

软件设计说明书

项目名称：SchooledIn App

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编写日期：2017.7.12

文档编号：111123232333

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a. 引言

a.1 目的

说明书编写目的在于明确系统整体设计，界定系统实现功能的范围，指导系统设计以及编码。本说明书详尽说明了这一软件产品的设计思想，是整个软件开发的依据，它对以后阶段的工作起指导作用。本文也是项目完成后系统验收的依据。

a.2 修订历史

日期	版本	说明	作者
<2017/7/12>	V1.0	描述项目 API、界面、业务流程设计	路萍
<2017/7/12>	V2.0	勘误	路萍

a.3 预期的读者和阅读建议

本文档的主要内容共分 3 部分：API 设计、界面设计、业务跳转设计，另外还有 2 个附录。API 设计部分描述了本系统前后端之间交互的 API；界面设计部分对用户界面进行了描述；业务跳转设计部分对系统的业务流程进行了描述。本文档面向多种读者对象：

- （1）项目经理：项目经理可以根据该文档查看系统设计并不断修改。
- （2）设计员：对系统的设计录入此文档中。
- （3）程序员：配合《需求报告》，了解系统功能，编写《用户手册》。
- （4）测试员：根据本文档对软件产品进行更有针对性的功能性测试和非功能性测试。
- （5）推广人员：了解预期产品的设计思想。
- （6）用户：了解预期产品的功能。
- （7）其他人员：如部门领导、公司领导等可以据此了解产品的功能和性能。

在阅读本文档时，首先要了解产品的功能概貌，然后可以根据自身的需要对每一功能进行适当的了解。

a.4 产品的范围

本软件——SchooledIn APP，基于客户的需求，充分考虑了具体用户的实际情况。本产品主要适用于以下用户：

(1) 有意于在校内进行问答式的知识共享；

(2) 拥有 Android 手机的用户；

针对这些用户，可以完成以下业务：

(1) 在客户端上登录 SchooledIn APP；

(2) 可以实现以兴趣和问题驱动的知识咨询共享服务平台；

a.5 参考文献

无

b. API 设计

b.1 简介

项目中的 API 采用 REST 风格，面向资源，将前后端分离，使我们的后端实用性更强，服务范围更广。

b.2 API 内容（见最后附页）

b.2.1 RESTful_API

b.2.2 RESTful_API_answers

b.2.3 RESTful_API_comments

b.2.4 RESTful_API_essays

b.2.5 RESTful_API_questions

b.2.6 RESTful_API_studios

b.2.7 RESTful_API_users

c. 界面设计

c.1 用户界面

1、启动



2、登录



3、注册

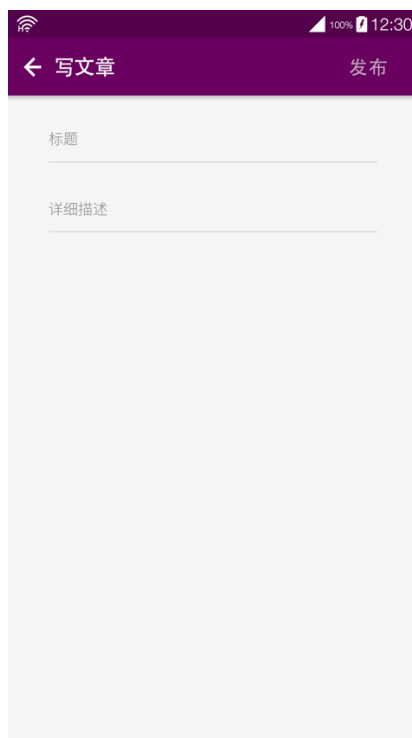


The registration screen features a purple header with the SchooledIn logo. Below the header, there are three input fields: '请输入邮箱' (Please enter email), '请输入验证码' (Please enter verification code), and '请输入密码' (Please enter password). A '发送验证码' (Send verification code) button is located next to the email field. Below the input fields, there is a checkbox labeled '我已阅读并同意服务条款' (I have read and agree to the terms of service). At the bottom, there is a large purple '注册' (Register) button and a link '我已经有账户了登录' (I already have an account, log in).

4、主页



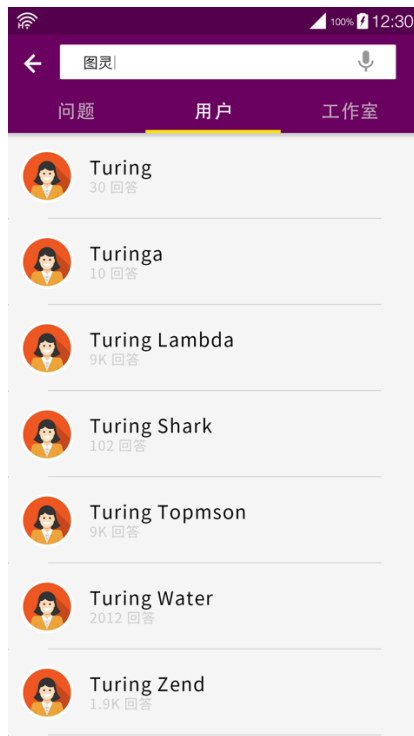
5、发布文章



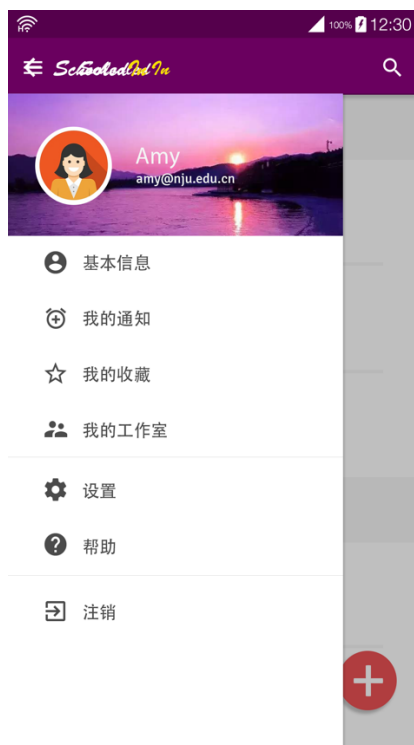
The article creation screen has a purple header with a back arrow, '写文章' (Write article), and a '发布' (Publish) button. Below the header, there are two input fields: '标题' (Title) and '详细描述' (Detailed description).

