Deployment

EECS 2311 - Software Development Project

Wednesday, February 13, 2019

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Software deployment

- The system may be running fine under Eclipse, but the customer needs a standalone system

- The code must be delivered to the customer and assembled and configured at their site

- Any dependencies to other libraries must be transparent to the customer

- Deployment also includes maintenance, updating, and uninstalling

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Gradle and Circle CI

- Modern operating systems automate the process of building and creating releases for deployment

- Tools such as Ant, Maven, or Gradle can be used to build a release

- Tools such as Jenkins, Travis CI, or Circle CI can be used to ensure continuous integration of all system resources

- After the midterm submission, we will use Gradle and Circle CI to manage this aspect of our project.

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Gradle and Circle CI

- You can start looking into these tools now, by watching this video prepared by Daniel (the course TA):

- https://youtu.be/r5DIuWPUwE0

- To jump to different parts of the video:

- Gradle Instructions

  - https://www.youtube.com/watch?v=r5DIuWPUwE0&t=12m30s

- Circle CI Instructions

  - https://www.youtube.com/watch?v=r5DIuWPUwE0&t=40m40s

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For the midterm submission

- Choose File -> Export… -> Runnable JAR File

- Click Next, and select a Run configuration that launches successfully

- Leave the option to extract libraries checked

- **Test** that the generated jar file can be launched in all platforms

- Do this for both apps

- You can use Gradle to achieve the same result if you wish

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Submission instructions

- Everything that you want to submit must be on your github repository

- The actual submission will be done on Moodle as online text which will be just the URL of your github repository

- You can do the submission now if you want!
  - We will not download anything before the deadline

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Submission instructions

- By the deadline, your repository must contain a release called vM

- Add the two runnable .jar files to the vM release

- All contents of your repository will be added automatically, so that should include your code and the documents to be marked

  - Ensure there is a meaningful README file in your repository as well

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In your release

- Once we download your release, we should be able to find:

1. A README file briefly describing the release

2. All the source code

3. The runnable jar(s) in the vM release

4. All the documents required by the rubric

- **Make sure that this is the case before the deadline!**

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Lab Task (after Reading Week)

- Give a 5-minute demo of your submission to the TAs

- Your goal is to impress your customer and convince them to accept your system

- Show typical scenarios of running the system

- Demonstrate all features of your program including error handling

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Pro tip

- Practice your presentation multiple times so you know that:
  - It flows well
  - It is not too short
  - It is not too long

- Practice your presentation in front of your teammates
  - Use their feedback to improve your presentation

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