

使用手册

计算机学院 3170102412 戴将来

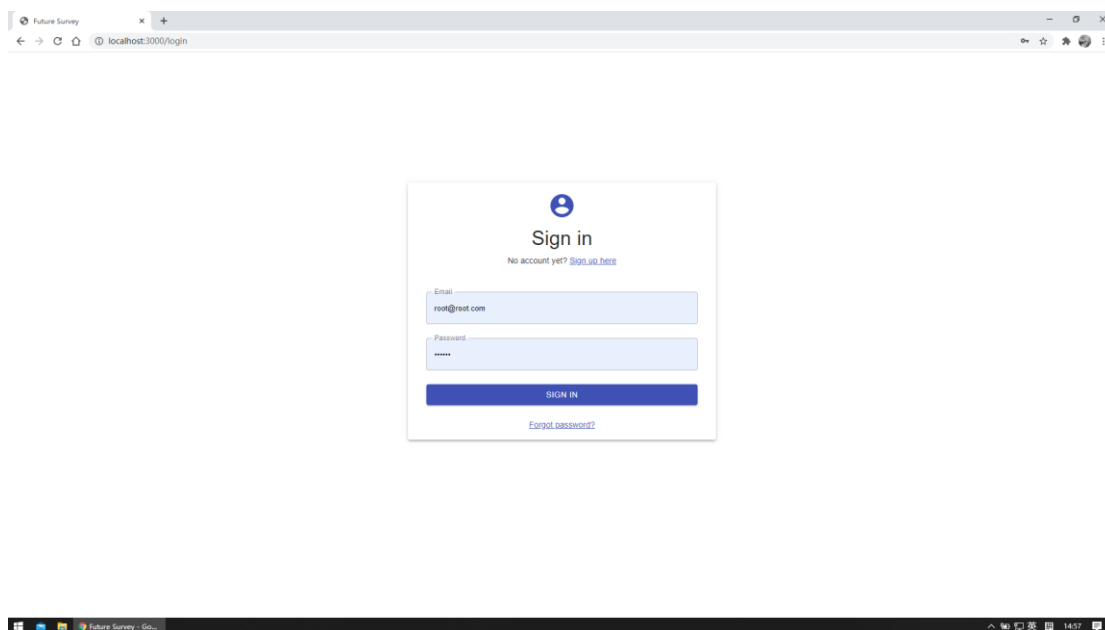
本使用手册主要介绍 **Future Survey 问卷调查系统** 的使用流程, 同时对于需求报告中功能点的实现进行了覆盖式介绍。

注意本使用手册并不包含对代码部署和运行的内容指导。如果有相关需要, 请阅读本项目的 Readme 文档。

1 登录与注册

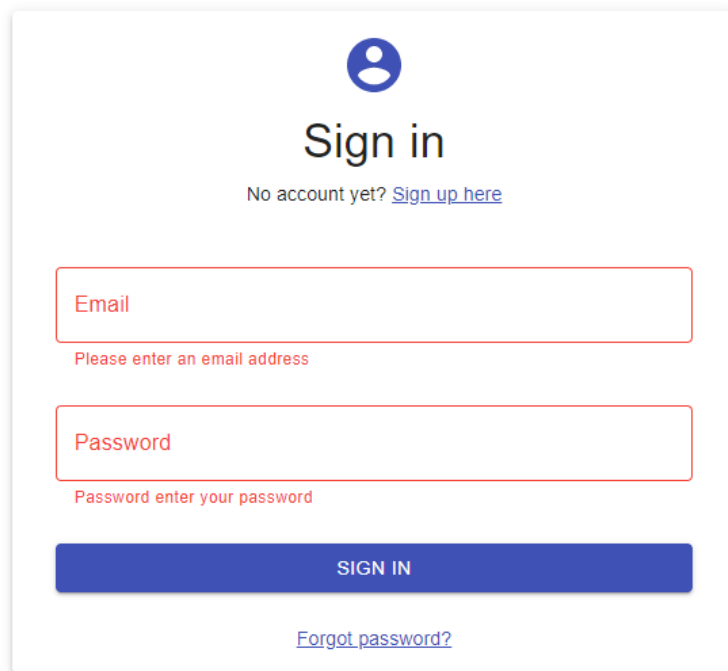
1.1 登陆界面

刚刚进入应用时, 检测到本地无账户相关 cookies, 会自动弹出登陆界面。



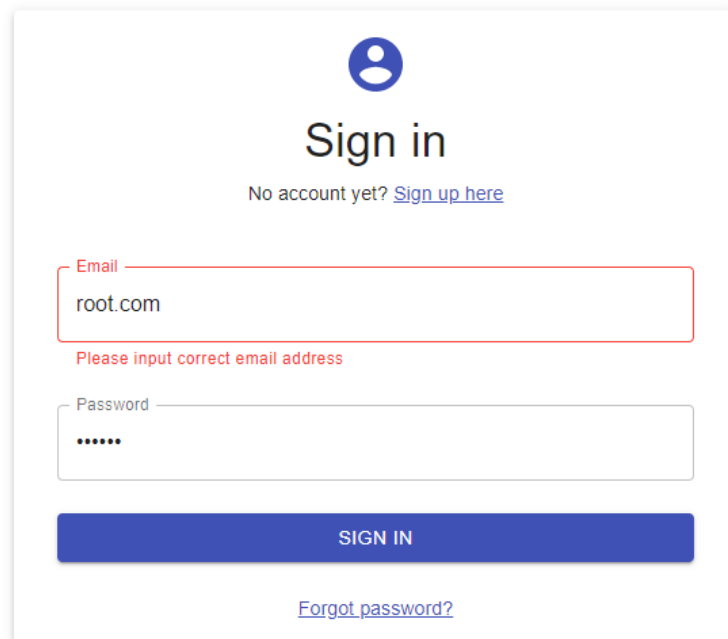
数据库内置 root 用户的用户名为 root@root.com, 密码为 123456, 在数据库完成初始化且服务器端开启的状况下可以无需注册而直接登录。

登录表单会对输入为空的情况做验证：



A sign-in form with a blue user icon at the top. Below the icon is the text "Sign in" and a link "No account yet? [Sign up here](#)". The form contains two input fields: "Email" and "Password". Both fields have red borders and red error messages below them: "Please enter an email address" and "Password enter your password". A blue "SIGN IN" button is at the bottom, with a link "[Forgot password?](#)" below it.

