雪糕群整体框架及业务逻辑整理：

登录：

—LoginAc：gif 、 检查版本

—LoginPhoneAc：手机号登录 /message

—ProtocolActivity：用户协议，webView加载html

—LoginCodeAc：验证页面

  ——验证码：POST

     http://120.136.175.13:3000/message

     body:{"areacode":"86","phonenumber":"18552012282"}

     返回：success

  ——登录 POST

     http://120.136.175.13:3000/login

     body:{"register":"1a0018970a9270acf76","phonenumber":"18552012282","code":"5275"}

     返回：

body: {
    "id": 9960,
    "nickname": 9960,
    "avatar": "-1",
    "birthday": null,
    "phonenumber": "18552012282",
    "sex": 1,
    "professional": "-1",
    "address": "-1",
    "isdel": 1,
    "status": 1,
    "createtime": "1502086339342",
    "lastlogintime": "1502275034811",
    "lastestlogintime": "1502344008381",
    "tag": 0,
    "follow": null,
    "token": "a3299cc07d9211e784a54743cc19471b",
    "jwt":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6OTk2MCwiYXZhdGFyIjoiLTEiLCJua
WNrbmFtZSI6OTk2MH0.O2u-BvkjFsY1zx04llyeczucFCuJblKStsb9EOfg1uQ"
}

     登录请求成功开始动画，动画结束跳转MainTestAc

      （Activity跳转采用扩散动画transitionhelper）

首页：

—MainTestAc：布局整体SlideMenu

——获取头条，即明星评论 GET

http://120.136.175.13:3000/commentszhen

返回：

```
body: [
    {
        "id": 3324,
        "text": "-1",
        "link":
"0c9a302301aa9e0217d0b560cb11976720fbc485470fcaa7908a089e591ee9f2.mp3",
        "likelist": "9958",
        "createtime": "1502275298009",
        "isreply": 1,
        "datatype": 2,
        "replyid": "-1",
        "replyto": "-1",
        "thumbnail": "-1",
        "musiclength": "00:04",
        "isdel": 1,
        "ataillist": "-1",
        "creater": "-5",
        "createrinfo": {
            "id": -5,
            "nickname": "上善若水",
            "avatar":
"d1547968220c833d32eca0d3f62b0e677718ee7e253b0aeaaf729ab9b629855e"
        },
        "atailusers": [

        ]
    }
]
```

返回成功后，获取郑信息 / 置顶评论

——获取郑爽信息：昵称与头像 GET

http://120.136.175.13:3000/zusers/-5

返回：

```
body: {
    "nickname": "上善若水",
    "avatar":
"d1547968220c833d32eca0d3f62b0e677718ee7e253b0aeaaf729ab9b629855e"
}
```

——获取置顶评论 GET getTopNews

http://120.136.175.13:3000/stickies

返回：

```
body:[]
```

——获取所有评论 GET： getAllNews() ——所有评论中包含置顶评论

http://120.136.175.13:3000/comments?zhenfilter=3324&searchtype=0&timelimit=0

searchtype=

0: refresh时 / getTopNews成功时调用

1: 每三分钟一次
2: loadmore时调用
返回：

body: [
  {
    "id": 4334,
    "link": "-1",
    "datatype": 1,
    "data": "55S16K+d5Y+3",
    "replyid": "3324",
    "likelist": "-1",
    "createtime": "1502328058460",
    "edittime": "1502329471815",
    "isdel": 1,
    "creater": "3",
    "zhenlikeyou": 1,
    "zhenreply": "3330",
    "replylist": "3325,3326,3327,3328,3329,3330",
    "thumbnail": "-1",
    "musiclength": "-1",
    "adminlikeyou": "-1",
    "isreplyuser": 1,
    "replyuser": "-1",
    "replycomment": "-1",
    "userreplylist": "-1",
    "targetowner": "-1",
    "shownames": [

