Survey Flow

BlockRandomizer: 1 - Evenly Present Elements

Group: Doc Issues (Survey 1)

Standard: I- Introduction (1 Question)

Block: I- Demographic (2 Questions)

Standard: I- Documentation Content (What) (2 Questions)

Standard: I- Iterative Questions: What (6 Questions)

Standard: I- Documentation Content (How) (2 Questions)

Standard: I- Iterative Questions: How (6 Questions)

Standard: I- Documentation Process and Tools (2 Questions)

Standard: I- Iterative Questions: Process and Tools (6 Questions)

Standard: I- GoodBye (1 Question)

EndSurvey:

Group: Doc Types (Survey 2)

Block: II- Introduction (1 Question)

Block: I- Demographic (2 Questions)

Block: Survey2-loop (50 Questions)

Block: I- GoodBye (1 Question)

EndSurvey:

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**Survey 1**

Start of Block: I- Introduction

Q1.1   
   
 Dear Participant,  
   
 This **anonymous survey** is part of a joint research project of *\*\*\* Removed for double-blind reviewing \*\*\**  
   
We aim at investigating the **software documentation issues** that are perceived as more important by software developers (e.g., outdated or missing information, wrong descriptions and/or unclear explanations).  
   
Your answers will only be used for research purposes with the goal of defining an agenda on software documentation research.  
   
We expect the survey to take approximately **15 minutes**. The survey is composed of three sections: (1) issues related to “*what*” the documentation content is (i.e., its content), (2) issues related to “*how*” the content is presented and organized, and (3) issues related to the documentation *process and tools*.   
   
 If you have any question or comment, do not hesitate to *\*\*\* Removed for double-blind reviewing \*\*\**  
   
 Thank you a lot for your help!  
   
   
*\*\*\*\* Authors’ signature is removed for double-blind reviewing \*\*\**

End of Block: I- Introduction

Start of Block: I- Demographic

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Q2.1   
Which of the following roles describes you the best?

* Architect (1)
* Developer (2)
* Test Analyst/Tester/Test Engineer (3)
* Technical Lead (4)
* Others? Please specify. (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q2.2 How many years of professional experience do you have in your field?

* (1)
* 3-5 years (2)
* 5-10 years (3)
* >10 years (4)

End of Block: I- Demographic

Start of Block: I- Documentation Content (What)

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Q3.1 **Part 1/3:**  
 Regarding the **documentation content,** which of the following issues are **important** to you?  
   
 (Hover the mouse over texts to see more explanation)

* Erroneous code examples (1)
* Faulty tutorial (2)
* Inappropriate installation instructions (3)
* Wrong code comments (4)
* Wrong translation (5)
* **Other** Correctness issues (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Developer guidelines (7)
* Installation, deployment, & release (8)
* Missing code behavior clarifications (9)
* Missing code comments (10)
* Missing diagrams (11)
* Missing links (12)
* Missing user documentation (13)
* **Other** Completeness Issues (14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Code-documentation inconsistency (15)
* Missing documentation for a new feature/component (16)
* Missing documentation for a new release (17)
* Outdated/Obsolete references (18)
* Outdated example (19)
* Outdated installation instructions (20)
* Outdated license/copyright information (21)
* Outdated screenshot (22)
* Outdated translations (23)
* Outdated version information (24)
* **Other** Up-to-dateness Issues (25) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Carry Forward Selected Choices - Entered Text from "Part 1/3: Regarding the documentation content, which of the following issues are important to you? (Hover the mouse over texts to see more explanation)"

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Q3.2 Choose up to **two** documentation issueswhich you **encounter most frequently** while reading/writing one.

