

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?

☐ Yes I do.

☐ No I do not.

Skip To: End of Survey If Do you consent to take part in this survey? = No I do not.

End of Block: Participant Consent Form

Start of Block: Questions

Q1 How usually do you find out about boulder climbing places? [Please select one 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 month
 - ☐ Very rarely
-

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

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

Q4 On average, how long do you take to finish climbing a route? [Please select one of the following.]

- ☐ < 1 minute
 - ☐ 2 - 10 minutes
 - ☐ > 10 minutes
 - ☐ 30 minutes
 - ☐ 1 hour
 - ☐ 2 hours
 - ☐ Days
 - ☐ Months
-

Q5 What kind of difficulties do you have during climbing?

Q6 What will make your climbing easier?

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 did you use?

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 did you like the most?

Display This Question:

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

Q7.3 Which feature did you have problems with?

End of Block: Questions

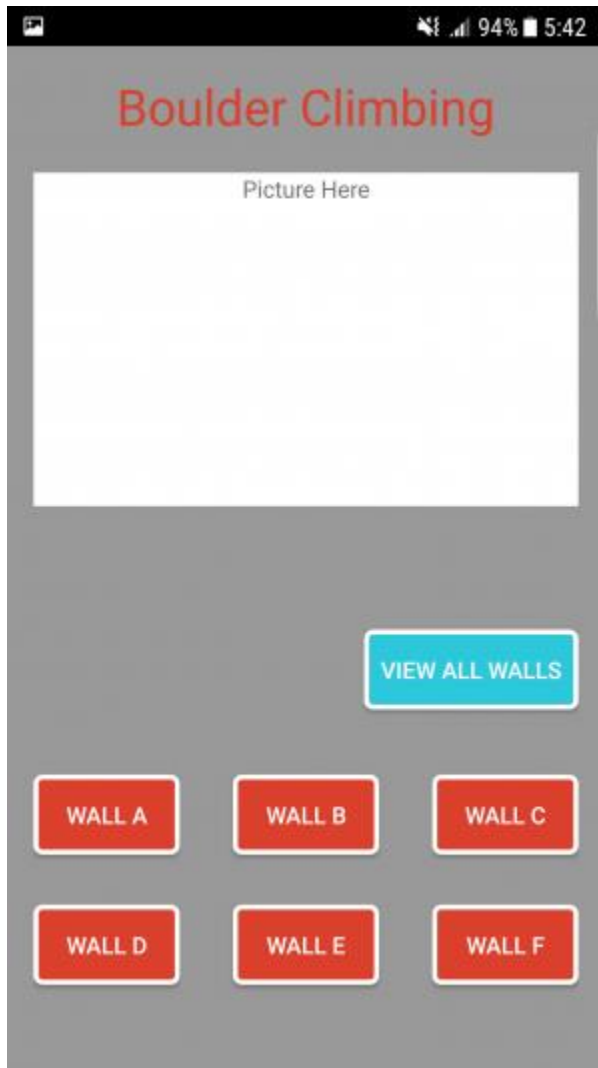
Start of Block: Scenario

SCENARIOOur boulder climbing mobile application will be where communication between climbers and detailed feedback are top priorities. It will support two languages, namely English and Chinese. Your climbing routes choice will be facilitated by our app. You can use our app without registration to view the walls available and the list of routes with their details (comments, ratings, and level of difficulty). But to leave your own feedback, you will be required to register. Additional features, for instance, a Timer, will be implemented to track your time taken for your climbing. On the next page, you can find the screenshots of our app's graphical user interface prototype.

End of Block: Scenario

Start of Block: Screenshots of GUI prototype

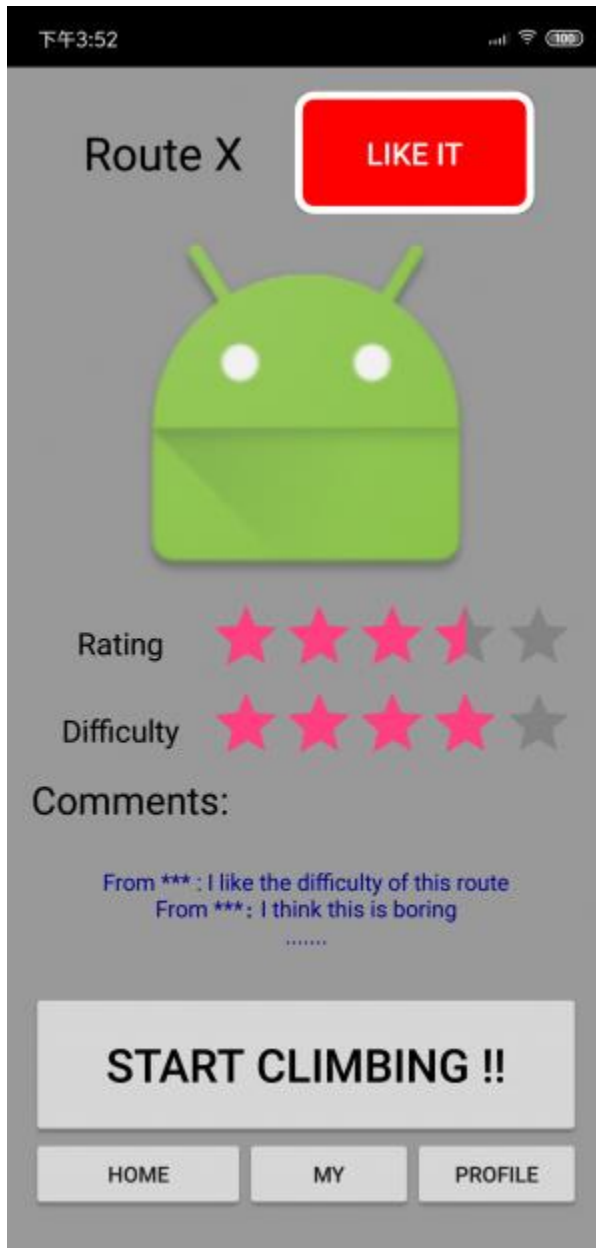
This is the Home page which shows the most popular walls for climbing and a button to view all the walls available.



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



This is the Route Information page of the specific route chosen previously. You can 'Like it' to save it, view the rating, difficulty, and comments. Clicking on the START CLIMBING will give you all the information you need to help you climb it. After logging in, you can manage your account and have access to additional features.



End of Block: Screenshots of GUI prototype

Start of Block: Questions

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

Q8 Having seen the prototype of the graphical user interface, I find it user-friendly. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q9 I find the following features or information about the walls or routes missing...

Q10 I think the app will help me have a better understanding of the routes. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q11 I like to know about the height and difficulty of the wall beforehand. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q12 I like to know the types and number of handholds for a route on the wall. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q13 I think the app will help me to decide on routes easier. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q14 I like the feedback system. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q15 I feel like the app will be very helpful to me. [Please select one of the following.]

- ☐ Strongly agree
 - ☐ Agree
 - ☐ Neutral
 - ☐ Disagree
 - ☐ Strongly disagree
-

Q16 Do you want to leave your email address to keep in touch when our app is done? [Please select one of the following.]

- ☐ Yes
 - ☐ No
-

Display This Question:

If Do you want to leave your email address to keep in touch when our app is done? [Please select one... = Yes



Q16.1 Please write your email down below:

End of Block: Questions
