrapper<UserInfo> queryWrapper = new QueryWrapper<>();
        queryWrapper.in("user_id", userIds);

        if (StringUtils.isNotEmpty(queryParam.getGender())) { //性别条件
            if (queryParam.getGender().equals("man")) {
                queryWrapper.eq("sex", 1);
            } else {
                queryWrapper.eq("sex", 2);
            }
        }

        if (StringUtils.isNotEmpty(queryParam.getCity())) { //居住城市
            queryWrapper.eq("city", queryParam.getCity());
        }

        if (queryParam.getAge() != null) { //年龄
            queryWrapper.lt("age", queryParam.getAge());
        }

        List<UserInfo> userInfos =
this.userInfoService.queryList(queryWrapper);

        List<TodayBest> todayBests = new ArrayList<>();
        for (UserInfo userInfo : userInfos) {
            TodayBest todayBest = new TodayBest();
            todayBest.setId(userInfo.getUserId());
            todayBest.setAge(userInfo.getAge());
            todayBest.setAvatar(userInfo.getLogo());
            todayBest.setGender(userInfo.getSex().name().toLowerCase());
            todayBest.setNickname(userInfo.getNickName());
            todayBest.setTags(StringUtils.split(userInfo.getTags(), ','));

            //设置缘分值
            for (RecommendUser record : records) {
                if(userInfo.getUserId().longValue() ==
record.getUserId().longValue()){
                    double score = Math.floor(record.getScore());

 todayBest.setFateValue(Double.valueOf(score).longValue());
                    break;
```

```
                }
            }

            todayBests.add(todayBest);
        }

        //排序集合，按照score倒序排序
        Collections.sort(todayBests, (o1, o2) -> new Long(o2.getFateValue()
- o1.getFateValue()).intValue());

        pageResult.setItems(todayBests);

        return pageResult;
    }
```

1.1.3、测试



响应结果：


```
{
    "counts": 0,
    "pagesize": 10,
    "pages": 0,
    "page": 1,
    "items": [
        {
            "id": 4,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/4.jpg",
            "nickname": "heima_4",
            "gender": "man",
            "age": 22,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 95
        },
        {
            "id": 9,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/8.jpg",
            "nickname": "heima_9",
            "gender": "man",
            "age": 23,
            "tags": [
                "单身",
```

```
                "本科",
                "年龄相仿"
            ],
            "fateValue": 95
        },
        {
            "id": 5,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/5.jpg",
            "nickname": "heima_5",
            "gender": "man",
            "age": 23,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 94
        },
        {
            "id": 6,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/9.jpg",
            "nickname": "heima_6",
            "gender": "man",
            "age": 23,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 94
        },
        {
            "id": 2,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/22.jpg",
            "nickname": "heima_2",
            "gender": "man",
            "age": 30,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 93
        },
        {
            "id": 8,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/12.jpg",
            "nickname": "heima_8",
            "gender": "man",
            "age": 26,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
```

```
            ],
            "fateValue": 92
        },
        {
            "id": 11,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/11.jpg",
            "nickname": "heima_11",
            "gender": "man",
            "age": 46,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 86
        },
        {
            "id": 12,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/10.jpg",
            "nickname": "heima_12",
            "gender": "man",
            "age": 40,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 86
        },
        {
            "id": 13,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/5.jpg",
            "nickname": "heima_13",
            "gender": "man",
            "age": 46,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 85
        },
        {
            "id": 7,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/18.jpg",
            "nickname": "heima_7",
            "gender": "man",
            "age": 42,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 78
```

```
        },
        {
            "id": 3,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/19.jpg",
            "nickname": "heima_3",
            "gender": "man",
            "age": 45,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 77
        },
        {
            "id": 10,
            "avatar": "https://itcast-tanhua.oss-cn-
shanghai.aliyuncs.com/images/logo/4.jpg",
            "nickname": "heima_10",
            "gender": "man",
            "age": 46,
            "tags": [
                "单身",
                "本科",
                "年龄相仿"
            ],
            "fateValue": 76
        }
    ]
}
```

1.2、好友推荐

对于好友的推荐，需要找出每个用户之间的相似性，具体规则如下：

字段	权重分			
年龄差	0-2岁 30分	3-5 20分	5-10岁 10分	10岁以上 0分
性别	异性 30分	同性 0分		
位置	同城 20分	不同 0分		
学历	相同 20分	不同 0分		

1.2.1、编写Spark程序

配置：

```
spark.mongodb.input.uri =
mongodb://192.168.31.81:27017/tanhua.recommend_quanzi_20191001?
readPreference=primaryPreferred
spark.video.mongodb.input.uri =
mongodb://192.168.31.81:27017/tanhua.recommend_video_20191007?
readPreference=primaryPreferred
spark.mongodb.output.user.uri =
mongodb://192.168.31.81:27017/tanhua.recommend_user?
readPreference=primaryPreferred

redis.cluster.nodes =
192.168.31.81:6379,192.168.31.81:6380,192.168.31.81:6381

jdbc.driver-class-name=com.mysql.jdbc.Driver
jdbc.url=jdbc:mysql://127.0.0.1:3306/tanhua?
useUnicode=true&characterEncoding=utf8&autoReconnect=true&allowMultiQueries
=true&useSSL=false
jdbc.username=root
jdbc.password=root
```

添加MySQL驱动：

```
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
</dependency>
```

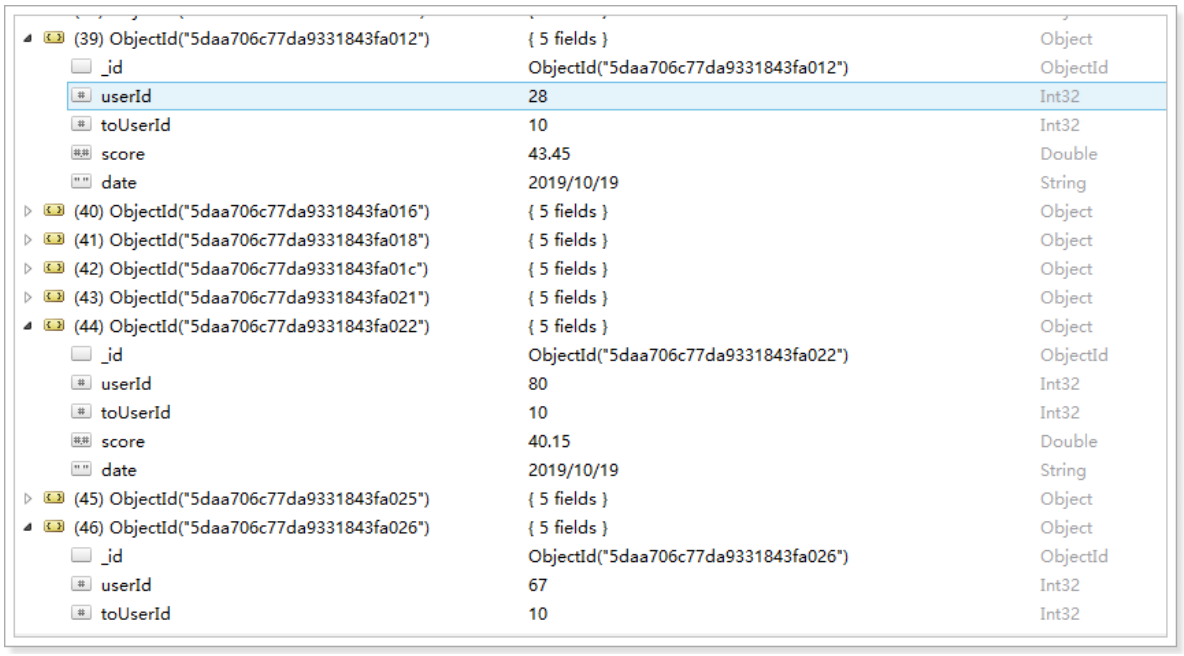
```
package com.tanhua.spark.mongo;

import com.mongodb.spark.MongoSpark;
import org.apache.commons.lang.math.RandomUtils;
import org.apache.commons.lang3.StringUtils;
import org.apache.spark.SparkConf;
import org.apache.spark.api.java.JavaPairRDD;
import org.apache.spark.api.java.JavaRDD;
import org.apache.spark.api.java.JavaSparkContext;
import org.apache.spark.mllib.recommendation.MatrixFactorizationModel;
import org.apache.spark.mllib.recommendation.Rating;
import org.apache.spark.sql.Row;
import org.apache.spark.sql.SparkSession;
import org.bson.Document;
import org.bson.types.ObjectId;
import org.joda.time.DateTime;
import scala.Tuple2;

import java.io.InputStream;
import java.math.BigDecimal;
import java.util.Arrays;
import java.util.List;
import java.util.Properties;