6、搜索

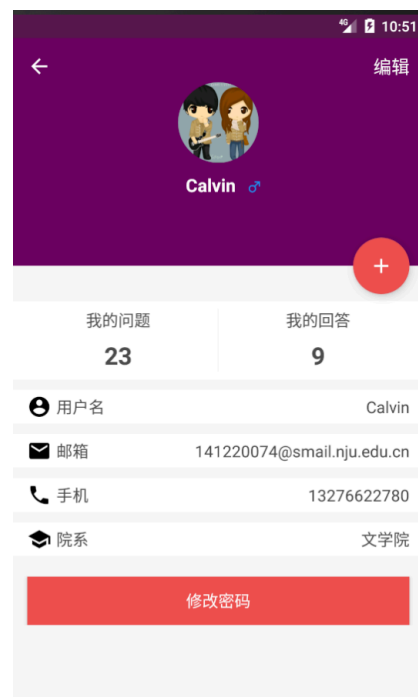




7、抽屉



8、个人信息





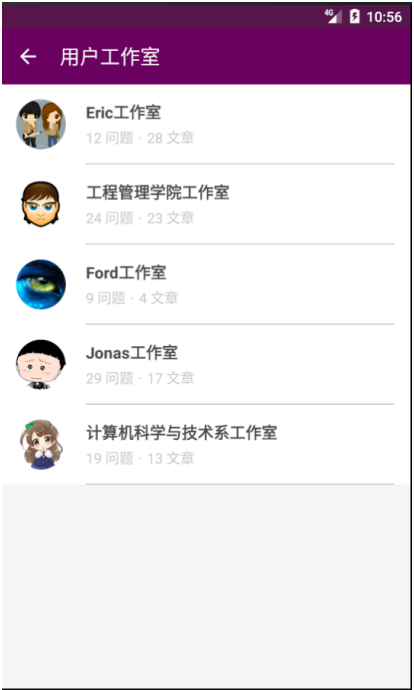
9、用户回答



10、用户问题



11、用户工作室



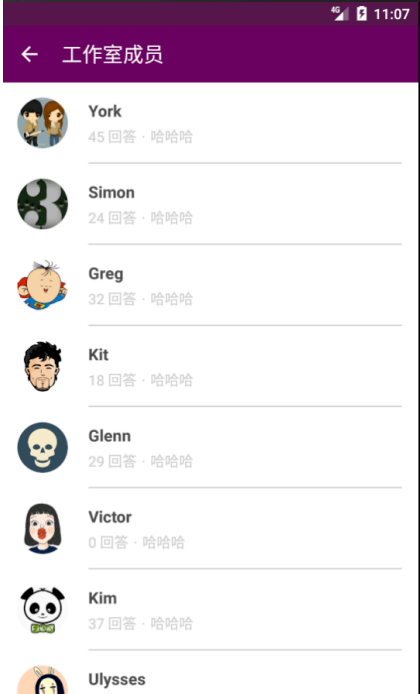
12、个人收藏



13、工作室信息



14、工作室成员列表



15、工作室回答过的问题



16、工作室文章



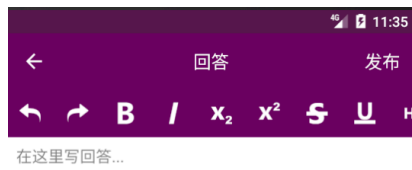
17、文章详情



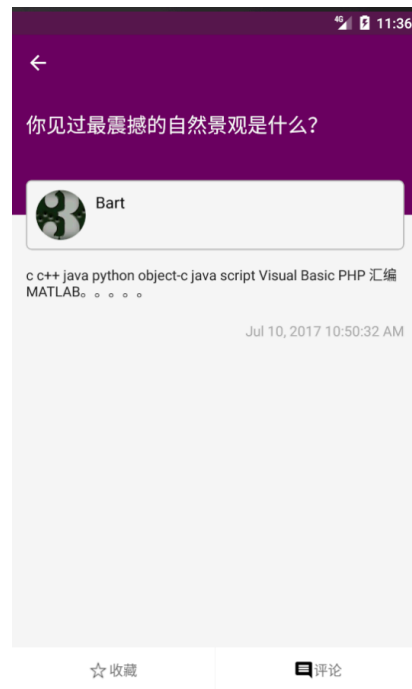
18、问题详情



19、发布答案



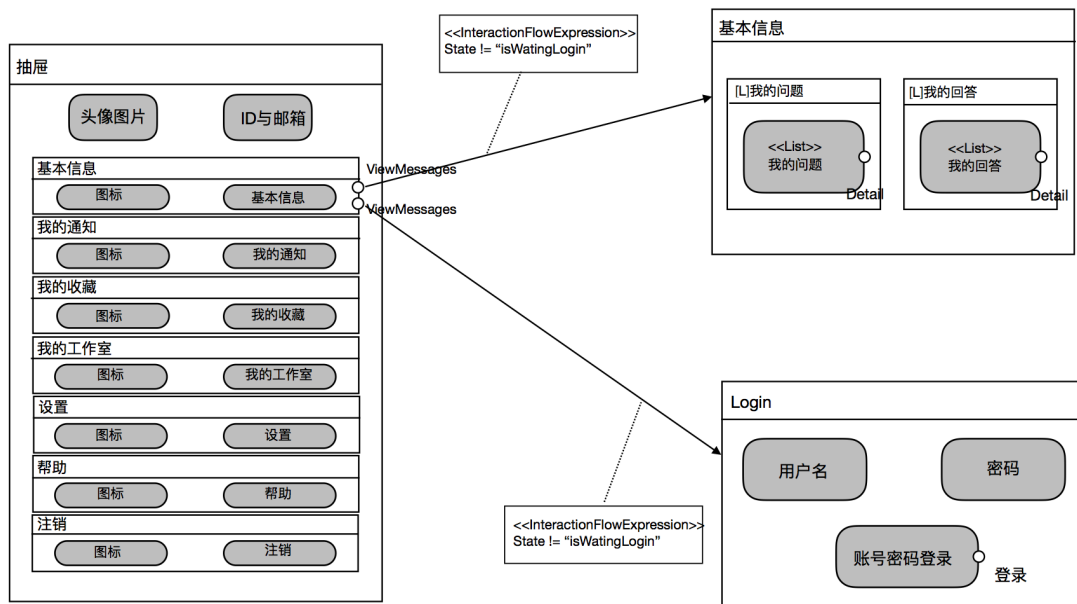
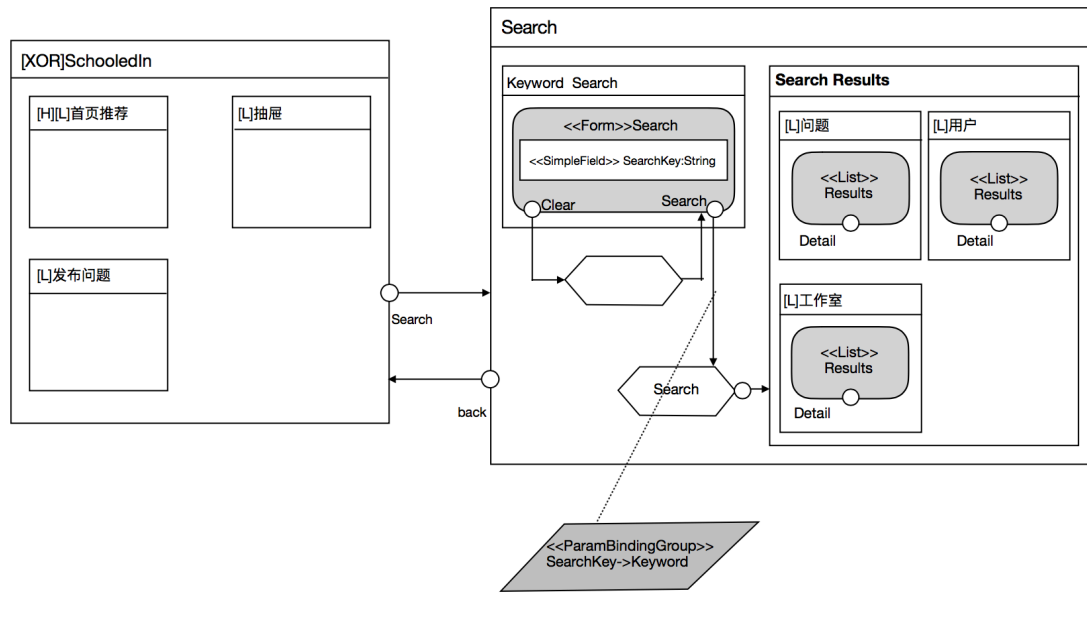
20、答案详情



21、评论详情



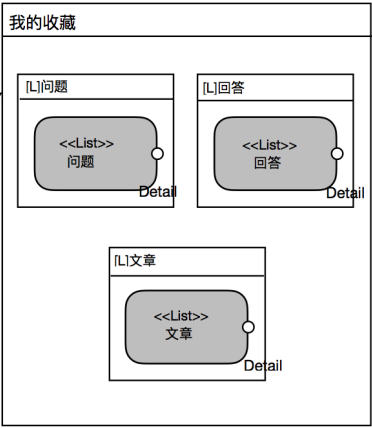
d. 业务跳转图





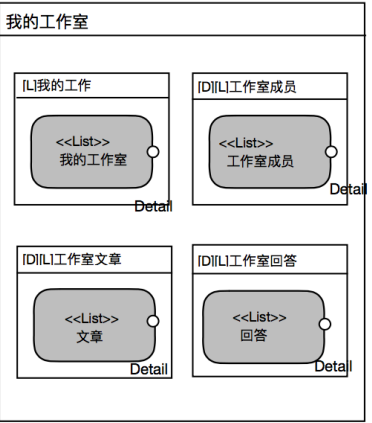
<<InteractionFlowExpression>>
State != "isWaitingLogin"

ViewMessages



<<InteractionFlowExpression>>
State != "isWaitingLogin"

ViewMessages



f. 其它

附录 A：词汇表

REST: 即表述性状态转移(Representational State Transfer, 简称 REST), 是一种面向资源的架构风格。它是一种针对网络应用的设计和开发方式, 可以降低开发的复杂性, 提高系统的可伸缩性。

RESTful: 一种软件架构风格, 设计风格而不是标准, 只是提供了一组设计原则和约束条件。它主要用于客户端和服务端交互类的软件。基于这个风格设计的软件可以更简洁, 更有层次, 更易于实现缓存等机制。

