Boulder Climbing System

Start of Block: Participant Information Sheet

PARTICIPANT INFORMATION FORM

Dear Participant,

Thank you for agreeing to participate in this questionnaire survey in connection with our Software Engineering Group Project at the University of Nottingham Ningbo. The project is a study of developing a boulder climbing software. This software aims to help climbers to find routes on bouldering walls of different difficulty at the Sports Center at UNNC. Users can also leave feedback, such as comments and rating for the routes.

Your participation in the survey is voluntary. You are able to withdraw from the survey at any time and to request that the information you have provided is not used in the project. Any information provided will be confidential. Your identity will not be disclosed in any use of the information you have supplied during the survey.

The research project has been reviewed according to the ethical review processes in place in the University of Nottingham Ningbo. These processes are governed by the University's Code of Research Conduct and Research Ethics. Should you have any question now or in the future, please contact me or my supervisor. Should you have concerns related to my conduct of the survey or research ethics, please contact my supervisor or the University's Ethics Committee.

Yours truly,
Yiming Chen

Contact details:
Student Researcher: Yiming Chen (zy22026@nottingham.edu.cn)
Supervisor: Paul Dempster (paul.dempster@nottingham.edu.cn)
University Research Ethics Committee Coordinator: Ms. Joanna Huang (Joanna.Huang@nottingham.edu.cn)

End of Block: Participant Information Sheet

Start of Block: Participant Consent Form

PARTICIPANT CONSENT FORM **Project title:** Boulder Climbing System
Researcher's name: Yiming Chen
Supervisor's name: Paul Dempster
I have read the Participant Information Sheet and the nature and purpose of the research

project have been explained to me. I understand and agree to take part.

I understand the purpose of the research project and my involvement in it.

I understand that I may withdraw from the research project at any stage and that this will not affect my status now or in the future.

I understand that while information gained during the study may be published, I will not be identified and my personal results will remain confidential.

I understand that data will be stored in accordance with data protection laws.

I understand that I may contact the researcher or supervisor if I require more information about the research and that I may contact the Research Ethics Sub-Committee of the University of Nottingham, Ningbo if I wish to make a complaint related to my involvement in the research.

Contact details:
Researcher: Yiming Chen (zy22026@nottingham.edu.cn)
Supervisor: Paul Dempster (paul.dempster@nottingham.edu.cn)
UNNC Research Ethics Sub-Committee Coordinator: Ms. Joanna Huang (Joanna.Huang@nottingham.edu.cn)

Q Do you consent to take part in this survey?
[Please select one of the following.]

- ○ Yes I do.
- ○ No I do not.

Skip To: End of Survey If Do you consent to take part in this survey? [Please select one of the following.] = No I do not.

End of Block: Participant Consent Form

Start of Block: Questions

Q1 How do you find out about boulder climbing places?
[Please select one or more of the following.]

- [ ] From flyers
- [ ] From search engines
- [ ] From friend's advice
- [ ] From apps

Q2 How often do you go boulder climbing?
[Please select one of the following.]

- ○ Every day
- ○ 2-3 days a week
- ○ Once a week
- ○ 2-3 times a month
- ○ Once a month
- ○ Once every 1-2 months
- ○ Rarely

Q3 How do you usually select a route to climb?
[Please select one or more of the following.]

- [ ] I just follow one of the gym's planned routes
- [ ] From friends' recommendations
- [ ] From experience
- [ ] Randomly

Q4
On average how long does it take for you to finish a route?
[Please select one of the following.]

- ○ < 1 minute
- ○ 2 - 10 minutes
- ○ > 10 minutes
- ○ 1 hour
- ○ 2 hours
- ○ < 1 day
- ○ Days
- ○ Months

Q5 What kind of difficulties do you have during climbing?
[Please fill in the text box below.]

_____

_____

Q6 What will make your climbing easier?
[Please fill in the text box below.]

Q7 Have you ever used an app related to bouldering before?
[Please select one of the following.]

- ○ Yes
- ○ No

Display This Question:

If Have you ever used an app related to bouldering before? [Please select one of the following.] = Yes

Q7.1 Which app(s) did you use?
[Please fill in the text box below.]

Display This Question:

If Have you ever used an app related to bouldering before? [Please select one of the following.] = Yes

Q7.2 Which feature(s) did you like the most?
[Please fill in the text box below.]

_____

_____

_____

_____

_____

Display This Question:

If Have you ever used an app related to bouldering before? [Please select one of the following.] = Yes

Q7.3 In what way(s) did you find using the app(s) you mentioned difficult?
[Please fill in the text box below.]