public class SparkUserRecommend {

    public static void main(String[] args) throws Exception {
```

```
28
29          //读取外部的配置文件
30          InputStream inputStream =
SparkUserRecommend.class.getClassLoader().getResourceAsStream("app.propert
ies");
31          Properties properties = new Properties();
32          properties.load(inputStream);
33
34          //构建Spark配置
35          SparkConf sparkConf = new SparkConf()
36                  .setAppName("SparkUserRecommend")
37                  .setMaster("local[*]")
38                  .set("spark.mongodb.output.uri",
properties.getProperty("spark.mongodb.output.user.uri"));
39
40          //构建Spark上下文环境
41          SparkSession sparkSession =
SparkSession.builder().config(sparkConf).getOrCreate();
42          String url = properties.getProperty("jdbc.url");
43
44          // 设置数据库连接信息
45          Properties connectionProperties = new Properties();
46          connectionProperties.put("driver",
properties.getProperty("jdbc.driver-class-name"));
47          connectionProperties.put("user",
properties.getProperty("jdbc.username"));
48          connectionProperties.put("password",
properties.getProperty("jdbc.password"));
49
50          //读取用户信息表数据
51          JavaRDD<Row> userInfoJavaRDD = sparkSession.read().
52                  jdbc(url, "tb_user_info",
connectionProperties).toJavaRDD();
53
54          // 获取用户id列表
55          List<Long> userIdList = userInfoJavaRDD.map(v1 ->
v1.getLong(1)).collect();
56
57          //计算笛卡尔积
58          JavaPairRDD<Row, Row> cartesian =
userInfoJavaRDD.cartesian(userInfoJavaRDD);
59
60          JavaPairRDD<Long, Rating> userJavaPairRDD =
cartesian.mapToPair(rowRowTuple2 -> {
61              Row row1 = rowRowTuple2._1();
62              Row row2 = rowRowTuple2._2();
63
64              Long userId1 = row1.getLong(1);
65              Long userId2 = row2.getLong(1);
66
67              // 随机保证数据均匀分配
68              Long key = userId1 + userId2 + RandomUtils.nextLong();
69
70              if (userId1.longValue() == userId2.longValue()) {
71                  // 相同数据
72                  return new Tuple2<>(key % 10, new
Rating(userId1.intValue(), userId2.intValue(), 0));
73              }
```

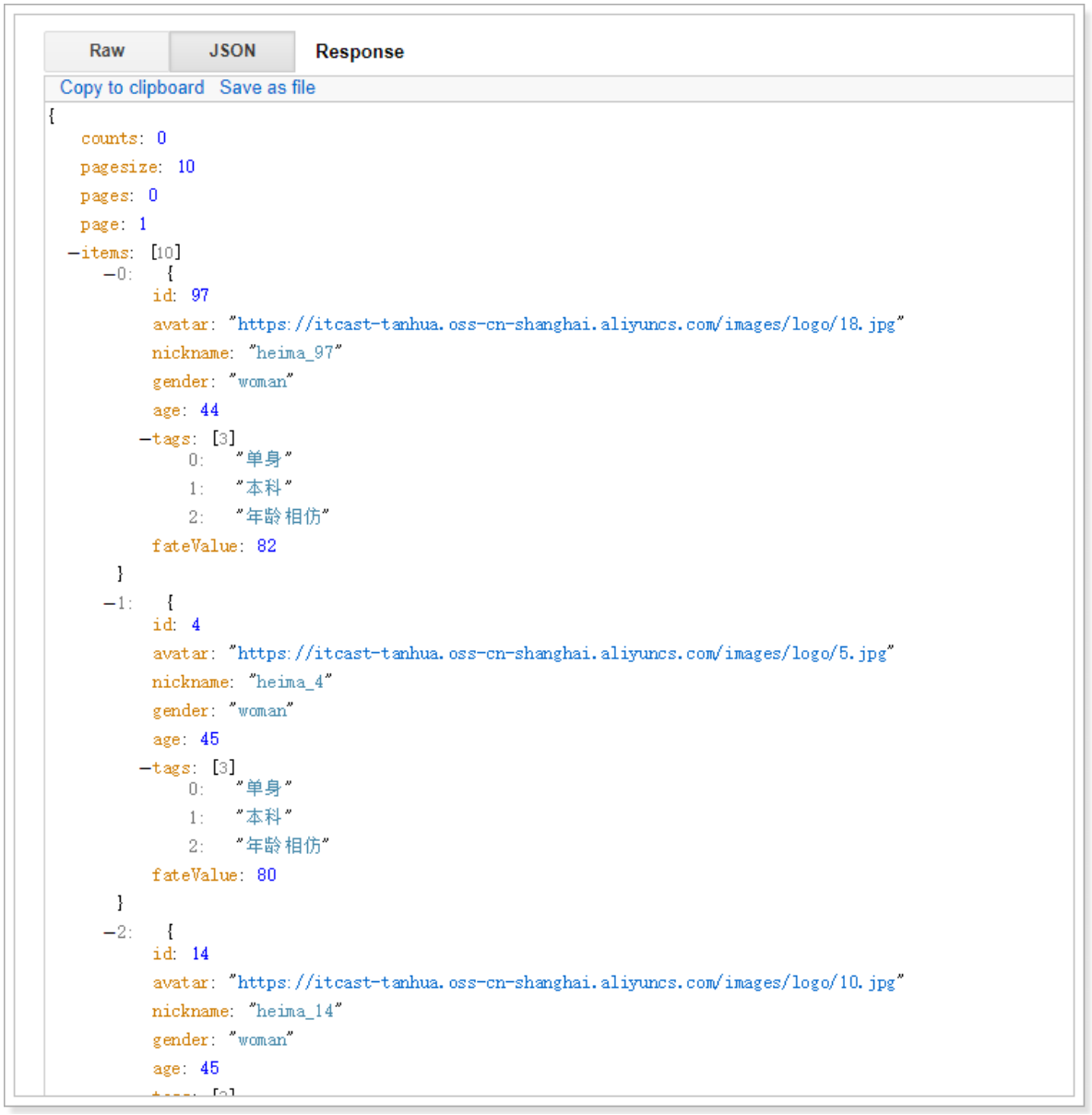
```
74
75              double score = 0;
76
77              // 计算年龄差
78              int ageDiff = Math.abs(row1.getInt(6) - row2.getInt(6));
79              if (ageDiff <= 2) {
80                  score += 30;
81              } else if (ageDiff >= 3 && ageDiff <= 5) {
82                  score += 20;
83              } else if (ageDiff >= 6 && ageDiff <= 10) {
84                  score += 10;
85              }
86
87              // 计算性别
88              if (row1.getInt(5) != row2.getInt(5)) {
89                  score += 30;
90              }
91
92              // 计算城市
93              String city1 = StringUtils.substringBefore(row1.getString(8),
"-");
94              String city2 = StringUtils.substringBefore(row2.getString(8),
"-");
95              if (StringUtils.equals(city1, city2)) {
96                  score += 20;
97              }
98
99              // 计算学历
100             String edu1 = row1.getString(7);
101             String edu2 = row2.getString(7);
102             if (StringUtils.equals(edu1, edu2)) {
103                 score += 20;
104             }
105
106             Rating rating = new Rating(userId1.intValue(),
userId2.intValue(), score);
107             return new Tuple2<>(key % 10, rating);
108         });
109
110         //通过MLlib模型进行推荐，获取到最优的推荐模型
111         MLlibRecommend mLlibRecommend = new MLlibRecommend();
112         MatrixFactorizationModel bestModel =
mLlibRecommend.bestModel(userJavaPairRDD);
113
114         //用于MongoDB的写入
115         JavaSparkContext jsc = new
JavaSparkContext(sparkSession.sparkContext());
116         for (Long userId : userIdList) {
117             // 为用户推荐50个相似用户
118             Rating[] recommendProducts =
bestModel.recommendProducts(userId.intValue(), 50);
119
120             JavaRDD<Document> docs =
jsc.parallelize(Arrays.asList(recommendProducts)).map(v1 -> {
121                 Document document = new Document();
122
123                 document.put("_id", ObjectId.get());
124                 document.put("userId", v1.product());
```

```
                document.put("toUserId", v1.user());
                //得分，保留2位小数
                double score = new BigDecimal(v1.rating()).setScale(2,
BigDecimal.ROUND_DOWN).doubleValue();
                document.put("score", score);
                document.put("date", new
DateTime().toString("yyyy/MM/dd"));

                return document;
            });

            // 写数据到MongoDB
            MongoSpark.save(docs);
        }

    }
}

```

1.2.2、测试



可以看到数据已经写入到了MongoDB。



2、谁看过我

记录别人来访了我的主页的信息。

2.1、编写pojo

```
package com.tanhua.dubbo.server.pojo;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
import org.bson.types.ObjectId;
import org.springframework.data.mongodb.core.mapping.Document;

@Data
@NoArgsConstructor
@AllArgsConstructor
@Document(collection = "visitors")
public class Visitors implements java.io.Serializable{

    private static final long serialVersionUID = 2811682148052386573L;

```

```
    private ObjectId id;
    private Long userId; //我的id
    private Long visitorUserId; //来访用户id
    private String from; //来源，如首页、圈子等
    private Long date; //来访时间

    private Double score; //得分

}

```

2.2、定义接口

```
package com.tanhua.dubbo.server.api;

import com.tanhua.dubbo.server.pojo.Visitors;

import java.util.List;

public interface VisitorsApi {

    /**
     * 保存来访记录
     *
     * @param visitors
     * @return
     */
    String saveVisitor(Visitors visitors);

    /**
     * 按照时间倒序排序，查询最近的访客信息
     *
     * @param userId
     * @param num
     * @return
     */
    List<Visitors> topVisitor(Long userId, Integer num);

    /**
     * 按照时间倒序排序，查询最近的访客信息
     *
     * @param userId
     * @param date
     * @return
     */
    List<Visitors> topVisitor(Long userId, Long date);
}

```

2.3、实现接口

```
package com.tanhua.dubbo.server.api;

import com.alibaba.dubbo.config.annotation.Service;
import com.tanhua.dubbo.server.pojo.RecommendUser;
import com.tanhua.dubbo.server.pojo.Visitors;
```

```java
import org.bson.types.ObjectId;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.domain.PageRequest;
import org.springframework.data.domain.Pageable;
import org.springframework.data.domain.Sort;
import org.springframework.data.mongodb.core.MongoTemplate;
import org.springframework.data.mongodb.core.query.Criteria;
import org.springframework.data.mongodb.core.query.Query;

import java.util.List;

@Service(version = "1.0.0")
public class VisitorsApiImpl implements VisitorsApi {

    @Autowired
    private MongoTemplate mongoTemplate;

    @Override
    public String saveVisitor(Visitors visitors) {

        visitors.setId(ObjectId.get());
        visitors.setDate(System.currentTimeMillis());

        this.mongoTemplate.save(visitors);

        return visitors.getId().toHexString();
    }

    @Override
    public List<Visitors> topVisitor(Long userId, Integer num) {
        Pageable pageable = PageRequest.of(0, num,
Sort.by(Sort.Order.desc("date")));
        Query query =
Query.query(Criteria.where("userId").is(userId)).with(pageable);
        return this.queryVisitorList(query);
    }

    @Override
    public List<Visitors> topVisitor(Long userId, Long date) {
        Query query = Query.query(Criteria
                .where("userId").is(userId)
                .and("date").lt(date));
        return this.queryVisitorList(query);
    }

    private List<Visitors> queryVisitorList(Query query) {
        List<Visitors> visitors = this.mongoTemplate.find(query,
Visitors.class);

        // 查询得分
        for (Visitors visitor : visitors) {
            Query queryRecommend = Query.query(Criteria
                    .where("toUserId").is(visitor.getUserId())
                    .and("userId").is(visitor.getVisitorUserId()));
            RecommendUser recommendUser =
this.mongoTemplate.findOne(queryRecommend, RecommendUser.class);
            if (null != recommendUser) {
                visitor.setScore(recommendUser.getScore());
```

```
            } else {
                visitor.setScore(30d);
            }
        }

        return visitors;
    }
}

```

2.4、测试

```
package com.tanhua.dubbo.server.api;

import com.tanhua.dubbo.server.pojo.Visitors;
import org.apache.commons.lang3.RandomUtils;
import org.bson.types.ObjectId;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;

@RunWith(SpringJUnit4ClassRunner.class)
@SpringBootTest
public class TestVisitors {

    @Autowired
    private VisitorsApi visitorsApi;

    @Test
    public void testSave(){
        for (int i = 0; i < 100; i++) {
            Visitors visitors = new Visitors();

            visitors.setFrom("首页");
            visitors.setUserId(RandomUtils.nextLong(1,10));
            visitors.setVisitorUserId(RandomUtils.nextLong(11,50));

            this.visitorsApi.saveVisitor(visitors);
        }

        System.out.println("ok");

    }
}

```

2.5、mock接口

地址：https://mock.boxuegu.com/project/164/interface/api/64750

接口名称： 谁看过我　　创 建 人： 刘俊杰

状　　态： 已完成　　更新时间： 2019-09-09 09:20:54

接口路径： GET /movements/visitors

Mock地址： https://mock.boxuegu.com/mock/164/movements/visitors

请求参数

Headers：

参数名称	参数值	是否必须	示例	备注
Content-Type	application/json	是		
Authorization	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJleHAiOjE1NjI4MjkzMzYsInVzZXJfaWQiOiIxIn0.Mbzn6LzsLrkVWEbhexR3lTYDZjxqIcqW11rJxDQ6Ewk	是		令牌

名称	类型	是否必须	默认值	备注	其他信息
+	object []	非必须			**最小数量:** 0 **元素是否都不同:** true **最大数量:** 4 **item 类型:** object
id	integer	必须		用户id	**最大值:** 10000 **最小值:** 1
avatar	string	必须		头像	**枚举:** https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_1.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_2.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_3.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_4.png
nickname	string	必须		昵称	**枚举:** 黑马小妹,米朵妹妹,致远哥哥
gender	string	必须		性别 man woman	**枚举:** man,woman
age	integer	必须		年龄	**最大值:** 30 **最小值:** 20

2.6、MovementsController