* Erroneous code examples (1)
* Faulty tutorial (2)
* Inappropriate installation instructions (3)
* Wrong code comments (4)
* Wrong translation (5)
* **Other** Correctness issues (6)
* Developer guidelines (7)
* Installation, deployment, & release (8)
* Missing code behavior clarifications (9)
* Missing code comments (10)
* Missing diagrams (11)
* Missing links (12)
* Missing user documentation (13)
* **Other** Completeness Issues (14)
* Code-documentation inconsistency (15)
* Missing documentation for a new feature/component (16)
* Missing documentation for a new release (17)
* Outdated/Obsolete references (18)
* Outdated example (19)
* Outdated installation instructions (20)
* Outdated license/copyright information (21)
* Outdated screenshot (22)
* Outdated translations (23)
* Outdated version information (24)
* **Other** Up-to-dateness Issues (25)

End of Block: I- Documentation Content (What)

Start of Block: I- Iterative Questions: What

*In the following block ${lm://Field/1} refers to one of the two selected choices (randomly) in Question Q3.2*

Q4.1 Concerning **${lm://Field/1}**:

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Q4.2 Do you think this issue concerns documentation readers or writers?

* Only **readers** (1)
* Mostly readers (2)
* Equally both (3)
* Mostly writers (4)
* Only **writers** (5)

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Q4.3 How often do you encounter such a type of documentation issue?

* Every day (1)
* 2-3 times a week (2)
* Once a week (3)
* Less often than once a week (4)
* Never (5)

Q4.4 What is your solution to fix this type of issue? (in one sentence) (optional)

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Q4.5 Concerning the last time you faced such an issue, it belonged to the documentation of:

* Your team's project (1)
* An internal project in your company (2)
* A third-party project (i.e., an external project) (3)

Q4.6 Can you please describe the situation? (optional)

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End of Block: I- Iterative Questions: What

Start of Block: I- Documentation Content (How)

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Q5.1 **Part 2/3:**  
 Regarding the way **how the** **documentation content is written,** which of the following issues are **important** to you?  
   
 (Hover the mouse over an issue to see more explanation)

* Clone/Duplicate content (1)
* Lengthy files (2)
* Superfluous content (3)
* **Other** Maintainability issues (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Clarity (5)
* Conciseness (6)
* Spelling and grammar (7)
* **Other** Readability issues (8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Accessibility/Findability (9)
* Excessive website load-time (10)
* Format/Presentation (11)
* Information organization (12)
* Violation of best practices in the example code (13)
* **Other** Usability issues (14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Content is not useful in practice (15)
* **Other** Usefulness issues (16) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Carry Forward Selected Choices - Entered Text from "Part 2/3: Regarding the way how the documentation content is written, which of the following issues are important to you? (Hover the mouse over an issue to see more explanation)"

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Q5.2 Choose up to **two** documentation issueswhich you **encounter most frequently** while reading/writing one.

* Clone/Duplicate content (1)
* Lengthy files (2)
* Superfluous content (3)
* **Other** Maintainability issues (4)
* Clarity (5)
* Conciseness (6)
* Spelling and grammar (7)
* **Other** Readability issues (8)
* Accessibility/Findability (9)
* Excessive website load-time (10)
* Format/Presentation (11)
* Information organization (12)
* Violation of best practices in the example code (13)
* **Other** Usability issues (14)
* Content is not useful in practice (15)
* **Other** Usefulness issues (16)

End of Block: I- Documentation Content (How)

Start of Block: I- Iterative Questions: How

*In the following block ${lm://Field/1} refers to one of the two selected choices (randomly) in Question Q5.2*

Q6.1 Concerning **${lm://Field/1}**:

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Q6.2 Do you think this issue concerns documentation readers or writers?

* Only **readers** (1)
* Mostly readers (2)
* Equally both (3)
* Mostly writers (4)
* Only **writers** (5)

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Q6.3 How often do you encounter such a type of documentation issue?

* Every day (1)
* 2-3 times a week (2)
* Once a week (3)
* Less often than once a week (4)
* Never (5)

Q6.4 What is your solution to fix this type of issue? (in one sentence) (optional)

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Q6.5 Concerning the last time you faced such an issue, it belonged to the documentation of:

* Your team's project (1)
* An internal project in your company (2)
* A third-party project (i.e., an external project) (3)

Q6.6 Can you please describe the situation? (optional)

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End of Block: I- Iterative Questions: How

Start of Block: I- Documentation Process and Tools

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Q7.1   
**Part 3/3:**  
 Concerning **documentation process** and **documentation tools,** which of the following issues are **important** to you?   
 (Hover the mouse over texts to see more explanation)

