

Document Development Lifecycle

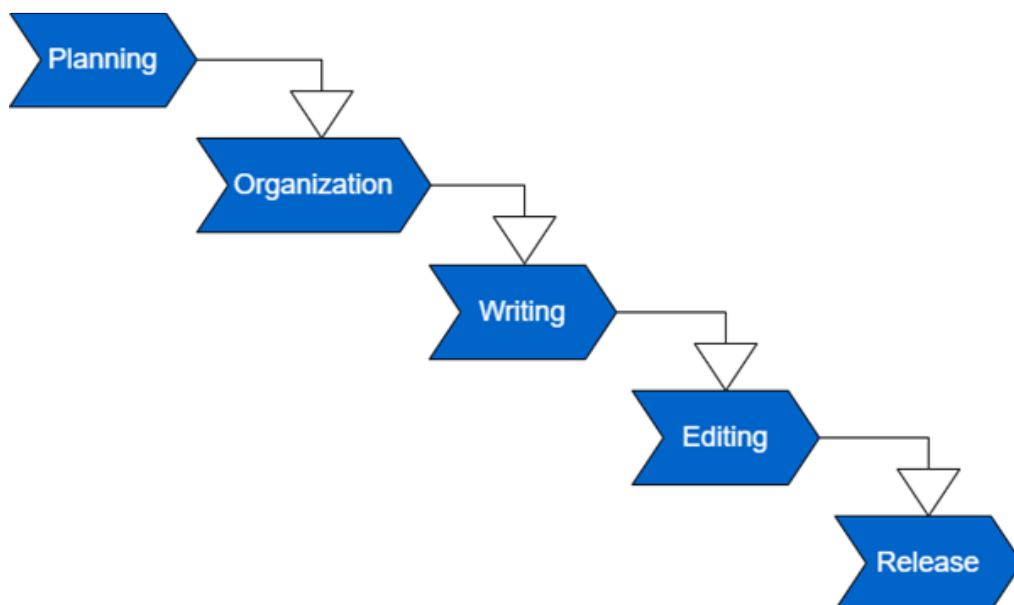
DDLC of a Software Technical Document

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Introduction

"With Great POWER comes great RESPONSIBILITY" said Uncle Ben to Spider-man because he was saving the world. Had Spider-man been a Jr. Technical Writer and Mr. Ben his mentor he would have said, *"only with a great P.O.W.E.R comes great DOCUMENTS"*.

The Document Development Life Cycle (DDLC) of a Software Technical Document includes several tasks to ensure quality, which can be grouped into five key phases. These phases are represented by the acronym P.O.W.E.R: P for Planning, O for Organizing, W for Writing, E for Editing, and R for Release. By effectively managing these phases, we can produce a clear, concise, and accurate software technical documents that serves the target audience. Let us now look at these phases in detail.



DDLC Waterfall Model

1. Planning Phase:

Objective: Lay the groundwork for the software technical document by defining the scope, target audience, goals, templates, and necessary resources.

1.1 Template Planning

- **Select a Template:** Choose a layout and structure for the document that aligns with company standards or meets user expectations. This may involve utilizing pre-established templates, including standardized headers, section designs, and formatting guidelines. If no existing template is available, new template samples should be developed and finalized in the planning stage.
- **Determine Visual Format:** Decide on the design elements such as typography and color schemes to suit the document's purpose and audience. Also, choose the format (e.g., PDF, HTML) based on the requirements and potential differences in template configuration.
- **Consistency in Design:** Ensure the template supports all essential sections (such as Table of Contents, Index, Figures) and can be easily adapted throughout the document.
- **Template sign-off:** Once the template has been finalized, it should be reviewed and approved by all stakeholders (product owner, business analyst, product manager) before being officially locked in.

1.2 Resource Planning

- **Identify Resources Needed:** Determine the required personnel (writers, subject matter experts, designers, reviewers) and technical resources (tools, platforms, or documentation systems) to create the document.
- **Allocate Time and Budget:** Estimate the time and budget for each stage of the document creation process, taking into account the document's complexity and length.
- **Assign Roles and Responsibilities:** Clearly define roles for content creation, graphic design, technical review, and editing. Ensure each team member understands their responsibilities and the overall goals of the document.
- **Gather Tools and Materials:** Ensure access to necessary software for creating diagrams, capturing screenshots, and collaborating with remote teams.

1.3 General Planning Tasks

- **Identify Stakeholders:** Collaborate with product managers, developers, support teams, and end-users to gather insights into what the document should cover.
- **Define the Audience:** Determine the target audience (e.g., developers, end-users, system administrators) to decide on the level of detail, tone, and technicality required.
- **Set Objectives:** Establish the purpose of the document (e.g., feature usage, troubleshooting, system configuration).
- **Gather Requirements:** Identify the features, use cases, and technical aspects the document needs to address.
- **Document Style Guide:** Either create or refer to an existing style guide to ensure consistency in language, terminology, and formatting throughout the document.

2. Organizing Phase:

Objective: Structure the document to ensure a logical flow and facilitate easy navigation.

- **Create a Table of Contents (TOC):** Draft a TOC that reflects the document's structure, incorporating feedback from stakeholders. The TOC should outline key sections such as installation, configuration, usage, troubleshooting, and FAQs.
- **Define Sections:** Organize the content into clear, logical sections and subsections to make navigation intuitive. Common sections might include:
 - **Introduction** (Overview, Purpose of the software)
 - **Installation Guide** (System requirements, installation steps)

- **Getting Started** (Initial setup, configuration)
- **Features** (Detailed feature descriptions and usage instructions)
- **Troubleshooting** (Common issues, solutions)
- **Appendices** (Additional resources, glossary, index)
- **Content Flow:** Establish a coherent progression of information, including step-by-step instructions, explanations, and practical examples, to document the reader through the document.