```
package com.tanhua.server.vo;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

@Data
@NoArgsConstructor
@AllArgsConstructor
public class VisitorsVo {

    private Long id;
    private String avatar;
```

```
    private String nickname;
    private String gender;
    private Integer age;
    private String[] tags;
    private Integer fateValue;

}

```

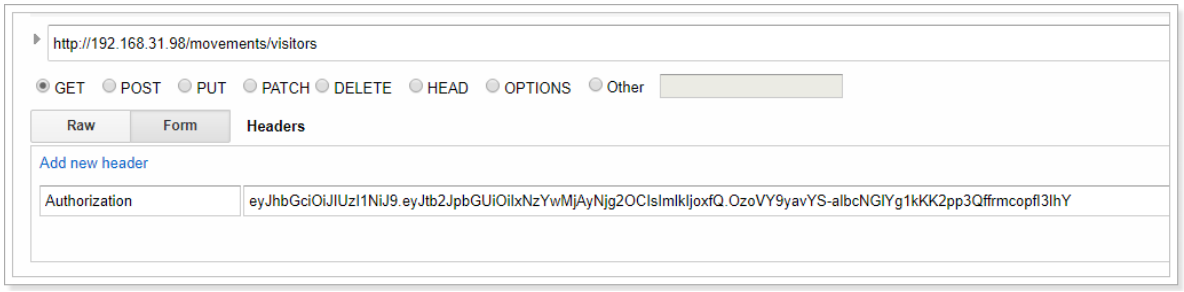
```
    /**
     * 谁看过我
     *
     * @return
     */
    @GetMapping("visitors")
    public ResponseEntity<List<VisitorsVo>> queryVisitorsList(){
        try {
            List<VisitorsVo> list =
this.movementsService.queryVisitorsList();
            return ResponseEntity.ok(list);
        } catch (Exception e) {
            e.printStackTrace();
        }
        return
ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

2.7、MovementsService

```
public List<VisitorsVo> queryVisitorsList() {
        User user = UserThreadLocal.get();
        String redisKey = "visitor_date_" + user.getId();

        // 如果redis中存在上次查询的时间，就按照这个时间之后查询，如果没有就查询前5个
        List<Visitors> visitors = null;
        String value = this.redisTemplate.opsForValue().get(redisKey);
        if(StringUtils.isEmpty(value)){
            visitors = this.visitorsApi.topVisitor(user.getId(), 5);
        }else{
            visitors = this.visitorsApi.topVisitor(user.getId(),
Long.valueOf(value));
        }

        if(CollectionUtils.isEmpty(visitors)){
            return Collections.emptyList();
        }

        List<Long> userIds = new ArrayList<>();
        for (Visitors visitor : visitors) {
            userIds.add(visitor.getVisitorUserId());
        }

        QueryWrapper<UserInfo> queryWrapper = new QueryWrapper<>();
        queryWrapper.in("user_id", userIds);
```

```
        List<UserInfo> userInfoList = this.userInfoService.queryList(queryWrapper);

        List<VisitorsVo> visitorsVoList = new ArrayList<>();

        for (Visitors visitor : visitors) {
            for (UserInfo userInfo : userInfoList) {
                if(visitor.getVisitorUserId().longValue() == userInfo.getUserId().longValue()){

                    VisitorsVo visitorsVo = new VisitorsVo();
                    visitorsVo.setAge(userInfo.getAge());
                    visitorsVo.setAvatar(userInfo.getLogo());

 visitorsVo.setGender(userInfo.getSex().name().toLowerCase());
                    visitorsVo.setId(userInfo.getUserId());
                    visitorsVo.setNickname(userInfo.getNickName());

 visitorsVo.setTags(StringUtils.split(userInfo.getTags(), ','));
                    visitorsVo.setFateValue(visitor.getScore().intValue());

                    visitorsVoList.add(visitorsVo);
                    break;
                }
            }
        }

        return visitorsVoList;
    }
```

2.8、测试



数据：

```
[{"id":20,"avatar":"https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/logo/12.jpg","nickname":"heima_20","gender":"man","age":44,"tags":["单身","本科","年龄相仿"],"fateValue":30},
{"id":19,"avatar":"https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/logo/4.jpg","nickname":"heima_19","gender":"woman","age":40,"tags":["单身","本科","年龄相仿"],"fateValue":76},
{"id":36,"avatar":"https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/logo/8.jpg","nickname":"heima_36","gender":"woman","age":37,"tags":["单身","本科","年龄相仿"],"fateValue":64},
{"id":33,"avatar":"https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/logo/18.jpg","nickname":"heima_33","gender":"man","age":49,"tags":["单身","本科","年龄相仿"],"fateValue":30},
{"id":12,"avatar":"https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/logo/18.jpg","nickname":"heima_12","gender":"man","age":23,"tags":["单身","本科","年龄相仿"],"fateValue":30}]
```


3、 佳人信息

首页显示的今日佳人，点击之后可以查看今日佳人的详情。

3.1、mock接口

地址： https://mock.boxuegu.com/project/164/interface/api/78008

返回数据

名称	类型	是否必须	默认值	备注	其他信息
id	integer	必须		编号	**最大值:** 10000 **最小值:** 1
avatar	string	必须		头像	**枚举:** https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_1.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_2.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_3.png,https://itcast-tanhua.oss-cn-shanghai.aliyuncs.com/images/tanhua/avatar_4.png
nickname	string	必须		昵称	**枚举:** 黑马小妹
gender	string	必须		性别 man woman	**枚举:** man
age	integer	必须		年龄	**最大值:** 25 **最小值:** 25
- tags	string []	必须		标签	**最小数量:** 1 **元素是否都不同:** true **最大数量:** 3 **item 类型:** string
		非必须			**枚举:** 单身,本科,年龄相仿
fateValue	integer	必须		缘分值	**最大值:** 100 **最小值:** 80

3.2、TodayBestController

```
    /**
     * 查询今日佳人详情
     *
     * @param userId
     * @return
     */
    @GetMapping("{id}/personalInfo")
    public ResponseEntity<TodayBest> queryTodayBest(@PathVariable("id")
Long userId) {
        try {
            TodayBest todayBest =
this.todayBestService.queryTodayBest(userId);
            return ResponseEntity.ok(todayBest);
        } catch (Exception e) {
            e.printStackTrace();
        }
        return
ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

3.3、TodayBestService

```
public TodayBest queryTodayBest(Long userId) {

    User user = UserThreadLocal.get();

    TodayBest todayBest = new TodayBest();
    //补全信息
    UserInfo userInfo = this.userInfoService.queryById(userId);
```

```
    todayBest.setId(userId);
    todayBest.setAge(userInfo.getAge());
    todayBest.setAvatar(userInfo.getLogo());
    todayBest.setGender(userInfo.getSex().name().toLowerCase());
    todayBest.setNickname(userInfo.getNickName());
    todayBest.setTags(StringUtils.split(userInfo.getTags(), ','));

    double score = this.recommendUserService.queryScore(userId,
user.getId());
    if(score == 0){
        score = 98; //默认分值
    }

    todayBest.setFateValue(Double.valueOf(score).longValue());

    return todayBest;
}
```

3.4、查询缘分值

3.4.1、recommendUserApi

```
/**
     * 查询推荐好友的缘分值
     *
     * @param userId
     * @param toUserId
     * @return
     */
    double queryScore(Long userId, Long toUserId);
```

3.4.2、RecommendUserApiImpl

```
@Override
public double queryScore(Long userId, Long toUserId) {
    Query query = Query.query(Criteria
                              .where("toUserId").is(toUserId)
                              .and("userId").is(userId));
    RecommendUser recommendUser = this.mongoTemplate.findOne(query,
RecommendUser.class);
    if (null == recommendUser) {
        return 0;
    }
    return recommendUser.getScore();
}
```

3.4.3、RecommendUserService

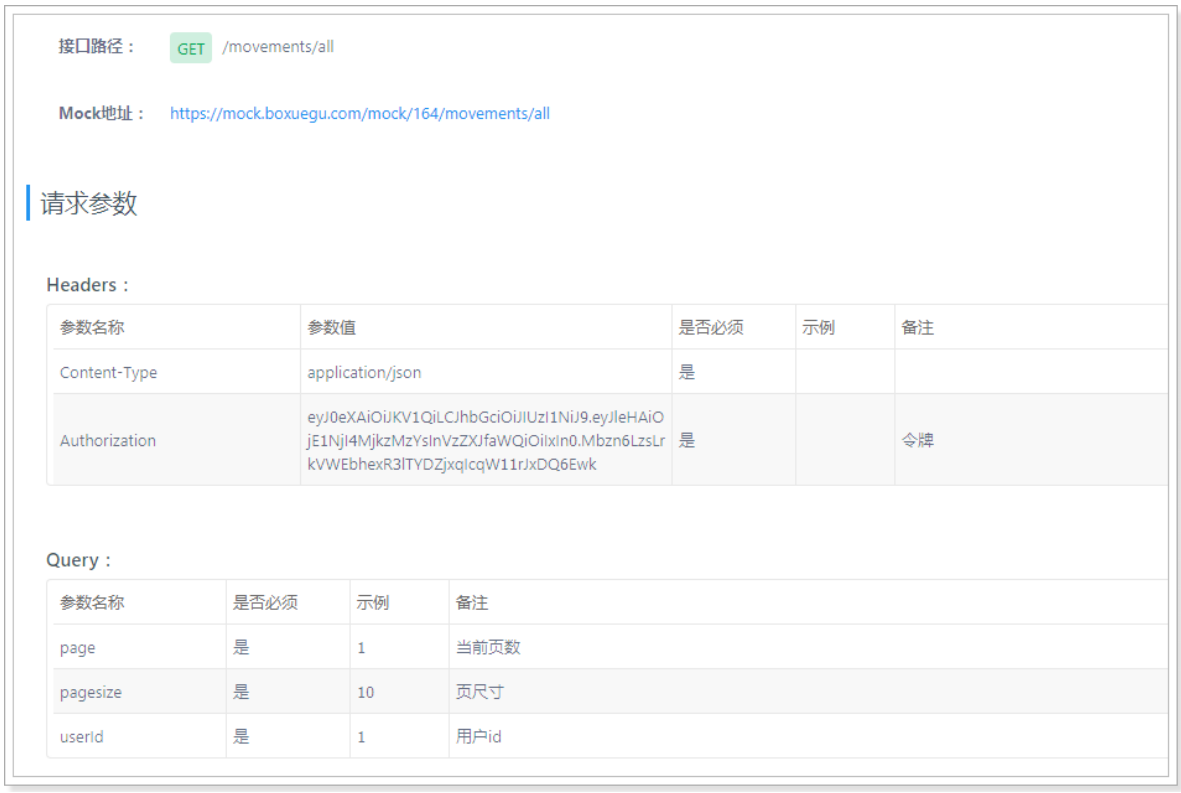
在server工程中完成。

