

Ethics Requirements Generation Platform

The purpose of this study is to evaluate an ethics requirements tool developed in the context of the MSc dissertation in Computer Science and Informatics of Rafael Graça, student at NOVA School of Technology, University of Lisbon, Portugal.

The tool utilizes AI agents and applies the ECCOLA method to elicit requirements from a user's software idea.

This questionnaire is composed of 50 questions and will take around 20-30 minutes.

This form is anonymous and any personal information you may provide will be removed from the answers.

This way, the final Msc dissertation will present anonymised answers.

Your feedback and insights on the tool are valuable and will help us assessing the effectiveness of the tool.

Thank you for your help and time. Your availability is very much appreciated.

Informed Consent Form (ICF) in Agreement with the Research

Target Audience

Professionals with experience in the development, validation, operation, or management of software systems.

Data Collection and Use

All information provided in this questionnaire will be collected anonymously, kept confidential, and stored in a secure environment. The data will be used exclusively for scientific purposes.

Voluntariness and Rights

Participation is completely voluntary. You may stop filling out the form at any time, without needing to provide justification.

If you decide not to submit your responses, simply exit the form or use the "Clear form" option before finalizing.

After submission, since responses are anonymous, it will not be possible to delete the data, as

there will be no way to identify your individual information.

Privacy and Data Protection

No information that allows for your identification will be requested or recorded. All responses will be used exclusively for academic research purposes, in accordance with ethical principles established for research involving human participants.

Access to Results

If you wish, you may request a copy of the final report with the results of this research by contacting the researcher responsible at the email provided below.

Contact

For questions or more information about this research: r.graca@campus.fct.unl.pt

Consent Statement

By proceeding and submitting your responses, you declare that:

- You have read and understood the information presented above.
- You freely and voluntarily agree to participate in this research.
- You authorize the collection and use of the information provided for the purposes described.

Os ficheiros que forem carregados serão partilhados fora da entidade a que pertencem.

* Indica uma pergunta obrigatória

1. 1. Which age group do you belong to? *

Marcar apenas uma oval.

☐ 17-25

☐ 26-35

☐ 36-45

☐ 46-55

☐ 56-65

☐ 66-75

2. 2. What is your gender? *

Marcar apenas uma oval.

☐ Male

☐ Female

☐ Prefer not to answer

3. 3. What is your current work function? *

4. 4. How long are you in your current work function? *

Marcar apenas uma oval.

☐ < 1 year

☐ 1-2 years

☐ 2-5 years

☐ > 5 years

5. 5. What made you aware of "AI ethics"? Choose all options that apply *

Marcar tudo o que for aplicável.

- ☐ Rules and politics of your local environment
- ☐ Client complaints
- ☐ Direct personal experience (for example, as a software user)
- ☐ Direct professional experience (for example, as an AI software user)
- ☐ Through news and media
- ☐ I have personal interest in this theme
- ☐ It does not apply
- ☐ Outra: _____

6. 6. Which of the following AI ethical principles do you know? Choose all that apply. *

This is a selected list related to the main principles considered worldwide.

(AI Ethics Principles of Australia: <https://www.industry.gov.au/publications/australias-artificial-intelligence-ethics-principles/australias-ai-ethics-principles>)

Marcar tudo o que for aplicável.

- ☐ Responsibility / Accountability: identifiable people responsible for the results of the AI system
- ☐ Contestability: a fast and accessible process that allows people to contest the use/results of the AI system
- ☐ Fairness: inclusive and accessible system
- ☐ Human-centered values: respect for human rights, diversity, and individual autonomy
- ☐ Human, societal, and environmental well-being: benefit individuals, society, and the environment
- ☐ Privacy protection and security: respect and protect privacy rights and ensure data security
- ☐ Reliability and safety: operate reliably in accordance with the intended purpose
- ☐ Transparency and explainability: transparency and responsible disclosure to help people understand AI impacts and engage with it
- ☐ All
- ☐ None
- ☐ Outra: _____

7. 7. Do you have professional experience with Requirements Engineering? *

Marcar apenas uma oval.

1 2 3 4 5

No e ☐ ☐ ☐ ☐ ☐ Very high

8. 8. If you have already worked professionally with Requirements Engineering. How much professional experience with Requirements Engineering do you have? *

9. 9. If you have already worked professionally with Requirements Engineering. What stage of requirements engineering did you work? *

Marcar apenas uma oval.

- ☐ Construction of the feasibility study
- ☐ Requirements elicitation and analysis
- ☐ Requirements specification
- ☐ Requirements validation
- ☐ Requirements management
- ☐ Outra: _____

10. 10. If you answered "Other" in the previous question, please answer: What activity (s) not previously listed did you perform?

11. 11. Do you have professional experience with Agile Software Development? *

Marcar apenas uma oval.

1 2 3 4 5

No e ☐ ☐ ☐ ☐ ☐ Very high

12. 12. If you have already worked professionally on Agile Software Development. *
How much professional experience with Agile Software Development do you have?

13. 13. If you have already worked professionally with agile development. What agile methodology did you work professionally? (Example: XP; Scrum; XP adapted to the organization). *

14. 14. If you have already worked professionally with agile development. Which agile artifact did you work professionally? (Example: kanban board, mockup, burndown charts, story map). *

User Experience

The following questions focus on your experience while using the tool.