* Diﬃculty in translating into a language (1)
* Issues with character encoding (2)
* Lack of time to write documentation (3)
* Missing translation for a language (4)
* Reporting issues found in the documentation (5)
* Supporting external contributors (6)
* The organization of documentation files within project (7)
* Traceability (8)
* **Other** Process-related issues (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Bug in the tool (10)
* Excessive output size (11)
* Help required on how to use the tool (12)
* Lack of/Poor automatization (13)
* License of documentation tool is expired (14)
* Missing feature of a tool (15)
* Outdated documentation tool (16)
* Receiving error/warning messages (17)
* Tool migration (18)
* **Other** Tools-related issues (19) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Carry Forward Selected Choices - Entered Text from "Part 3/3: Concerning documentation process and documentation tools, which of the following issues are important to you? (Hover the mouse over texts to see more explanation)"

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Q7.2 Choose up to **two** documentation issueswhich you **encounter most frequently** while reading/writing one.

* Diﬃculty in translating into a language (1)
* Issues with character encoding (2)
* Lack of time to write documentation (3)
* Missing translation for a language (4)
* Reporting issues found in the documentation (5)
* Supporting external contributors (6)
* The organization of documentation files within project (7)
* Traceability (8)
* **Other** Process-related issues (9)
* Bug in the tool (10)
* Excessive output size (11)
* Help required on how to use the tool (12)
* Lack of/Poor automatization (13)
* License of documentation tool is expired (14)
* Missing feature of a tool (15)
* Outdated documentation tool (16)
* Receiving error/warning messages (17)
* Tool migration (18)
* **Other** Tools-related issues (19)

End of Block: I- Documentation Process and Tools

Start of Block: I- Iterative Questions: Process and Tools

*In the following block ${lm://Field/1} refers to one of the two selected choices (randomly) in Question Q7.2*

Q8.1 Concerning **${lm://Field/1}**:

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Q8.2 Do you think this issue concerns documentation readers or writers?

* Only **readers** (1)
* Mostly readers (2)
* Equally both (3)
* Mostly writers (4)
* Only **writers** (5)

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Q8.3 How often do you encounter such a type of documentation issue?

* Every day (1)
* 2-3 times a week (2)
* Once a week (3)
* Less often than once a week (4)
* Never (5)

Q8.4 What is your solution to fix this type of issue? (in one sentence) (optional)

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Q8.5 Concerning the last time you faced such an issue, it belonged to the documentation of:

* Your team's project (1)
* An internal project in your company (2)
* A third-party project (i.e., an external project) (3)

Q8.6 Can you please describe the situation? (optional)

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End of Block: I- Iterative Questions: Process and Tools

Start of Block: I- GoodBye

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Q9.1 If you are interested in the results of the survey, you can leave your email address here. **We keep it separate from your responses and exclusively use it to share the results with you.** (Optional)

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End of Block: I- GoodBye

**Survey 2**

Start of Block: II- Introduction

Q10.1   
   
 Dear Participant,  
   
 This **anonymous survey** is part of a joint research project of *\*\*\* Removed for double-blind reviewing \*\*\**.  
   
 We aim at investigating the **types of software documentation** (e.g., code comments, API documentation) that are considered as important by software developers in the context of specific tasks (e.g., code refactoring, debugging).  
   
 Your answers will only be used for research purposes with the goal of defining an agenda on software documentation research.  
   
 We expect the survey to take approximately **15 minutes**. If you have any question or comment, do not hesitate to *\*\*\* Removed for double-blind reviewing \*\*\**.  
   
 Thank you a lot for your help!  
   