```java
    /**
     * 查询推荐好友的缘分值
     *
     * @param userId
     * @param toUserId
     * @return
     */
    double queryScore(Long userId, Long toUserId) {
        return this.recommendUserApi.queryScore(userId, toUserId);
    }
```

3.5、查询自己相册

3.5.1、mock接口

地址：https://mock.boxuegu.com/project/164/interface/api/77938



接口路径： GET /movements/all

Mock地址： https://mock.boxuegu.com/mock/164/movements/all

请求参数

Headers：

参数名称	参数值	是否必须	示例	备注
Content-Type	application/json	是		
Authorization	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJleHAiOjE1NjI4MjkzMzYsInVzZXJfaWQiOiIxIn0.Mbzn6LzsLrkVWEbhexR3lTYDZjxqIcqW11rJxDQ6Ewk	是		令牌

Query：

参数名称	是否必须	示例	备注
page	是	1	当前页数
pagesize	是	10	页尺寸
userId	是	1	用户id

3.5.2、定义dubbo接口

```java
//QuanZiApi
/**
     * 查询相册表
     *
     * @param userId
     * @param page
     * @param pageSize
     * @return
     */
PageInfo<Publish> queryAlbumList(Long userId, Integer page, Integer pageSize);

```

3.5.3、dubbo接口实现

```
//QuanZiApiImpl
@Override
    public PageInfo<Publish> queryAlbumList(Long userId, Integer page, Integer pageSize) {
        PageInfo<Publish> pageInfo = new PageInfo<>();
        pageInfo.setPageNum(page);
        pageInfo.setPageSize(pageSize);
        pageInfo.setTotal(0); //不提供总数

        PageRequest pageRequest = PageRequest.of(page - 1, pageSize, Sort.by(Sort.Order.desc("created")));
        Query query = new Query().with(pageRequest);
        List<Album> albumList = this.mongoTemplate.find(query, Album.class, "quanzi_album_" + userId);

        if(CollectionUtils.isEmpty(albumList)){
            return pageInfo;
        }


        List<ObjectId> publishIds = new ArrayList<>();
        for (Album album : albumList) {
            publishIds.add(album.getPublishId());
        }

        //查询发布信息
        Query queryPublish = Query.query(Criteria.where("id").in(publishIds)).with(Sort.by(Sort.Order.desc("created")));
        List<Publish> publishList = this.mongoTemplate.find(queryPublish, Publish.class);

        pageInfo.setRecords(publishList);

        return pageInfo;
    }
```

3.5.3、MovementsController

```
    /**
     * 自己的所有动态
     *
     * @return
     */
    @GetMapping("all")
    public ResponseEntity<PageResult> queryAlbumList(@RequestParam(value = "page", defaultValue = "1") Integer page,
                                                     @RequestParam(value = "pagesize", defaultValue = "10") Integer pageSize,
                                                     @RequestParam(value = "userId") Long userId) {
        try {
            PageResult pageResult = this.movementsService.queryAlbumList(userId, page, pageSize);
            return ResponseEntity.ok(pageResult);
        } catch (Exception e) {
            e.printStackTrace();
```

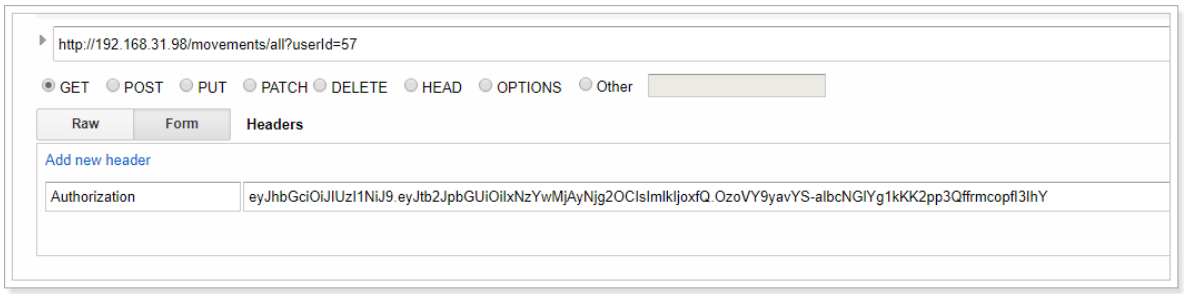
```
        }
        return
ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

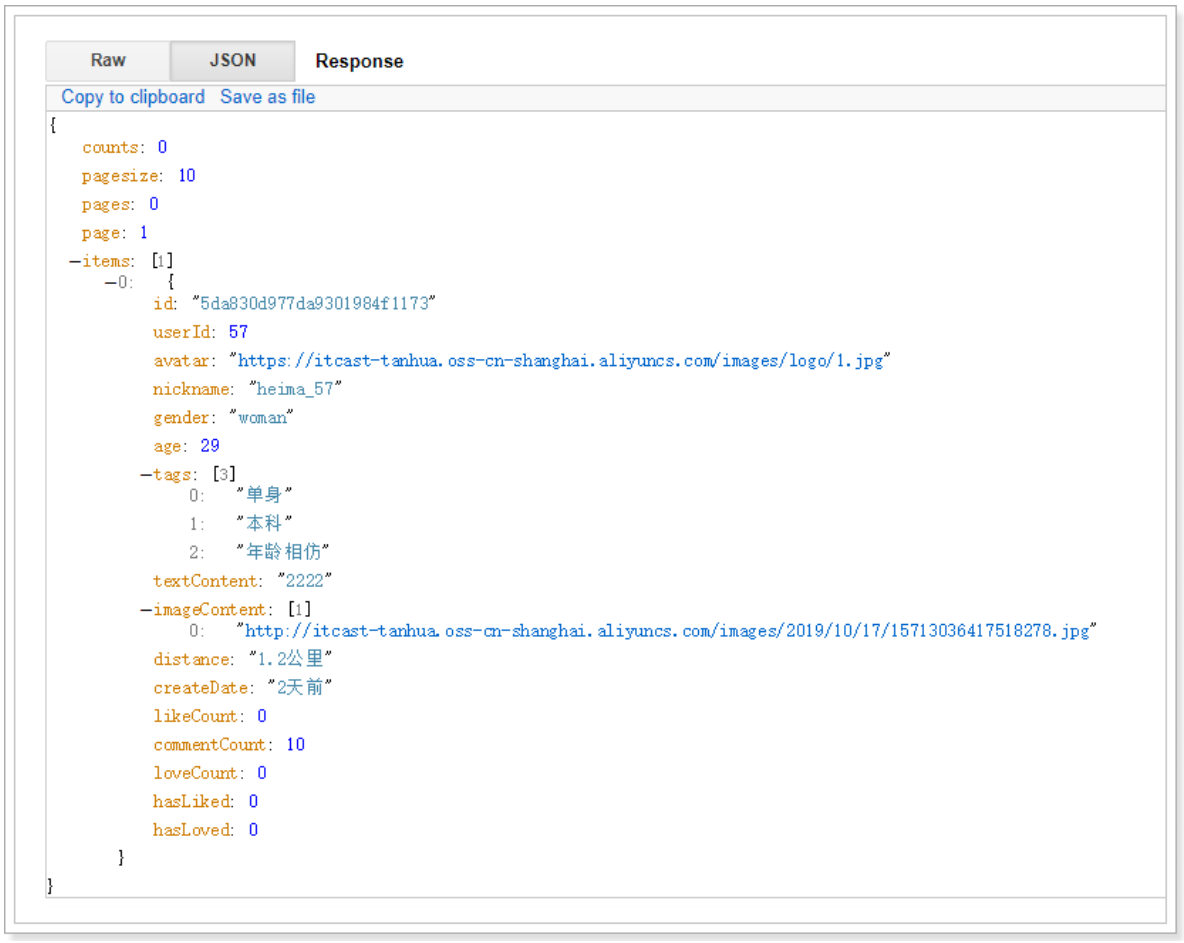
3.5.4、MovementsService

```
 public PageResult queryAlbumList(Long userId, Integer page, Integer
pageSize) {
        PageResult pageResult = new PageResult();
        pageResult.setPage(page);
        pageResult.setPagesize(pageSize);

        PageInfo<Publish> albumPageInfo =
this.quanZiApi.queryAlbumList(userId, page, pageSize);
        List<Publish> records = albumPageInfo.getRecords();

        if(CollectionUtils.isEmpty(records)){
            return pageResult;
        }

        List<Movements> movementsList = new ArrayList<>();
        for (Publish record : records) {
            Movements movements = new Movements();

            movements.setId(record.getId().toHexString());
            movements.setImageContent(record.getMedias().toArray(new
String[]{}));
            movements.setTextContent(record.getText());
            movements.setUserId(record.getUserId());
            movements.setCreateDate(RelativeDateFormat.format(new
Date(record.getCreated())));

            movementsList.add(movements);
        }

        List<Long> userIds = new ArrayList<>();
        for (Movements movements : movementsList) {
            if (!userIds.contains(movements.getUserId())) {
                userIds.add(movements.getUserId());
            }

        }

        QueryWrapper<UserInfo> queryWrapper = new QueryWrapper<>();
        queryWrapper.in("user_id", userIds);
        List<UserInfo> userInfos =
this.userInfoService.queryList(queryWrapper);
        for (Movements movements : movementsList) {
            for (UserInfo userInfo : userInfos) {
                if (movements.getUserId().longValue() ==
userInfo.getUserId().longValue()) {
                    this.fillValueToMovements(movements, userInfo);
                    break;
                }
            }
        }
```

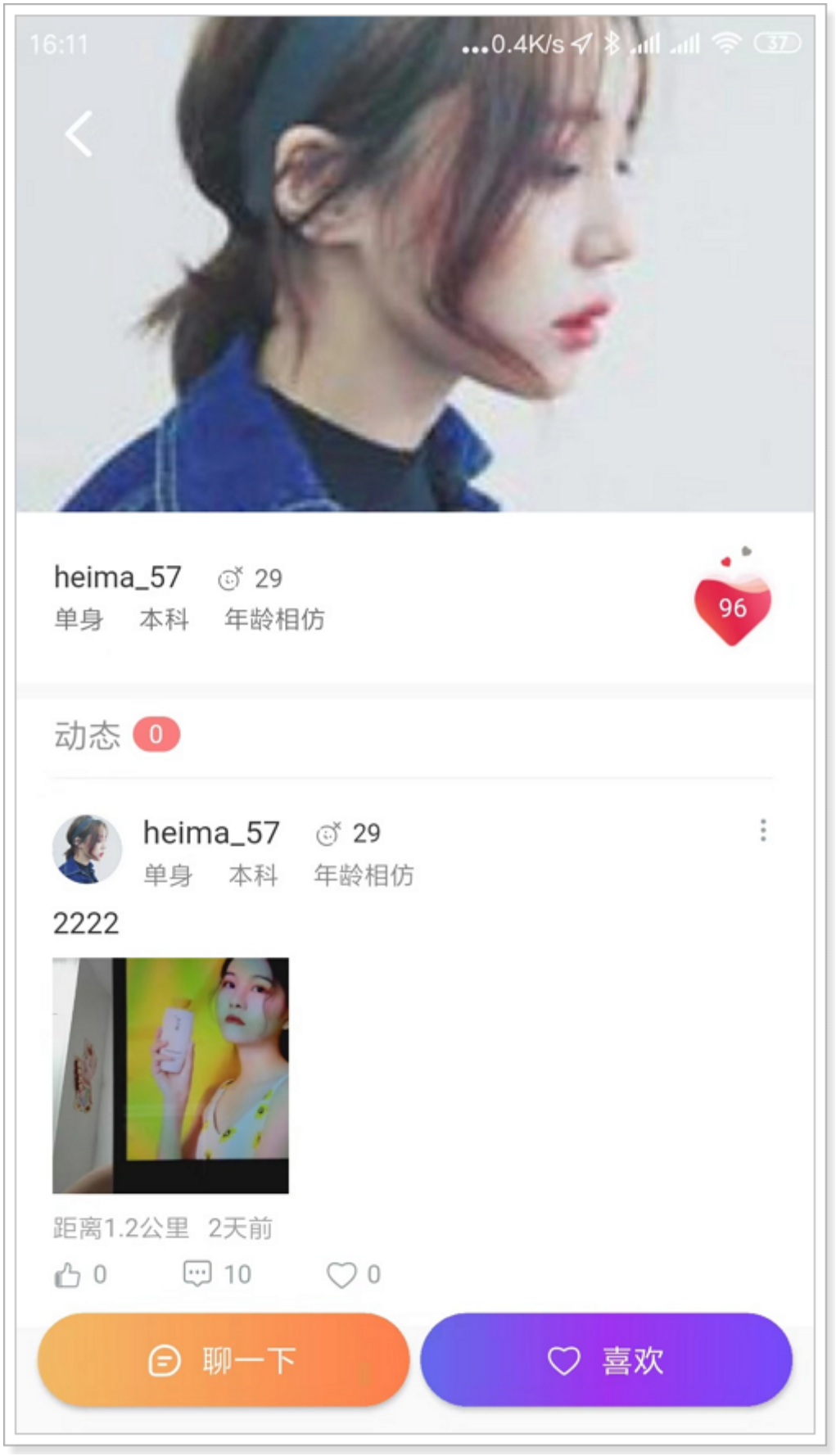
```
45
46          pageResult.setItems(movementsList);
47
48          return pageResult;
49      }
```