3. Writing Phase:

Objective: Develop clear, user-friendly content by lettering pertinent and straightforward instructions and information.

- **Step-by-Step Instructions:** Provide detailed, easy-to-follow procedures for using the software, breaking down complex tasks into manageable steps.
- **Clarity and Precision:** Ensure instructions are clear, concise, and unambiguous.
- **Illustrations:** Include relevant screenshots, diagrams, or flowcharts to support the text and help clarify the steps.
- **Use Case Scenarios:** Offer real-world examples or scenarios to help users understand the context and application of the software.
- **Consistency:** Adhere to the established style guide to maintain uniformity in terminology, formatting, and tone throughout the document.
- **User Feedback:** Share drafts with a small sample of the target audience to gather initial feedback and refine the content.

4. Editing Phase:

Objective: Perfect the content to ensure the document is accurate, clear, well-organized, and error-free, while enhancing readability, consistency, and correctness.

The Editing phase is critical for refining the document. By incorporating self-review, peer review, technical review, editorial review, legal review, and business review, the document is thoroughly evaluated from multiple perspectives. This comprehensive review process ensures that the document is technically accurate, user-friendly, and aligned with both business goals and legal standards, ultimately making it a valuable resource for users.

4.1 Self-Review

Objective: Conduct an initial review to identify any obvious errors and inconsistencies before seeking external feedback.

- **Content Flow:** Ensure the document is logically organized and information is presented in a clear, sequential manner.
- **Clarity and Readability:** Review the language to ensure that it is clear, concise, and easy to follow for the target audience.
- **Consistency:** Verify consistency in terminology, formatting, and style throughout the document.
- **Visual Content:** Review any visuals for clarity and relevance, ensuring they align with the corresponding text.

4.2 Peer Review

Objective: Allow colleagues or other team members to review the document for overall structure, clarity, and usability.

- **Feedback on Structure:** Seek input on the organization of content, ensuring sections flow logically and are easy to navigate.
- **Clarity and Language:** Ensure that the document is understandable to the target audience and that language is suitable for both technical and non-technical users.
- **Usability:** Gather feedback on the ease of use and whether the document effectively helps users complete tasks.

4.3 Technical Review

Objective: Validate the technical accuracy and completeness of the document.

- **Subject Matter Expert (SME) Review:** Have the document reviewed by SMEs, such as developers or system administrators, to confirm the accuracy of installation, configuration, troubleshooting steps, and features.
- **Version Verification:** Ensure the document reflects the correct version of the software and that the features, settings, and configurations match the current release.
- **Integration with Other Documentation:** Check that the document aligns with related technical documents (e.g., API documentation, release notes, FAQs) to avoid contradictions.

4.4 Editorial Review

Objective: Focus on improving the readability, style, and tone of the document, ensuring it is consistent and error-free.

- **Grammar and Punctuation:** Review the document for grammar, spelling, and punctuation errors.
- **Conciseness:** Eliminate redundancy and ensure that instructions are clear, direct, and free from jargon.
- **Formatting Consistency:** Check for consistent formatting, including font styles, paragraph alignment, and list formatting.
- **Language and Tone:** Ensure the tone is appropriate for the target audience, using simple language for non-technical users and industry-specific terminology for technical audiences.

4.5 Legal Review

Objective: Ensure that the document complies with legal and regulatory standards, as well as the organization's internal policies.

- **Compliance with Regulations:** Verify that the document adheres to accessibility standards, privacy policies, and any other relevant legal requirements.
- **Proprietary Information:** Ensure that no proprietary or confidential information is included without proper authorization.
- **Disclaimers and Legal Notices:** Review any necessary disclaimers, terms of service, or legal notices to ensure they are included where applicable.

4.6 Business Review

Objective: Confirm that the document aligns with business goals and stakeholder expectations.

- **Alignment with Objectives:** Ensure that the document meets the objectives defined by stakeholders, such as product managers, business analysts, and product owners.
- **Target Audience:** Verify that the content is tailored to the correct audience and meets their needs, whether they are end-users, developers, or system administrators.
- **Stakeholder Feedback:** Incorporate feedback from key stakeholders, ensuring the document aligns with business requirements and provides value to the users.

5. Release

Objective: Prepare the document for distribution, ensuring it is accessible and meets the needs of the intended users.

- **Final Review and Approval:** Obtain final approval from relevant stakeholders, such as product managers or team leads, to ensure all content is accurate and aligned with organizational goals.
- **Publishing the document:** Distribute the document in the chosen format(s) (e.g., PDF, HTML, printed copies) to make it readily available to users.

- **Document Repository:** Upload the finalized document to a centralized platform, such as a knowledge base, website, or internal document management system, ensuring easy access for users.
- **Versioning:** Assign the correct version number to the document, making it clear which version of the software the document corresponds to.
- **User Notification:** Notify the user community about the availability of the document through announcements, emails, or product release notes, ensuring they are aware of its existence and access points.
- **Ongoing Maintenance:** Continuously monitor user feedback and regularly update the document as necessary to reflect software updates, new features, or changes in procedures, ensuring the document remains relevant and accurate over time.

Summary

The Document Development Life Cycle (DDLC) process may vary from one organization to another, with each organization selecting specific steps from the outlined phases based on their needs. Some organizations may incorporate additional steps in certain phases. However, the DDLC described above represents the standard approach followed by the majority of software development organizations.