   
\*\*\*\* Authors’ signature is removed for double-blind reviewing \*\*\*

End of Block: II- Introduction

Start of Block: Survey2-loop

*This block will be repeated 2 times. Each time we randomly assign ${lm://Field/1}, ${lm://Field/2}, and ${lm://Field/3} from one the rows in the table below:*

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| --- | --- | --- |
| **${lm://Field/1}** | **${lm://Field/2}** | **${lm://Field/3}** |
| API Reference | The API Reference provides detailed information for each class and method of an API, including examples of how developers can use them, and the constraints that the API allows. | (e.g., Class Summary, Field Summary, Constructor Summary, Method Summary, Field Detail, Constructor Detail, Method Detail) |
| Code Comment | Code Comments summarize a piece of code or explain the programmer's intent. | (e.g., Functionality & Behaviour, Parameters, Purpose and Rationale, References) |
| Contribution Guideline | Contribution Guideline explains how developers should contribute to the project (e.g., format code, test fixes, and submit patches). For that, usually open source projects place a CONTRIBUTING file in the root directory. | (e.g., Coding Style, Testing, Licensing, Pull-Request Checklist) |
| Deployment Guide | Deployment Guide describes the steps that are necessary to deploy the software in a new environment (usually the production environment). | (e.g., Prerequisites, Installation Steps, Configuration, Troubleshooting, Security Guidelines) |
| FAQ | FAQ provides a list of Q&A which addresses the most frequent questions/issues developers face when using the project (e.g., Common error messages, Is Tomcat faster than serving static HTML pages than Apache httpd?) | (e.g., Table of Content, Common Issues, Basic Usage Questions, How-to Questions, General Questions, License-Related Questions) |
| How-To / Tutorial | Tutorials are usually short documents which guide the reader with a set of step-by-step instructions to complete a specific task or to learn an application's feature. | (e.g., Prerequisites, Examples, Screenshots, Unrecommended Usages, Best Practices) |
| Installation Guide | Installation Guide provides detailed procedures on installation, upgrade, or uninstallation of the software. It usually includes information such as System Requirements, Quick Start Configuration, Set-Up Configurations. | (e.g., Prerequisites, Installation Steps, Configuration, Troubleshooting, Security Guidelines) |
| Introduction / Getting Started Document | Introduction / Getting Started Document is a guide designed to quickly walk the reader through the core concepts and basics of setting up a software package. | (e.g., Quick Start Installation, Minimal Working Project) |
| Migration Guide | Migration Guide (or Transition Guide) is a set of step-by-step instructions that helps users to migrate their data to another (usually newer) version of a software or to integrate a newer version of a framework/library in their codebase. | (e.g., Back-up/Restore Guidelines, Deprecated Functions, Manual Migration Steps) |
| Release Note / Change Log | Release Note / Change Log provides a brief overview of the changes in a new release/version of a product with a list of what is new in it, e.g., bug fixes and new features. | (e.g., Resolved Issues, New Features, Upgrade Instructions) |
| User Manual | User guides (or Software Manual and User Manual) presents an overview of an application’s features and gives step-by-step instructions for completing a variety of tasks. | (e.g., Table of Content, Technical Description, Screenshots, Main Options, Examples, Contact Details, Troubleshooting) |
| Video Tutorials | A tutorial (i.e., a step-by-step instruction to complete a specific task or to learn a feature) in the video format. | (e.g., Playlist, Time Links, Audio Narration, Captions/Subtitles) |
| Community Knowledge | Community Knowledge refers to the information available on sources such as mailing list, Q&A websites (e.g., Stack Overflow), and forums. | (e.g., Question & Answers, Forums Discussion, Mailing-Lists Discussion, Chat Rooms, Social Media, News/RSS Feeds) |

Q11.1   
Documentation Type ${lm://CurrentLoopNumber}/${lm://TotalLoops}:    
***${lm://Field/1}***   
    
 ${lm://Field/2}

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Q11.2 Pick up to **three** of the following **software development activities** in which you consider the given type of documentation (at the top of the page) most useful?  
   
 (Hover the mouse over texts to see more explanation)

* Requirements Engineering (1)
* Software Structure and Architecture Design (2)
* User Interface Design (3)
* Database Design (4)
* Quality Attributes Analysis and Evaluation (5)
* Software Programming (6)
* Software Debugging (7)
* Code Refactoring (8)
* Program Comprehension (9)
* Reverse Engineering and Design Recovery (10)
* Software/Data Migration (11)
* Release Management (12)
* Legal Aspects (Copyright, License, etc.) (13)
* Software Testing/Quality Assurance (14)
* Learning a New Technology/Framework (15)

