Schedule and outline

Texts

- DevOps for Web Development (Abbreviated as DWD below)
- The phoenix project

Week 1

Topics:
- Continuous Deployment & Integration
- Git

Readings:
- What is Dev Ops
- Youtube video
- DWD-ch 1
- Continuous Integration
- Git intro
- DWD-ch 2
- [The phoenix project] Chapters 1 - 2

Slides:
- Intro
- More Intro
- Git basics
- Git hello world
- Basic git
- Branching and merging

Assignments:
- Project 1

Week 2

Topics:
- Cloud overview
- Our sample petClinic project

Readings:
- The phoenix project up through chapter 6
- DWD-ch 2
- DWD-ch 3

Slides:
- Chapter 2

Notes:
- Aws notes

Assignments:
- Assignment
- Assignment
- Assignment

Week 3

Topics:
- Jenkins
- The phoenix project up through chapter 10
**Week 4**

- Topics:
  - Jenkins - Deployment to Tomcat
- Assignment
- Readings:
  - reading phoenix up through chapter 14
  - wip

**Week 5**

Exam 1

- Topics:
  - Vagrant
- Readings:
  - phoenix up through chapter 18
- Slides:
  - Slides

**Week 6**

- Topics:
  - Vagrant
  - AWS vagrant
- Slides:
  - Slides
  - AWS Vagrant
- Vagrant local
- Vagrant AWS
- Readings:
  - phoenix up through chapter 22

**Week 7**

- Topics:
  - Automated Configuration (Configuration Management)
    - Ansible
    - Ansible Playbooks
    - Vagrant + Ansible
- Readings:
  - How ansible works
  - Benefits of CM
  - Ansible Getting Started (Also covered in my slides)
  - Ansible Playbooks Intro
  - More about playbooks
  - phoenix up through chapter 26
- Slides:
  - Ansible 1
  - Ansible 2
- Assignments:
  - Ansible - Tomcat
Week 8

- Topics:
  - Continue with automation
- Readings:
  - See above
- Assignments:
  - Ansible & Vagrant on AWS

Week 9

Fall Break

- Review: Kahoot
- Exam 2 (Written in testing center, Hands-on in class)
- Topics:
- Readings:
  - phoenix up through chapter 30

Week 10

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 34
- AWS Assignment

Week 11

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through end of book
- AWS Assignment

Week 12

- AWS Exam (Exam 3)
- Topics:
  - Docker
- Readings:
- Slides:
  - intro
  - files app.py requirements.txt
- Assignment

Week 13

- Topics:
  - Continuous Monitoring
  - Nagios
- Readings:
  - Continuous Monitoring
Week 14

- Microservices
- Readings:
  - Monolithic pattern
  - Microservice pattern
  - Breaking away from the monolith
  - The 12 factor app
- Slides
- Assignment

Thanksgiving

Week 15

Monday - Presentations

Wednesday - Presentations

Week 16

Monday - Presentations

Wednesday - Presentations/Review

Final - See date on syllabus