15. 15. How mentally demanding was the task? *

Instructions: (Mental demand) - Amount of mental activity that the task requires (deciding, thinking, calculating, searching, etc.).

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high

16. 16. How physically demanding was the task? *

(Physical demand) - Amount of physical activity that the task requires (pulling, pushing, turning, etc.).

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high

17. 17. How fast was the pace of the task? *

(Temporal Demand) - Perceived temporal pressure level. It refers to the time required and the time available for the task to be performed.

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high

18. 18. How successful were you at carrying out the task? *

(Performance) - The extent to which the individual feels satisfied with the performance and performance of his work.

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high

19. 19. How hard did you work to reach your performance level? *

(Effort) - The measure of physical and mental effort that the individual needs to make in order to reach their level of performance.

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high effort

20. 20. How insecure, discouraged, irritated, stressed and upset were you when carrying out the task? *

(Frustration level) - Level of insecurity, stress, irritation and other negative feelings/ states that the user experiences during the performance of the activity.

Marcar apenas uma oval.

	1	2	3	4	5	
very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very high

21. 21. I felt that using the ethical requirements tool would be easy for me? *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

22. 22. I feel that my interaction with the ethical requirements tool was clear and understandable *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

23. 23. I feel that it would be easy to become skillful at using the ethical requirements tool *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

24. 24. I found the ethical requirements tool to be flexible to interact with *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

25. 25. Learning to operate the ethical requirements tool would be easy for me *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

26. 26. It would be easy for me to get the ethics requirement tool to do what I want to do *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

27. 27. I feel that my ability to determine the ease of use of the ethical requirements tool is limited by my lack of experience in ethical requirements *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

28. 28. Using the ethical requirements tool in my job would enable me to accomplish tasks more quickly *

Marcar apenas uma oval.

1 2 3 4 5

Extr ☐ ☐ ☐ ☐ ☐ Extremely Likely

29. 29. Using the ethical requirements tool would improve my job performance *

Marcar apenas uma oval.

1 2 3 4 5

Extr ☐ ☐ ☐ ☐ ☐ Extremely Likely

30. 30. Using the ethical requirements in my job would increase my productivity *

Marcar apenas uma oval.

1 2 3 4 5

Extr ☐ ☐ ☐ ☐ ☐ Extremely Likely

31. 31. Using the ethical requirements tool would enhance my effectiveness on the job *

Marcar apenas uma oval.

1 2 3 4 5

Extr ☐ ☐ ☐ ☐ ☐ Extremely Likely

32. 32. Using the ethical requirements tool would make it easier to do my job *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

33. 33. Assuming that I have access to ethical requirements tool, I intend to use it *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

34. 34. I believe it is a good idea to use the ethical requirements tool? *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

35. 35. I believe it is a good idea to use the ethical requirements tool? *

Marcar apenas uma oval.

	1	2	3	4	5	
Extr	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

36. 36. I like the idea of using the ethical requirements tool *

Marcar apenas uma oval.

	1	2	3	4	5	
Extra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

37. 37. Using the ethical requirements tool is a positive idea *

Marcar apenas uma oval.

	1	2	3	4	5	
Extra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extremely Likely

38. 38. How would you rate the overall quality of the ethical requirements generated during the process? *

Marcar apenas uma oval.

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

39. 39. How would you rate the overall quality of the ethical user stories generated? *

Marcar apenas uma oval.

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

40. 40. How would you rate the quality of the sprints in terms of organization and outcomes? *

Marcar apenas uma oval.

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

41. 41. How would you rate the quality of the questions used to guide the ECCOLA process? *

Marcar apenas uma oval.

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

42. 42. How would you rate the quality of the generated personas in terms of how well they reflect the possible target users for the given idea? *

Marcar apenas uma oval.

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

43. 43. How would you rate the diversity of the generated personas? *

Marcar apenas uma oval.

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

44. 44. How would you rate the quality of the discussions among the personas? *

Marcar apenas uma oval.

1 2 3 4 5

Very ☐ ☐ ☐ ☐ ☐ Excellent

45. 45. Did the discussions stay on topic and address issues relevant to the purpose of the discussion? *

Marcar apenas uma oval.

1 2 3 4 5

Very ☐ ☐ ☐ ☐ ☐ Excellent

46. 46. How would you rate the quality of the selected cards for each sprint? *

Marcar apenas uma oval.

1 2 3 4 5

Very ☐ ☐ ☐ ☐ ☐ Excellent

47. 47. How would you evaluate the similarity or divergence between the cards you selected and those chosen by the personas, in terms of their quality and relevance? *

Marcar apenas uma oval.

1 2 3 4 5

Very ☐ ☐ ☐ ☐ ☐ Very Similar

48. 48. How familiar are you with the ECCOLA method? *

Marcar apenas uma oval.

1 2 3 4 5

No k ☐ ☐ ☐ ☐ ☐ Very high

49. 49. Have you used the ECCOLA method before this study? *

Marcar apenas uma oval.

1 2 3 4 5

Never ☐ ☐ ☐ ☐ ☐ Many Times

50. 50. How would you rate your level of experience with the ECCOLA method? *

Marcar apenas uma oval.

1 2 3 4 5

No e ☐ ☐ ☐ ☐ ☐ Very high

51. Please add a file with your notes *

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