    ],
    "replyinfo": [
      {
        "id": 3325,
        "text": "6IO95LiA5YWs",
        "link": "-1",
        "likelist": "-1",
        "createtime": "1502329435140",
        "isreply": 2,
        "datatype": 1,
        "replyid": "4334",
        "replyto": "3",
        "thumbnail": "-1",
        "isdel": 1,
        "musiclength": "-1",
        "ataillist": "-1",
        "creater": "-4",
        "createrinfo": {
          "id": -4,
          "nickname": "马天宇",
          "avatar":
"97915702db5d61e406e5b88f858e32b99816456c428d9f33cd4dce4ca4057827"
        }
      },{…}
    ],
    "parentcomment": {
      "id": 3324,

```
            "text": "-1",
            "link":
"0c9a302301aa9e0217d0b560cb11976720fbc485470fcaa7908a089e591ee9f2.mp3",
            "likelist": "9958",
            "createtime": "1502275298009",
            "isreply": 1,
            "datatype": 2,
            "replyid": "-1",
            "replyto": "-1",
            "thumbnail": "-1",
            "musiclength": "00:04",
            "isdel": 1,
            "ataillist": "-1",
            "creater": "-5"
        },
        "user": {
            "id": 3,
            "nickname": "3",
            "avatar":
"441ee5259c03558dbbb96ef65274972fb03ec0b69bdeb7844a3ed043ac840112",
            "birthday": "1992-08-04 00:00:00",
            "phonenumber": "13052014786",
            "sex": 1,
            "professional": "CTO",
            "address": "x,13052014786,上海市l浦东新区,dhxjskskskksdxz",
            "isdel": 1,
            "status": 1,
            "createtime": "1491040412055",
            "lastlogintime": "1502172322499",
            "lastestlogintime": "1502172777925",
            "tag": 3,
            "follow": null
        }
    },
]
```

——是否有直播聊天 GET

http://120.136.175.13:4321/rooms/3324　（3324为获取头条取得的id）

返回：

body:{"exist":0,"owner":null}　0代表没有，1代表有

获取头条后请求一次（如果没有，每3分钟请求一次，onResume请求一次）

如果是与当粉丝聊天，并没有结束，则跳转ChatAc

其他状况可以看聊天，showChatDialog

—— 获取所有评论总数 GET getAllNewsCount（）——评论总数，单独的请求接口

http://120.136.175.13:3000/comments?score=0&zhenfilter=3324&count=1

返回：

body:{"count":2}

—— 点赞头条 PATCH

http://120.136.175.13:3000/commentszhen/3324

body: {
    "jsonpatch": {

```
            "op": "add",  ——add：点赞   delete：取消点赞
            "patch": "likelist",
            "value": "9960"
        },
        "authtoken": "a3299cc07d9211e784a54743cc19471b",
        "authid": "9960"
    }

—— 点赞评论 PATCH
    http://120.136.175.13:3000/comments/4334
    body: {
        "jsonpatch": {
            "op": "add",  ——add：点赞   delete：取消点赞
            "patch": "likelist",
            "value": "9960"
        },
        "authtoken": "a3299cc07d9211e784a54743cc19471b",
        "authid": "9960"
    }


—— 历史发布 GET getHistoryNews()  （刷新 score=0，下拉加载 score = 已加载的itemCount）
    http://120.136.175.13:3000/commentszhen?limit=10&score=0
    返回：
    body: [
        {
            "id": 3324,
            "text": "-1",
            "link":
"0c9a302301aa9e0217d0b560cb11976720fbc485470fcaa7908a089e591ee9f2.mp3",
            "likelist": "9958",
            "createtime": "1502275298009",
            "isreply": 1,
            "datatype": 2,
            "replyid": "-1",
            "replyto": "-1",
            "thumbnail": "-1",
            "musiclength": "00:04",
            "isdel": 1,
            "ataillist": "-1",
            "creater": "-5",
            "createrinfo": {
                "id": -5,
                "nickname": "上善若水",
                "avatar":
"d1547968220c833d32eca0d3f62b0e677718ee7e253b0aeaaf729ab9b629855e"
            },
            "atailusers": [

            ]
        },{…}]

        每一个条发布分别请求其评论数
        http://120.136.175.13:3000/comments?score=0&zhenfilter=3281&count=1
```

http://120.136.175.13:3000/comments?score=0&zhenfilter=3282&count=1
http://120.136.175.13:3000/comments?score=0&zhenfilter=3280&count=1
并返回：body:{"count":0}

历史发布点击事件：
—有音频：播放七牛云音频，HistoryAdapter
PlayAudioManager.getInstance().play(QiniuUtils.domainBucketVdo + item.getLink());
—有视频：跳转VideoPlayAc，播放视频（JCVideoPlayerStandard）
acPlayer.setUp(url, JCVideoPlayerStandard.SCREEN_LAYOUT_LIST, "");
        Glide.with(this).load(small).into(acPlayer.thumbImageView);
—有图片：
—有文字：
—点击item：第0个openMessage 打开留言板
              其他：跳转HistoryDetailActivity

悬浮按钮发布点击事件：CenterMenuDialog
—文字：跳转SendPhotoAc
        发布文字：
        http://120.136.175.13:3000/comments
        body: {
            "authtoken": "a3299cc07d9211e784a54743cc19471b",
            "musiclength": "-1",
            "thumbnail": "-1",
            "replyid": "3324",
            "link": "-1",
            "data": "YWE\u003d",
            "creater": "9960",
            "datatype": 1,
            "authid": "9960"
        }