The following tables presents the activities’ definition which was available to surveyed participants when they hover the mouse over the items in Q11.2

|  |  |
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| **Activity** | **Definition** |
| Requirements Engineering | Activities related to the process of defining, documenting and maintaining requirements, including requirements elicitation, analysis, specification, and validation. |
| Software Structure and Architecture Design | The activity of designing the high-level structure and architecture of a software system, i.e., the set of structures needed to reason about the system, which comprises software elements, relations among them, and properties of both. |
| User Interface Design | The process of designing a user interface of a software system or a computerized device with a focus on look or style. |
| Database Design | Database design is the organization of data according to a database model. During this process one determines what type of information must be stored and how the data elements interrelate. |
| Quality Attributes Analysis and Evaluation | Analyzing and assessing a software system with respect to a variety of software quality attributes (e.g., modifiability, usability, maintainability, reliability, security). |
| Software Programming | Programming is the process of designing and building an executable computer program to accomplish a specific computing task. It involves tasks such as analysis, generating algorithms, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). |
| Software Debugging | Debugging is the process of locating and removing computer program bugs, errors or abnormalities, which is methodically handled by software programmers via debugging tools. |
| Code Refactoring | Code refactoring is the process of restructuring existing computer code without changing its external behavior. Refactoring is intended to improve nonfunctional attributes of the software. |
| Program Comprehension | Program Comprehension is the process of developing mental models of a software system intended architecture, meaning, and behavior. It aims to recover high-level information about a system including its structure, functionality, dynamic behavior, and rationale. |
| Reverse Engineering and Design Recovery | The process of analyzing a subject system to identify the system’s components and their interrelationships, and to create representations of the system in another form or at a higher level of abstraction. |
| Software/Data Migration | Software migration is the practice of transferring data, accounts, and functionality from one operating environment to another. It could also refer to times when users are migrating the same software from one piece of computer hardware to another, or changing both software and hardware simultaneously. |
| Release Management | Release management is the process of managing, planning, scheduling and controlling a software build through different stages and environments; including testing and deploying software releases. |
| Legal Aspects (Copyright, License, etc.) | Legal issues related to software engineering professional practice notably include matters pertaining to standards, trademarks, patents, copyrights, trade secrets, professional liability, legal requirements, trade compliance, and cybercrime. |
| Software Testing/Quality Assurance | Quality Assurance is the implementation of policies and procedures intended to prevent defects from reaching customers, including bug/issue reporting and software testing, an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. |
| Learning a New Technology/Framework | The process of gaining knowledge of or skill in a new technology/framework by study or experience. |

Q11.3  Others? Please specify.

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Q11.4   
Documentation Type ${lm://CurrentLoopNumber}/${lm://TotalLoops}:    
***${lm://Field/1}***   
    
 ${lm://Field/2}

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Requirements Engineering

Q11.5 Why do you think the given type of documentation is essential in the context of **Requirement Engineering**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Requirements Engineering

Q11.6 Are there any elements in this type of documentation that you consider particularly useful in **Requirement Engineering**? (optional)  
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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Requirements Engineering

Q11.7

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Structure and Architecture Design

Q11.8 Why do you think the given type of documentation is essential in the context of **Software Structure and Architecture Design**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Structure and Architecture Design

Q11.9 Are there any elements in this type of documentation that you consider particularly useful in **Software Structure and Architecture Design**? (optional)  
 ${lm://Field/3}

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Structure and Architecture Design

Q11.10

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = User Interface Design

Q11.11 Why do you think the given type of documentation is essential in the context of **User Interface Design**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = User Interface Design

Q11.12 Are there any elements in this type of documentation that you consider particularly useful in **User Interface Design**? (optional)  
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If Loop current: Pick up to three of the following software development activities in which you consider the given... = User Interface Design

Q11.13

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Database Design

Q11.14 Why do you think the given type of documentation is essential in the context of **Database Design**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Database Design

Q11.15 Are there any elements in this type of documentation that you consider particularly useful in **Database Design**? (optional)  
 ${lm://Field/3}

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Database Design

Q11.16

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Quality Attributes Analysis and Evaluation

Q11.17 Why do you think the given type of documentation is essential in the context of **Quality Attributes Analysis and Evaluation**? Can you mention any task when it comes particularly handy?