_____

_____

_____

_____

_____

End of Block: Questions

Start of Block: Scenario

SCENARIO

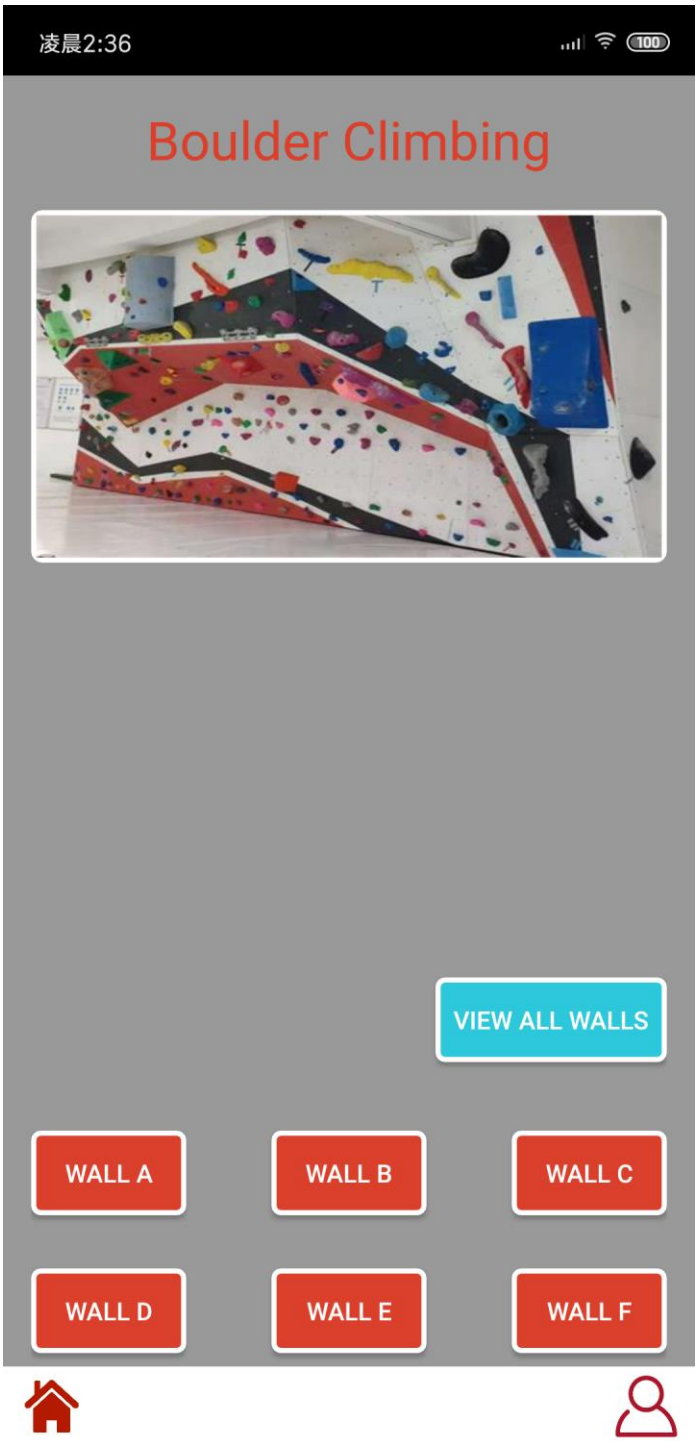
Our boulder climbing mobile application will let you view the walls available and the list of routes with their details, such as ratings, layout and level of difficulty. Additionally, it will have features which will let you leave feedback on walls and record the time you spent on finishing climbing a route. You can show it to your friends or challenge them on who will finish a route faster.

On the next page, you can find the screenshots of our app's user interface. Your answers will help us on improving it.

