


What do you mean by the term software engineering

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What do you mean by the term software reverse engineering.

Software engineering is the process of analyzing the needs of users and then designing, building and testing applications for end users who meet those needs through the use of software programming languages. It is the application of engineering principles for software development. Unlike simple programming, software engineering is used for large and more complex software systems, which are used as critical systems for companies and organizations. The typical formal definitions of software engineering are: A «The application of a systematic, disciplined and quantifiable approach to development, operation and maintenance software. However, software engineering is a relatively new engineering area, but the scope of software engineering is extremely wide. Being one of the most outstanding branches of the engineering field, it is growing between the most rapid fields of the current world. It is fit that the symmetrical software development can be used for any type of software development, whether as simple as a basic visual for module applications for Microsoft Word, Excel or Access or develop large, expensive and complicated applications For companies or create software for games entertainment. Software engineers are informal programming professionals. It is worth mentioning that a software engineer is also a programmer, since he writes codes, but a programmer can not be called a software engineer, because in the first case it is necessary to have a formal education. In addition, a software engineer is one who follows a systematic process that leads to understanding the requirements, working with teams and diverse professionals to create the application software or components or modules that satisfy the specific needs of the users; while a computer programmer can independently, as you understand algorithms and know how to create codes by following the specifications given by software engineers. USE IN OUR Daily LivingSoftware engineering is a great field. It is not only limited to computer programming, but it is much more than computers programming. It covers a wide range of professions of business designs to graphics or development of video games. It does not only in a specific field, but each field of work is needed. Specific software is needed. Since the software is developed and integrated into the machines so that it can meet with all the purposes and purposes of users of various professions, software engineering is of great application and assistance. Not only the field of software engineering implies the use of some common informed languages, such as C, C ++, Java, Python and Visual Basic in an appropriate way that the expected results can be achieved, but also leads to Apply the concepts in such a way that the development of the software can be carried out effectively and efficiently. Software engineers or developers are creative minds behind computers or programs. Some develop application software for clients and companies by analyzing the needs of users. Some develop the system software used to execute the devices and to control the networks. Whatever the nature of work, software engineering is one of the highest fields paid in this day and modern age. It is an ascending field, since it is believed that it is likely to grow much more rapid than the average compared to other professions. If you have strong problem solving skills, an eye for details and good understanding of mathematical functions, then you can consider this lucrative field of study that could give you several benefits including a level of superior work satisfaction rewarding your Creative efforts. Large factors in flexibility Enging Software and extensibility Flexibility is software capacity add/modify/remove functionality without damaging the current system. Extensibility is the ability of the software to add functionality without damaging the system, so it can be thought as a subset of flexibility.Functionality changes can be produced in function of changing requirements, or an obligation if the development process is one of the iterative methods. The change is inevitable in the development of software and, therefore, this is one of the most important properties of quality software. Maintenance and readability Maintenance is a bit similar with flexibility, but focuses on modifications on corrections of errors and minor modifications of functions, not major functional extensibilities. It can be supported with useful interface definitions, documentation and codes of self -ocumentation and / or code documentation. The most correct and useful, the documentation exists, the greater the maintenance capacity. Performance and efficiency Performance refers mainly to the software response time. This response time should be at acceptable intervals (for example, a few seconds as maximum) and should not be increased if the number of transactions increases. And also, resources are expensive. Efficiency must be supported by the use of resources. As an exaggerated example, the ability to perform a simple function using a machine of 32 processors or 1 tb of disk space is not acceptable. A service / performance option should be sought. Scalability A scalable system responds to the user's actions in an acceptable time, even if the load increases. Of course, you can add more hardware to handle more and more user transactions, but the architecture should not change while doing this. This is called vertical scalability. The ability to operate in multiple and increasing number of machines is multiple processing. If the software can perform this type of processing, this is called horizontal scalability. A preferred scalable system should adapt to both methods. Availability, Robustness, Tolerance Missing and confidence Software you should not lose your availability even in most failing states. Even if some components break down, it can still work. Also, even if the entire application is blocked, it can recover itselfHardware and data backup with failure tolerance approaches. There should always be plans B and even C, D. Reliability also represents the integrity and consistency of the software even under high load conditions. Therefore, it is relevant with availability and scalability. An unreliable system can not be climbed either. Usability and accessibility User interfaces are the only visible parts of the software according to the user's point of view. Therefore, simplicity, take less time to complete a job, speed of learning, etc. They are very important in this case. The most known principle for this property is KISS (Keep It Simple Stupid). Simple is always the best. The informable programs usable should also support different types of accessibility control for people with disabilities. Platform Compatibility and Portability Quality software must work on as many platforms as possible. Therefore, more people can make use of it. In different contexts, we can mention different platforms, this can be platforms, types of browser, etc. And the portability consists of adapting software that can be executed on different platforms, to be more compatible with platforms. In this sense, portability is also related to flexibility. Testability and Management Quality software requires quality tests. The source code should be tested with the greatest coverage and with the most effective testing methods. This can be done by correctly using encapsulation, interfaces, patterns, under coupling, etc. techniques In addition to the test capacity, the qualified informant programs should be able to handle after it can be monitored, for example, for performance or status of data, or may allow the developer to configure the FA system cilly. The creation of a successful registration system is another matter very about manageability. SECURITY Security is a very important issue in software development, especially for web-based or mobile devices that may have millions of users with the ability to access the system remotely. You must construct a security policy and apply it Without leaving entry points. This may include authorization and authentication techniques, protection of network attacks, data encryption and so on. All possible types of safety leaks should be considered, otherwise only one day an attack can collide all its application and all the company. Functionality and Correctness functionality (or correction) is the conformity of the software with the requirements and real specifications. In fact, this is the pre-communication attribute of an application, and maybe not a quality factor, but we wanted to show that as the last quality factor, to be care: quality factors are not significant when we are talking about Non-functional software. First, perform the desired functionality and produce correct software, then apply quality factors in it. If you can perform both parallel, it is the best. CONCLUSION Software engineering remains very essential for our daily life. There are so many different features that make a good software engineer. There are several success factors that guarantee a successful software development project. In addition, if you are in need of a software engineer or development project, you can contact us for an appointment FORTRAN HOUSE, our software services are second to none based on our wealth of knowledge and experience in development Software, et al, this makes us stand out from the competition. This article has been recovered at What-is-Software-Engineering-and-Its-Importance-in-Our-Daily-Life / HTTPS: // Fortranhouse. COM / BLOG / 2020 / 07/01 / WHAT-IS-SOFTWARE-ENGINEERING-AND-ITS-MATTERNANCE-IN-OUR-DAILY-LIFE /

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