3.5.5、测试





3.5、整合测试



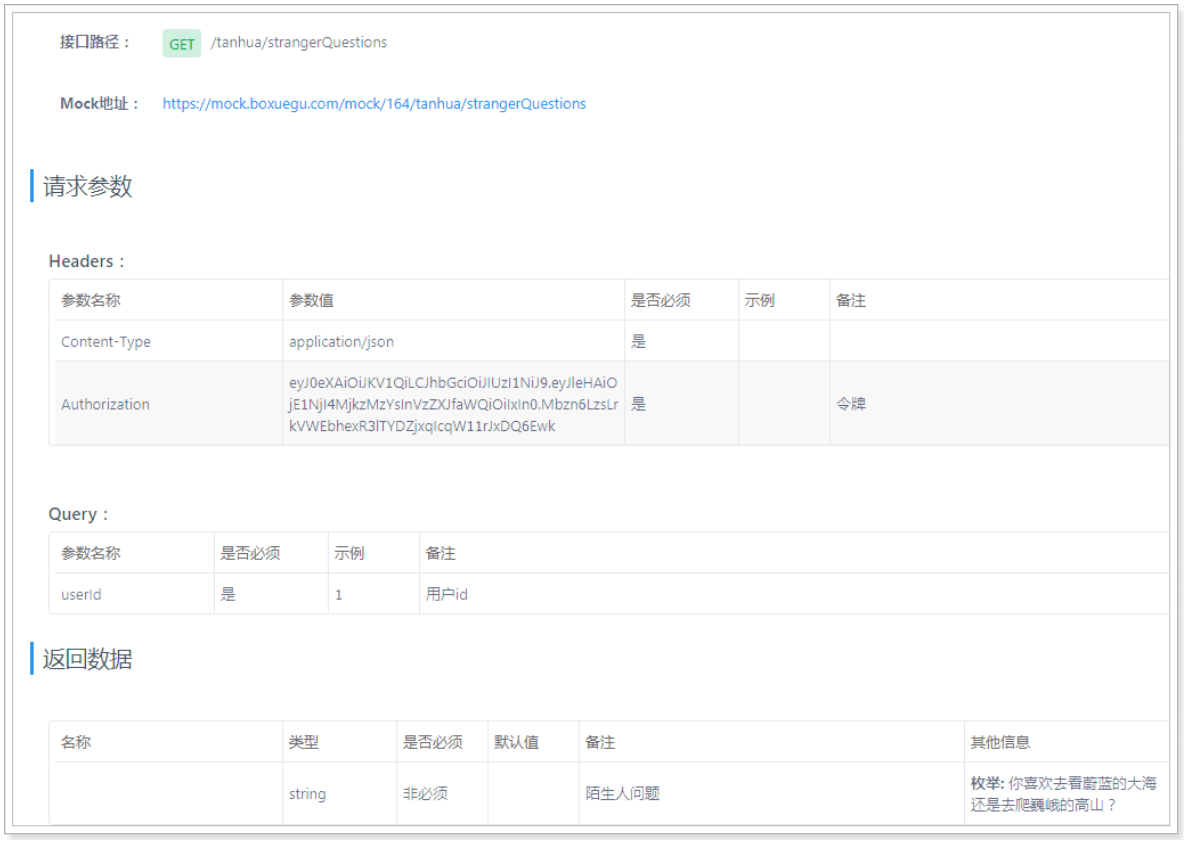
4、聊一下

聊一下功能包含了2个接口：

- 查询对方设置的问题
- 提交答案

- 提交答案后要发送消息给对方

mock接口： https://mock.boxuegu.com/project/164/interface/api/77973



接口路径： GET /tanhua/strangerQuestions

Mock地址： https://mock.boxuegu.com/mock/164/tanhua/strangerQuestions

请求参数

Headers：

参数名称	参数值	是否必须	示例	备注
Content-Type	application/json	是		
Authorization	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJleHAiOjE1NjI4MjkzMzYsInVzZXJfaWQiOiIxIn0.Mbzn6LzsLrkVWEbhexR3lTYDZjxqIcqW11rJxDQ6Ewk	是		令牌

Query：

参数名称	是否必须	示例	备注
userId	是	1	用户id

返回数据

名称	类型	是否必须	默认值	备注	其他信息
	string	非必须		陌生人问题	枚举: 你喜欢去看蔚蓝的大海还是去爬巍峨的高山？

4.1、表结构

```sql
CREATE TABLE `tb_question` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT,
  `user_id` bigint(20) DEFAULT NULL COMMENT '用户id',
  `txt` varchar(200) DEFAULT NULL COMMENT '问题内容',
  `created` datetime DEFAULT NULL,
  `updated` datetime DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `user_id` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- 插入数据
INSERT INTO `tb_question` (`id`, `user_id`, `txt`, `created`, `updated`) VALUES ('1', '1', '你喜欢去看蔚蓝的大海还是去爬巍峨的高山？', '2019-10-20 17:25:58', '2019-10-20 17:26:01');
INSERT INTO `tb_question` (`id`, `user_id`, `txt`, `created`, `updated`) VALUES ('2', '57', '你喜欢什么颜色？', '2019-10-20 23:17:39', '2019-10-20 23:17:41');

```

4.2、编写Question

```java
package com.tanhua.server.pojo;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

```

```
6
7  @Data
8  @NoArgsConstructor
9  @AllArgsConstructor
10 public class Question extends BasePojo {
11
12     private Long id;
13     private Long userId;
14     //问题内容
15     private String txt;
16
17 }
18
```

4.3、QuestionMapper

```
1  package com.tanhua.server.mapper;
2
3  import com.baomidou.mybatisplus.core.mapper.BaseMapper;
4  import com.tanhua.server.pojo.Question;
5
6  public interface QuestionMapper extends BaseMapper<Question> {
7
8  }
9
```

4.4、QuestionService

```
1  package com.tanhua.server.service;
2
3  import com.baomidou.mybatisplus.core.conditions.query.QueryWrapper;
4  import com.tanhua.server.mapper.QuestionMapper;
5  import com.tanhua.server.pojo.Question;
6  import org.springframework.beans.factory.annotation.Autowired;
7  import org.springframework.stereotype.Service;
8
9  @Service
10 public class QuestionService {
11
12     @Autowired
13     private QuestionMapper questionMapper;
14
15
16     public Question queryQuestion(Long userId) {
17         QueryWrapper queryWrapper = new QueryWrapper();
18         queryWrapper.eq("user_id", userId);
19         return this.questionMapper.selectOne(queryWrapper);
20     }
21 }
22
```

