

Appendix C

Context and Tasks Using GitHub

Context: You are part of the core team of a project hosted on GitHub, you know the demands of the project and also the importance of collaborations made by volunteer contributors with different motivations to collaborate. For example, some prefer to work collaboratively to increase the quality of the project, while others contribute to the project out of personal interests. In addition, the project attracts several potential volunteer collaborators. However, due to the large number of them, it is difficult to interact or follow the collaboration of all, running the risk of demotivating them and, consequently, leaving the project. Therefore, you consider and understand the importance that contributors should approach and interact more with each other in this development environment. You are also aware that some contributors may have difficulty expressing their opinions publicly in this environment. On the other hand, they may feel more secure when interacting with other specific contributors, especially those with the same interests or familiarity with certain parts of the project. They may be already known contributors and those who have some reference or recommendation. **Note:** If you feel it necessary when performing the task and answering the question, report any information to understand the reason for your answer.

Table C.1. Context and Tasks Using GitHub — Part 1.

ID	Task description
Task 1	<p>You are part of the core team of projects that are hosted on GitHub. You are using GitHub to review projects. Thus, access the tool and answer: How many stars does the project <project name> have?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
Task 2	<p>Review the contributors to the <project name> project. Thus, as part of the core team of the <project name> project, you want to know about the contributors who are collaborating on this project. Therefore, you search for contributors based on the number of commits updated in the project (merged commits). Thus, you have noticed that a given contributor has 28 commits updated and 6 commits not yet updated (commits ahead) in the main project. What is the name of this contributor?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
Task 3	<p>You realize the risk of losing those contributors who put some effort and time into the project. Thus, now you want to know who they are, thus look for the contributors by the number of commits not yet updated (commits ahead) in the project and answer. Which contributor has the most commits not yet updated in the main project?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
Task 4	<p>You have a high-priority open issue and would like to assemble a dedicated team to solve it. For that, you are analyzing the list of contributors and based on the number of commits, you think that the contributor <collaborator name (fork name)> could be the one you are looking for. <collaborator name> has 23 commits updated in the main project, plus its last commit was on Aug20. Concerned about the lack of engagement in the project, you want to find other contributors who have similar interests as the contributor <collaborator name> (i.e., they are interested in the same parts, features, or source files of the project). How many other collaborators have interests in common with <collaborator name>?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>

Table C.2. Context and Tasks Using GitHub — Part 2.

ID	Task description
Task 5	<p>Comparing the contributions of <collaborator name> and <another collaborator name> (<fork name>), which files are relevant and common to them?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
Task 6	<p>Considering the changed lines of code in the files that correspond to common interests among the project’s contributors, which other contributors can be considered to work with <collaborator name>?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
Task 7	<p>What is the expertise related to the programming languages of the contributor <another collaborator name>?</p> <p>Answer: _____</p> <p>This task was... [Very Difficult— hard — Easy — Very easy]</p>
	<p>Would you like to make any observations or comments?</p> <p>Any questions or suggestions?</p>