Opinion Survey: Requirements Professionals

This survey aims to understand how industry professionals handle requirements and use Large Language Models (LLMs) in their activities, as well as to identify interest in the automated generation of user stories.

* Indicates required question

1. Name *

   _____

2. E-mail *

   _____

3. What is your current position? *

   Mark only one oval.

   ◯ Requirements Analyst

   ◯ Developer

   ◯ Project Manager

   ◯ Product Owner

   ◯ Scrum Master

   ◯ Tester

   ◯ Other: _____

4. How long have you been working in the software development field? *

   Mark only one oval.

   - Less than 1 year
   - 1–3 years
   - 3–5 years
   - More than 5 years
   - More than 10 years
   - More than 20 years

5. What is the name of the company you work for? *

   _____

6. Where is it located (city and state)? *

   _____

Requirements Engineering Practices

We want to better understand how you and your team carry out the Requirements Engineering process. Your answers will help us understand the approaches and methods you use in software requirements development.

7. How often do you participate in the requirements elaboration in your projects? *

   Mark only one oval.

   - Frequently
   - Occasionally
   - Rarely
   - Never

8. Which methods or techniques does your team use to elicit requirements (e.g., stakeholder interviews, brainstorming, document analysis, observation)? Please briefly describe the process: *

_____

_____

_____

_____

_____

9. Which methods or techniques does your team use to validate the defined requirements (e.g., stakeholder reviews, prototyping)? Please briefly describe the process: *

_____

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_____

_____

10. Does your team use user stories to structure and document the requirements generated?

Mark only one oval.

◯ Yes   *Skip to question 11*

◯ No   *Skip to question 16*

User Stories

We want to better understand how you and your team create and use user stories in the Requirements Engineering process. Your answers will help us identify the approaches, challenges, and practices adopted to generate effective user stories in software development.

11. Besides user stories, which other forms or techniques does your team use to structure and document requirements? (Select all that apply) *

Check all that apply.

- [ ] Use Cases
- [ ] Diagrams
- [ ] Mockups and Prototypes
- [ ] Other: _____

12. Which procedures or methods do you use to assess the quality of the user stories created? (e.g., use of frameworks, team reviews, validation with stakeholders). Please describe how this evaluation is conducted and which aspects are prioritized: *

13. Does your team use acceptance criteria for the stories? If so, what are the criteria and what information is included for a story to be considered complete? *

14. In your opinion, what is the biggest challenge when writing user stories in your   *
team? (Select all that apply)

Check all that apply.

☐ Lack of clear information about users' needs
☐ Difficulty in transforming technical requirements into understandable stories
☐ Lack of time to elaborate detailed stories
☐ Communication problems between the teams involved
☐ Lack of priority given to writing user stories by the team
☐ Other: _____

15. Which of the following qualities do you consider important for a good user   *
story? (Select all that apply)

Check all that apply.

☐ Well-Formed (Includes role (persona) and specific action)
☐ Atomic (Addresses a single specific functionality)
☐ Minimal (Contains only essential information)
☐ Conceptually solid (The functionality has a clear and well-explained purpose)
☐ Problem-Oriented (Specifies only the problem, not the solution)
☐ Unambiguous (Avoids terms or abstractions that could lead to multiple interpretations)
☐ Conflict-Free (Should not be inconsistent with any other user story)
☐ Complete sentence (It is a full and well-formed sentence)
☐ Estimable (Does not have a coarse-grained requirement and can be planned and prioritized feasibly)
☐ Unique (Each user story is unique without duplicates)
☐ Uniform (All stories use the same template)
☐ Independent (Does not have inherent dependencies on other stories)
☐ Complete (The implementation of a set of user stories creates a full application, with no missing steps)
☐ Other: _____

Skip to question 17

Other Requirement Documentation Techniques

16. Which forms or techniques does your team use to structure and document requirements? (Select all that apply)

Check all that apply.

☐ Use Cases
☐ Diagrams
☐ Mockups and Prototypes
☐ Other: _____

Use of Large Language Models (LLMs)

17. Do you use Language Models (LLMs), e.g., ChatGPT, Gemini, LLama, and Copilot, in your professional activities? *

Mark only one oval.

◯ Yes

◯ No   *Skip to question 26*

Use of Large Language Models (LLMs)

We want to explore how LLMs are impacting the Requirements Engineering process, especially in user story generation.

18. Which LLM(s), e.g., ChatGPT, Gemini, LLama, and Copilot, do you use? *

_____

19. Do you use LLMs in generating user stories?

Mark only one oval.

◯ Yes   *Skip to question 25*

◯ No   *Skip to question 20*

Non-Use of LLMs in User Story Generation

20. For which activities do you usually use LLMs? (Select all that apply) *

Check all that apply.

☐ Code generation
☐ Technical documentation writing
☐ Requirements analysis or refinement
☐ Initial ideas for brainstorming
☐ Other: _____

21. How do you think the use of LLMs impacts your work? Explain the positive and/or negative impacts: *

_____
_____
_____
_____
_____

22. Would you use LLMs to generate user stories?

Mark only one oval.

◯ Yes
◯ No

23. What would it take for you to start using LLMs to generate user stories?

_____
_____
_____
_____
_____

24. Do you have any suggestions for improvements that would make using LLMs in story generation more viable?

_____

_____

_____

_____

_____

Use of LLMs in Story Generation

25. How do you think the use of LLMs impacts user story generation? Explain the positive and/or negative results:

_____

_____

_____

_____

_____

No Use of LLMs (Large Scale Language Models)

Justify your answer

26. Why don't you use LLMs in your professional activities? *

_____

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_____

_____

27. Do you use LLMs for any other types of activities?

_____

Suggestions and Final Opinions

28. Do you have any suggestions, ideas, or insights on how to improve the use of *
    LLMs in creating user stories?

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Google Forms