

# SCRUM\_AI\_functionalities

## Reports

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Survey short title: KANO\_SCRUM

Question number: 35

Number of  
variables: 74

## SCRUM\_AI\_functionalities

You are cordially invited to participate in a study on AI software features for SCRUM methodology. The research is carried out by the University of Ljubljana (Faculty of Computer and Information Science).

Estimated time to complete this survey is 5 - 7 minutes.

Participation in the study is voluntary and anonymous. Anonymous data may be shared in permanent and publicly accessible data archives. By taking this survey, you consent to participate in the study. You can leave the survey at any point in time. Please take the survey only once.

The study was approved by the Ethics Committee of the University of Ljubljana, Faculty of Computer and Information Science.

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### ProlificID - Your Prolific ID:

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### Example -

**The core of the questionnaire is based on two questions about your feelings regarding the availability of a specific feature.**

**For example, most people today think air conditioning is a necessary feature of a car. Although most people do not like that there is no air conditioning in the car, some people can live with it. They would answer the question as follows:**

<b>The air conditioner</b> in the car allows the interior of the car to cool down. This means that even though it is very hot outside, you can have a pleasant temperature in the car.					
How do you feel when the air conditioner:					
	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

### Intro -

In the continuation, you will be asked to answer similar questions regarding possible (future) AI features to support SCRUM methodology as follows:

You are given an example of an AI software feature (marked in green), followed by the question of how you feel if such a software feature is or would be available (marked in blue) and the question of how you feel if such a feature is not or would not be available (marked in orange):

Automatic comparison of new requirements (including change requests) with the existing requirements.					
How do/would you feel when the software feature:					
	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please note that most of these features are currently not available in existing SCRUM software, so you have to answer the hypothetical question of how you would feel if such a feature would or would not be available.

Start -

Answer the questions below

**KANO1 - Automatic comparison of new requirements (including change requests) with the existing requirements. How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO2 - Automatic identification of repetitive elements in the product backlog (user stories, epics, etc.)How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO3 - Automatic generation of user stories based on natural language description. How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO4 -**

**Automatic generation of coding recommendations for new user stories based on existing user stories code.**

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### How do/would you feel when the software feature:

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### KANO5 -

**Automatic creation of "release notes" for users from user stories, change requests, code, etc.**

### How do/would you feel when the software feature:

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### KANO6 -

**Automatic generation of meeting minutes from meeting voice records or meeting transcripts (for meetings like retrospective, sprint review, daily stand-up, etc.).**

### How do/would you feel when the software feature:

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### KANO7 -

**Automatic generation of summaries (e.g., key results, standard overview, etc.) of larger documents (e.g., technical documentation, standards, regulatory documents, etc.).**

### How do/would you feel when the software feature:

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### KANO8 -

**Automatic suggestion of the most effective next step in the development process based on available information regarding the project's current state (including project documentation, code, design models, etc.) tailored to a specific project team member.**

### How do/would you feel when the software feature:

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### KANO9 -

**Automatic checking of requirements quality (e.g., unambiguous, complete, consistent, etc.) to help customers and/or analysts specify requirements.**

### How do/would you feel when the software feature:

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	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### KANO10 -

**Automatic validation of program code with the corresponding user stories to show that all requirements are covered.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### KANO11 -

**Automatic analysis of the impact of a new user story on other parts of the project.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### KANO12 -

**Automatic preparation of instructions for new employees (e.g., the current status of work, summary and location of key documentation and standards, best practices, etc.).**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### KANO13 -

**Automatic suggestion of the most suitable members for the Scrum team for a specific project.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### KANO14 -

**Automatic estimation of the effort needed to complete a specific user story.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO15 -**

**Automatic suggestion of priority for each user story based on descriptions of other user stories and, if available, additional information on general project priorities.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO16 -**

**Automatic generation of implementable tasks based on user stories (in a case when user stories are too large).**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO17 -**

**Automatic generation of SCRUM improvement recommendations based on all available information (e.g., process tool logs, retrospective meeting minutes, etc.) that can, for instance, be used in sprint retrospective.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**KANO18 -**

**Automatic generation of models (e.g., architectural models, data models, process models, etc.) based on textual description and other available information.**

**How do/would you feel when the software feature:**

	I like it	I expect it	I am neutral	I can live with it	I dislike it
is available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
is not available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**DEM1 - What is your role within a typical SCRUM methodology (multiple answers are possible):**

Multiple answers are possible.