也会通过正则表达式对邮箱的输入格式做验证：

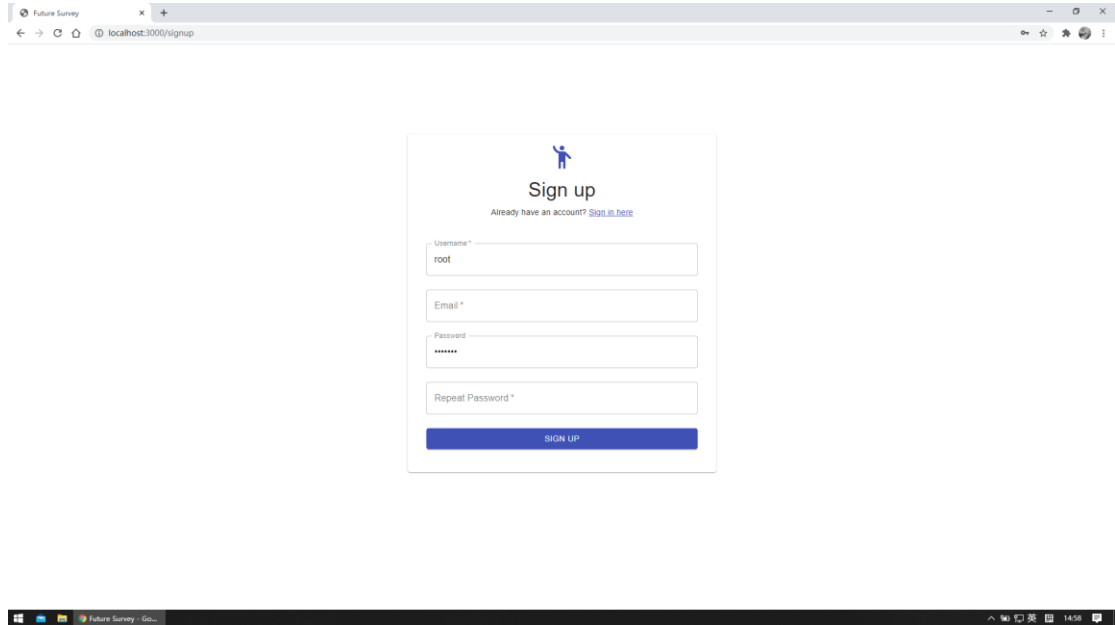


A sign-in form with a blue user icon at the top. Below the icon is the text "Sign in" and a link "No account yet? [Sign up here](#)". The form contains two input fields: "Email" and "Password". The "Email" field has a red border and a red error message "Please input correct email address" below it. The "Password" field has a grey border and a red error message "Password" above it. A blue "SIGN IN" button is at the bottom, with a link "[Forgot password?](#)" below it.

通过点击上方的 Sign up here 链接，可以跳转到用户注册页面。

1.2 用户注册页面

用户注册页面同登录页面的内容基本一致。



Future Survey x +

localhost:3000/signup

Sign up

Already have an account? [Sign in here](#)

Username *
root

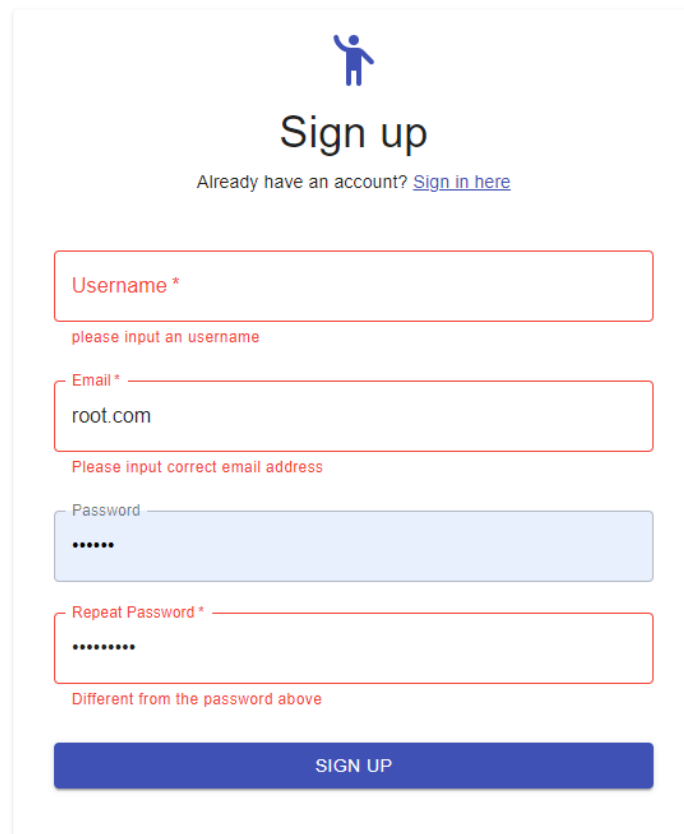
Email *

Password

Repeat Password *

SIGN UP

同样会对输入做校验，包括空输入、非法邮箱格式与不匹配的重复密码等：



Sign up

Already have an account? [Sign in here](#)

