Code is like humor. When you have to explain it, it’s bad. Documentation is like insurance. When you need it the most, you’ll be glad you have it.  
  
Below when we need to write doc :  
  
👉API Documentation: When developing APIs (Application Programming Interfaces), clear documentation is essential to help other developers understand how to interact with the API, including its endpoints, parameters, and expected responses.  
  
👉Library or Framework Documentation: When creating libraries or frameworks, thorough documentation helps users understand how to use the provided functionality effectively and efficiently.  
  
👉User manuals or Guides: For software products intended for end-users, comprehensive documentation is crucial to guide users through installation, configuration, and usage of the software.  
  
👉Internal Documentation: Documentation is also necessary within development teams for internal processes, coding standards, architectural decisions.  
  
👉Regulatory Compliance: In industries with regulatory requirements, such as healthcare or finance, documentation is necessary to demonstrate compliance with standards and regulations.  
  
👉Open Source Projects: In open-source projects, well-documented code and contribution guidelines are essential to encourage collaboration and enable other developers to understand, contribute to, and build upon the project.  
  
Here are some advice on maintaining living documentation:  
  
👉Encourage team members, including developers, testers, and stakeholders, to contribute to the documentation.  
  
👉Use a format that is easy to access and update, such as wikis or version control systems.  
  
👉Establish links between code artifacts and the corresponding documentation.  
  
👉Use tools and frameworks that automate the generation of documentation from code.  
  
👉Avoid overly verbose documentation. Focus on key information, such as high-level architecture, important design decisions, and known issues.  
  
👉Treat documentation updates as part of the development process. Whenever there are significant changes or new features, make it a practice to update the documentation accordingly.  
  
👉Actively seek suggestions for improvement and incorporate them to enhance the quality and usefulness of the living documentation.  
   
  
Finally : Documentation is a love letter that you write to your future self.

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