

Project Set-up

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ADAP A03

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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, up to 11)
 - As of 2019-10-09, only up to Java 11; **Java 12 does not work**
 - If you need to manage multiple JDK versions: <https://sdkman.io/>
- 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)