Username *
please input an username

Email *
root.com
Please input correct email address

Password

Repeat Password *

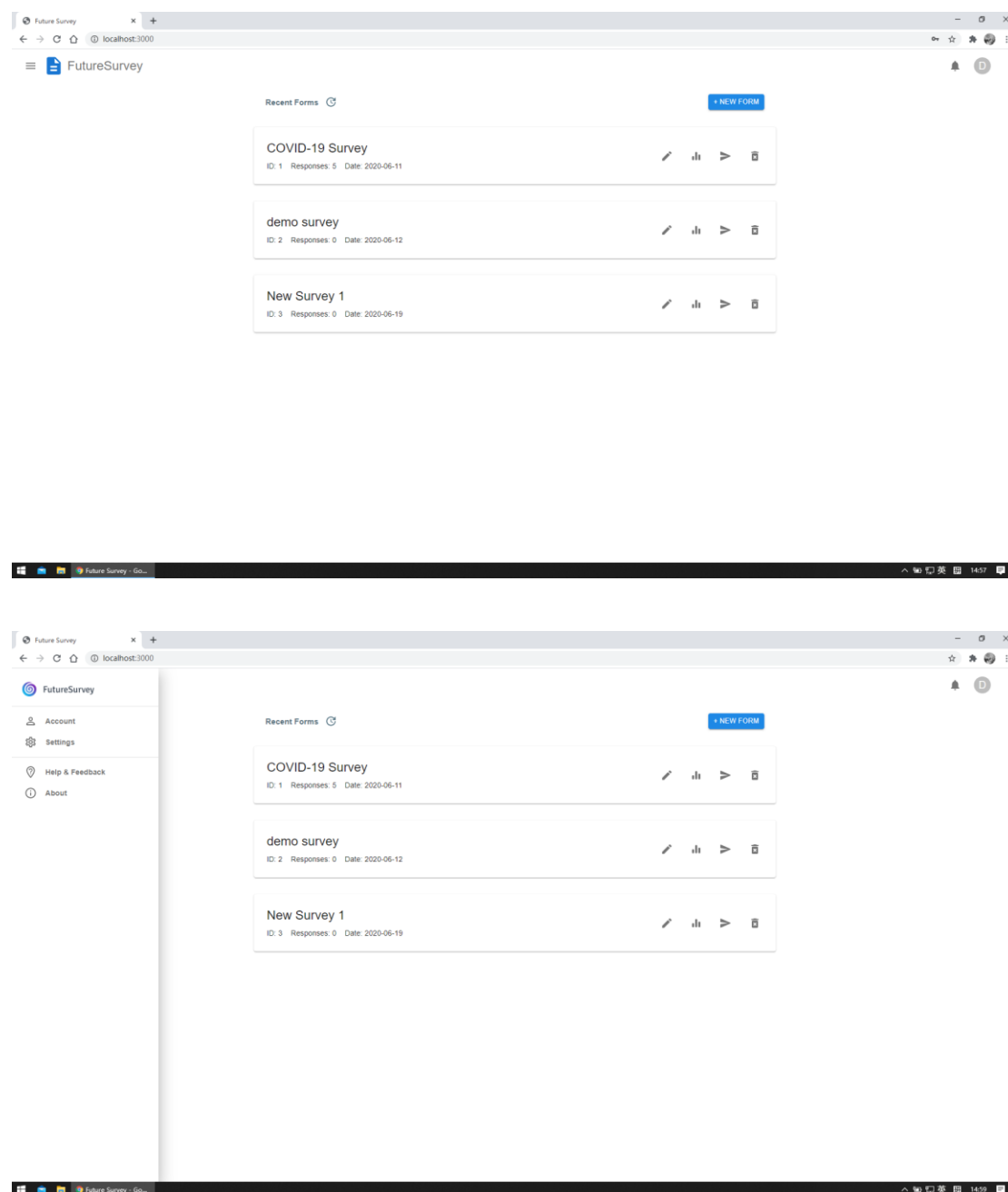
Different from the password above

SIGN UP

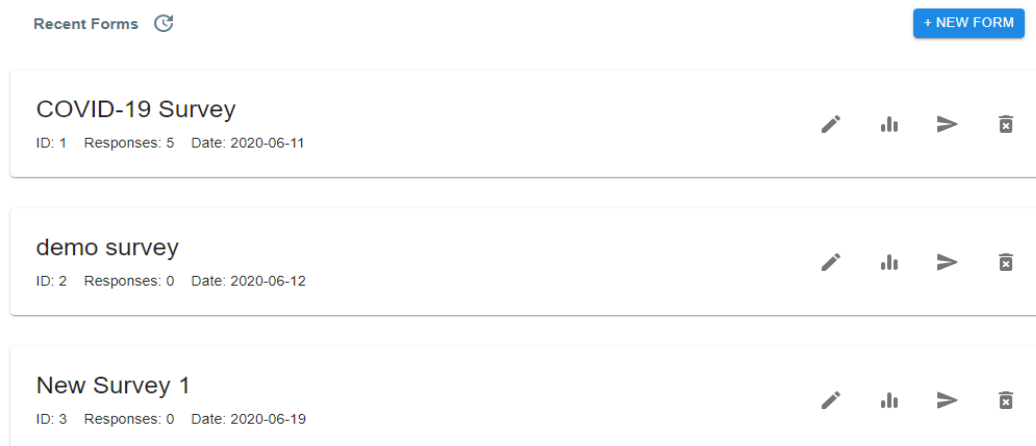
如果用户名或邮箱已经被占用，则无法成功进行注册。如果前端和后端都通过了校验，则注册成功，系统将分发一个 cookie，页面将自动跳转至用户主界面。

2 用户主界面

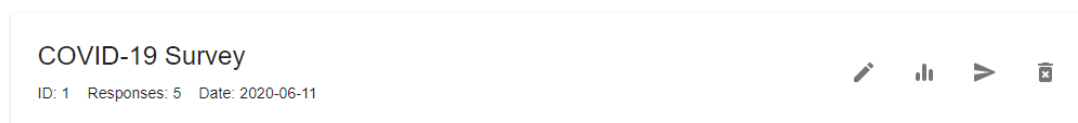
用户主界面由应用栏（AppBar）、侧边栏（AppBarDrawer）和问卷卡片组成。其中侧边栏默认隐藏，可用左上角按钮调出（隐藏了一个上网拼凑的 LOGO）。



