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## What should a high level design document contain

This article includes a list of general references, but it remains largely unverified because it lacks sufficient corresponding inline citations. Please help to improve this article by introducing more precise citations. (November 2015) (Learn how and when to remove this template message) High-level design (HLD) explains the architecture that would be used to develop a system. The architecture diagram provides an overview of an entire system, identifying the main components that would be developed for the product and their interfaces. The HLD uses possibly nontechnical to mildly technical terms that should be understandable to the administrators of the system. In contrast, low-level design further exposes the logical detailed design of each of these elements for use by engineers and programmers. HLD applies to both software and hardware, often hardware is forgotten in system development and only software is discussed. Purpose Preliminary design—in the preliminary stages of a system development, the need is to size the project and to identify those parts of the project that might be risky or time-consuming. Design overview—As the project proceeds, the need is to provide an overview of how the various sub-systems and components of the system fit together. In both cases the high-level design should be a complete view of the entire system, breaking it down into smaller parts that are more easily understood. To minimize the maintenance overhead as construction proceeds and the lower-level design is done, it is best that the high-level design is elaborated only to the degree needed to satisfy these needs. High-level design document A high-level design document or H added the necessary details to the current project description to represent a suitable model for coding. This document includes a high-level architecture diagram depicting the structure of the system, such as the hardware, database architecture, application architecture (layers), application flow (navigation), security architecture and technology architecture.[1] Design overview A high-level design provides an overview of a system, product, service or process. Such an overview helps supporting components be compatible to others. The highest-level design should briefly describe all platforms, systems, products, services and processes that it depends on and include any important changes that need to be made to them. In addition, there should be brief consideration of all significant commercial, legal, environmental, security, safety and technical risks, issues and assumptions. The idea is to mention every work area briefly, clearly delegating the ownership of more detailed design activity whilst also encouraging effective collaboration between the various project teams. Today, most high-level designs require contributions from a number of experts, representing many distinct professional disciplines. Finally, every type of end-user should be identified in the high-level design and each contributing design should give due consideration to customer experience. See also Software development process Systems development life cycle References ^ External links High Level Design Document sample format Retrieved from " Be sure to read through this entire page. It's all relevant. Each design document is worth 40% of the project. While it will likely take less than 40% of the time you spend on the project, you should take it very seriously. We will grade your designs harshly. The design is essentially the most important part of the project. Having a good project design can literally cut your total coding time by a factor of 10. Design documents should be around 2,000 to 4,000 words long. If it's longer than 5,000 words, we won't read it. So keep'em short and to the point. Design documents will be submitted online, in PDF, HTML, or text format. We encourage you to use your favorite word processor to make your design document, but you must convert it to PDF or text when you're done. We'll provide basic directions on how to do that. Here's a sample project and a sample design for it. The sample project is only a fraction of the length of your projects, though. A design document is a complete high-level solution to the problem presented. It should be detailed enough that somebody who already understands the problem could go out and code the project without having to make any significant decisions. Further, if this somebody happens to be an experienced coder, they should be able to use the design document to code the solution in a few hours (not necessarily including debugging). So what actually goes in? A high-level description of your solution, including design decisions and data structures Declarations for all new classes, procedures, and global/class variables Descriptions of all new procedures (unless you can tell exactly what it does from the name), including the purpose of the procedure, and an explanation of how it works and/or pseudocode For example, this is the pseudocode I would write for the existing Condition::Wait: void Condition::Wait() { water = new Semaphore, initially 0 } append waiter to waitQueue conditionLock->Release() waiter->P() conditionLock->Acquire() Your pseudocode has to be precise. For instance, in describing your solution for the Communicator class, it is not enough to say if anybody's waiting, then signal cv You need to say how you determine if anybody's waiting, e.g. by saying if (waitingReceivers>0 or waitingSenders>0) then signal cv Also, another important thing to remember is that a design document needs to include the correctness invariants and testing strategy. The testing strategy includes a clear plan of the testing methodology and may include a description of test cases that will be used to test correctness invariants. Focus on the testing strategy. If you want, you may itemize things that will need testing. What doesn't go into a design document? Keep in mind that your TA understands the project very well. Do not restate the problem in your design document. Your TA is far more interested in your solution than in knowing that you understood the problem. Your design document should contain very little actual code, if any at all. Include pseudocode for all complex procedures, but do not include Java code. The purpose of pseudocode is to avoid all the annoying aspects of programming languages that make code both harder to write and harder to read. The purpose of pseudocode is not to be imprecise about how you solve a problem. Comments are welcome, but ASSERT and DEBUG statements, for example, do not belong in pseudocode. Remember that we have to read your design documents. If you don't think we want to see it, don't put it in! How do I convert x to PDF? First convert to postscript: Raw text: use `enscript on an instructional machine`. HTML: Run `netscape on an instructional machine` and print to a file. Word Document: Convert it to HTML, or try the next alternative. Anything viewable in Windows: install a postscript printer driver (e.g. HP Laserjet 5 Postscript) and print your document to a file. It will have the .pm to .ps and it should work fine. Then run the `ps2pdf` command on an instructional machine. Be sure to make sure your .pdf file works before you turn it in (try viewing it with `gs`, `gsview`, or `acroread`). How do I submit a design document? Place your design in a file called `projN-initial-design.[pdf|txt|html]`, where N is the project number. For project 1, your design document should be called `proj1-initial-design.[pdf|txt|html]`. Then run `tar cf projN-initial-design.tar projN-initial-design.[pdf|txt|html]` followed by `gzip projN-initial-design.tar` Now, in the directory containing `projN-initial-design.tar.gz`, run `submit projN-initial-design` again, substituting the project number for N. For project 1, you would type `submit proj1-initial-design` To submit the final design doc, you similarly create a `projN-final-design.[pdf|txt|html]` and repeat the process, with 'initial' replaced with 'final'. what does high level design document contain

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