        返回：
        若成功：body:[4372]
        若失败：是否保存到草稿弹框
—图片：
        获取Token
        http://120.136.175.13:3000/qiniutoken?
        type=up&name=9cba0070aef4bae0edbd8061fe23655c8028262a82f9181459bd7bc
        9cf9e0832&bucket=xuegaoqunimg
        返回：
        body: {
            "token": "nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:mykN15IdUReKG-
        RIjbko2ivWtQc=:eyJzY29wZSI6Inh1ZWdhb3F1bmltZzo5Y2JhMDA3MGFlZjRiYWU
        wZWRiZDgwNjFmZTIzNjU1YzgwMjgyNjJhODJmOTE4MTQ1OWJkN2JjOWNmmOW
        UwODMyIiwiZGVhZGxpbmUiOjE1MDI1MTE2MTN9",
            "accesstoken": "QBox
        nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:c2vmnfzL16ibMWV0NsMrdPBL
        mBE="
        }

上传七牛
http://upload.qiniup.com

发布图片列表 POST
http://120.136.175.13:3000/comments
body: {
    "authtoken": "0ca93f507f0211e7b1c82335aa3ae8e2",
    "musiclength": "-1",
    "thumbnail": "-1",
    "replyid": "6641",
    "link":
"9cba0070aef4bae0edbd8061fe23655c8028262a82f9181459bd7bc9cf9e0832",
    "data": "5ZWK5ZWK5ZWK",
    "creater": "9960",
    "datatype": 4,
    "authid": "9960"
}
返回：
body:[4379]

返回首页刷新头条及评论

一语音：跳转SendMessageAudioRecorder：录制音频
    ——>音频录制完成：SendMessageAudioPlayer
发布：
获取token GET
 http://120.136.175.13:3000/qiniutoken?
type=up&name=9911e36d08eb2d865f6e6b4e67cfbe33389ec139efaa5f743514f1d4
1c7fe374&bucket=xuegaoqunvdo
返回：
body: {

    "token": "nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:Ec4CFxBjmH-
bQiYLjMDdZVhB4JU=:eyJzY29wZSI6Inh1ZWdhb3F1bnZkbzo5OTExZTM2ZDA4Z
WlyZDg2NWY2ZTZiNGU2N2NmYmUzMzM4OWVjMTM5ZWZhYTVmNzQzNTE0Zj
FkNDFjN2ZlMzc0IiwiZGVhZGxpbmUiOjE1MDI1MTQzODF9",
    "accesstoken": "QBox
nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:c2vmnfzL16ibMWV0NsMrdPBL
mBE="
}
上传七牛
http://upload.qiniup.com

发布语音：
http://120.136.175.13:3000/comments
body: {
    "authtoken": "0ca93f507f0211e7b1c82335aa3ae8e2",
    "musiclength": "00:04",
    "thumbnail": "-1",
    "replyid": "6641",
    "link":
"9911e36d08eb2d865f6e6b4e67cfbe33389ec139efaa5f743514f1d41c7fe374",
    "data": "-1",

```
        "creater": "9960",
        "datatype": 2,
        "authid": "9960"
    }
    返回：
    body:[4385]
    返回首页刷新头条及评论
```

—视频：跳转PictureImageGridActivity选择本地视频

HeadView：
—招商Icon zhaoshang：ZhaoshangAC
—left_menu: 关闭／打开菜单

菜单栏：
   —头像: ll_lefthead ——> MySpeakAc——>个人中心：UserCenterAc

   —通知消息：ll_msg ——> NotificationManagerActivity
              ——点赞 ZanActivity
              ——回复我的 ReplyMeActivity
              ——雪糕消息 XuegaoMessageActivity
   —草稿箱：ll_caog ——> DraftAc
              ——item 重发功能
              ——item侧滑：编辑／删除功能
   —关于我们：ll_about ——> AboutActivity
   —意见反馈：ll_retroaction ——> RetroactionActivity
   —清除缓存：ll_clear ——> DataCleanManager清除缓存
   —退出登录：main_menu_logout ——> LoginAc