API : Application Programming Interface, 应用程序编程接口, 是一些预定义的函数, 目的是提供应用程序与开发人员基于某软件或硬件得以访问一组例程的能力, 而又无需访问源码, 或理解内部工作机制的细节。

附录 B：分析模型

无

附录 C：待确定问题的列表

无

RESTful_API

host: <https://120.24.19.11:8443/v2>

Content

- GET `/api`
- GET `/api/index?offset={offset}&limit={limit}`
- POST `/api/login`
- POST `/api/login/confirm`
- POST `/api/logout`

Details

GET `/api`

- 描述： 获取api
- 响应成功
 - 状态码
 - 200
 - 响应体

```
{
  "url": "/api",
  "users_url": "/api/users?offset={offset}&limit={limit}{&search}",
  "user_url": "/api/users/{userId}",
  "studios_url": "/api/studios?offset={offset}&limit={limit}{&search}",
  "studio_url": "/api/studios/{studioId}",
  "questions_url": "/api/questions?offset={offset}&limit={limit}{&search,heat}",
  "question_url": "/api/questions/{questionId}",
  "essays_url": "/api/essays?offset={offset}&limit={limit}{&search,heat}",
  "essay_url": "/api/essays/{essayId}",
}
```

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GET `/api/index/?offset={offset}&limit={limit}`

- 描述： 获取首页热门问题及文章，按热度排序高低
- 响应成功
 - 状态码
 - 200
 - 响应体

```
[
  {
    "id": 1911028,
    "type": "question",
    "title": "如何评价图灵？",
    "heat": 1123,
    "supports": 110,
    "answers": 23,
    "directed_to": "计算机工作室",
    "url": "/api/questions/1911028",
  }
]
```

```
"answers_url": "/api/questions/1911028/answers",
"created_at": 1491659279067
},
{
  "id": 120765,
  "type": "question",
  "title": "如何评价唐纳德? ",
  "heat": 1121,
  "supports": 12,
  "answers": 23,
  "directed_to": "软件研究所",
  "url": "/api/questions/120765",
  "answers_url": "/api/questions/120765/answers",
  "created_at": 1491659290116
},
{
  "id": 1,
  "type": "essay",
  "title": "图灵是谁",
  "heat": 1120,
  "supports": 110,
  "comments": 12,
  "studio": "计算机软件所",
  "url": "/api/essays/1",
  "studio_url": "/api/studios/12",
  "comments_url": "/api/essays/1/comments",
  "created_at": 1490970098344
},
{
  "id": 2,
  "type": "essay",
  "title": "唐纳德是谁",
  "heat": 1119,
  "supports": 12,
  "comments": 18,
  "studio": "软件所",
  "url": "/api/essays/2",
  "studio_url": "/api/studios/12",
  "comments_url": "/api/essays/2/comments",
  "created_at": 1490970099342
},
...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体样例

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/login`

- 描述：用户登录

- 请求
 - 请求体参数
 - `user_email_or_phone`: `String` `REQUIRED` 邮箱
 - `user_password`: `String` `REQUIRED` 密码
 - 请求体样例

```
{
  "user_email_or_phone": "141120201@smail.nju.edu.cn",
  "user_password": "c2ltb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "name": "mojombo",
  "answers": 12,
  "questions": 10,
  "url": "/api/users/1",
  "avatar_url": "/api/avatar/1",
  "questions_url": "/api/users/1/questions",
  "answers_url": "/api/users/1/answers",
  "favorite_questions_url": "/api/users/1/favorites/questions",
  "favorite_answers_url": "/api/users/1/favorites/answers",
  "studios_url": "/api/users/1/studios",
  "email": "141120201@smail.nju.edu.cn",
  "phone": null,
  "bio": "哈哈哈",
  "sex": "male",
  "age": 20,
  "department": "医学院",
  "location": "南京",
  "alias": "1",
  "tags": ["2", "3", "1"]
}
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid NJU email address",
  "api_url": "/api"
},
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

POST `/api/login/confirm`

此 API 仅为通知机制而设计

- 描述：用户确认登录
- 请求
 - 请求体参数
 - `user_id` : Number REQUIRED 确认用户
 - `alias` : String REQUIRED 别名
 - `tags` : Array REQUIRED 标签
 - 请求体样例

```
{
  "user_id": 1,
  "alias": "1",
  "tags": ["2", "3", "1"]
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "You have to do login first",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/logout`

- 描述：用户登出
- 请求
 - 请求体参数
 - `user_email_or_phone` : String REQUIRED 邮箱
 - `user_password` : String REQUIRED 密码
 - 请求体样例

```
{
  "user_email_or_phone": "141120201@smail.nju.edu.cn",
  "user_password": "c21tb25AewVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid NJU email address, or you have to do login first",
  "api_url": "/api"
},
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

RESTful API for users

Content

- GET /api/users?offset={offset}&limit={limit}{&search}
- GET /api/users/{userId}
- GET /api/users/{userId}/supports?offset={offset}&limit={limit}
- GET /api/users/{userId}/favorites/questions
- GET /api/users/{userId}/favorites/answers
- GET /api/users/{userId}/favorites/essays
- GET /api/users/{userId}/questions
- GET /api/users/{userId}/answers
- GET /api/users/{userId}/studios
- GET /api/users/{userId}/notifications
- POST /api/users/requestVerifyEmail
- POST /api/users/requestVerifyPhone
- POST /api/users
- POST /api/users/{userId}/questions
- POST /api/users/{userId}/favorites/questions
- POST /api/users/{userId}/favorites/answers
- POST /api/users/{userId}/favorites/essays
- PUT /api/users/{userId}
- PATCH /api/users/{userId}
- DELETE /api/users/{userId}/favorites/questions
- DELETE /api/users/{userId}/favorites/questions/{questionId}
- DELETE /api/users/{userId}/favorites/answers
- DELETE /api/users/{userId}/favorites/answers/{answerId}
- DELETE /api/users/{userId}/favorites/essays
- DELETE /api/users/{userId}/favorites/essays/{essayId}
- DELETE /api/users/{userId}/notifications
- DELETE /api/users/{userId}/notifications/{notificationId}

Details

GET /api/users?offset={offset}&limit={limit}{&search}

- 描述：获取用户列表。当设置 search 时，搜索与 search 匹配的相关用户列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "name": "Simon",
    "answers": 10,
    "url": "/api/users/1",
    "avatar_url": "/api/avatars/1",
    "bio": "I'm an ambitious man!!"
  },
  {
```

```
"id": 2,
"name": "Allen",
"answers": 12,
"url": "/api/users/2",
"avatar_url": "/api/avatars/71",
"bio": "I am a :( coder."
},
...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/users/{userId}

- 描述：获取某用户信息
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "name": "mojombo",
  "answers": 12,
  "questions": 10,
  "favorite_answers": 12,
  "favorite_questions": 10,
  "favorite_essays": 10,
  "studios": 1,
  "url": "/api/users/1",
  "avatar_url": "/api/avatar/1",
  "questions_url": "/api/users/1/questions",
  "answers_url": "/api/users/1/answers",
  "favorite_questions_url": "/api/users/1/favorites/questions",
  "favorite_answers_url": "/api/users/1/favorites/answers",
  "favorite_essays_url": "/api/users/1/favorites/essays",
  "studios_url": "/api/users/1/studios",
  "email": "151330087@smail.nju.edu.cn",
  "phone": null,
  "bio": "哈哈哈",
  "sex": "male",
  "age": 20,
  "department": "医学院",
  "location": "南京"
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/users/{userId}/supports?offset={offset}&limit={limit}

- 描述：获取某用户点赞历史
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1911028,
    "type": "question",
    "title": "如何评价图灵？",
    "heat": 1123,
    "supports": 110,
    "answers": 23,
    "directed_to": "计算机工作室",
    "url": "/api/questions/1911028",
    "answers_url": "/api/questions/1911028/answers",
    "created_at": 1491659279067
  },
  {
    "id": 2,
    "type": "essay",
    "title": "唐纳德与编程的艺术",
    "heat": 1231,
    "supports": 12,
    "comments": 18,
    "studio": "软件所",
    "url": "/api/essays/2",
    "studio_url": "/api/studios/12",
    "comments_url": "/api/essays/2/comments",
    "created_at": 1490970099342
  },
  ...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/users/{userId}/favorites/questions