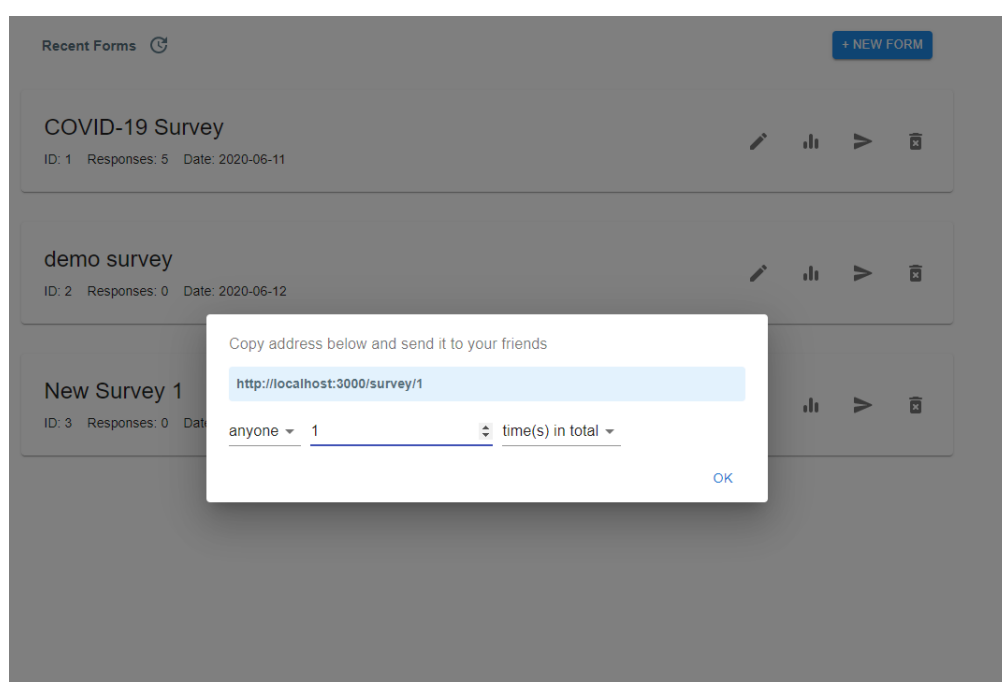
作为一个问卷 web 应用, 最重要的区域是中间的问卷管理区。右上角的“+ New Form”按钮能够新建一个问卷并直接转入其编辑页面。