- ☐ Product Owner
- ☐ Development Team Member
- ☐ Scrum Master

**DEM2 - Which of the following describes your current job, the one you do most of the time?**

Please select only one.

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- ☐ Developer, full-stack
- ☐ Developer, back-end
- ☐ Developer, front-end
- ☐ Developer, desktop or enterprise applications
- ☐ Developer, mobile
- ☐ Engineering manager
- ☐ Student
- ☐ Developer, embedded applications or devices
- ☐ Data scientist or machine learning specialist
- ☐ DevOps specialist
- ☐ Academic researcher
- ☐ Research & Development role
- ☐ Senior Executive (C-Suite, VP, etc.)
- ☐ Engineer, data
- ☐ Cloud infrastructure engineer
- ☐ Developer, game or graphics
- ☐ Data or business analyst
- ☐ System administrator
- ☐ Project manager
- ☐ Developer, QA or test
- ☐ Security professional
- ☐ Product manager
- ☐ Engineer, site reliability
- ☐ Educator
- ☐ Scientist
- ☐ Developer Experience
- ☐ Blockchain
- ☐ Hardware Engineer
- ☐ Designer
- ☐ Database administrator
- ☐ Developer Advocate
- ☐ Marketing or sales professional

**DEM3 - NOT including education, how many years have you been involved in software development professionally (as a part of your work)? \_\_\_\_\_**

**DEM4 - How many years have you been involved in SCRUM methodology? \_\_\_\_\_**

**DEM5 - What is your age? \_\_\_\_\_**

**DEM6 - How many people are employed by the company or organization you currently work for? This should only include your primary company and not the entire holding or parent company.**

- ☐ Just me - I am a freelancer, sole proprietor, etc.
- ☐ 2 to 9
- ☐ 10 to 19
- ☐ 20 to 99
- ☐ 100 to 499
- ☐ 500 to 999
- ☐ 1,000 to 4,999
- ☐ 5,000 to 9,999
- ☐ 10,000 or more

○ I don't know

**DEM7 - Where do you live?**

Afghanistan  
Albania  
Algeria  
Andorra  
Angola  
Antigua and Barbuda  
Argentina  
Armenia  
Australia  
Austria  
Azerbaijan  
Bahamas  
Bahrain  
Bangladesh  
Barbados  
Belarus  
Belgium  
Belize  
Benin  
Bhutan  
Bolivia  
Bosnia and Herzegovina  
Botswana  
Brazil  
Brunei  
Bulgaria  
Burkina Faso  
Burundi  
Côte d'Ivoire  
Cabo Verde  
Cambodia  
Cameroon  
Canada  
Central African Republic  
Chad  
Chile  
China  
Colombia  
Comoros  
Congo (Congo-Brazzaville)  
Costa Rica  
Croatia  
Cuba  
Cyprus  
Czechia (Czech Republic)  
Democratic Republic of the Congo  
Denmark  
Djibouti  
Dominica  
Dominican Republic  
Ecuador



## SCRUM\_AI\_functionalities

Egypt  
El Salvador  
Equatorial Guinea  
Eritrea  
Estonia  
Eswatini (fmr. "Swaziland")  
Ethiopia  
Fiji  
Finland  
France  
Gabon  
Gambia  
Georgia  
Germany  
Ghana  
Greece  
Grenada  
Guatemala  
Guinea  
Guinea-Bissau  
Guyana  
Haiti  
Holy See  
Honduras  
Hungary  
Iceland  
India  
Indonesia  
Iran  
Iraq  
Ireland  
Israel  
Italy  
Jamaica  
Japan  
Jordan  
Kazakhstan  
Kenya  
Kiribati  
Kuwait  
Kyrgyzstan  
Laos  
Latvia  
Lebanon  
Lesotho  
Liberia  
Libya  
Liechtenstein  
Lithuania  
Luxembourg  
Madagascar  
Malawi  
Malaysia  
Maldives  
Mali

