CSE565 Codeless Testing Tools

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1. **What is meant by codeless test automation?**

Codeless test automation is a testing approach that allows users to create and execute test cases without writing any code. These tools usually come with intuitive interfaces and built-in test script generation capabilities to lowers the technical barrier, making it easier for teams to adopt automated testing practices. They are ideal for regression testing and other repetitive test scenarios.

1. **An example: Katalon Studio**

Katalon Studio aims to be an all-in-one solution for the entire testing lifecycle.

1. Testing covers multiple platforms, including web browsers, mobile, and APIs.
2. Powerful recording and playback feature.
3. Groovy can be used to write scripts for advanced testing needs.
4. Works well with popular CI/CD and test management tools.
5. Integrates AI features.
6. **Regression Testing using Katalon Studio**
   1. Start Katalon Studio and create a new testing project.
   2. Record an app usage session like a normal user using Web Record feature in Katalon Studio.
   3. Inspect the recorded actions and save the script.
   4. Combine multiple test script into a test suite so that you can execute them after the next code modification.
   5. It can also integrate with CI/CD tools to automatically trigger tests after each code update.
7. **JUnit vs Katalon Studio**

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| --- | --- | --- |
| Feature | JUnit | Katalon Studio |
| Use Case | Unit testing | Functional testing and E2E testing |
| Requirement | Requires Java knowledge | Suitable for non-technical users |
| Test Setup | Writing code | Recording and keyword-driven |
| Automation | Manual scripting required | Pre-built automation features |
| Test Reporting | Simple text-based reports | Detailed and graphical test reports |

1. **References**

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