4.5、查询陌生人问题

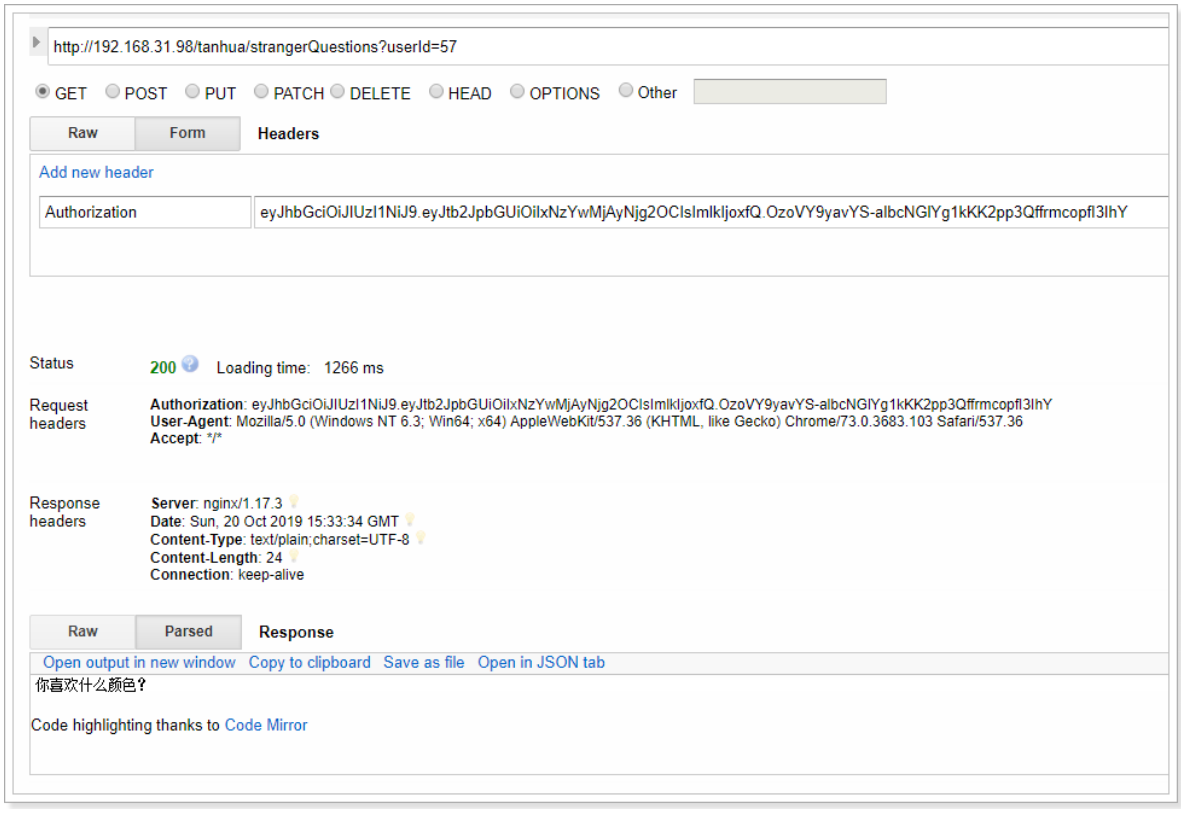
4.5.1、TodayBestController

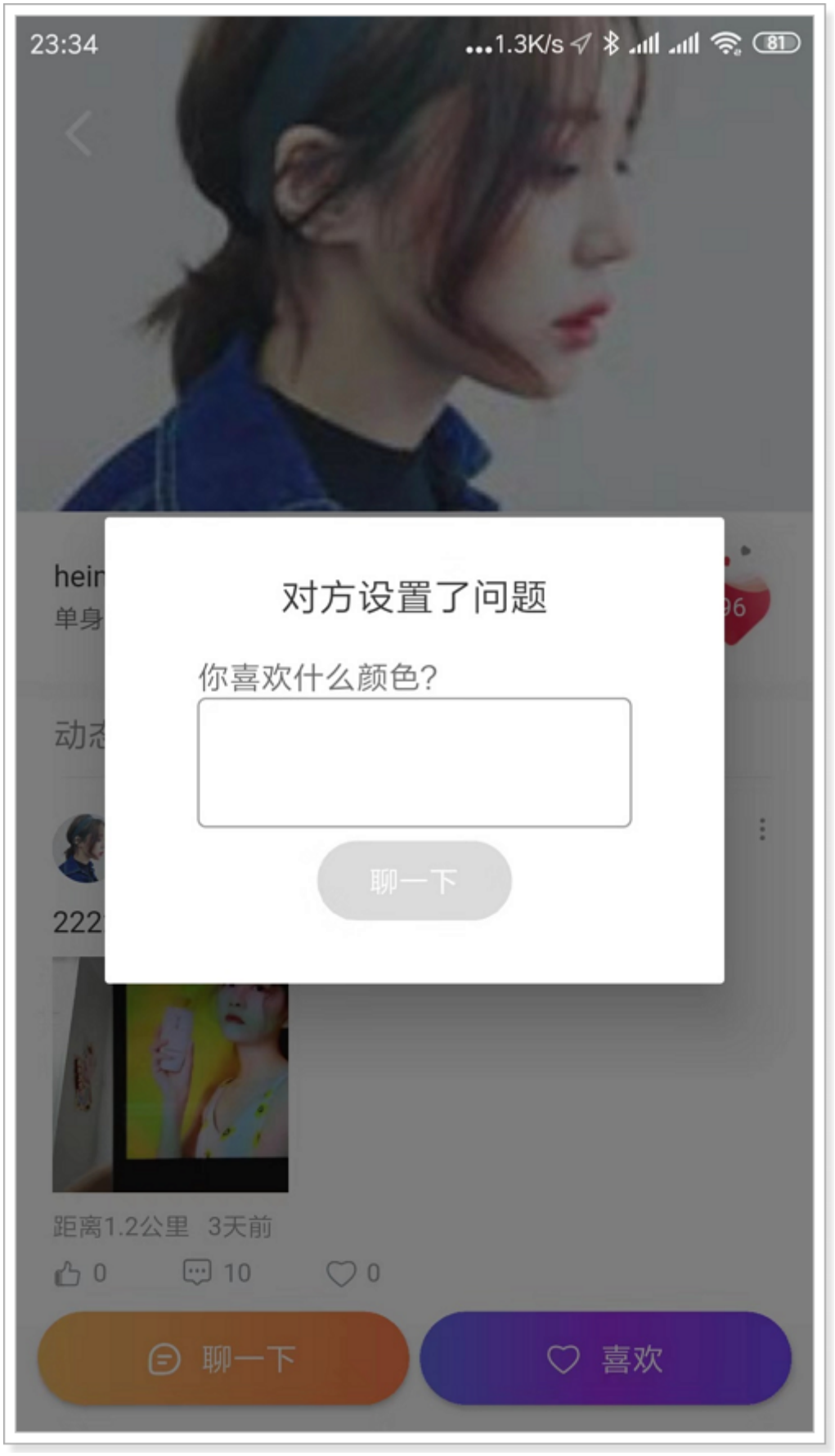
```java
    /**
     * 查询陌生人问题
     *
     * @param userId
     * @return
     */
    @GetMapping("strangerQuestions")
    public ResponseEntity<String> queryQuestion(@RequestParam("userId")
Long userId) {
        try {
            String question = this.todayBestService.queryQuestion(userId);
            return ResponseEntity.ok(question);
        } catch (Exception e) {
            e.printStackTrace();
        }
        return
ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

4.5.2、TodayBestService

```java
    public String queryQuestion(Long userId) {
        Question question = this.questionService.queryQuestion(userId);
        if (null != question) {
            return question.getTxt();
        }
        return "";
    }
```

4.5.3、测试





4.6、回复陌生人问题

4.6.1、mock接口

接口路径： POST /tanhua/strangerQuestions

Mock地址： https://mock.boxuegu.com/mock/164/tanhua/strangerQuestions

请求参数

Headers：

参数名称	参数值	是否必须	示例	备注
Content-Type	application/json	是		
Authorization	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJleHAiOjE1NjI4MjkzMzYsInVzZXJfaWQiOiIxIn0.Mbzn6LzsLrkVWEbhexR3lTYDZjxqIcqW11rJxDQ6Ewk	是		令牌

Body:

名称	类型	是否必须	默认值	备注	其他信息
userId	integer	必须		用户id	
reply	string	必须		回复	

4.6.2、发送消息给环信

在sso系统中完成。

4.6.2.1、HuanXinController

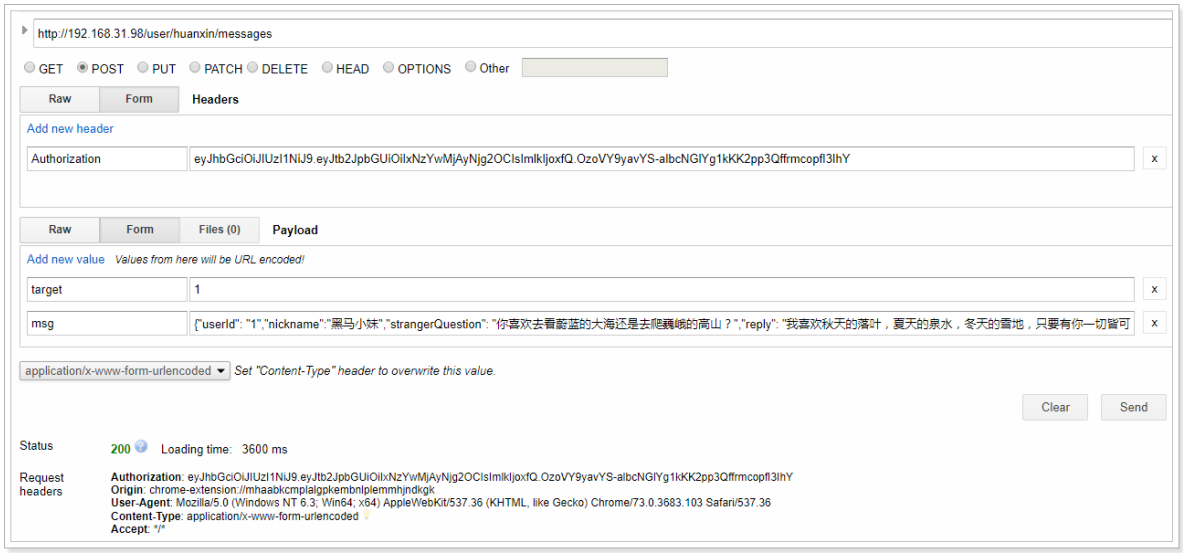
```
/**
     * 发送系统消息
     *
     * @param target
     * @param msg
     * @param type
     * @return
     */
    @PostMapping("messages")
    public ResponseEntity<Void> sendMsg(@RequestParam("target") String target,
                                        @RequestParam("msg") String msg,
                                        @RequestParam(value = "type", defaultValue = "txt") String type) {
        try {
            boolean result = this.huanXinService.sendMsg(target, type, msg);
            if (result) {
                return ResponseEntity.ok(null);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }

        return ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

4.6.2.2、HuanXinService

```
public boolean sendMsg(String target, String type, String msg) {
        String targetUrl = this.huanXinConfig.getUrl()
```

```
                + this.huanXinConfig.getOrgName() + "/"
                + this.huanXinConfig.getAppName() + "/messages";
        try {
            String token = this.huanXinTokenService.getToken();
            // 请求头
            HttpHeaders headers = new HttpHeaders();
            headers.add("Authorization", "Bearer " + token);

            Map<String, Object> paramMap = new HashMap<>();
            paramMap.put("target_type", "users");
            paramMap.put("target", Arrays.asList(target));

            Map<String, Object> msgMap = new HashMap<>();
            msgMap.put("type", type);
            msgMap.put("msg", msg);

            paramMap.put("msg", msgMap);

            //表示消息发送者;无此字段Server会默认设置为“from”:“admin”，有from字段但值为空串(“”)时请求失败
//            msgMap.put("from", type);

            HttpEntity<String> httpEntity = new HttpEntity<>(MAPPER.writeValueAsString(paramMap), headers);
            ResponseEntity<String> responseEntity = this.restTemplate.postForEntity(targetUrl, httpEntity, String.class);

            return responseEntity.getStatusCodeValue() == 200;
        } catch (Exception e) {
            e.printStackTrace();
        }
        return false;
    }
```

4.6.2.3、测试



4.6.3、实现服务接口

4.6.3.1、TodayBestController

```
    /**
```

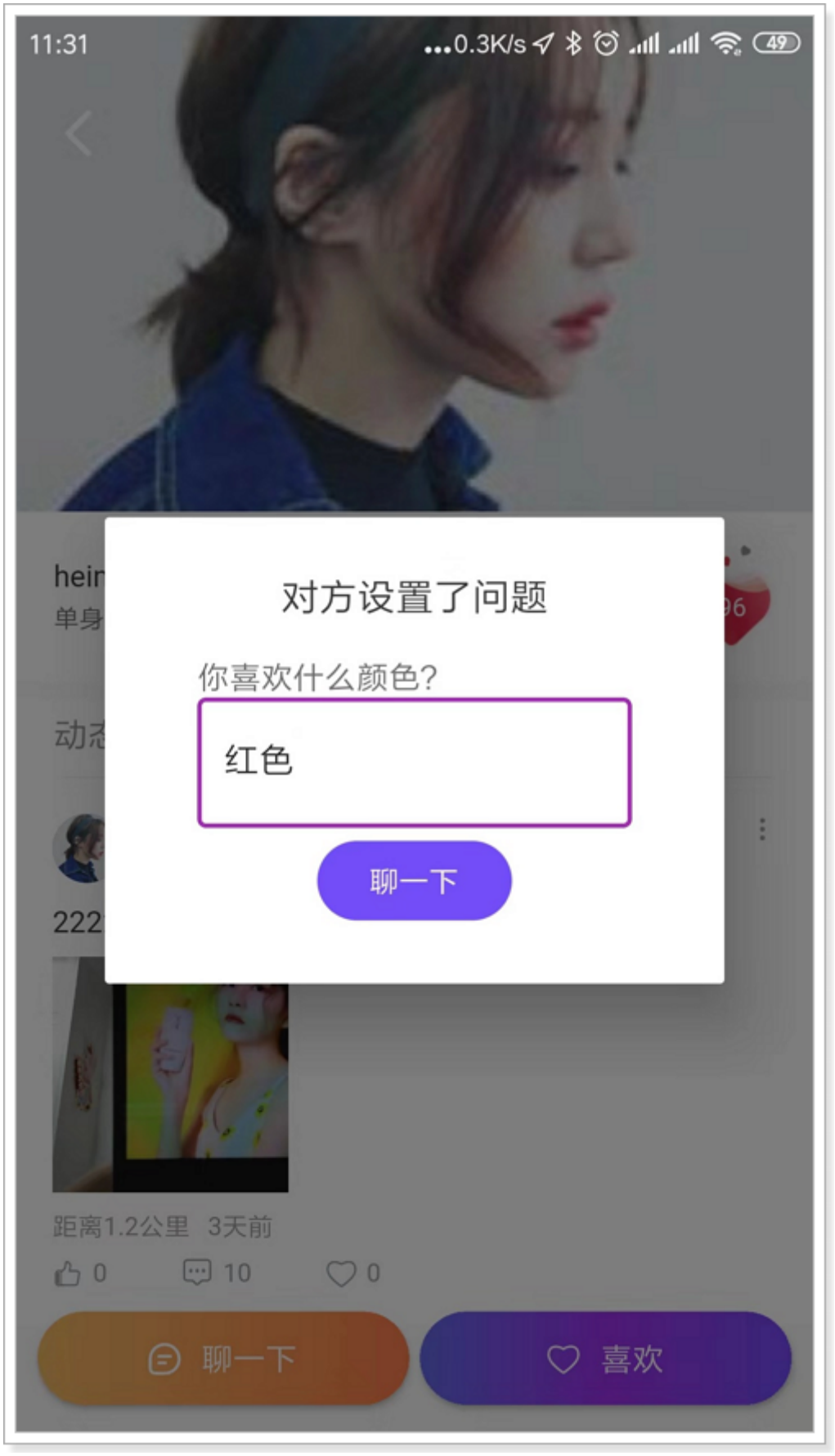
```
     * 回复陌生人问题
     *
     * @return
     */
    @PostMapping("strangerQuestions")
    public ResponseEntity<Void> replyQuestion(@RequestBody Map<String,
Object> param) {
        try {
            Long userId = Long.valueOf(param.get("userId").toString());
            String reply = param.get("reply").toString();
            Boolean result = this.todayBestService.replyQuestion(userId,
reply);
            if (result) {
                return ResponseEntity.ok(null);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
        return
ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
```

