Lecture #01

Campus	Lecture Date	Lecture Recording Availability Date
Boston	05/11/2019	N/A
Online	N/A	05/12/2019

Agenda

- Course Overview
- Introduction to DevOps
- Site Reliability Engineering
- Unit, Integration, Functional & Load Testing
- Assignment #00 [../../assignments/00/] discussion

Slides

- Unit, Integration, Functional & Load Testing [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Ec-Ih0yj8hNIoJ_JWp4YRbsBAm5B_1DT-o4FXVeqhRv5iQ?e=vQ2Zqo]
- Introduction to DevOps [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Eefhu7X1fr1JsWhygzD4o3YB-gy3xpyYIg6u5yePv1O8Ww?e=XDEQ9t]

- Site Reliability Engineering [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/ETJH4Y8xjttJsFzhJCmROXABQF23HkbImrAruhWfU4HwnA?e=Ksxbgv]

Reading

- Syllabus [https://summer2019.csye6225.cloud/]

Site Reliability Engineering

- BA038 777 Crash ATC Recording [https://www.youtube.com/watch?v=lJNVVlBPi8M&feature=youtu.be&t=17]
- Site Reliability Engineering: How Google Runs Production Systems (ISBN: 9781491929124) [http://shop.oreilly.com/product/0636920041528.do]. This book is also available online for free on Google's site [https://landing.google.com/sre/book.html].

Software Testing

- REST Assured [http://rest-assured.io]
- Mockito [http://site.mockito.org]
- TestNG [http://testng.org/doc/index.html]
- JUnit [http://junit.org/]
- Application Testing Survey Reveals Legacy Testing Processes No Longer Cut It [https://clusterhq.com/2016/11/03/devops-testing-survey/]
- Web Service Testing using Rest Assured [https://www.youtube.com/playlist?list=PLlsKgYi2Lw70mmEXIbNhx9B9Or-tvYhG2]

Load Testing

- Apache JMeter [http://jmeter.apache.org]

- The Rise of Test Impact Analysis [https://martinfowler.com/articles/rise-test-impact-analysis.html]
- How To Use Apache JMeter To Perform Load Testing on a Web Server [https://www.digitalocean.com/community/tutorials/how-to-use-apache-jmeter-to-perform-load-testing-on-a-web-server]

JMeter Tutorials

- How To Use Apache JMeter To Perform Load Testing on a Web Server [https://www.digitalocean.com/community/tutorials/how-to-use-apache-jmeter-to-perform-load-testing-on-a-web-server]

Continous Integration & Delivery

- TravisCI [https://docs.travis-ci.com/]
- CircleCI [https://circleci.com/docs/]
- Jenkins [https://jenkins.io/]

Tools & Libraries

- Mockito [http://site.mockito.org]
- TestNG [http://testng.org/doc/index.html]
- JUnit [http://junit.org/]
- Apache JMeter [http://jmeter.apache.org]
- REST Assured [http://rest-assured.io]
- JMeter plugin for IntelliJ [https://plugins.jetbrains.com/plugin/7013-jmeter-plugin]