- 描述：获取用户收藏问题列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1911028,
    "title": "如何评价图灵? ",
    "heat": 1123,
    "supports": 110,
    "answers":4,
    "directed_to": "计算机工作室",
    "url": "/api/questions/1911028",
    "answers_url": "/api/questions/1911028/answers",
    "created_at": 1491659279067
  },
  {
    "id": 120765,
    "title": "如何评价唐纳德? ",
    "heat": 1121,
    "supports": 12,
    "answers":4,
    "directed_to": "软件研究所",
    "url": "/api/questions/120765",
    "answers_url": "/api/questions/120765/answers",
    "created_at": 1491659290116
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
```

```
"api_url": "/api"
}
```

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GET `/api/users/{userId}/favorites/answers`

- 描述： 获取用户收藏回答列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 191028,
    "answerer": "simon",
    "content": "图灵是...",
    "question_title": "hello world?",
    "comments": 10,
    "url": "/api/answers/191028",
    "answerer_url": "/api/users/1",
    "answerer_avatar_url": "/api/avatars/1121",
    "question_url": "/api/questions/1911028",
    "comments_url": "/api/answers/191028/comments",
    "created_at": 1491659279067
  },
  {
    "id": 12121,
    "answerer": "lisa",
    "content": "唐纳德是...",
    "question_title": "hello world?",
    "comments": 0,
    "url": "/api/answers/12121",
    "answerer_url": "/api/users/1123",
    "answerer_avatar_url": "/api/avatars/21",
    "question_url": "/api/questions/192813",
    "comments_url": "/api/answers/12121/comments",
    "created_at": 1491659279067
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET `/api/users/{userId}/favorites/essays`

- 描述：获取用户收藏文章列表

- 响应成功

- 状态码
 - 200 OK
- 响应体样例

```
[
  {
    "id": 1,
    "title": "图灵是谁",
    "heat": 12318,
    "supports": 110,
    "comments": 12,
    "studio": "计算机软件所",
    "url": "/api/essays/1",
    "studio_url": "/api/studios/12",
    "comments_url": "/api/essays/1/comments",
    "created_at": 1490970098344
  },
  {
    "id": 2,
    "title": "唐纳德是谁",
    "heat": 1231,
    "supports": 12,
    "comments": 18,
    "studio": "软件所",
    "url": "/api/essays/2",
    "studio_url": "/api/studios/12",
    "comments_url": "/api/essays/2/comments",
    "created_at": 1490970099342
  },
  ...
]
```

- 响应失败

- 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/users/{userId}/questions

- 描述：获取用户提过的问题列表

- 响应成功

- 状态码
 - 200 OK
- 响应体样例

```
[
  {
    "id": 1911028,
    "title": "如何评价图灵? ",
    "heat": 1123,
    "supports": 110,
    "answers":4,
    "directed_to": "计算机工作室",
    "url": "/api/questions/1911028",
    "answers_url": "/api/questions/1911028/answers",
    "created_at": 1491659279067
  },
  {
    "id": 120765,
    "title": "如何评价唐纳德? ",
    "heat": 1121,
    "supports": 12,
    "answers":4,
    "directed_to": "软件研究所",
    "url": "/api/questions/120765",
    "answers_url": "/api/questions/120765/answers",
    "created_at": 1491659290116
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/users/{userId}/answers

- 描述：获取用户回答列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 191028,
    "content": "图灵是...",
    "question_title": "如何评价图灵? ",
    "comments": 10,
    "url": "/api/answers/191028",
    "question_url": "/api/questions/1911028",
    "comments_url": "/api/answers/191028/comments",
    "created_at": 1491659279067
  }
```

```
},
{
  "id": 12121,
  "content": "唐纳德是...",
  "question_title": "如何评价唐纳德? ",
  "comments": 0,
  "url": "/api/answers/12121",
  "question_url": "/api/questions/192813",
  "comments_url": "/api/answers/12121/comments",
  "created_at": 1491659279067
},
...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/users/{userId}/studios

- 描述：获取用户所在工作室列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "name": "SEG-Android",
    "manager": "lisa",
    "members": 4,
    "questions": 12,
    "essays": 11,
    "url": "/api/studios/1",
    "avatar_url": "/api/avatars/1",
    "manager_url": "/api/users/21",
    "bio": "我们是校园问答Android小组。"
  },
  {
    "id": 2,
    "name": "SEG-iOS",
    "manager": "simon",
    "members": 5,
    "questions": 10,
    "essays": 12,
    "url": "/api/studios/2",
    "avatar_url": "/api/avatars/2",
    "manager_url": "/api/users/221",
  }
]
```

```
"bio": "我们是校园问答iOS小组。",
},
...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/users/{userId}/notifications

- 描述：获取用户的所有通知消息
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "type": "invited",
    "has_read": true,
    "asker_name": "Alice",
    "question_title": "图灵是谁? ",
    "asker_url": "/api/users/1",
    "question_url": "/api/questions/2"
  },
  {
    "id": 2,
    "type": "answered",
    "has_read": true,
    "answerer_name": "Alice",
    "question_title": "图灵是谁? ",
    "answerer_url": "/api/users/1",
    "question_url": "/api/questions/2"
  },
  {
    "id": 3,
    "type": "commented",
    "has_read": false,
    "parent_type": "answer",
    "parent_url": "/api/answers/1",
  },
  {
    "id": 4,
    "type": "commented",
    "has_read": false,
    "parent_type": "essay",
    "parent_url": "/api/essays/1",
  },
]
```

```
},  
...  
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{  
  "message": "Not found",  
  "api_url": "/api"  
},  
{  
  "message": "Server is busy",  
  "api_url": "/api"  
}
```

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POST `/api/users/requestVerifyEmail`

- 描述：向用户邮箱发送验证码，以请求创建用户；返回验证码持续到的时间
- 请求
 - 请求体参数
 - `email`: `String` `REQUIRED` 欲创建用户的邮箱
 - 请求体样例

```
{  
  "email": "141120201@smail.nju.edu.cn"  
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{  
  "retain_until": 1491659279067  
}
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 409 CONFLICT
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{  
  "message": "Invalid NJU email address",  
  "api_url": "/api"  
},  
{  
  "message": "Email has already signed up",  
  "api_url": "/api"  
},
```

```
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/users/requestVerifyPhone`

- 描述：向用户手机发送验证码，以请求绑定手机；返回验证码持续到的时间
- 请求
 - 请求体参数
 - `phone` : `String` `REQUIRED` 欲创建用户的邮箱
 - 请求体样例

```
{
  "phone": "13278642865"
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "retain_until": 1491659279067
}
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid NJU email address",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/users`

- 描述：用户注册时创建一个用户
- 请求
 - 请求体参数
 - `email` : `String` `REQUIRED` 欲创建用户的邮箱
 - `password` : `String` `REQUIRED` 欲创建用户的密码
 - `verification_code` : `Number` `REQUIRED` 获取到的验证码
 - `name` : `String` `OPTIONAL` 欲创建用户的用户名
 - `bio` : `String` `OPTIONAL` 欲创建用户的个性签名，默认为 ""

- `age` : `Number` `OPTIONAL` 欲创建用户的年龄，默认为 `0`
- `sex` : `String` `OPTIONAL` 欲创建用户的性别，默认为 `unknown`，只能为 `male` 或者 `female`
- `department` : `String` `OPTIONAL` 欲创建用户的专业，默认为 `""`
- `location` : `String` `OPTIONAL` 欲创建用户的地点，默认为 `""`
- `avatar` : `String` `OPTIONAL` 欲创建用户的头像地址(URL)，默认为系统提供的头像
- 请求体样例

```
{
  "email": "141120201@smail.nju.edu.cn",
  "password": "c21tb25AeWVhaC5uZXQ=",
  "verification_code": 12312,
  "name": "mojombo",
  "bio": "哈哈",
  "sex": "male",
  "age": 20
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/users/12432"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid validation code",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST `/api/users/{userId}/questions`

- 描述：用户提出问题
- 请求
 - 请求体参数
 - `password` : `String` `REQUIRED` 该用户的密码
 - `question_title` : `String` `REQUIRED` 问题标题
 - `directed_to` : `String` `REQUIRED` 所要咨询的工作室的名称
 - `question_content` : `String` `OPTIONAL` 问题描述 默认为 `""`
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ=",
  "question_title": "突然什么都不想做了不想学习怎么办？？",
}
```