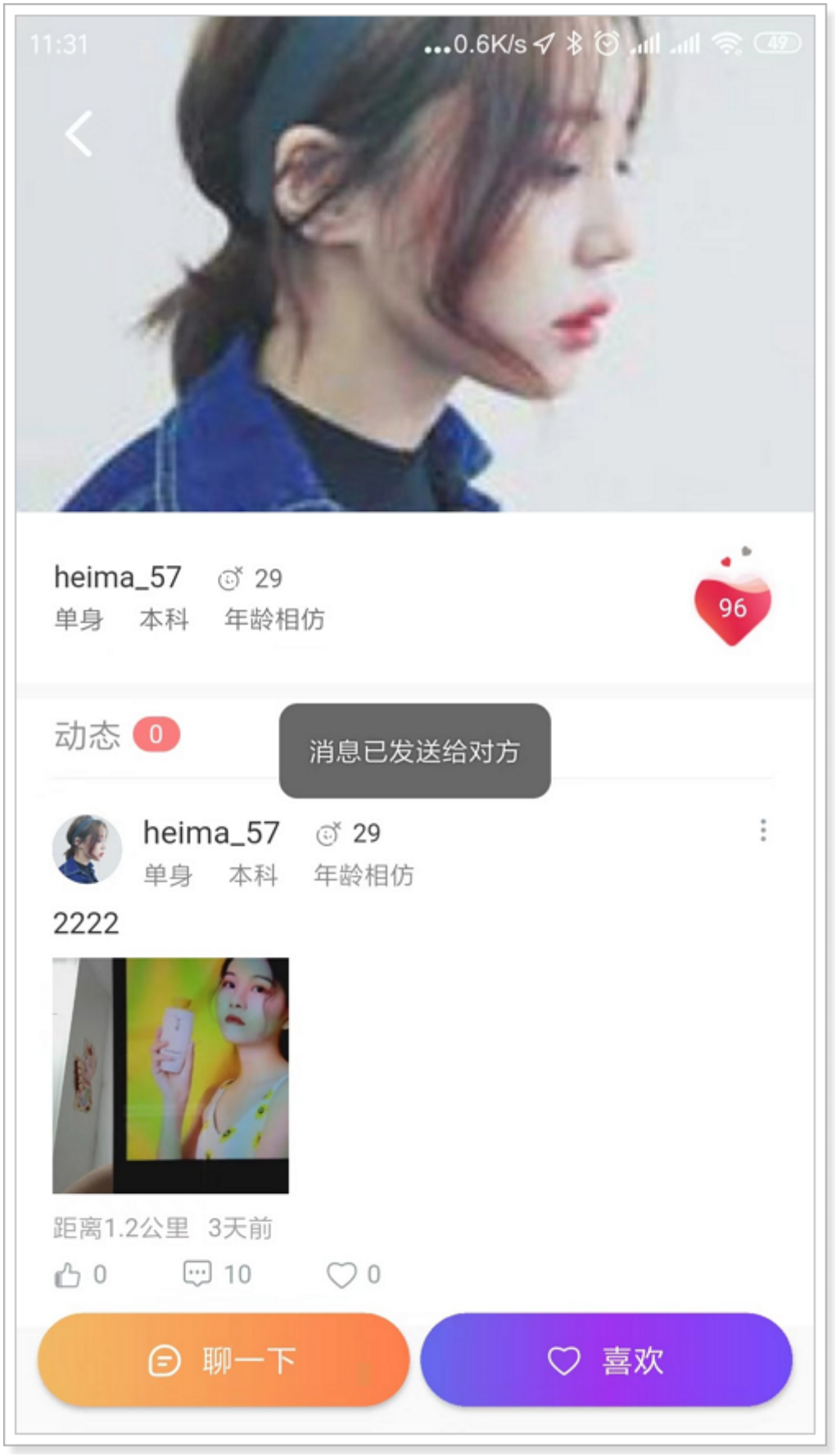
4.6.3.2、TodayBestService

```
/**
     * 回复陌生人问题，发送消息给对方
     *
     * @param userId
     * @param reply
     * @return
     */
    public Boolean replyQuestion(Long userId, String reply) {
        User user = UserThreadLocal.get();
        UserInfo userInfo = this.userInfoService.queryById(user.getId());

        //构建消息内容
        Map<String, Object> msg = new HashMap<>();
        msg.put("userId", user.getId().toString());
        msg.put("nickname", this.queryQuestion(userId));
        msg.put("strangerQuestion", userInfo.getNickName());
        msg.put("reply", reply);

        try {
            String msgStr = MAPPER.writeValueAsString(msg);

            String targetUrl = this.url + "/user/huanxin/messages";

            HttpHeaders headers = new HttpHeaders();
            headers.setContentType(MediaType.APPLICATION_FORM_URLENCODED);

            MultiValueMap<String, String> params = new
LinkedMultiValueMap<>();
            params.add("target", userId.toString());
            params.add("msg", msgStr);

            HttpEntity<MultiValueMap<String, String>> httpEntity = new
HttpEntity<>(params, headers);
```

```
32
33              ResponseEntity<Void> responseEntity =
this.restTemplate.postForEntity(targetUrl, httpEntity, Void.class);
34
35              return responseEntity.getStatusCodeValue() == 200;
36          } catch (Exception e) {
37              e.printStackTrace();
38          }
39
40
41          return false;
42      }
```

4.6.4、测试


11:31
0.3K/s
对方设置了问题
你喜欢什么颜色?
红色
聊一下
距离1.2公里 3天前
0
10
0
聊一下
喜欢



5、地理位置

客户端检测用户的地理位置，当变化大于500米时或每隔5分钟，向服务端发送地理位置。

6.1、定义pojo

```java
package com.tanhua.dubbo.server.pojo;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
import org.bson.types.ObjectId;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.geo.GeoJsonPoint;
import org.springframework.data.mongodb.core.index.CompoundIndex;
import org.springframework.data.mongodb.core.index.Indexed;
import org.springframework.data.mongodb.core.mapping.Document;

@Data
@NoArgsConstructor
@AllArgsConstructor
@Document(collection = "user_location")
@CompoundIndex(name = "location_index", def = "{'location': '2dsphere'}")
public class UserLocation implements java.io.Serializable{

    private static final long serialVersionUID = 4508868382007529970L;

    @Id
    private ObjectId id;
    @Indexed
    private Long userId; //用户id
    private GeoJsonPoint location; //x:经度 y:纬度
    private String address; //位置描述
    private Long created; //创建时间
    private Long updated; //更新时间
    private Long lastUpdated; //上次更新时间

}

```

6.2、定义dubbo接口

```java
package com.tanhua.dubbo.server.api;

public interface UserLocationApi {

    /**
     * 更新用户地理位置
     *
     * @return
     */
    String updateUserLocation(Long userId, Double longitude, Double latitude, String address);

}

```

6.3、编写实现

```java
package com.tanhua.dubbo.server.api;

import com.alibaba.dubbo.config.annotation.Service;
```

```java
import com.tanhua.dubbo.server.pojo.UserLocation;
import com.tanhua.dubbo.server.vo.UserLocationVo;
import org.bson.types.ObjectId;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.mongodb.core.MongoTemplate;
import org.springframework.data.mongodb.core.geo.GeoJsonPoint;
import org.springframework.data.mongodb.core.query.Criteria;
import org.springframework.data.mongodb.core.query.Query;
import org.springframework.data.mongodb.core.query.Update;

@Service(version = "1.0.0")
public class UserLocationApiImpl implements UserLocationApi {

    @Autowired
    private MongoTemplate mongoTemplate;

    @Override
    public String updateUserLocation(Long userId, Double longitude, Double latitude, String address) {

        UserLocation userLocation = new UserLocation();
        userLocation.setAddress(address);
        userLocation.setLocation(new GeoJsonPoint(longitude, latitude));
        userLocation.setUserId(userId);

        Query query = Query.query(Criteria.where("userId").is(userLocation.getUserId()));
        UserLocation ul = this.mongoTemplate.findOne(query, UserLocation.class);
        if (ul == null) {
            //新增
            userLocation.setId(ObjectId.get());
            userLocation.setCreated(System.currentTimeMillis());
            userLocation.setUpdated(userLocation.getCreated());
            userLocation.setLastUpdated(userLocation.getCreated());

            this.mongoTemplate.save(userLocation);

            return userLocation.getId().toHexString();
        } else {
            //更新
            Update update = Update
                    .update("location", userLocation.getLocation())
                    .set("updated", System.currentTimeMillis())
                    .set("lastUpdated", ul.getUpdated());
            this.mongoTemplate.updateFirst(query, update, UserLocation.class);
        }

        return ul.getId().toHexString();
    }

}

```

6.4、mock接口

接口路径： POST /baidu/location

Mock地址： https://mock.boxuegu.com/mock/164/baidu/location

请求参数

Headers：

参数名称	参数值	是否必须	示例	备注
Content-Type	application/json	是		

Body:

名称	类型	是否必须	默认值	备注	其他信息
latitude	number	必须		纬度	
longitude	number	必须		经度	
addrStr	string	必须		位置描述	

