Project Set-up

Prof. Dr. Dirk Riehle

Friedrich-Alexander University Erlangen-Nürnberg

ADAP A03

Project Set-up Steps

1. Decide on topic for course project
2. Choose and install operating system
3. Choose and setup development environment
4. Register on GitHub and fork Wahlzeit
5. Get Wahlzeit running on your machine
6. Set-up debugging
7. Run unit tests

1. Course Project Decision

- Decide on your project idea for Wahlzeit
  - Give it a name, for example, “flowers”

2. Development Environment Set-up

- Install and set-up Java IDE of your choice, e.g.
  - IntelliJ IDEA: https://www.jetbrains.com/idea
  - Eclipse: https://www.eclipse.org/ide
  - Netbeans: https://netbeans.org
- Install Java JDK 8 (or higher)
- Install Git (command-line)
  - If you need a GUI: https://git-scm.com/downloads/guis

3. GitHub Set-up

- Register on github.com
  - Go to https://github.com/dirkriehle/wahlzeit and fork the repository

- Set-up continuous Integration with Travis CI
  - Sign in with your GitHub account on https://travis-ci.org/
    - Add your forked repository to the list of repositories Travis CI should check
    - Ensure Travis CI is able to build your project

4. Wahlzeit Set-up

- Clone your repository to create a local repository
  - Ensure master branch is selected
- Import the local repository into your IDE
- Build and run Wahlzeit, try it at http://localhost:8080/wahlzeit
  - On the command line, call “./gradlew appengineRun”
  - A first build will take a while and may have intermediate steps

5. Debugging Set-up

- Create remote Java debugging configuration
  - Connection string is “localhost:8000”

6. Unit Test Try-out

- Use Gradle tasks to run unit tests
  - “./gradlew test” runs all unit tests and provide a summary
  - “./gradlew appengineRun” will also run test before starting the application

```
org.wahlzeit.services.mailing.EmailServiceTest > testSendValidEmail PASSED

org.wahlzeit.handlers.TellFriendTest > testTellFriendMakeWebPart PASSED

org.wahlzeit.handlers.TellFriendTest > testTellFriendPost PASSED
Tests run: 83, Failures: 0, Skipped: 0
```

Thanks! Questions?

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- Original version
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- Contributions
  - Andreas Bauer (2018)

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It is Friedrich-Alexander University Erlangen-Nürnberg – FAU, in short.

Corporate identity wants us to say “Friedrich-Alexander University”.

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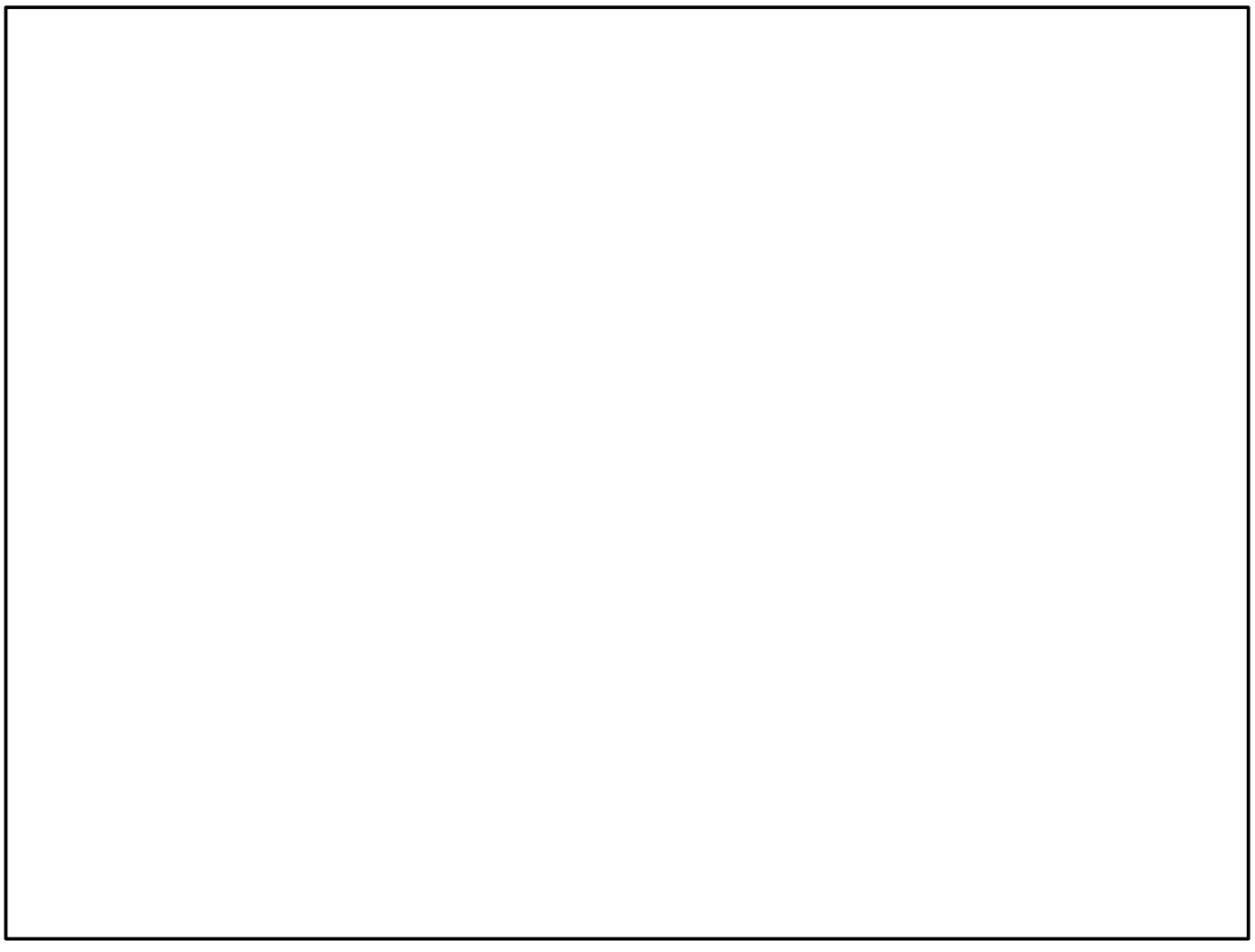

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