```
"question_content": "这段时间突然完全不想学习啊啊啊怎么办",
"directed_to": "学习讨论组",
}
```

- 响应成功
 - 状态码 + 201 CREATED
 - 响应体样例

```
{
  "url": "/api/questions/96612621"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/users/{userId}/favorites/questions`

- 描述：该用户收藏某问题
- 请求
 - 请求体参数
 - `password`: `String` `REQUIRED` 该用户的密码
 - `question_id`: `Number` `REQUIRED` 问题id
 - 请求体样例

```
{
  "password": "c2ltb25AewVhaC5uZXQ=",
  "question_id": 1234
}
```

- 响应成功
 - 状态码 + 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED

- 404 NOT FOUND
- 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/users/{userId}/favorites/answers`

- 描述：该用户收藏某回答
- 请求
 - 请求体参数
 - `password: String` REQUIRED 该用户的密码
 - `answer_id: Number` REQUIRED 回答id
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ=",
  "answer_id": 123
}
```

- 响应成功
 - 状态码 + 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

POST `/api/users/{userId}/favorites/essays`

- 描述：该用户收藏某文章
- 请求
 - 请求体参数
 - `password` : `String` `REQUIRED` 该用户的密码
 - `essay_id` : `Number` `REQUIRED` 问题id
 - 请求体样例

```
{
  "password": "c21tb25AewVhaC5uZXQ=",
  "essay_id": 1234
}
```

- 响应成功
 - 状态码 + 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

PUT `/api/users/{userId}`

- 请求
 - 请求体参数
 - `name` : `String` `REQUIRED` 用户的新名称
 - `old_password` : `String` `REQUIRED` 用户的原密码
 - `new_password` : `String` `REQUIRED` 用户的新密码
 - `bio` : `String` `OPTIONAL` 用户的新个性签名，默认为 `""`
 - `age` : `Number` `OPTIONAL` 用户的新年龄，默认为 `0`
 - `sex` : `String` `OPTIONAL` 用户的新性别，默认为 `unknown`，只能为 `male` 或者 `female`
 - `department` : `String` `OPTIONAL` 用户的新专业，默认为 `""`
 - `location` : `String` `OPTIONAL` 用户的新地点，默认为 `""`
 - `avatar` : `String` `OPTIONAL` 用户的新头像地址(URL)，默认为系统提供的头像
 - `phone` : `String` `OPTIONAL` 用户的新绑定的手机号。若有此项，则 `verification_code` 为 `REQUIRED`

- `verification_code`: `Number` `OPTIONAL` 手机验证码
- 请求体样例

```
{
  "name": "mojombo",
  "old_password": "c2ltb25AewVhaC5uZXQ=",
  "new_password": "c4Hff8fA5GVhaC5jhgj=",
  "bio": "哈哈",
  "sex": "male",
  "age": 20,
  "department": "医学",
  "location": "南京"
}
```

- 响应成
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password or validation code",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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PATCH `/api/users/{userId}`

- 请求
 - 请求体参数
 - `password`: `String` `REQUIRED` 用户的原密码
 - `name`: `String` `OPTIONAL` 用户的新名称
 - `new_password`: `String` `OPTIONAL` 用户的新密码
 - `bio`: `String` `OPTIONAL` 用户的新个性签名，默认为 ""
 - `age`: `Number` `OPTIONAL` 用户的新年龄，默认为 0
 - `sex`: `String` `OPTIONAL` 用户的新性别，默认为 unknown，只能为 male 或者 female
 - `department`: `String` `OPTIONAL` 用户的新专业，默认为 ""
 - `location`: `String` `OPTIONAL` 用户的新地点，默认为 ""
 - `avatar`: `String` `OPTIONAL` 用户的新头像地址(URL)，默认为系统提供的头像
 - `phone`: `String` `OPTIONAL` 用户的新绑定的手机号。若有此项，则 `verification_code` 为 `REQUIRED`
 - `verification_code`: `Number` `OPTIONAL` 手机验证码
 - 请求体样例

```
{
  "password": "123sdfasdf",
  "name": "mojombo",
  "new_password": "c2ltb25AeWVhaC5uZXQ=",
  "bio": "哈哈",
  "sex": "male",
  "age": 20,
  "department": "医学",
  "location": "南京"
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password or validation code",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/users/{userId}/favorites/questions`

- 描述：删除用户收藏过的问题
- 请求
 - 请求体参数 + `password`: `String` `REQUIRED` 用户的密码 + `questions_id`: `Array` `REQUIRED` 用户收藏的问题列表
 - 请求体样例

```
{
  "user_password": "c2ltb25AeWVhaC5uZXQ=",
  "questions_id": [1234, 234, 243]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败

- 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/users/{userId}/favorites/questions/{questionId}`

- 描述：删除用户收藏过的某个问题
- 请求
 - 请求体参数
 - `password`: `String` `REQUIRED` 用户的密码
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/users/{userId}/favorites/answers`

- 描述：删除用户收藏过的答案
- 请求
 - 请求体参数

- password: String REQUIRED 用户的密码
- answers_id: Array REQUIRED 用户收藏的回答列表
- 请求体样例

```
{
  "password": "1123443sdf",
  "answers_id": [1234, 234, 243]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE /api/users/{userId}/favorites/answers/{answerId}

- 描述：删除用户收藏过的某个答案
- 请求
 - 请求体参数
 - password: String REQUIRED 用户的密码
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码

- 401 UNAUTHORIZED
- 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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DELETE `/api/users/{userId}/favorites/essays`

- 描述：删除用户收藏过的文章
- 请求
 - 请求体参数 + `password` : `String` `REQUIRED` 用户的密码 + `essays_id` : `Array` `REQUIRED` 用户收藏的文章列表
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ=",
  "essays_id": [1234, 234, 243]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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DELETE `/api/users/{userId}/favorites/essays/{essayId}`

- 描述：删除用户收藏过的某篇文章
- 请求
 - 请求体参数
 - `password` : `String` `REQUIRED` 用户的密码

- 请求体样例

```
{
  "password": "c21tb25AewVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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DELETE `/api/users/{userId}/notifications`

- 描述：删除用户的通知消息
- 请求
 - 请求体参数 + `password` : `String` `REQUIRED` 用户的密码 + `notifications_id` : `Array` `REQUIRED` 用户欲删除的通知消息
 - 请求体样例

```
{
  "password": "c21tb25AewVhaC5uZXQ=",
  "notifications_id": [1234, 234, 243]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
```



```
"api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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DELETE `/api/users/{userId}/notifications/{notificationId}`