下方每一张问卷卡片代表一份问卷, 上面包含 ID、答卷数、编辑日期等信息, 卡片的右侧简洁易懂的图标按钮提供了各种操作的入口, 分别是编辑、统计、发送和删除。

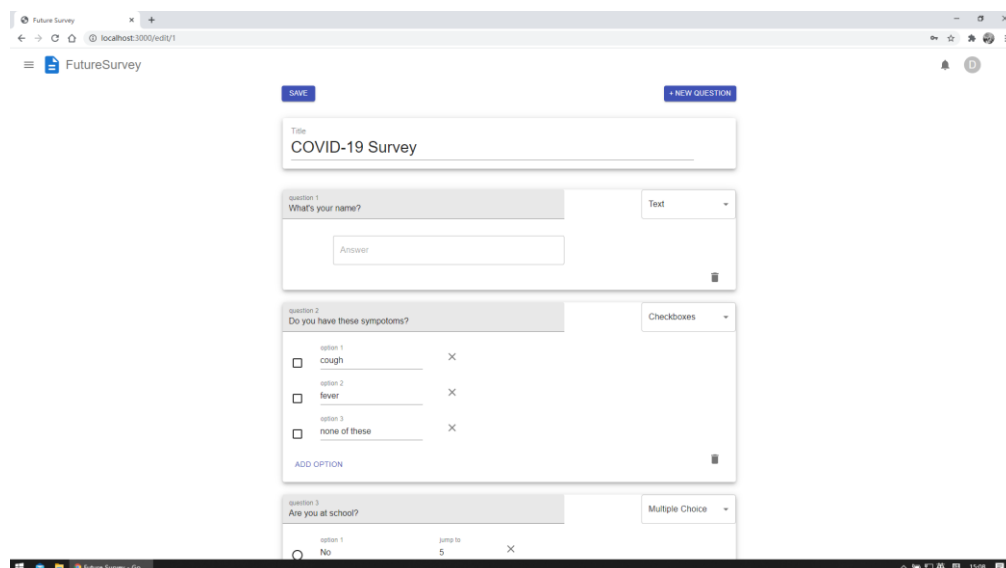


编辑、统计分别连接不同的页面。这里展示发送按钮的效果。通过对话框区域可设置发送对象和填写频率, 点击“OK”即能保存; 复制问卷链接也就可以分发问卷了。

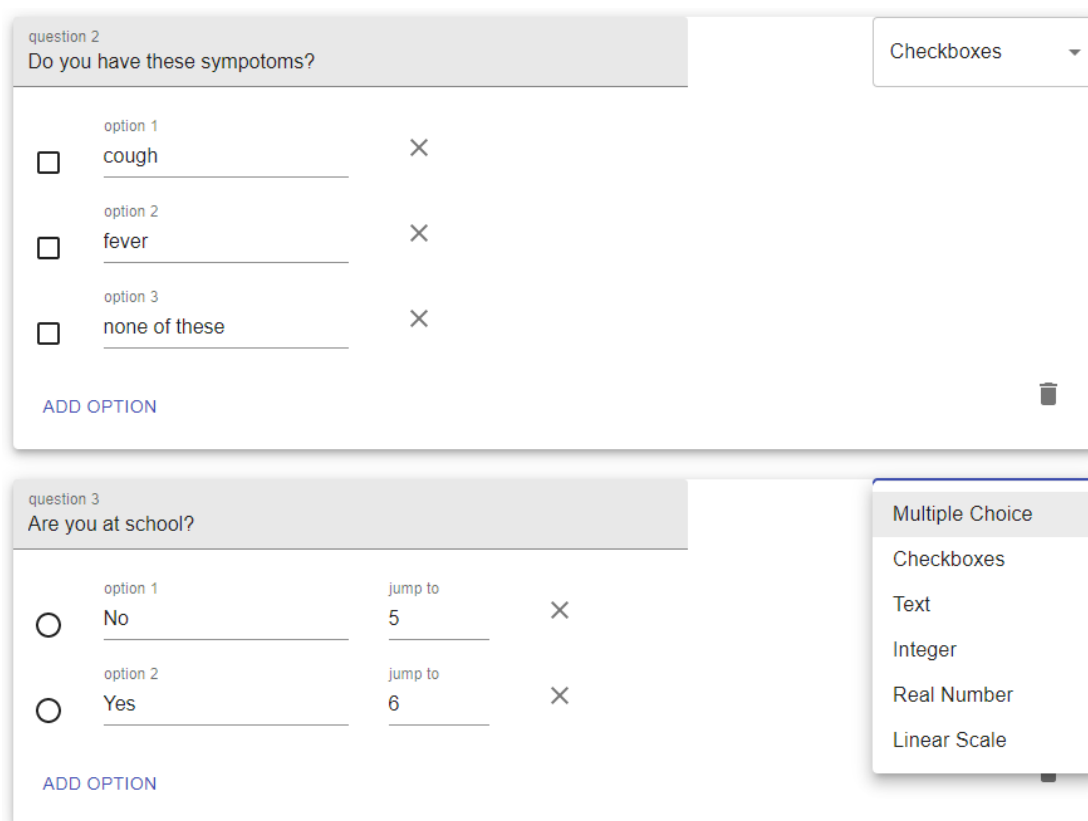


3 问卷设计页面

点击问卷卡片的第一个编辑按钮便进入了问卷的设计页面。



在设计页面中，问卷由问卷标题与一个个可编辑的问题卡片组成。问题卡片可以改变问题种类，编辑问题内容乃至设置级联选项。



最上方的灰色输入框用于编辑问题的题干内容；下方则是答题块的编辑区，因问题种类而异，之后会各自展示；右上方是问题类型的选项卡；右下方是删除问题的图标按钮。

3.1 单选题 (Multiple Choice)

在问题卡片右上角的选项卡中选择 multiple choice，即可得到单选题的编辑界面。

The screenshot shows the 'Multiple Choice' question editor. At the top, there's a header bar with 'question 3' and the question text 'Are you at school?'. To the right of the header is a dropdown menu set to 'Multiple Choice'. Below the header, there are three options, each with a radio button, a text input field, a 'jump to' input field, and a delete 'X' button. Option 1 is 'No' with 'jump to 5'. Option 2 is 'Yes' with 'jump to 6'. Option 3 is an empty field with an empty 'jump to' field. At the bottom left is a blue 'ADD OPTION' button, and at the bottom right is a trash icon.

option	text	jump to	delete
option 1	No	5	X
option 2	Yes	6	X
option 3			X

ADD OPTION

在答题块编辑区，每行代表一个选项，每个选项后面的“jump to”输入框代表该选项级联的问题序号。如图中所示，选择选项 1“No”，则会级联显示问题 5，如果选择选项 2“Yex”，则会级联显示问题 6，问题 5 不会出现。

每条选项最右的 X 用于删除该选项，下方的“ADD OPTION”按钮用于添加新选项。

3.2 多选题 (Checkboxes)

在问题卡片右上角的选项卡中选择 CheckBoxes，即可得到多选题的编辑界面。

The screenshot shows the 'Checkboxes' question editor. At the top, there's a header bar with 'question 2' and the question text 'Do you have these symptoms?'. To the right of the header is a dropdown menu set to 'Checkboxes'. Below the header, there are three options, each with a checkbox, a text input field, and a delete 'X' button. Option 1 is 'cough'. Option 2 is 'fever'. Option 3 is 'none of these'. At the bottom left is a blue 'ADD OPTION' button, and at the bottom right is a trash icon.

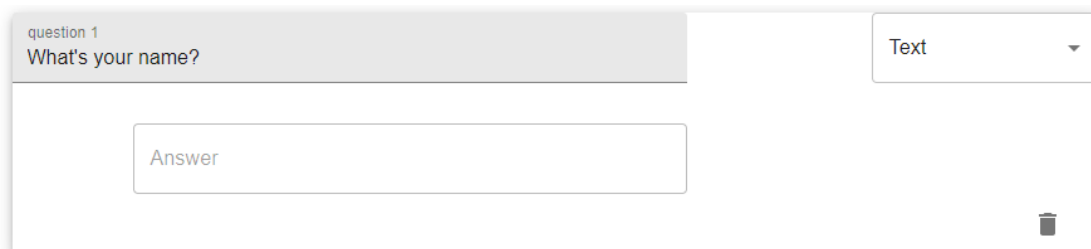
option	text	delete
option 1	cough	X
option 2	fever	X
option 3	none of these	X

ADD OPTION

内容与单选题相似，但多选题是选项框，而非单选题中的 Radio 单选组件。

3.3 文本填空 (Text)

在问题卡片右上角的选项卡中选择 Text，即可得到文本填空题的编辑界面。

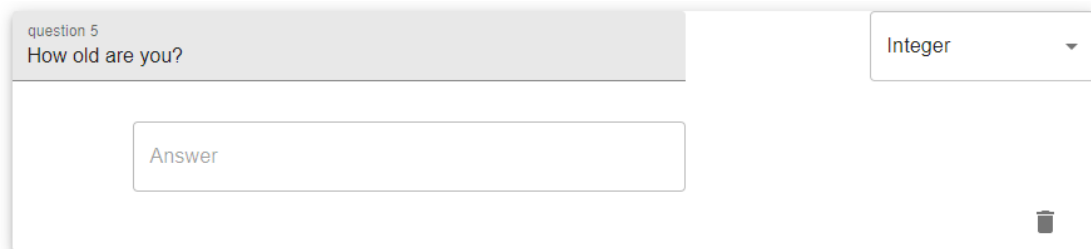


The screenshot shows a question card for 'question 1' with the text 'What's your name?'. In the top right corner, there is a dropdown menu currently set to 'Text'. Below the question text is a large rectangular input field with the placeholder text 'Answer'. In the bottom right corner of the card, there is a small trash can icon.

