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Department of Computer Science and Engineering

Event Report

Title	Workshop on Emerging Tools and Techniques in Software Testing.
Department	Department of Computer Science and Engineering
Date	**From:** 12/12/2023 **To:** 12/12/2023
Time	**From:** 10 AM **To:** 1.00 PM
Brief Description	The Department of Computer Science and Engineering organized workshop on " Emerging Tools and Techniques in Software Testing "on 12/12/2023. Software testing plays a crucial role in ensuring the quality and reliability of software applications. Selenium has emerged as a cornerstone in the field of automated testing, empowering software development teams to achieve higher efficiency, reliability, and faster release cycles. This workshop was into the various aspects of Selenium, exploring its features, benefits, and its role in the ever-evolving landscape of software testing. Selenium is an open-source testing framework for web applications that supports multiple programming languages, including Java, Python, C#, and more. It provides a suite of tools to automate browser actions, enabling testers to simulate user interactions with web applications. Selenium stands as a powerful and versatile tool for automated testing, addressing the demands of modern software development. Its open-source nature, extensive community support, and adaptability make it an indispensable asset for teams aiming to achieve efficient, reliable, and scalable test automation in today's dynamic software landscape. As technology advances, Selenium remains at the forefront, driving innovation in the realm of automated testing. .The resource person of the workshop was Ms.Rekha R, Sr. Qulaity Engineer L2, Publicis Sapient(Goldman sachs Client).The entire workshop will focus on important aspects of Software Testing and how Selenium works in real time. Around 30 participants took part and benefitted from the workshop. The workshop commenced with the creation of a new Java project named "Login_Test" using Eclipse. Participants were guided through the process of setting up a new Java class, named "Login_test," and importing the necessary

Selenium WebDriver and ChromeDriver JAR files. The attendees were directed to download the latest ChromeDriver and Selenium WebDriver for Java, followed by configuring the build path in Eclipse.

During the practical session, participants were provided with a Selenium program written in Java to automate the login process on the SpiceJet website. The code demonstrated essential functionalities, such as setting the ChromeDriver path, opening the login webpage, maximizing the browser window, and entering login credentials before clicking the login button.

By the end of the workshop, participants gained hands-on experience in using Selenium for web application testing, specifically focusing on the login functionality of the SpiceJet website. The workshop fostered a better understanding of Eclipse, JDK concepts, and Selenium WebDriver, enhancing the participants' skills in automated testing and providing a valuable resource for their future endeavors in software testing