- 描述：删除用户的某条通知消息
- 请求
 - 请求体参数
 - `password`: `String` `REQUIRED` 用户的密码
 - 请求体样例

```
{
  "password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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RESTful API for studios

Content

- GET /api/studios?offset={offset}&limit={limit}{&search}
- GET /api/studios/{studioId}
- GET /api/studios/{studioId}/members
- GET /api/studios/{studioId}/questions
- GET /api/studios/{studioId}/essays
- POST /api/studios
- POST /api/studios/application
- POST /api/studios/{studioId}/members
- POST /api/studios/{studioId}/essays
- PUT /api/studios/{studioId}
- PATCH /api/studios/{studioId}
- DELETE /api/studios/{studioId}
- DELETE /api/studios/{studioId}/members
- DELETE /api/studios/{studioId}/members/{memberId}

Details

GET /api/studios?offset={offset}&limit={limit}{&search}

- 描述：获取工作室列表。当设置 search 时，搜索与 search 匹配的相关工作室列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "name": "SEG-Android",
    "manager": "lisa",
    "members": 4,
    "questions": 12,
    "essays": 11,
    "url": "/api/studios/1",
    "avatar_url": "/api/avatars/1",
    "bio": "我们是校园问答Android小组。"
  },
  {
    "id": 2,
    "name": "SEG-iOS",
    "manager": "simon",
    "members": 5,
    "questions": 10,
    "essays": 12,
    "url": "/api/studios/2",
    "avatar_url": "/api/avatars/2",
    "bio": "我们是校园问答iOS小组。"
  },
  ...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/studios/{studioId}

- 描述：获取工作室信息
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "name": "SEG-Android",
  "manager": "lisa",
  "members": 4,
  "questions": 2,
  "essays": 2,
  "url": "/api/studios/1",
  "avatar_url": "/api/avatars/1",
  "manager_url": "/api/users/21",
  "manager_avatar_url": "/api/avatars/17",
  "members_url": "/api/studios/1/members",
  "questions_url": "/api/studios/1/questions",
  "essays_url": "/api/studios/1/essays",
  "top_question_url": "/api/questions/121",
  "top_essay_url": "/api/questions/121",
  "bio": "我们是校园问答Android小组。"
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

GET `/api/studios/{studioId}/members`

- 描述：获取工作室成员列表。
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "name": "Simon",
    "answers": 12,
    "url": "/api/users/1",
    "avatar_url": "/api/avatars/1",
    "bio": "I'm an ambitious man!!"
  },
  {
    "id": 121,
    "name": "Alex",
    "answers": 12,
    "url": "/api/users/121",
    "avatar_url": "/api/avatars/71",
    "bio": "I am a :) coder."
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUNT
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

GET `/api/studios/{studioId}/questions`

- 描述：获取工作室成员回答过的问题列表。
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1911028,
```

```
"title": "如何评价图灵?",
"heat": 1123,
"supports": 110,
"answers": 2,
"url": "/api/questions/1911028",
"answers_url": "/api/questions/1911028/answers",
"created_at": 1491659279067
},
{
  "id": 120765,
  "title": "如何评价唐纳德? ",
  "heat": 1121,
  "supports": 12,
  "answers": 2,
  "url": "/api/questions/120765",
  "answers_url": "/api/questions/120765/answers",
  "created_at": 1491659290116
},
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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GET /api/studios/{studioId}/essays

- 描述： 获取工作室发布过的文章列表。
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "title": "图灵是谁",
    "heat": 12318,
    "supports": 110,
    "comments": 4,
    "url": "/api/essays/1",
    "comments_url": "/api/essays/1/comments",
    "created_at": 1490970098344
  },
  {
    "id": 2,
    "title": "唐纳德是谁",
    "heat": 1231,
    "supports": 12,
```

```
"comments": 4,
"url": "/api/essays/2",
"comments_url": "/api/essays/2/comments",
"created_at": 1490970099342
},
...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/studios`

- 描述：创建一个工作室
- 请求
 - 请求体参数
 - `name` : `String` `REQUIRED` 欲创建工作室的名称
 - `manager_email_or_phone` : `String` `REQUIRED` 欲创建工作室的管理员账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 欲创建工作室的管理员密码
 - `bio` : `String` `OPTIONAL` 欲创建工作室的个性签名，默认为 ""
 - `avatar` : `String` `OPTIONAL` 欲创建工作室的头像地址(URL)，默认为系统提供的头像
 - `members` : `Array` `OPTIONAL` 欲创建工作室的成员列表(E-mail或手机号)，默认为 []
 - 请求体样例

```
{
  "name": "The-Walking-Dead-Group",
  "manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "manager_password": "c2ltb25AeWVhaC5uZXQ=",
  "bio": "行尸走肉问答组",
  "members": [ "141220010@smail.nju.edu.cn", "13275527896" ]
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/studios/1282719"
}
```

- 响应失败
 - 状态码

- 401 UNAUTHORIZED
- 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/studios/application`

- 描述：申请创建一个工作室
- 请求
 - 请求体参数
 - `name`: String REQUIRED 欲创建工作室的名称
 - `manager_email_or_phone`: String REQUIRED 欲创建工作室的管理员账号(E-mail或手机号)
 - `manager_password`: String REQUIRED 欲创建工作室的管理员密码
 - `qualification`: String REQUIRED 申请理由, 资格证明
 - `bio`: String OPTIONAL 欲创建工作室的个性签名, 默认为 ""
 - `avatar`: String OPTIONAL 欲创建工作室的头像地址(URL), 默认为系统提供的头像
 - `members`: Array OPTIONAL 欲创建工作室的成员列表(E-mail或手机号), 默认为 []
 - 请求体样例

```
{
  "name": "The-Walking-Dead-Group",
  "manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "manager_password": "c2ltb25AeWVhaC5uZXQ=",
  "qualification": "我们曾于2012年与行尸走肉剧组合作...",
  "bio": "行尸走肉问答组",
  "members": [ "141220010@smail.nju.edu.cn", "13275527896" ]
}
```

- 响应成功
 - 状态码
 - 202 ACCEPTED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

```
}
}
```

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POST `/api/studios/{studioId}/members`

- 描述：为工作室添加一个成员
- 请求
 - 请求体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 工作室的管理员账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 工作室的管理员密码
 - `member_email_or_phone` : `String` `REQUIRED` 欲添加成员的账号(E-mail或手机号)
 - 请求体样例

```
{
  "manager_email_or_phone": "141120201@nju.edu.cn",
  "manager_password": "c21tb25AeWVhaC5uZXQ=",
  "member_email_or_phone": "15786954275"
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/studios/{studioId}/essays`

- 描述：发布一篇文章
- 请求
 - 请求体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 该工作室管理员的账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 该工作室管理员的密码
 - `essay_title` : `String` `REQUIRED` 问题标题

- `essay_content`: `String` `REQUIRED` 问题描述, 默认为 ""
- 请求体样例

```
{
  "manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "manager_password": "c21tb25AewWhaC5uZXQ=",
  "essay_title": "如何看待 Andrew Ng 离开百度? ",
  "essay_content": "作为百度...",
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/essays/96612621"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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PUT `/api/studios/{studioId}`

- 描述: 更新工作室信息
- 请求
 - 请求体参数
 - `name`: `String` `REQUIRED` 工作室的新名称
 - `old_manager_email_or_phone`: `String` `REQUIRED` 工作室的原管理员账号(E-mail或手机号)
 - `old_manager_password`: `String` `REQUIRED` 工作室的原管理员密码
 - `new_manager_email_or_phone`: `String` `REQUIRED` 工作室的新管理员账号(E-mail或手机号)
 - `new_manager_password`: `String` `REQUIRED` 工作室的新管理员密码
 - `bio`: `String` `OPTIONAL` 工作室的新口号, 默认为 ""
 - `avatar`: `String` `OPTIONAL` 工作室的新头像地址(URL), 默认为系统提供的头像
 - `members`: `Array` `OPTIONAL` 工作室的新成员列表(E-mail或手机号), 默认为 []
 - 请求体样例

```
{
  "name": "The-Walking-Dead-Group",
  "old_manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "old_manager_password": "c2ltb25ADwKhaC5uZXQ=",
  "new_manager_email_or_phone": "141220211@mail.nju.edu.cn",
  "new_manager_password": "c2ltb25AewVhaC5uZXQ=",
  "bio": "行尸走肉问答组",
  "members": [ "15162583528", "18372518624" ]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 响应体样例

```
{
  "url": "/api/studios/1282719"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

PATCH /api/studios/{studioId}

- 描述：修改工作室信息
- 请求
 - 请求体参数
 - manager_email_or_phone : String REQUIRED 工作室的管理员账号(E-mail或手机号)
 - manager_password : String REQUIRED 工作室的管理员密码
 - name : String OPTIONAL 工作室的新名称
 - new_manager_email_or_phone : String OPTIONAL 工作室的新管理员账号(E-mail或手机号)
 - new_manager_password : String OPTIONAL 工作室的新管理员密码
 - bio : String OPTIONAL 工作室的新口号
 - avatar : String OPTIONAL 工作室的新头像地址(URL), 默认为系统提供的头像
 - members : Array OPTIONAL 工作室的新成员列表(E-mail或手机号), 默认为 []
 - top_question : Number OPTIONAL 工作室的置顶问题id
 - top_essay : Number OPTIONAL 工作室的置顶文章id
 - 请求体样例

```
{
  "manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "manager_password": "c21tb25AeWVhaC5uZXQ=",
  "bio": "行尸走肉问答组：专业回答行尸走肉问题",
  "top_question": 12
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 响应体样例

```
{
  "url": "/api/studios/1282719"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/studios/{studioId}`

- 描述：删除工作室
- 请求
 - 请求体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 工作室的管理员账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 工作室的管理员密码
 - 请求体样例

```
{
  "manager_email_or_phone": "simon@yeah.net",
  "manager_password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/studios/{studioId}/members`