Text、Integer、Real Number、Scale 的答题块均不需要编辑，所以这些问题类型的卡片中的答题块编辑区只是起到展示效果而已。

3.4 整数填空 (Integer)

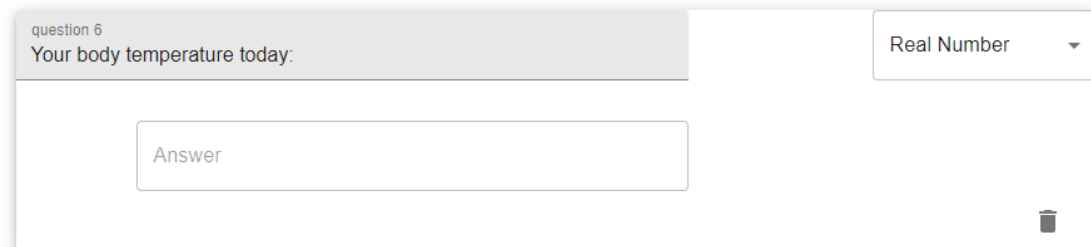
在问题卡片右上角的选项卡中选择 Integer，即可得到整数填空题的编辑界面。



The screenshot shows a question card for 'question 5' with the text 'How old are you?'. In the top right corner, there is a dropdown menu currently set to 'Integer'. Below the question text is a large rectangular input field with the placeholder text 'Answer'. In the bottom right corner of the card, there is a small trash can icon.

3.5 实数填空 (Real Number)

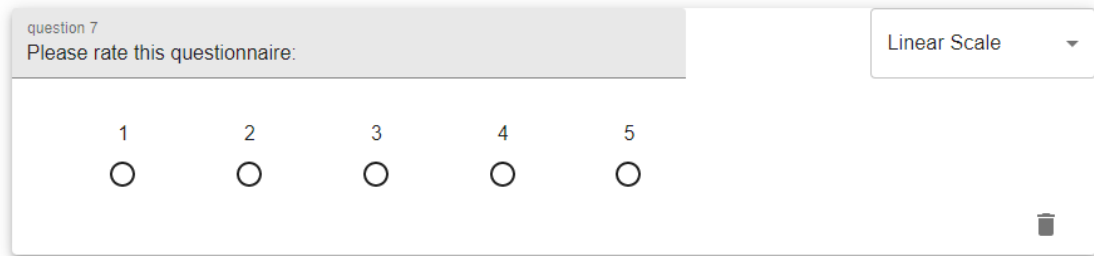
在问题卡片右上角的选项卡中选择 Real Number，即可得到实数填空题的编辑界面。



The screenshot shows a question card for 'question 6' with the text 'Your body temperature today:'. In the top right corner, there is a dropdown menu currently set to 'Real Number'. Below the question text is a large rectangular input field with the placeholder text 'Answer'. In the bottom right corner of the card, there is a small trash can icon.

3.6 评分 (Linear Scale)

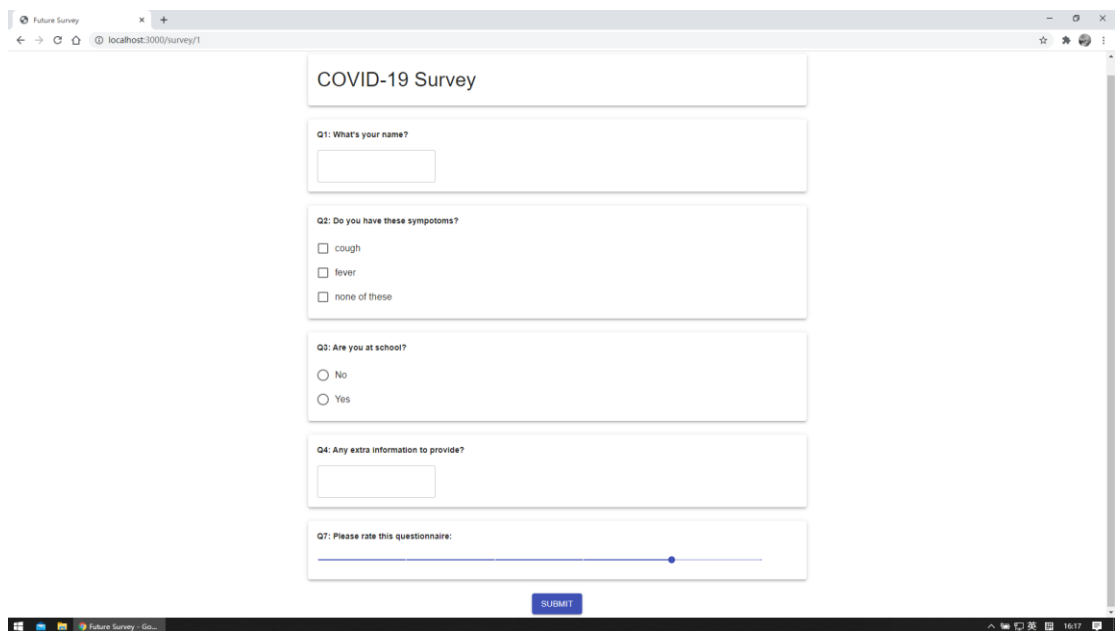
在问题卡片右上角的选项卡中选择 Linear Scale，即可得到评分题的编辑界面。



The screenshot shows the editor for 'question 7' with the text 'Please rate this questionnaire:'. In the top right corner, a dropdown menu is set to 'Linear Scale'. The main area displays a horizontal scale with five points, each labeled with a number (1 to 5) above an empty circle. A trash icon is located in the bottom right corner.

4 问卷填写页面

问卷填写界面同样以问题卡片为基础元素，但因为只负责填写功能，界面简洁许多。



The screenshot shows a web browser displaying a 'COVID-19 Survey' form. The form consists of several question cards: 'Q1: What's your name?' with a text input field; 'Q2: Do you have these symptoms?' with three checkboxes for 'cough', 'fever', and 'none of these'; 'Q3: Are you at school?' with two radio buttons for 'No' and 'Yes'; 'Q4: Any extra information to provide?' with a text input field; and 'Q7: Please rate this questionnaire:' with a horizontal linear scale. A blue 'SUBMIT' button is at the bottom center of the form.