## SCRUM\_AI\_functionalities

Malta  
Marshall Islands  
Mauritania  
Mauritius  
Mexico  
Micronesia  
Moldova  
Monaco  
Mongolia  
Montenegro  
Morocco  
Mozambique  
Myanmar (formerly Burma)  
Namibia  
Nauru  
Nepal  
Netherlands  
New Zealand  
Nicaragua  
Niger  
Nigeria  
North Korea  
North Macedonia  
Norway  
Oman  
Pakistan  
Palau  
Palestine State  
Panama  
Papua New Guinea  
Paraguay  
Peru  
Philippines  
Poland  
Portugal  
Qatar  
Romania  
Russia  
Rwanda  
Saint Kitts and Nevis  
Saint Lucia  
Saint Vincent and the Grenadines  
Samoa  
San Marino  
Sao Tome and Principe  
Saudi Arabia  
Senegal  
Serbia  
Seychelles  
Sierra Leone  
Singapore  
Slovakia  
Slovenia  
Solomon Islands  
Somalia

## SCRUM\_AI\_functionalities

South Africa  
South Korea  
South Sudan  
Spain  
Sri Lanka  
Sudan  
Suriname  
Sweden  
Switzerland  
Syria  
Tajikistan  
Tanzania  
Thailand  
Timor-Leste  
Togo  
Tonga  
Trinidad and Tobago  
Tunisia  
Turkey  
Turkmenistan  
Tuvalu  
Uganda  
Ukraine  
United Arab Emirates  
United Kingdom  
United States of America  
Uruguay  
Uzbekistan  
Vanuatu  
Venezuela  
Vietnam  
Yemen  
Zambia  
Zimbabwe

**DEM8 - How many people are in the SCRUM team you are part of?** \_\_\_\_\_

### **DEM9 - What industry is the company you work for in?**

Multiple answers are possible. We are interested in which industries you develop software for. If the industry is not on the list, you can also add your category.

- ☐ Information Services, IT, Software Development, or other Technology
- ☐ Financial Services
- ☐ Other
- ☐ Manufacturing, Transportation, or Supply Chain
- ☐ Healthcare
- ☐ Retail and Consumer Services
- ☐ Higher Education
- ☐ Advertising Services
- ☐ Insurance
- ☐ Oil & Gas
- ☐ Legal Services
- ☐ Wholesale
- ☐ Other:

**DEM10 - Which parts of your development workflow are you currently using AI tools for and which are you interested in using AI tools for over the next year? Please select all that apply.**

Multiple answers are possible

- ☐ Writing code
- ☐ Debugging and getting help
- ☐ Documenting code
- ☐ Learning about a codebase
- ☐ Testing code
- ☐ Project planning
- ☐ Committing and reviewing code
- ☐ Deployment and monitoring
- ☐ Collaborating with teammates

**DEM11 - What is the largest project you worked on using the SCRUM methodology in terms of financial scope (budget)?**

- ☐ < \$ 200,000
- ☐ \$ 200,001 – \$ 400,000
- ☐ \$ 401,000 – \$ 600,000
- ☐ \$ 600,001 – \$ 800,000
- ☐ \$ 801,000 – \$ 1 million
- ☐ > \$ 1 million – \$ 10 million
- ☐ > \$ 10 million
- ☐ Don't know

**DEM12 -**

**What is the largest project you worked on using the SCRUM methodology in terms of duration?**

(Maximum duration). We mean development exclusively - software maintenance/support is not included.

- ☐ < 6 months
- ☐ 6 – 12 months
- ☐ 13 – 18 months
- ☐ 19 – 24 months
- ☐ 25 – 30 months
- ☐ 31 – 36 months
- ☐ > 36 months