- 描述：删除工作室成员
- 请求
 - 请求体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 工作室的管理员账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 工作室的管理员密码
 - `members` : `Array` `REQUIRED` 欲删除的成员账号列表(E-mail或手机号)
 - 请求体样例

```
{
  "manager_email_or_phone": "simon@yeah.net",
  "manager_password": "c2ltb25AeWVhaC5uZXQ=",
  "members": [ "simon@yeah.net", "11234511123" ]
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/studios/{studioId}/members/{userId}`

- 描述：删除工作室某个成员
- 请求
 - 请求体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 工作室的管理员账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 工作室的管理员密码
 - 请求体样例

```
{
  "manager_email_or_phone": "simon@yeah.net",
  "manager_password": "c2ltb25AewWhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

RESTful API for questions

Content

- GET /api/questions?offset={offset}&limit={limit}{&search,heat}
- GET /api/questions/{questionId}
- GET /api/questions/{questionId}/answers
- POST /api/questions
- POST /api/questions/{questionId}/answers
- POST /api/questions/{questionId}/supports
- DELETE /api/questions/{questionId}

Details

GET /api/questions?offset={offset}&limit={limit}{?search,heat}

- 描述：获取问题列表。当 heat 取值为 true 时，获取最热门的问题列表；当设置 search 时，搜索与 search 匹配的相关问题列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1911028,
    "title": "如何评价图灵？",
    "heat": 1123,
    "supports": 110,
    "answers": 23,
    "directed_to": "计算机工作室",
    "url": "/api/questions/1911028",
    "answers_url": "/api/questions/1911028/answers",
    "created_at": 1491659279067
  },
  {
    "id": 120765,
    "title": "如何评价唐纳德？",
    "heat": 1121,
    "supports": 12,
    "answers": 23,
    "directed_to": "软件研究所",
    "url": "/api/questions/120765",
    "answers_url": "/api/questions/120765/answers",
    "created_at": 1491659290116
  },
  ...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE
 - 响应体样例

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/questions/{questionId}

- 描述：获取问题信息
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "title": "图灵是谁",
  "content": "图灵是...",
  "heat": 12318,
  "supports": 110,
  "answers": 23,
  "directed_to": "计算机小组",
  "url": "/api/questions/1",
  "answers_url": "/api/questions/1/answers",
  "directed_to_url": "/api/studios/2135",
  "created_at": 1490970098344
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/questions/{questionId}/answers

- 描述：获取问题的答案列表。
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 191028,
    "answerer": "simon",
    "content": "图灵是...",
    "comments": 10,
    "url": "/api/answers/191028",
    "answerer_url": "/api/users/1",
    "answerer_avatar_url": "/api/avatars/1121",
    "comments_url": "/api/answers/191028/comments",
    "created_at": 1491659279067
  },
  {
    "id": 12121,
    "answerer": "lisa",
    "content": "图灵生于...",
    "comments": 0,
    "url": "/api/answers/12121",
    "answerer_url": "/api/users/1123",
    "answerer_avatar_url": "/api/avatars/21",
    "comments_url": "/api/answers/12121/comments",
    "created_at": 1491659279067
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST `/api/questions`

- 描述：创建一个问题
- 请求
 - 请求具体参数
 - `asker_email_or_phone`: String REQUIRED 提问者的账号(E-mail或手机号)
 - `asker_password`: String REQUIRED 提问者的密码
 - `question_title`: String REQUIRED 问题标题
 - `directed_to`: String REQUIRED 所要咨询的工作室的名称
 - `question_content`: String OPTIONAL 问题描述 默认为 ""
 - 请求体样例

```
{
  "asker_email_or_phone": "141120201@smail.nju.edu.cn",
  "asker_password": "c2l1tb25AeWVhaC5uZXQ=",
  "question_title": "如何写出一个更快的算法? ",
  "question_content": "写一个优秀的算法需要...",
}
```



```
"directed_to": "算法研究小组",
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/questions/96612861"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST `/api/questions/{questionId}/answers`

- 描述：创建一条对该问题的回答
- 请求：
 - 请求体参数：
 - `answer_author_email_or_phone` : `String` `REQUIRED` 答主的账号(E-mail或手机号)
 - `answer_author_password` : `String` `REQUIRED` 答主的密码
 - `content` : `String` `REQUIRED` 回答内容
 - 请求体样例

```
{
  "answerer_email_or_phone": "141120201@smail.nju.edu.cn",
  "answerer_password": "c21tb25AeWVhaC5uZXQ=",
  "content": "图灵是一位伟大的科学家"
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/answers/1234983"
}
```

- 响应失败
 - 状态码

- 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/questions/{questionId}/supports`

- 描述：为该问题点赞
- 请求：
 - 请求体参数
 - `supporter_email_or_phone` : `String` `REQUIRED` 点赞者的账号
 - `supporter_password` : `String` `REQUIRED` 点赞者的密码
 - 请求体样例

```
{
  "supporter_email_or_phone": "141120201@smail.nju.edu.cn",
  "supporter_password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

```
}

```

[back to Content](#)

DELETE `/api/questions/{questionId}`

- 描述：删除一个问题
- 请求：
 - 请求具体参数
 - `manager_email_or_phone` : `String` `REQUIRED` 管理者的账号(E-mail或手机号)
 - `manager_password` : `String` `REQUIRED` 管理者的密码
 - 请求体样例

```
{
  "manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "manager_password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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RESTful API for essays

Content

- GET /api/essays?offset={offset}&limit={limit}{&search,heat}
- GET /api/essays/{essayId}
- GET /api/essays/{essayId}/comments
- POST /api/essays
- POST /api/essays/{essayId}/comments
- POST /api/essays/{essayId}/supports
- DELETE /api/essays/{essayId}

Details

GET /api/essays?offset={offset}&limit={limit}{?search,heat}

- 描述：获取文章列表。当 heat 取值为 true 时，获取最热门的文章列表；当设置 search 时，搜索与 search 匹配的相关文章列表
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
[
  {
    "id": 1,
    "title": "图灵是谁",
    "heat": 12318,
    "supports": 110,
    "comments": 12,
    "studio": "计算机软件所",
    "url": "/api/essays/1",
    "studio_url": "/api/studios/12",
    "comments_url": "/api/essays/1/comments",
    "created_at": 1490970098344
  },
  {
    "id": 2,
    "title": "唐纳德是谁",
    "heat": 1231,
    "supports": 12,
    "comments": 18,
    "studio": "软件所",
    "url": "/api/essays/2",
    "studio_url": "/api/studios/12",
    "comments_url": "/api/essays/2/comments",
    "created_at": 1490970099342
  },
  ...
]
```

- 响应失败
 - 状态码
 - 400 BAD REQUEST
 - 503 SERVICE UNAVAILABLE

- 响应体样例

```
{
  "message": "Lack of queries: offset or limit",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/essays/{essayId}

- 描述：获取文章信息
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "title": "图灵是谁",
  "content": "图灵是...",
  "heat": 12318,
  "supports": 110,
  "comments": 12,
  "studio": "计算机软件所",
  "studio_bio": "软件研究中心! ",
  "url": "/api/essays/1",
  "studio_url": "/api/studios/12",
  "studio_avatar_url": "/api/avatars/112",
  "comments_url": "/api/essays/1/comments",
  "created_at": 1490970098344
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

GET /api/essays/{essayId}/comments

- 描述：获取文章的评论列表。
- 响应成功

- 状态码
 - 200 OK
- 响应体样例

```
[
  {
    "id": 1231,
    "commenter": "lisa",
    "content": "这篇文章真的很专业，受益匪浅！ ",
    "url": "/api/comments/1231",
    "commenter_url": "/api/users/2",
    "commenter_avatar_url": "/api/avatars/2",
    "created_at": 1491659279067
  },
  {
    "id": 1211,
    "commenter": "simon",
    "content": "文章不错，给工作室点个赞！ ",
    "url": "/api/comments/1211",
    "commenter_url": "/api/users/491",
    "commenter_avatar_url": "/api/avatars/22",
    "created_at": 1491659279067
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/essays`