4.1 单选题 (Multiple Choices)

单选题的填写界面如图所示。

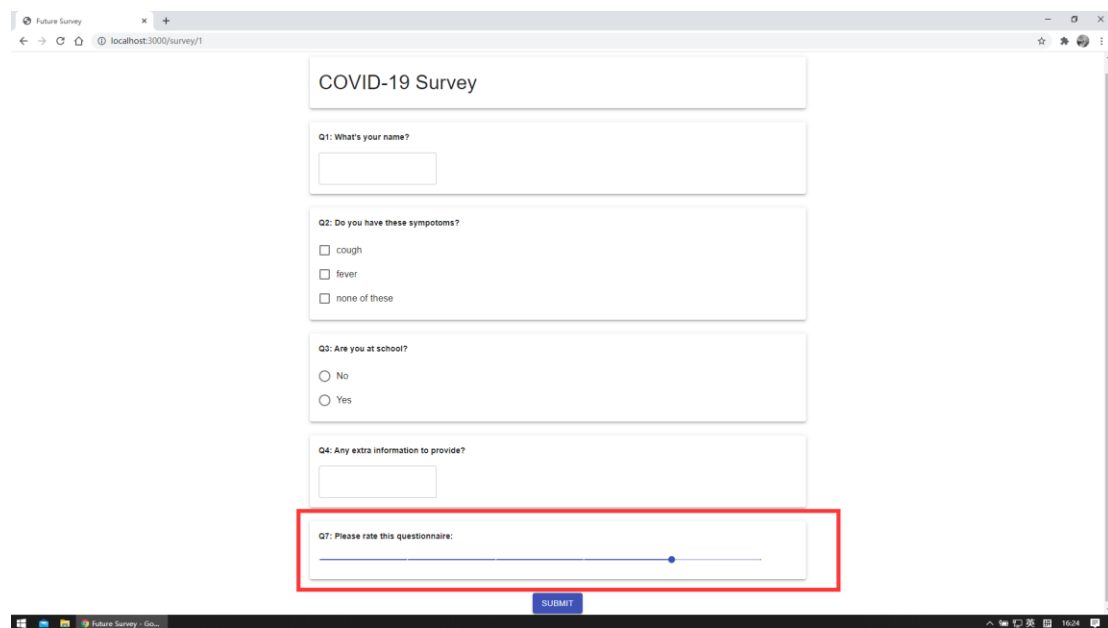
Q3: Are you at school?

☐ No

☐ Yes

在这份问卷 demo 中，这两个选项分别级联了第 5 题和第 6 题，那么在填写界面级联功能将发挥相应的作用。

未选择时，如填写页面整体图所示，没有显示第 5 题或第 6 题。



COVID-19 Survey

Q1: What's your name?

Q2: Do you have these symptoms?

☐ cough

☐ fever

☐ none of these

Q3: Are you at school?

☐ No

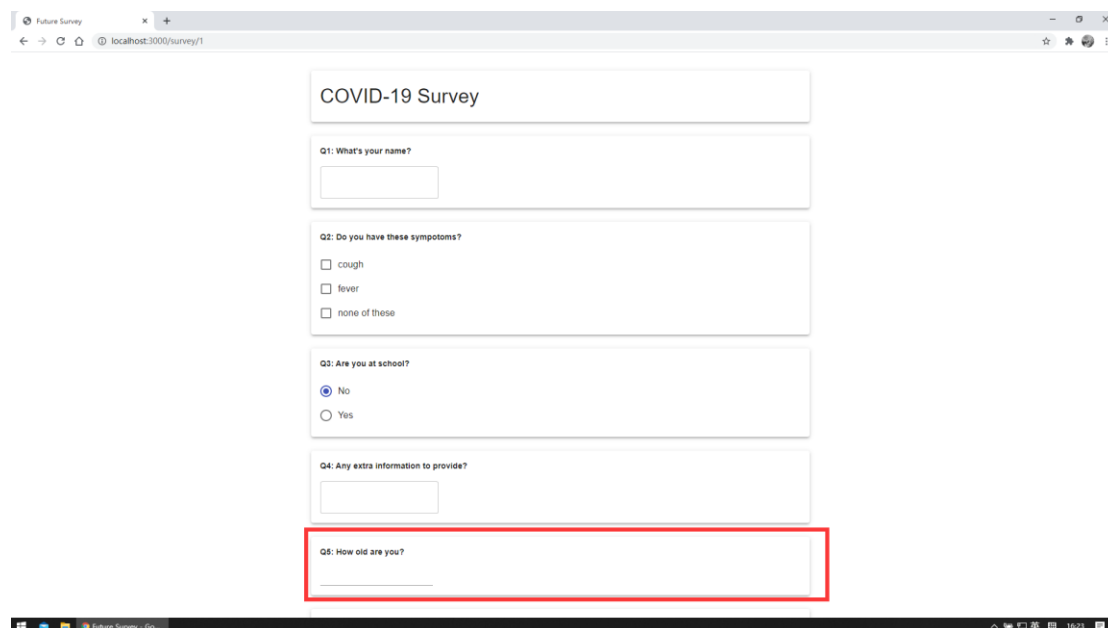
☐ Yes

Q4: Any extra information to provide?

Q7: Please rate this questionnaire:

SUBMIT

选择 No 时，将显示第 5 题。



COVID-19 Survey

Q1: What's your name?

Q2: Do you have these symptoms?

☐ cough

☐ fever

☐ none of these

Q3: Are you at school?

☒ No

☐ Yes

Q4: Any extra information to provide?

Q5: How old are you?

