

Turing Tumble Evaluation (Monitored)

The aim of this experiment is to test the usability of the Virtual Turing Tumble web application. A usability test can not be performed by the creator of the application as it would give biased results, this is why user evaluation is required. I will give you some time to read the tutorial page before moving on with the tasks described. This experiment will take you no longer than 40 minutes. After completing the tasks, please fill out this survey. I will be collecting online response data which will be securely stored online and is password protected, no personal data will be stored.

I will be monitoring you during this experiment, please ask me any questions during this task. I will be taking anonymous notes on how easily you manage to complete the tasks.

Please remember that it is the web application, not you, that is being evaluated. You are welcome to withdraw from the experiment at any time, and any data you give will be discarded, without consequence. If you withdraw from the experiment early you will not be able to view the debrief about the purposes of the experiment.

If you have any further questions about the experiment, please feel free to contact

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This study adheres to the BPS ethical guidelines and has been approved by the SoCS ethics committee of The University of Glasgow. Whilst you are free to discuss your participation in this study with the experimenter, if you would like to speak to someone not involved in the study, you may contact the chair of the SoCS Ethics Committee: Prof Matthew Chalmers.

* Required

1. Ethical Consent *

Mark only one oval.

- ☐ I have read the Ethics breif above and agree to voluntarily take part
- ☐ I do not agree and will not take part in this experiment

Task 1

These questions are related to the first task on the task sheet provided

2. Did you complete this task? *

Mark only one oval.

☐ Yes

☐ No

3. Have you heard of a Turing Tumble before this experiment? *

Mark only one oval.

☐ Yes

☐ No

4. How easy was it to select and place pieces onto the board? *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

5. Can you suggest any improvements to placing pieces on the board?

6. How easy was it to understand when a marble 'fell' based on the icon? *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

7. How easy was it to change the direction of a piece that was on the board? *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

8. Was it clear how many marbles had been collected at the bottom of the board? *

Mark only one oval.

☐ Yes

☐ Somewhat clear

☐ No

9. Do you have any suggestions to improve the experience of the previous task?

10. How intuitive was it that two Gearbits were connected? *

Mark only one oval.

	1	2	3	4	5	
Not very intuitive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very intuitive

11. Do you have any suggestions to improve the use of Gearbits?

Task 2

These questions are related to Task 2

12. Did you complete this task? *

Mark only one oval.

- ☐ Yes
☐ No

13. Has this task helped you understand the concept of bits and registers better? *

Mark only one oval.

- ☐ Yes
☐ Somewhat yes
☐ No

14. How easy are the piece icons to uniquely identify? *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

15. How easy was it to understand the different playback options available? *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

16. Do you have any suggestions to improve the playback features?

17. Do you have any suggestions to improve the ease of understanding the different pieces?

Task 3

The questions related to Task 3

18. Did you complete this task? *

Mark only one oval.

- ☐ Yes
- ☐ No

19. How clear was the puzzle list? *

Mark only one oval.

	1	2	3	4	5	
Difficult to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

20. Was the information provided relevant in choosing a puzzle? *

Mark only one oval.

	1	2	3	4	5	
Not useful information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very useful details

21. How useful was the difficulty filter? *

Mark only one oval.

	1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very useful

22. Would you suggest any other types of filters or search features?

23. How clear was it that some pieces couldn't be changed or deleted? *

Mark only one oval.

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

24. How clear was it that you only had a certain number of pieces to complete the puzzle? *

Mark only one oval.

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

25. Do you think these puzzles could assist in learning the Turing Tumble? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe

Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site

26. Did you complete this task? *

Mark only one oval.

☐ Yes

☐ No

27. How clear was the create starting set up phase?

Mark only one oval.

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

28. Was it easy to come up with a puzzle by thinking of the solution?

Mark only one oval.

	1	2	3	4	5	
Not easy at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

29. Can you suggest a different way of creating a puzzle?

30. Would you want to add any more descriptive attributes to your puzzle?

31. Any more suggestions to add?

Ethics
Debrief

As given in the ethics brief, the main aim of this experiment was to test the usability of the Virtual Turing Tumble web application. I was particularly interested in how easy it was to use the site after just reading the tutorial and if there was any major confusion in how to use the Turing Tumble board.

If you have any questions related to the experiment or the application please contact me or my supervisor using the email addresses below.

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