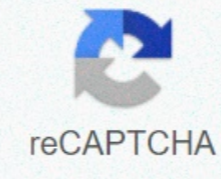




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## Software design specification document example

I'm a senior software engineer specializing in S.O.L.I.D. and his Agile lover. Being minimalist and being atheiomatic means that we can make a set of rules out of a single definition. If we build the whole paradigm on a single rule we can keep it simple, stupid and make excellent models and thus excellent software. One of the most despised quality features on the software is the type of being predictable. We are taught that software at university and books should be fast, reliable, robust, secure, etc. but being predictable is almost nowhere above the top five design priorities. We're just going to do an exercise in object-oriented software design by specifying a policy: each impact object must be represented by a single object in our calculatable model, or vice versa. The relationship between model objects and the assets of the real world 1: 1 In this article you can see the justification for this model: Then we will try to derive this ad mysome, of course, without contradiction, design rules and heinerary. Problem Many of the language applications used in the we industry ignore this rule and you will find that it causes these major problems. We continue to make decisions such as calling out problems that appeared in the construction of the software 3 or 4 years ago, which almost no longer exist or do not exist in several areas, monkeys that beat others without knowing the cause of such behavior. We want to be able to simulate the real-world conditions that occur when building all kinds of models while the models are growing in help, so that we can follow every element of interest in our simulation and stimulate it so that we can observe the changes as in the real world. Meteorologists make mathematical models for predicting and predicting the behavior of the climate, and most scientific disciplines are based on these simulations. With the rise of machine learning, we are creating black box models to predict real-life behavior. Importance of Bijection We will always have a single and single object that represents a real entity in the software domain and under the paradigm of objects. Let's try to prove in an absorgical way what happens if we don't follow the principles of being bijection. BijectionCase 1) We have an object in the calculatable model that will represent multiple real-world assets in common situations in the industry. For example, many programming languages model algebraic measures using only scaler size. Then you can represent 10 meters and 10 inches (two completely different entities in the real world) by a single object (number 10) and we can add them together to achieve representing 10 meters in the number of our model10 10 (representing 10 inches) number 20 (who knows what it represents). This creates problems that are not always caught in time. Because it's a semantic mistake. The error usually occurs after a long time of failure, as in the famous case when the Mars Climate Orbiter.The end exploded by mixing different units into the heat. Example 2) Our calculatable model represents the same actual entity as the two objects. Let's assume that our observable real-world discipline is also competing but also an athlete John Smith who is a judge of another athletic discipline. In the real world, only one person should be a single object in our calculatable model. To perform our partial simulation, we need to model the minimum behavior. If we have two different objects representing Jane Doe (a competitor and a judge), sooner or later we will face inconsistencies by assigning some responsibilities to one of the two and not wanting to see her reflect on the other. To solve such problems, we must stop seeing entities as data structures with attributes, think of them as objects, and understand that they are objects that perform different roles depending on the context in which they interact. We can even decide that you're not going to represent Jane, but your role in the simulation. Example 3) A bitcoin wallet can be represented as an anemic object (with some features related to address, balance, etc.) or a functional object (with responsibilities such as transaction taking, blockchain, etc.), but it is clear that they are associated with the same concept for a person who is not in the software business. Therefore, bijection should be performed. Example 4) In most modern object programming languages, a date, day, month, and year can be created. We have all learned that November 31, 2020 can be created, and that most languages will gently rotate a valid object (probably December 1, 2020). But it is nothing disguised as a benefit but error hiding, producing a connection dependency on the design decision made by the programming language and hiding a sure error in the data load. Link: Single and Single Software Design ProblemThe bug appears later, these dates also cause the perpetrator to root the fast policy violation by running a night batch of remote processing. All document management systems digitize and edit documents, making them easier to get or review for users with permission, while many other features may be built into your document management software. You can take a look at some of the tools and directions you might want to consider when choosing a document management system. Availability One of the most important elements of any software is availability. This can offer all the features in the world, but it won't do you any good if the system isn't user-friendly. Many document management systems offer a free trial allowing you to test them before purchasing them. If possible, let your team try the software during the free trial period and give them feedback on what they like and dislike about it. Document Sharing and While the primary function of the document management system is to digitize and edit files, most modern software allows users to share files with each other and collaborate on editing them. Some document management software allows users to manage the document at the same time, while others rely on a check-in/check-out feature that guarantees that only one user can work on the document at a time. Others offer both options. Version Control Version control, sometimes called version, is an important feature of document management software that allows you to track changes in a document. The best document management software even protects the archive of older versions, allowing you to see how documents change over time and, if necessary, can be reused to the older version. Image Scanning and OCR Image scanning and optical character recognition are useful features for businesses in a lot of paper records they want to digitize. Scanning is the first step – converting a paper record into a digital file that can be transferred to software. OCR is a more advanced feature, but it is a must-have for streamlining major digitization projects. OCR reads the text of an image and makes the contents of the image searchable. The best document management systems use OCR to automatically populate metadata and make it even easier to search for the document later. Electronic Signatures Document management software is typically home to files that require an administrator's signature, such as purchase orders. Many document management systems are inseed with an e-signature tool, such as DocuSign, to allow electronic signatures. You can send a document to the recipient that usually requests a signature through the software. Workflow Automation Workflow automation features automatically move tasks. Take the above purchase order as an example: After a purchase order is created, you can set up a workflow automation so that it automatically goes to the appropriate manager for their signature. The administrator receives a notification, and when the task is completed, the next relevant team member (such as someone from the accounting department or the administrator's supervisor) is notified. If more action is required, you can also create it into an automated workflow. The best document management systems let you customize workflows to fit the way your teams work together. User Permissions A key element of document management software is the ability of administrators to set individual user permissions. Permissions allow specific users to view or edit files, while others may even be prevented from seeing these documents on the system. This is not only useful for efficiency purposes, but also an important safety measure. Best document management software, administrators' permissions are specific adjusted accordingly and and if you need to make an exception while keeping the default permission settings the same, instantly. Mobile Functionality In today's business environment, mobile device access is essential. Many document management systems have a special mobile application. Others rely on web browsers or online portals. Make sure that the mobile version of any document management software you consider is really mobile friendly. Even if you don't use it personally on mobile devices, other members of your team will not either. Each document management system controls all these boxes, while others offer all and more. When choosing your document management software, consider the most useful tools and features for your business. It is important to strike a balance between comprehensiveness and availability; for example, some systems can do all this but it is a challenge to navigate (simpler software is not more expensive mention). Data Security Data security is an important part of any document management system. In 2019, the number of violations increased by 54%, of which 89% were external attacks, TechRepublic reported. As a growing number of businesses go digital, more customers are entrusting sensitive personal information to the companies they do business with. Your organization is responsible for protecting customer data from a breach. Look for document management services that offer encryption and compliance tools, automatic updates, data remnity, and backup. Backup.

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