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Quality Attributes Analysis and Evaluation

Q11.18 Are there any elements in this type of documentation that you consider particularly useful in **Quality Attributes Analysis and Evaluation**? (optional)  
 ${lm://Field/3}

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Quality Attributes Analysis and Evaluation

Q11.19

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Programming

Q11.20 Why do you think the given type of documentation is essential in the context of **Software Programming**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Programming

Q11.21 Are there any elements in this type of documentation that you consider particularly useful in **Software Programming**? (optional)  
 ${lm://Field/3}

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Programming

Q11.22

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Debugging

Q11.23 Why do you think the given type of documentation is essential in the context of **Software Debugging**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Debugging

Q11.24 Are there any elements in this type of documentation that you consider particularly useful in **Software Debugging**? (optional)  
 ${lm://Field/3}

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Debugging

Q11.25

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Code Refactoring

Q11.26 Why do you think the given type of documentation is essential in the context of **Code Refactoring**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Code Refactoring

Q11.27 Are there any elements in this type of documentation that you consider particularly useful in **Code Refactoring**? (optional)  
 ${lm://Field/3}

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Code Refactoring

Q11.28

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Program Comprehension

Q11.29 Why do you think the given type of documentation is essential in the context of **Program Comprehension**? Can you mention any task when it comes particularly handy?

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Program Comprehension

Q11.30 Are there any elements in this type of documentation that you consider particularly useful in **Program Comprehension**? (optional)  
 ${lm://Field/3}

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Program Comprehension

Q11.31

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Reverse Engineering and Design Recovery

Q11.32 Why do you think the given type of documentation is essential in the context of **Reverse Engineering and Design Recovery**? Can you mention any task when it comes particularly handy?

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Reverse Engineering and Design Recovery

Q11.33 Are there any elements in this type of documentation that you consider particularly useful in **Reverse Engineering and Design Recovery**? (optional)  
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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Reverse Engineering and Design Recovery

Q11.34

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software/Data Migration

Q11.35 Why do you think the given type of documentation is essential in the context of **Software/Data Migration**? Can you mention any task when it comes particularly handy?

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software/Data Migration

Q11.36 Are there any elements in this type of documentation that you consider particularly useful in **Software/Data Migration**? (optional)  
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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software/Data Migration

Q11.37

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Release Management

Q11.38 Why do you think the given type of documentation is essential in the context of **Release Management**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Release Management

Q11.39 Are there any elements in this type of documentation that you consider particularly useful in **Release Management**? (optional)  
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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Release Management

Q11.40

Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Legal Aspects (Copyright, License, etc.)

Q11.41 Why do you think the given type of documentation is essential in the context of **Legal Aspects (Copyright, License, etc.)**? Can you mention any task when it comes particularly handy?

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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Legal Aspects (Copyright, License, etc.)

Q11.42 Are there any elements in this type of documentation that you consider particularly useful in **Legal Aspects (Copyright, License, etc.)**? (optional)  
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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Legal Aspects (Copyright, License, etc.)

Q11.43

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Testing/Quality Assurance

Q11.44 Why do you think the given type of documentation is essential in the context of **Software Testing/Quality Assurance**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Testing/Quality Assurance

Q11.45 Are there any elements in this type of documentation that you consider particularly useful in **Software Testing/Quality Assurance**? (optional)  
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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Software Testing/Quality Assurance

Q11.46

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Learning a New Technology/Framework

Q11.47 Why do you think the given type of documentation is essential in the context of **Learning a New Technology/Framework**? Can you mention any task when it comes particularly handy?

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If Loop current: Pick up to three of the following software development activities in which you consider the given... = Learning a New Technology/Framework

Q11.48 Are there any elements in this type of documentation that you consider particularly useful in **Learning a New Technology/Framework**? (optional)  
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Display This Question:

If Loop current: Pick up to three of the following software development activities in which you consider the given... = Learning a New Technology/Framework

Q11.49

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If If Others? Please specify. Text Response Is Not Empty

Q11.50 Why do you think the given type of documentation is essential in the context of **${Q11.3/ChoiceTextEntryValue}**? Can you mention any task when it comes particularly handy?

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End of Block: Survey2-loop