MyCookieBook

Week 15 – Testing

👤 **mycookiebook**   🕐 **2. May 2021**   📁 **Allgemein**   ✏ **Edit**

Hello cookies,

this week we continued to focus on testing. Already in week 5 we presented our concept of the **Feature Files**. The results with corresponding pictures are shown in our **Midterm Post**.

Tests are always important basics to ensure a working result. The bigger the project becomes, the more relevant it becomes to automatically integrate the test into the workflow. That's why we decided to link the test to the GitHub pipeline and go through it every time we merge.

The tests themselves are to be run at different levels. So there is the feature test for the functionality of the process, which is based on our activity diagrams. We also work with unit tests, which check the functions of the classes and methods. Furthermore, a major stress test is planned with users, who are to test the design and comprehensibility as independent persons.

In the backend and frontend we have integrated unit tests using Mokito and started with the automatic execution using pipeline. You can see corresponding pictures in the following.

```
class UserControllerTest {
    private final UserRepository userRepository = mock(UserRepository.class);
    private final UserController userController = new UserController(userRepository);

    @Test
    void registerUser_200() {
//      Given
        User user = new User( email: "test", password: "test");
//      when
        when(userController.registerUser(user)).thenReturn(user.getId());
//      then
        long id = userController.registerUser(user);
        assertEquals( expected: 0, id);
    }
```
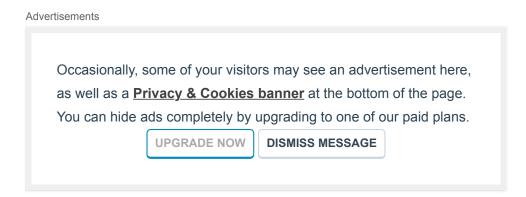
Backend Testing

Frontend Testing

We also started with a coverage of the program code by testing. By the end of the project, at least 50% of our code should be covered. All further information can be found in our test plan.

Have you already studied the subject of testing in more detail and can you share your experiences with us? Please leave us a comment!

See you next time and stay healthy

Your CookieBook-Team

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6 thoughts on "Week 15 – Testing"

lefaro00
3. May 2021 at 15:56

Hi CookieBook Team,
Interesting Blog porst this week. Especially that you integrated the Test to your GitHub Pipeline. We hope you'll be successful with your testing layout, at least it sounds very thought through at the moment.

Have a nice day

Ceangal Team

⭐ Like

Reply

mycookiebook
4. May 2021 at 08:31

Thank you!

⭐ Like

Reply

dergrosseverwirrer
3. May 2021 at 17:53

Greetings MyCookieBook-Team,

thanks for sharing another blogpost with us.

It reads very coherently, and we can follow your arguments well. We heartily agree with you about the

importance of continuous and automated testing, as we have been using GitHub Actions for automated testing of our code ourselves for a long time already.

To increase your test security and minimize errors, we can recommend the use of tools such as SonarQube, which we have additionally included in our tests.

In addition, Husky (**https://github.com/typicode/husky**) could be a valuable addition to your push flow to ensure that erroneous code is not inadvertently pushed.

Your test plan looks realistic, the 50% should be achievable within the 7 weeks.
The sole question we have is why you want to use Espresso to test your user interface, since as far as we know it is a test framework for Android. We would be grateful if you could enlighten us here. Alternatively, we could recommend the tool "Cypress", which we use ourselves to monitor our interface.

Kind regards,
FileFighter

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Reply

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mycookiebook
4. May 2021 at 10:39

Hey FileFighter-Team,

thank you for your feedback and for your suggestion to use SonarQube! We won't use Espresso to test our user interface – unfortunately we made a mistake when writing the test plan. We will fix the error.

Kind regards,
MyCookieBook Team

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Reply

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simplesurveyproject
3. May 2021 at 18:27

Hey CookieBook,

You're really right, tests are really essential in software projects.
It's great that you have built your tests directly into the GitHub pipeline. So you can never forget to test 😉

A stress test will definitely be super interesting, too. Then we will see what your software can withstand and where there is still something to be improved.

A test coverage of at least 50% is really nice, I'm glad you made it! Our team is still working on that.

Really great blog entry. I have nothing to criticise.

Best regards
Team SimpleSurvey (S)

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Reply

mycookiebook
4. May 2021 at 08:32

Thank you for your feedback!

⭐ Like

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