- 描述：发布一篇文章
- 请求
 - 请求具体参数
 - `studio_manager_email_or_phone` : `String` `REQUIRED` 工作室管理者的账号(E-mail或手机号)
 - `studio_manager_password` : `String` `REQUIRED` 工作室管理者的密码
 - `studio` : `String` `REQUIRED` 工作室名称
 - `essay_title` : `String` `REQUIRED` 文章标题
 - `essay_content` : `String` `REQUIRED` 文章描述
 - 请求体样例

```
{
  "studio_manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "studio_manager_password": "c21tb25AeWVhaC5uZXQ=",
  "studio": "算法小组",
```

```
"essay_title": "如何写出一个更快的算法？",
"essay_content": "写一个优秀的算法需要..."
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/essays/96612861"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST `/api/essays/{essayId}/comments`

- 描述：创建一条对该文章的评论
- 请求：
 - 请求体参数
 - `commenter_email_or_phone` : `String` `REQUIRED` 评论者的账号(E-mail或手机号)
 - `commenter_password` : `String` `REQUIRED` 评论者的密码
 - `content` : `String` `REQUIRED` 评论内容
 - 请求体样例

```
{
  "commenter_email_or_phone": "141120201@smail.nju.edu.cn",
  "commenter_password": "c21tb25AewVhaC5uZXQ=",
  "content": "答主好文采！"
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/comments/1234983"
}
```

- 响应失败

- 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
- 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST `/api/essays/{essayId}/supports`

- 描述： 为该文章点赞
- 请求：
 - 请求体参数
 - `supporter_email_or_phone` : `String` `REQUIRED` 点赞者的账号
 - `supporter_password` : `String` `REQUIRED` 点赞者的密码
 - 请求体样例

```
{
  "supporter_email_or_phone": "141120201@smail.nju.edu.cn",
  "supporter_password": "c21tb25AewVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```



```
"api_url": "/api"
}
```

[back to Content](#)

DELETE `/api/essays/{essayId}`

- 描述：删除一篇文章
- 请求：
 - 请求具体参数
 - `studio_manager_email_or_phone` : `String` `REQUIRED` 工作室管理者的账号(E-mail或手机号)
 - `studio_manager_password` : `String` `REQUIRED` 工作室管理者的密码
 - 请求体样例

```
{
  "studio_manager_email_or_phone": "141120201@smail.nju.edu.cn",
  "studio_manager_password": "c2ltb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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RESTful API for comments

Content

- GET /api/comments/{commentId}
- POST /api/comments
- DELETE /api/comments/{commentId}

Details

GET /api/comments/{commentId}

- 描述： 获取一个评论
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "commenter": "lisa",
  "content": "阴吹斯汀。",
  "url": "/api/comments/1",
  "commenter_url": "/api/users/1234",
  "commenter_avatar_url": "/api/avatars/1234",
  "parent_url": "/api/answers/233",
  "created_at": 1491541542112
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

POST /api/comments

- 描述： 创建评论
- 请求
 - 请求体参数
 - commenter_email_or_phone : String REQUIRED 评论者的账号(E-mail或手机号)

- commenter_password : String REQUIRED 评论者的密码
- content : String REQUIRED 评论内容
- parent_type : String REQUIRED 评论对象类型，可取 "answer" , "essay"
- parent_id : Number REQUIRED 评论对象id
- 请求体样例

```
{
  "commenter_email_or_phone": "141120201@smail.nju.edu.cn",
  "commenter_password": "c2ltb25AewVhaC5uZXQ=",
  "content": "答主嫁我嫁我",
  "parent_type": "answer",
  "parent_id": 1162
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/comments/9619181",
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid email/phone or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

[back to Content](#)

DELETE /api/comments/{commentId}

- 描述：删除一条评论
- 请求
 - 请求体参数
 - commenter_email_or_phone : String REQUIRED 评论者账号(E-mail或手机号)
 - commenter_password : String REQUIRED 评论者密码
 - 请求体样例

```
{
  "commenter_email_or_phone": "141120201@smail.nju.edu.cn",
  "commenter_password": "c2ltb25AewVhaC5uZXQ="
}
```

```
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{  
  "message": "Invalid email/phone or password",  
  "api_url": "/api",  
},  
{  
  "message": "Server is busy",  
  "api_url": "/api",  
}
```

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RESTful API for answers

Content

- GET /api/answers/{answerId}
- GET /api/answers/{answerId}/comments
- POST /api/answers
- POST /api/answers/{answerId}/comments
- DELETE /api/answers/{answerId}

Details

GET /api/answers/{answerId}

- 描述：获取某个回答
- 响应成功
 - 状态码
 - 200 OK
 - 响应体样例

```
{
  "id": 1,
  "answerer": "lisa",
  "content":"hello world",
  "question_title": "hello world?",
  "comments": 10,
  "url":"/api/answers/1",
  "question_url": "/api/questions/1911028",
  "answerer_url": "/api/users/1",
  "answerer_avatar_url": "/api/avatars/1121",
  "comments_url": "/api/answers/1/comments",
  "created_at": 1490970098344
}
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message":"Server is busy",
  "api_url":"/api"
}
```

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GET /api/answers/{answerId}/comments

- 描述：获取对某回答的评论列表
- 响应成功
 - 状态码

- 200 OK
- 响应体样例

```
[
  {
    "id": 1231,
    "commenter": "lisa",
    "content": "这回答真的很专业，受益匪浅！ ",
    "url": "/api/comments/1231",
    "commenter_url": "/api/users/2",
    "commenter_avatar_url": "/api/avatars/2",
    "created_at": 1491659279067
  },
  {
    "id": 1211,
    "commenter": "simon",
    "content": "回答不错，各答主点个赞！ ",
    "url": "/api/comments/1211",
    "commenter_url": "/api/users/491",
    "commenter_avatar_url": "/api/avatars/22",
    "created_at": 1491659279067
  },
  ...
]
```

- 响应失败
 - 状态码
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/answers`

- 描述：创建一条对某问题的回答
- 请求：
 - 请求体参数：
 - `answer_commenter_email_or_phone` : `String` `REQUIRED` 答主的账号(E-mail或手机号)
 - `answer_commenter_password` : `String` `REQUIRED` 答主的密码
 - `question_id` : `Number` `REQUIRED` 相关问题id
 - `content` : `String` `REQUIRED` 回答内容
 - 请求体样例

```
{
  "answerer_email_or_phone": "141120201@smail.nju.edu.cn",
  "answerer_password": "c21tb25AeWVhaC5uZXQ=",
  "question_id": 2,
  "content": "图灵是一位伟大的科学家啊"
}
```

- 响应成功
 - 状态码

- 201 CREATED
- 响应体样例

```
{
  "url": "/api/answers/1234983"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/answers/{answerId}/favorites`

- 描述：收藏该回答
- 请求：
 - 请求体参数：
 - `favoriter_email_or_phone` : `String` `REQUIRED` 收藏者的账号(E-mail或手机号)
 - `favoriter_password` : `String` `REQUIRED` 收藏者的密码
 - 请求体样例

```
{
  "favoriter_email_or_phone": "141120201@smail.nju.edu.cn",
  "favoriter_password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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POST `/api/answers/{answerId}/comments`

- 描述：创建一条对该回答的评论
- 请求：
 - 请求体参数
 - `commenter_email_or_phone` : `String` `REQUIRED` 评论者的账号(E-mail或手机号)
 - `commenter_password` : `String` `REQUIRED` 评论者的密码
 - `content` : `String` `REQUIRED` 评论内容
 - 请求体样例

```
{
  "commenter_email_or_phone": "141120201@smail.nju.edu.cn",
  "commenter_password": "c21tb25AewVhaC5uZXQ=",
  "content": "答主好文采！"
}
```

- 响应成功
 - 状态码
 - 201 CREATED
 - 响应体样例

```
{
  "url": "/api/comments/10086233"
}
```

- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 404 NOT FOUND
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Not found",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```



```
}

```

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DELETE `/api/answers/{answerId}`

- 描述：删除一个回答
- 请求：
 - 请求体参数
 - `answerer_email_or_phone` : `String` `REQUIRED` 回答者的账号(E-mail或手机号)
 - `answerer_password` : `String` `REQUIRED` 回答者的密码
 - 请求体样例

```
{
  "answerer_email_or_phone": "141120201@smail.nju.edu.cn",
  "answerer_password": "c21tb25AeWVhaC5uZXQ="
}
```

- 响应成功
 - 状态码
 - 204 NO CONTENT
 - 无响应体
- 响应失败
 - 状态码
 - 401 UNAUTHORIZED
 - 503 SERVICE UNAVAILABLE
 - 响应体

```
{
  "message": "Invalid user or password",
  "api_url": "/api"
},
{
  "message": "Server is busy",
  "api_url": "/api"
}
```

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