End of Block: Scenario

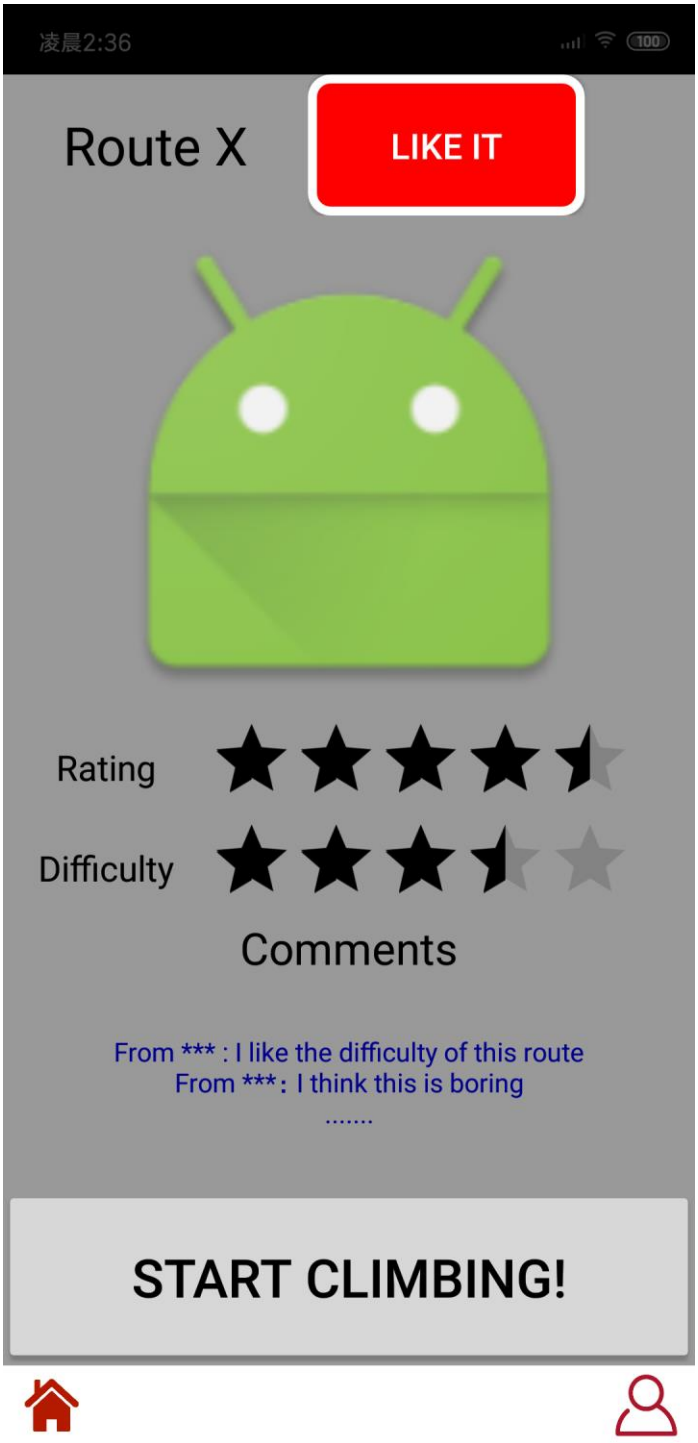
Start of Block: Screenshots of GUI prototype

This is the Home page which shows the most popular walls for climbing and a button to view all the walls available.



This is the Route page which shows the list of routes of the specific wall chosen previously. You can have a list of the routes through filters by rating, difficulty or chat.

The page below shows information about the route chosen by user. This information can help you understand the difficulty and layout of a route, and if you want to climb it later you can save it and access it quickly when needed. Additionally, you can rate and leave your opinion on this route.



End of Block: Screenshots of GUI prototype

Start of Block: Questions

By answering the following questions, you will help us greatly in achieving a useful application.[For each question, select one option only or fill in the text box.]

Q8 Having seen the app's interface, I find that it:
[Please select one of the following.]

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Is user - friendly	○	○	○	○	○
Will give me a better understanding of the routes	○	○	○	○	○
Will help me decide on routes more easily	○	○	○	○	○

Q9 I want to know:
[Please select one of the following.]

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The height and difficulty of the wall beforehand	○	○	○	○	○
The types and number of handholds for a route	○	○	○	○	○
The time I took to finish climbing a route	○	○	○	○	○

Q10 I like:
[Please select one of the following.]

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The feedback and comments system	○	○	○	○	○
To access to my favorites routes quickly	○	○	○	○	○

Q11 I feel that:
[Please select one of the following.]

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The app will be helpful to me	○	○	○	○	○

Q12 I find the following features or information about the walls or routes missing...
[Please fill in the text box below.]

_____

_____

_____

_____

_____

Q13
As part of our project, we would like to contact you later to get more of your opinion. Do you consent in leaving your email address? It is not compulsory.
[Please select one of the following.]

○ Yes I consent

○ No I do not consent

Display This Question:

If As part of our project, we would like to contact you later to get more of your opinion. Do you co... = Yes I consent

*

Q13.1 Please write your email down below:

_____

End of Block: Questions