

# Study on decision-making and intertemporal choice in software development

Questionnaire: Focus on an unnamed other (English)

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Becker, C. 2023.

Imagine the following scenario happening in the company you currently work in.

You have been asked to advise another team. That team is working on a project that delivers new functionality for a software system that directly affects end customers. It's the end of the week, and the team is ahead of schedule in the current iteration. You will soon meet the team lead and the product owner to discuss plans for the next week. You are expected to give an outsider's view on what the team should do during the next week. You have to choose between recommending one of two options:

Option 1: Implement the next feature from the project backlog. The feature was originally meant for the following iteration. The feature is estimated to require five person days of effort.

Option 2: Work on a task that is not in the project backlog, but that has been discussed before. This task is to integrate a mature and well-tested library that adds no new functionality but could save some effort over the duration of the entire project. The chance of saving the effort is estimated to be 60% (with a 40% chance that the library will not result in those savings). The integration is estimated to require five person days of effort.

The project is 6 months long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

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The project is 6 months long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

The project is 1 year long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

The project is 2 years long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

The project is 3 years long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

The project is 5 years long and has been going for three months.

How many days of effort savings would you require to prefer recommending Option 2 over Option 1?

\_\_\_\_\_ days of effort

## Demographics

Please help us better understand the data by providing the following personal information.

### Gender

- Male
- Female
- Other: \_\_\_\_\_

### Year of birth

\_\_\_\_\_

### Highest completed degree

- Bachelor
- Masters
- Doctorate
- Other: \_\_\_\_\_

### Field of degree

- Computer Science
- Other: \_\_\_\_\_

**How much training in the following areas has there been in your formal education or professional development?**

	None or almost none	A little	Some	A fair amount	A lot
Software requirements	<input type="checkbox"/>				
Software design	<input type="checkbox"/>				
Software construction	<input type="checkbox"/>				
Software testing	<input type="checkbox"/>				
Software maintenance	<input type="checkbox"/>				
Software configuration management	<input type="checkbox"/>				
Software engineering management	<input type="checkbox"/>				
Software engineering process	<input type="checkbox"/>				
Software engineering models and methods	<input type="checkbox"/>				
Software quality	<input type="checkbox"/>				
Software engineering professional practice	<input type="checkbox"/>				
Software engineering economics	<input type="checkbox"/>				

**What is your current role in the company you work in?**

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**In which of these areas do you have professional experience? Check all areas for which you have been responsible in your career at some point.**

- Requirements
- Software architecture
- Software development
- Software testing and Quality Assurance
- Software Configuration Management
- Project management
- Software maintenance
- Other: \_\_\_\_\_

**Total years of work experience with software development**

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**Total years of work experience in current company**

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**Total years of work experience in current role**

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