选 Yes 时，将显示第 6 题。

The screenshot shows a web browser window with the title 'Future Survey' and the URL 'localhost:3000/survey/1'. The survey form is titled 'COVID-19 Survey' and contains the following questions:

- Q1: What's your name? (Text input field)
- Q2: Do you have these symptoms? (List of checkboxes: cough, fever, none of these)
- Q3: Are you at school? (Radio buttons: No, Yes)
- Q4: Any extra information to provide? (Text input field)
- Q6: Your body temperature today: (Text input field, highlighted with a red box)

4.2 多选题 (Checkboxes)

多选题的填写界面如图所示。

The screenshot shows a question titled 'Q2: Do you have these symptoms?'. It has three options, each with a checkbox:

- ☒ cough
- ☒ fever
- ☐ none of these

4.3 文本填空 (Text)

文本填空题的填写界面如图所示。可以看出可以完全适应多行输入的场景。

The screenshot shows a question titled 'Q4: Any extra information to provide?'. It has a text input field containing the text:

CHINA!
CHINA!!
CHINA!!!

4.4 整数填空 (Integer)

整数填空题的填写界面如图所示。

The screenshot shows a form for question Q5: "How old are you?". It features a text input field with the number "1" entered. To the right of the input field is a small downward-pointing arrow icon, indicating a dropdown menu.

4.5 实数填空 (Real Number)

实数填空题的填写界面如图所示。

The screenshot shows a form for question Q6: "Your body temperature today:". It features a text input field with the number "36.6" entered. To the right of the input field is a small downward-pointing arrow icon, indicating a dropdown menu.

4.6 评分 (Scale)

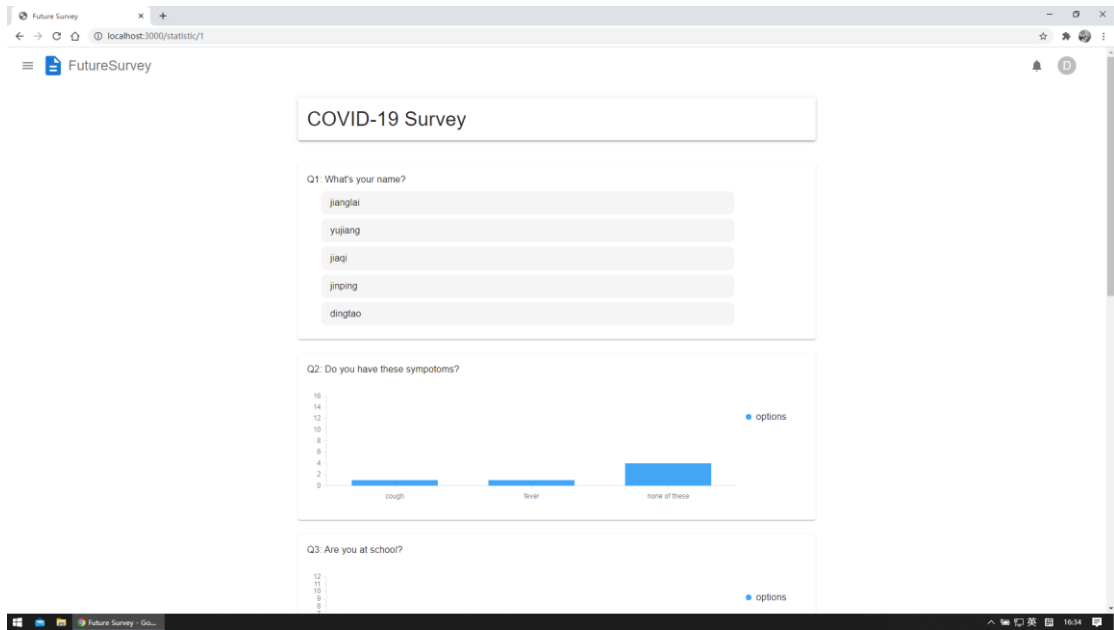
评分题的填写界面如图所示。

The screenshot shows a form for question Q7: "Please rate this questionnaire:". It features a horizontal line with a blue dot at the right end. Above the blue dot is a small blue circle containing the number "4", indicating the selected rating.

5 问卷统计页面

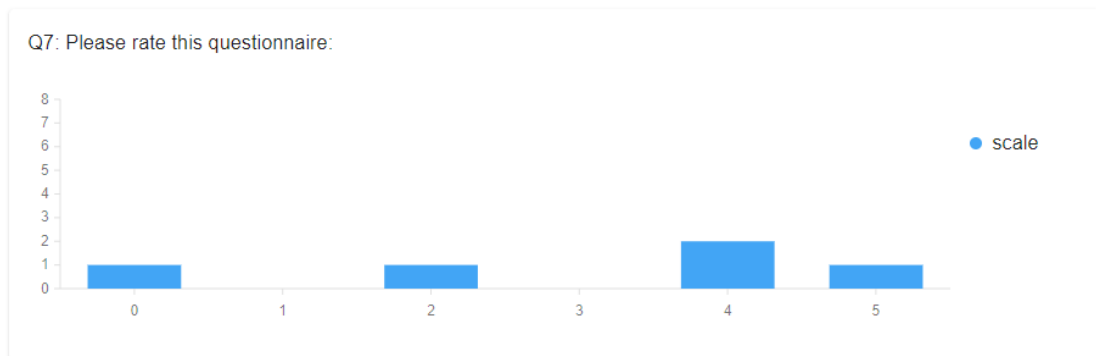
点击主界面问卷卡片上的统计按钮，则会自动跳转到该问卷的统计页面。

问卷 demo (COVID-19 Survey) 在初始化数据库中已经内置了数套答卷数据，可以自动给出如下的统计页面。



5.1 图表统计

对于单选题、多选题、评分题（实际上是以离散数字为选项值的单选题），可以通过对答卷选项的统计生成 web 图表。



5.2 数值统计

对于数值填空题，这之外还会给出有关数字的统计值。



5.3 条目统计

对于一般类型的文字填空题，会给出反馈条目。

Q4: Any extra information to provide?

boring

I'm in Shanxi!!!

tired now

I'm the king!

I'm Henanese !!!

6 更多支持

感谢您的使用。

请发送电子邮件至 3170120412@zju.edu.cn，与设计者和开发人员取得联系。