Project Set-up

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ADAP A03

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Project Set-up Steps

- 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)
 - As of 2019-10-09, only up to Java 11; **Java 12 does not work**
- 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
```

Thank you! Questions?

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- Contributions
 - Andreas Bauer (2018)