   —个人中心：
       ——上传头像：
       获取token GET getUploadToken
       http://120.136.175.13:3000/qiniutoken?
       type=up&name=9406d328091b3ffc67845ab3bdf120e68668cb93497d51c1da130e4f
       72f53270&bucket=xuegaoqunimg
       返回：
       body: {
           "token":
```
"nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:L6_RpSJqb3R7zOMeKGierYU
REPE=:eyJzY29wZSI6Inh1ZWdhb3F1bmltZzo5NDA2ZDMyODA5MWIzZmZjNjc4N
DVhYjNiZGYxMjBlNjg2NjhjYjkzNDk3ZDUxYzFkYTEzMGU0ZjcyZjUzMjcwIiwiZGVh
ZGxpbmUiOjE1MDI0MjI2NDh9",
```

```
    "accesstoken": "QBox
nVQ3fMxNV7EgwQFiV_IiOgt7HBwlJ7jcV5Apd8F0:c2vmnfzL16ibMWV0NsMrdPBL
mBE="
}
```

获取成功后，上传头像 loopUpload()
http://upload.qiniup.com
上传头像成功后，
修改用户信息 PATCH
http://120.136.175.13:3000/users
```
body: {
    "user": {
        "avatar":
"0e8644e04033cfb293411ed9fb89d7b3cea01b8c27c66d2de15451ef3c0f3ac2"
    },
    "authtoken": "a3299cc07d9211e784a54743cc19471b",
    "authid": "9960"
}
```

返回：
body:"success"

刷新用户信息 GET
http://120.136.175.13:3000/users/9960
返回：
```
body: {
    "id": 9960,
    "nickname": "9960",
    "avatar":
"0e8644e04033cfb293411ed9fb89d7b3cea01b8c27c66d2de15451ef3c0f3ac2",
    "birthday": "2016-08-11 00:00:00",
    "sex": 3,
    "professional": "-1",
    "address": "-1",
    "isdel": 1,
    "status": 1,
    "createtime": "1502086339342",
    "lastlogintime": "1502344008381",
    "lastestlogintime": "1502345441490",
    "tag": 0,
    "follow": null
}
```

刷新用户JWT信息 POST
http://120.136.175.13:3000/usertoken
body:{"authtoken":"a3299cc07d9211e784a54743cc19471b","authid":"9960"}
返回：
```
body: {
    "token":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJuaWNrbmFtZSI6Ijk5NjAiLCJpZCI6O
Tk2MCwiYXZhdGFyIjoiMGU4NjQ0ZTA0MDMzY2ZiMjkzNDExZWQ5ZmI4OWQ3Yj
NjZWEwMWI4YzI3YzY2ZDJkZTE1NDUxZWYzYzBmM2FjMiJ9.OofuaZ9y_wfATkX
Caiqogd4rwLn0UWbJGEu7CHnaSWo"
}
```

—— 修改昵称：ChangeNameAc

—— 性别／年龄／职业：选择器

—— 派送地址：AdressAc

评论被版主置顶头条：

1、获取头条：GET

http://120.136.175.13:3000/commentszhen

返回

```json
body: [
    {
        "id": 6684,
        "text": "",
        "link": "281b843b15c6ffc6f36fa2b751c2466286614042d4c17f7dce95eefcefab2c39",
        "likelist": "-1",
        "createtime": "1502875763475",
        "isreply": 1,
        "datatype": 4,
        "replyid": "-1",
        "replyto": "-1",
        "thumbnail": "-1",
        "isdel": 1,
        "musiclength": "-1",
        "ataillist": "9889",
        "creater": "-2",
        "createrinfo": {
            "id": -2,
            "nickname": "郑爽",
            "avatar": "90fbfa05aeefe65d6fedb63247b22d8bb01056508ca7803496a24ca357f5447c"
        },
        "atailusers": [
            {
                "id": 9889,
                "nickname": "9889",
                "avatar": "843c7dfdbcd7be829098f9b628ed4b45b0ccfdd1f818bb8676770a79d6120472",
                "birthday": "2015-08-15 00:00:00",
                "phonenumber": "13122912400",
                "sex": 2,
                "professional": "其他",
                "address": "9880,13122912400,北京市 l 北京市 l 东城区,，就会，提供，巨鹿路",
                "isdel": 1,
                "status": 1,
                "createtime": "1497435539252",
                "lastlogintime": "1502855719611",
                "lastestlogintime": "1502861637312",
                "tag": 0,
                "follow": null
            }
        ]
    }
]
```

2、申请直播互动：GET
http://120.136.175.13:4321/rooms/6684
返回：
body: {
   "exist": 0,
   "owner": {
      "id": "9889",
      "avatar":
"843c7dfdbcd7be829098f9b628ed4b45b0ccfdd1f818bb8676770a79d6120472",
      "nickname": "9889"
   }
}

3、建立socket长链接：GET
http://120.136.175.13:4321/sockets/6684
返回：
body:{"population":0,"rate":11}