

CS 5154: Software Testing

Test Automation Demo

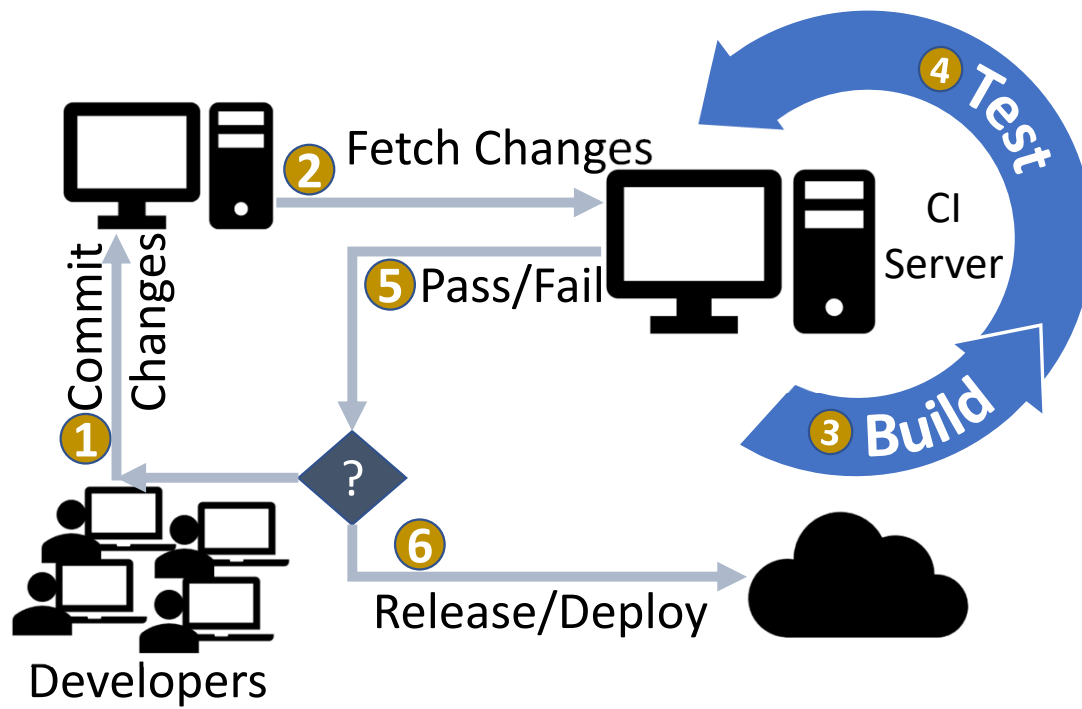
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Fall 2021

CS5154 is organized into six themes



1. How to automate the execution of tests?
2. How to design and write high-quality tests?
3. How to measure the quality of tests?
4. How to automate the generation of tests?
5. How to reduce the costs of running existing tests?
6. How to deal with bugs that tests reveal?




Continuous Integration








What is your experience with CI?




Demo: CI in action




 **toy-app** 
Project ID: 582


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toy app for test automation demo

master  toy-app /  

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 **test change**
Owolabi Legunsen authored 1 minute ago

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 Green build 😊

Let's break down our CI run

- cs5154work
- Git
- Junit
- Maven
- GitLab

Using cs5154work

```
ssh ${id}@cs5154work.coecis.cornell.edu
```

- Replace `${id}` with your Cornell Netid

Pro Tip:

```
ssh-copy-id ${id}@cs5154work.coecis.cornell.edu
```

Following along

```
wget https://www.cs.cornell.edu/courses/cs5154/2021fa/resources/test-automation.zip
```

```
unzip test-automation.zip
```

```
cd test-automation
```

```
# see README.txt
```

→   cs.cornell.edu/courses/cs5154/2021fa/  

Date	Topic	Notes	Assignments/Resources
8/26	Introduction	slides	
8/31	Foundations	slides	Reading 1 assigned
9/2	Foundations (contd), Test Automation Demo	slides , code	JUnit 4 , JUnit 4 Assert