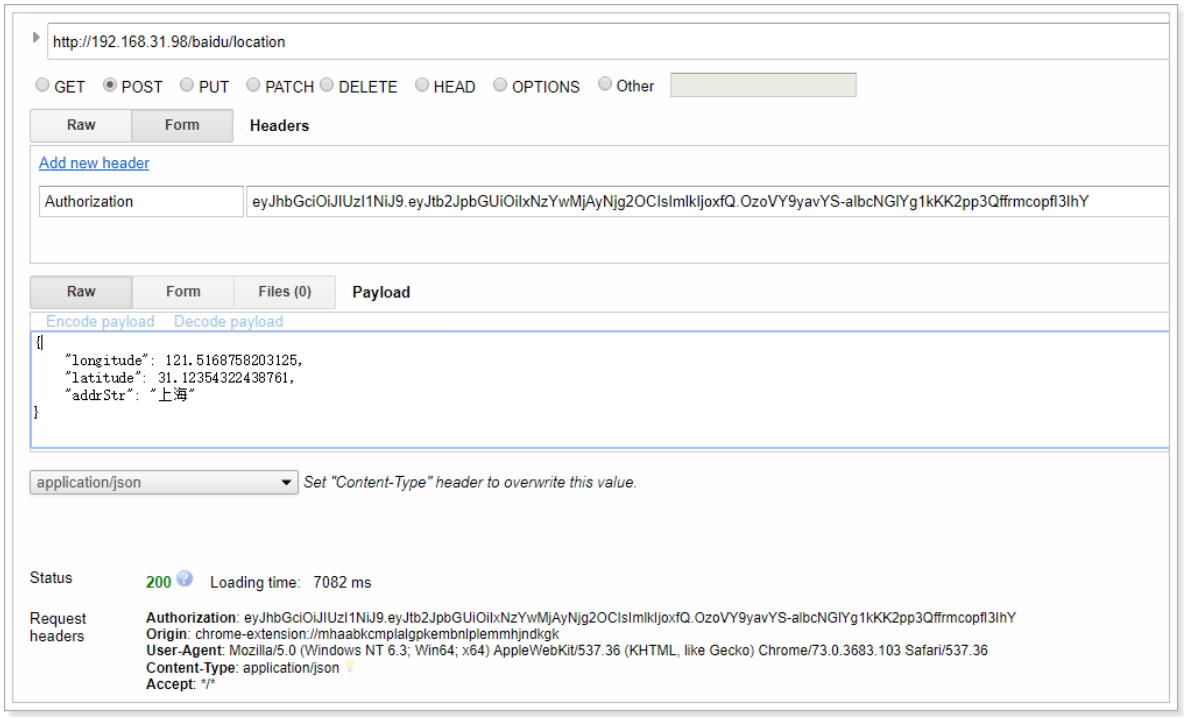
6.5、实现服务接口

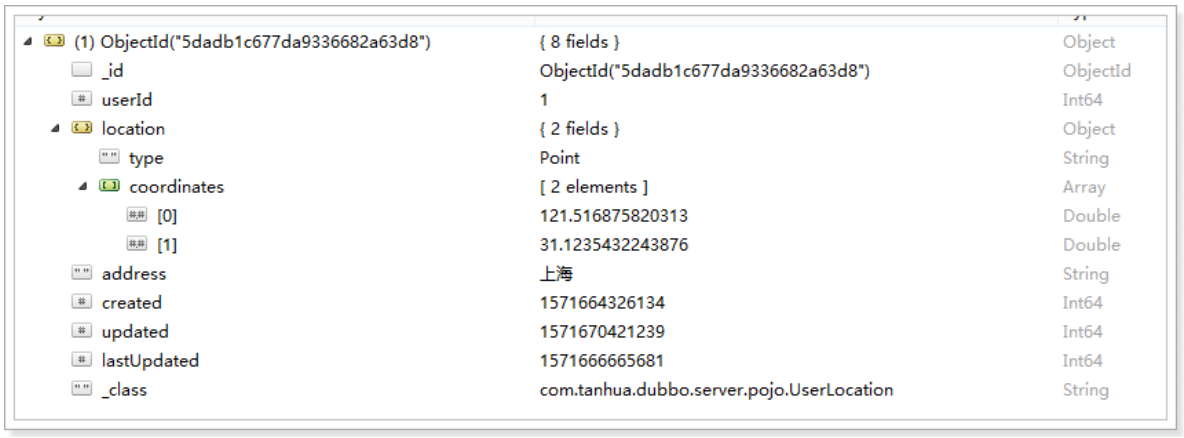
```
1  package com.tanhua.server.controller;
2
3  import com.tanhua.dubbo.server.pojo.UserLocation;
4  import com.tanhua.dubbo.server.vo.UserLocationVo;
5  import com.tanhua.server.service.BaiduService;
6  import org.springframework.beans.factory.annotation.Autowired;
7  import org.springframework.http.HttpStatus;
8  import org.springframework.http.ResponseEntity;
9  import org.springframework.web.bind.annotation.*;
10
11 import java.util.Map;
12
13 @RestController
14 @RequestMapping("baidu")
15 public class BaiduController {
16
17     @Autowired
18     private BaiduService baiduService;
19
20     /**
21      * 更新位置
22      *
23      * @param param
24      * @return
25      */
26     @PostMapping("location")
27     public ResponseEntity<Void> updateLocation(@RequestBody Map<String,
   Object> param) {
28         try {
29             Double longitude =
   Double.valueOf(param.get("longitude").toString());
30             Double latitude =
   Double.valueOf(param.get("latitude").toString());
31             String address = param.get("addrStr").toString();
32
```

```
            Boolean bool = this.baiduService.updateLocation(longitude, latitude, address);
            if (bool) {
                return ResponseEntity.ok(null);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }

        return ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
}

```

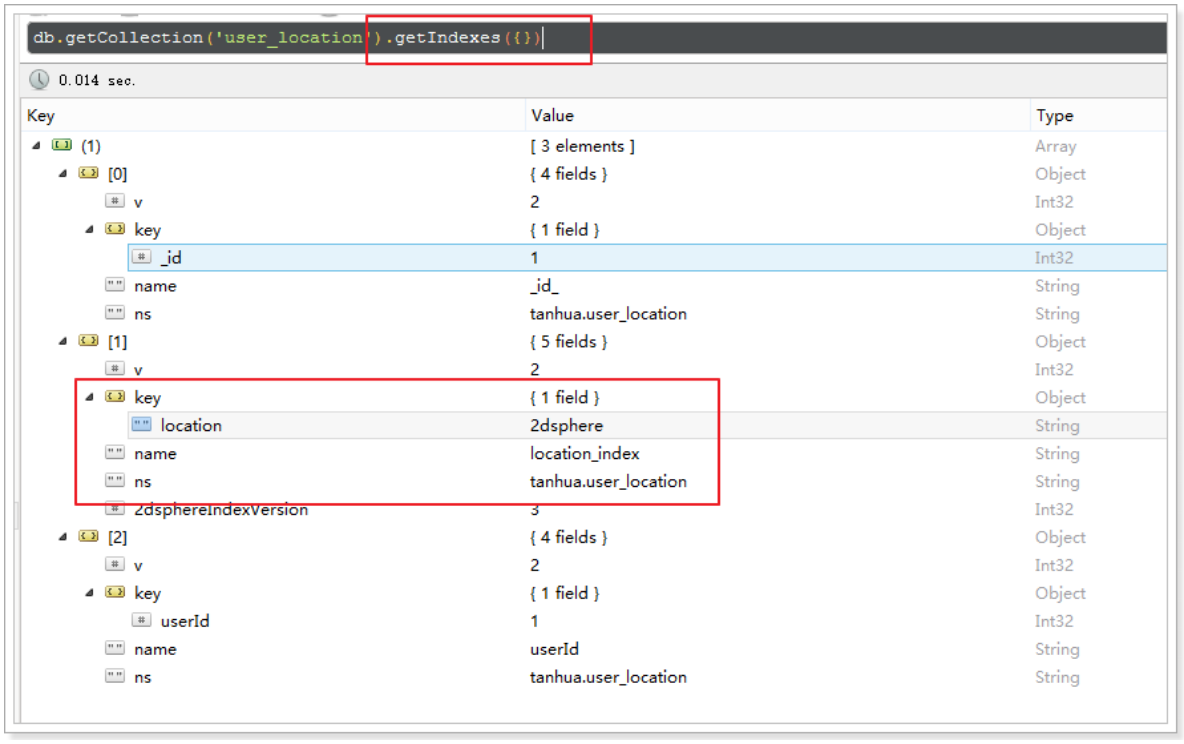
```
package com.tanhua.server.service;

import com.alibaba.dubbo.config.annotation.Reference;
import com.tanhua.dubbo.server.api.UserLocationApi;
import com.tanhua.dubbo.server.pojo.UserLocation;
import com.tanhua.server.pojo.User;
import com.tanhua.server.utils.UserThreadLocal;
import org.springframework.data.mongodb.core.geo.GeoJsonPoint;
import org.springframework.stereotype.Service;

@Service
public class BaiduService {

    @Reference(version = "1.0.0")
    private UserLocationApi userLocationApi;

    public Boolean updateLocation(Double longitude, Double latitude, String address) {
        try {
            User user = UserThreadLocal.get();
            this.userLocationApi.updateUserLocation(user.getId(), longitude, latitude, address);
            return true;
        } catch (Exception e) {
            e.printStackTrace();
        }
        return false;
    }

}

```

6.6、测试


http://192.168.31.98/baidu/location
GET POST PUT PATCH DELETE HEAD OPTIONS Other
Raw Form Headers
Add new header
Authorization
eyJhbGciOiJIUzI1NiJ9.eyJtb2JpbGUiOilxNzYwMjAyNjg2OCIsImlkIjoxfQ.OzoVY9yavYS-albcNGlYg1kKK2pp3Qffrmcopfl3IhY
Raw Form Files (0) Payload
Encode payload Decode payload
{
"longitude": 121.5168758203125,
"latitude": 31.12354322438761,
"addrStr": "上海"
}
application/json
Set "Content-Type" header to overwrite this value.
Status
200
Loading time: 7082 ms
Request headers
Authorization: eyJhbGciOiJIUzI1NiJ9.eyJtb2JpbGUiOilxNzYwMjAyNjg2OCIsImlkIjoxfQ.OzoVY9yavYS-albcNGlYg1kKK2pp3Qffrmcopfl3IhY
Origin: chrome-extension://mhaabkcmplalgpkembnlplemmhjndkgk
User-Agent: Mozilla/5.0 (Windows NT 6.3; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/73.0.3683.103 Safari/537.36
Content-Type: application/json
Accept: */*


(1) ObjectId("5dadb1c677da9336682a63d8") { 8 fields } Object
_id ObjectId("5dadb1c677da9336682a63d8") ObjectId
userId 1 Int64
location { 2 fields } Object
type Point String
coordinates [2 elements] Array
[0] 121.516875820313 Double
[1] 31.1235432243876 Double
address 上海 String
created 1571664326134 Int64
updated 1571670421239 Int64
lastUpdated 1571666665681 Int64
_class com.tanhua.dubbo.server.pojo.UserLocation String

查看索引：


db.getCollection('user_location').getIndexes({})
0.014 sec.
Key Value Type
(1) [3 elements] Array
[0] { 4 fields } Object
v 2 Int32
key { 1 field } Object
_id 1 Int32
name _id_ String
ns tanhua.user_location String
[1] { 5 fields } Object
v 2 Int32
key { 1 field } Object
location 2dsphere String
name location_index String
ns tanhua.user_location String
2dsphereIndexVersion 3 Int32
[2] { 4 fields } Object
v 2 Int32
key { 1 field } Object
userId 1 Int32
name userId String
ns tanhua.user_location String