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Java chat application

Typically, J2EE applications are very large and contain several components from the front screen to the back end database. Automated testing is preferable over manual testing for such large applications thanks to stored time and effort. Automated testing is usually done with tools and framework. J2EE contains several components; please refer to Part 1 of this java application testing series, i.e. Java Application Overview for more details. As an overview: JSP is a viewer or screen component. JSF is a framework of viewing components. JavaScript is used to test the screen. Servlet, Framework, EJB, Bean and other Java classes are used to write business logic. Automated testing can be done with a single tool or a combination of tools for each Java component. Please note that app testing cannot be fully automated. The solution to automation depends on the size and complexity of the program, as well as the advantages of the developer, tester, architect. Remember that when writing applications, the process will smooth the team and produce a quality final product that meets the high expectations of the customer. Stages in the automated testing process: For effective automated testing, a testing approach needs to come up with a detailed opinion before developing the program. There are two separate processes: Development of applications with an automated testing tool in mind in stages of testing itself. The flowchart below depicts the development process with automation testing. The following steps describe the automation testing process:#1) Do an analysis to determine whether a manual or automation test should be conducted. Also analyze what part/s of testing in the application should be automated, and what should be manual.#2) After there is a scope or requirement for automation of testing, do a method-economic analysis.#3) Identify and select the appropriate tool. Once the components involved in the J2EE application are known and the complexity of the program is understood, one or more tools as needed can be selected for testing. For example, for a fully JSP-based application screen navigation tool, for example, Selenium Webdriver may be sufficient. Note that for the JSF-based user interface program, in addition to JUnit and screen navigation testing tools, you may need specific JSF tools to test.#4) Analyze and decide how many testing stages you need to conduct. If a business unit, integration, functionality/system, and regression are executed, select the appropriate tool for each stage.#5) Analyze the impact of the testing tool on the development of the program. If testing is automated, it's important to develop programs that keep the tool in mind.#6) Develop a pilot or model program, run the tool and check if the tool adds a value evaluated at the stage If this step goes as planned, the tool can be finalized for application.#7) Once the application is ready for testing, write the test test and run the tool. Choosing a toolSelecting the appropriate automation testing tool for the J2EE program depends largely on the type of application and technologies used. In addition, there are several other factors that affect tool selection:1) Application type – the J2EE app can have many variations. Some are designed with frameworks such as Struts, Spring, Hibernate, some use only server-side technology (JSP, Servlets), while other applications are built to the end, such as view components, controller, business logic and database. One or more tools can be selected by the technologies used. For J2EE component tools available, please refer to the following article in this series.2) Difficulty applying – If the application is complex with financial implications for a large set of users, testing should be done at a detailed level with the appropriate tools. If the app is simple, such as displaying reports and data with only a few users, testing can be done with simple open source tools.3) Test type – Unit Testing Tool may not work well to test integration and vice versa. For example, JUnit is a popular block testing tool, but TestNG is used to test integration.4) Testing budget – Many popular tools are open source, so they are suitable for most projects. For specific technology tools, the team may need to check whether the cost of the tool is acceptable.5) The testing time frame – As with most application developments, the timing is tough. Some tools may require more time than others to train, configure the environment and write test cases.6) Environmental support – It is important to choose the J2EE testing tools based on the environment that will be launched by the program. For example, some only work on Windows, and some are language-based.7) Knowledge tester – Tester can be familiar and experienced in a particular tool. If your project requirements and tester knowledge match, this tool can be selected to save time on learning.8) Compatibility with other testing frameworks – In large J2EE applications, when multiple components are used, such as JSP, Servlets, JavaScript, JSP, EJB and Database, one tool will not work for everyone. Thus, the selected testing framework should be able to accommodate other frameworks.9) Displaying test results and statistics – For most projects, the readability of the test can form important criteria. Thus, test results can be important for displaying in the correct screen format with a list of defects, causes, etc. The advantages of automated testing of J2EEJ2EE applications are usually great; manual testing of the entire program can be very time-consuming and error-prone. Multiple tools J2EE testing comes with basic functionality testing features. They are designed and designed by keeping the component in mind. This greatly facilitates the life of the tester. For example, the JSF JSFUnit tester should Classes. The effectiveness of automated tests is high. When manual testing, correctness depends on the skill of the tester. In projects where repeated changes and testing of the same code need to be done multiple times, automated testing proves useful. Automated testing covers a larger set of test cases. Since this type of testing does not depend on the person, the speed of execution is fast and a larger set can be covered in a short time. Since tester intervention is optional, for the most part, test results are more accurate than manual testing. The testing process is also consistent. Conclusion:Automated testing is preferable to large J2EE applications. Testing of the program may not be fully automated. Manual and automated testing goes hand in hand. While initially learning and tweaking the tool may prove time-consuming once the process is established, testing is more effective. In the next article, we'll see a complete list of popular J2EE component testing tools and frameworks. Let us know your experience of testing automation and queries. When you really want to stay connected for long distances, a simple phone call or voice chat pales in comparison to a face-to-face video chat. You can look at your distant significant others in your eyes while you speak; your parents may watch their grandson grow up; and under the right circumstances, video chat can also be a great tool for challenges related to work and collaboration. The question is, what tools should you use to get most of your calls? Earlier this week, we asked you to share your favorite video chat apps, and today we're back with the top five responses. Keep reading for a closer look at the best video chat tools and then cast your vote for the one you love best. Google Video Chat (Web based, Windows / Mac OS X) Google launched a video chat inside Gmail earlier this week, and has already become a popular option for video chat (that's the power of GOOG!). Its rapid popularity is in no small part thanks to smooth integration with Gmail – if you already have a Gmail account, using it is kind of pointless. You'll need to install a free plugin to get started with Google video chat, but it works no matter what operating system you're using. Video chat integration isn't yet available on all accounts, but if it hasn't already, it should end up in a Gmail account near you very soon. TokBox (website, support for all platforms)G/O Media can get commissionTokBox - a web application for video chat. Aside from a standard homepage where you can sign in and initiate video chats with anyone through your web browser, TokBox has made its name by integrating with other services. For example, you can install tokBox to expand Facebook Firefox to start video calls with any of your Facebook friends. Similarly, if you're a fan of online instant messaging app Meebo, you can start video chat with a Meebo Meebo instant messaging session In the tokBox field. If you prefer a desktop component, TokBox also has the Adobe AIR desktop app available on their homepage. Skype (Windows/Mac/Linux)Skype is a popular VoIP app that can call from PC to PC and PC to phone; as long as you have a webcam, any call from PC to PC can instantly become a video chat. With the release of Skype 4.0 Beta in Windows, video chat on Skype was bigger and better than ever. Skype cross-platform compatibility and typically smooth video are key elements that help users return to Skype for their video chat needs. iChat (Mac OS X)iChat is the default instant messaging app bundled with Mac OS X. iChat boasts a multiplayer video chat (up to 4 people at a time), an iChat theater for sharing and viewing files during a video chat, and a background feature that allows users to customize what's behind them (like you're in Paris). Downer: iChat is only available on OS X. Vsee (Windows only)Vsee is a free windows video conferencing app. In addition to VSee video chat options, it is also designed as a collaboration tool. So, as their demo video explains, you can collaborate with a colleague on a Photoshop document (even if that person doesn't have Photoshop installed) through screen sharing, and you can share that file (or any document for that matter) by dragging the file into a video chat. VSee Free supports video chats with up to four people at a time, while the paid version supports up to eight at a time. Now that you have seen best how your peers have chosen, it is time to vote for your favorite. This week's honorable mentions go to Meebo and Digsby, both of which support video chat via the aforementioned TokBox. Whether or not your fave has made a short list, tell us more about the video chat app you love in the comments. Comments.