

Laporan Praktikum Pengujian dan Kualitas Perangkat Lunak Week 12a BDD - Automation Testing Using Cucumber		
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Pengujian Aplikasi Github

1. Fungsi Login

a. Scenario

```

LoginFeature.feature x
1 Feature: Test for Github (github.com)
2
3 Scenario: Test Login with Valid Credentials
4   Given open chrome and start application
5   When I enter valid username and valid password
6   Then I can login successfully
7

```

b. Step Definition

```

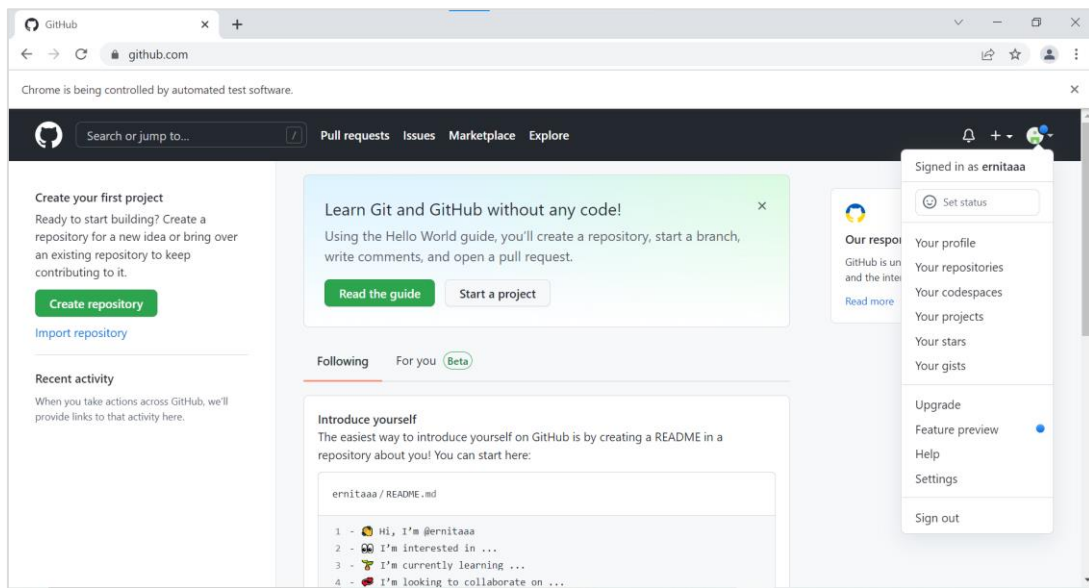
LoginStepDef.java x
1 package LoginStepDef;
2
3 import org.openqa.selenium.By;
4
5
6
7
8
9
10
11 public class LoginStepDef {
12     WebDriver driver;
13
14     @Given("^open chrome and start application$")
15     public void open_chrome_and_start_application() throws Throwable {
16         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
17
18         driver = new ChromeDriver();
19         driver.manage().window().maximize();
20         driver.get("https://github.com/login");
21     }
22
23     @When("^I enter valid username and valid password$")
24     public void I_enter_valid_username_and_valid_password() throws Throwable {
25         driver.findElement(By.xpath("//input[@id='login_field']")).sendKeys("ernitaaa");
26         driver.findElement(By.xpath("//input[@id='password']")).sendKeys("ernitalumbangaol");
27     }
28
29     @Then("^I can login successfully$")
30     public void I_can_login_successfully() throws Throwable {
31         driver.findElement(By.xpath("//input[@id='login']/div[4]/form/div/input[12]")).click();
32     }
33 }
34
35
36
37

```

c. Test Runner

```
<terminated> LoginRunner [JUnit] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (Apr 22, 2022, 8:02:03 AM - 8:02:14 AM)
[32m][1m]?????????????????????????????????????????????????????????????????????????????????????Om
[32m][1m]Om Share your Cucumber Report with your team at @36m@1m[4mhttps://reports.cucumber.io@0m @32m)[1m]?@0m
[32m][1m]Om Activate publishing with one of the following:
[32m][1m]?@0m @32m)[1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/cucumber.properties: @36mcucumber.publish.enabled@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/junit-platform.properties: @36mcucumber.publish.enabled@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m Environment variable: @36mCUCUMBER_PUBLISH_ENABLED@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m JUnit: @36m@cucumberOptions@0m(publish = @36mtrue@0m) @32m)[1m]?@0m
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m More information at @36mhttps://cucumber.io/docs/cucumber/environment-variables/@0m @32m)[1m]?@0m
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m Disable this message with one of the following:
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/cucumber.properties: @36mcucumber.publish.quiet@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/junit-platform.properties: @36mcucumber.publish.quiet@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?????????????????????????????????????????????????????????????????????????????????????Om
[32m][1m]?????????????????????????????????????????????????????????????????????????????????????Om
[32m][1m]Om Share your Cucumber Report with your team at @36m@1m[4mhttps://reports.cucumber.io@0m @32m)[1m]?@0m
[32m][1m]Om Activate publishing with one of the following:
[32m][1m]?@0m @32m)[1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/cucumber.properties: @36mcucumber.publish.enabled@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/junit-platform.properties: @36mcucumber.publish.enabled@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m Environment variable: @36mCUCUMBER_PUBLISH_ENABLED@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m JUnit: @36m@cucumberOptions@0m(publish = @36mtrue@0m) @32m)[1m]?@0m
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m More information at @36mhttps://cucumber.io/docs/cucumber/environment-variables/@0m @32m)[1m]?@0m
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m Disable this message with one of the following:
[32m][1m]?@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/cucumber.properties: @36mcucumber.publish.quiet@0m@36mtrue@0m @32m)[1m]?@0m
[32m][1m]?@0m src/test/resources/junit-platform.properties: @36mcucumber.publish.quiet@0m@36mtrue@0m @32m)[1m]?@0m
```

e. Snippet Browser saat Testing



2. Fungsi Search

a. Scenario

```
SearchFeature.feature x
1=Feature: Test for Github (github.com)
2
3 Scenario: Test Login with Valid Credentials
4   Given open chrome and start application
5   When I enter valid username and valid password
6   Then I can login successfully
7   Then I click search bar
8   Then I type the keyword
9   And I click button
```

b. Step Definition

```
*SearchProyekDef.java x
1 package SearchProyekDef;
2
3 import org.openqa.selenium.By;
4
11 public class SearchProyekDef {
12     WebDriver driver;
13
14
15     @Given("^open chrome and start application$")
16     public void open_chrome_and_start_application() throws Throwable {
17         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
18
19         driver = new ChromeDriver();
20         driver.manage().window().maximize();
21         driver.get("https://github.com/login");
22     }
23
24     @When("^I enter valid username and valid password$")
25     public void I_enter_valid_username_and_valid_password() throws Throwable {
26         driver.findElement(By.xpath("//*[@id='login_field']")).sendKeys("ernitaaa");
27         driver.findElement(By.xpath("//*[@id='password']")).sendKeys("ernitalumbangaol");
28     }
29
30     @Then("^I can login successfully$")
31     public void I_can_login_successfully() throws Throwable {
32         driver.findElement(By.xpath("//*[@id='login']/div[4]/form/div/input[12]")).click();
33     }
34 }
35
36
37 @Then("^I click search bar$")
38 public void I_click_search_bar() throws Throwable {
39     driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).click();
40 }
41
42 @Then("^I type the keyword$")
43 public void I_type_the_keyword() throws Throwable {
44     driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys("Java");
45 }
46
47 @Then("^I click button$")
48 public void I_click_button() throws Throwable {
49     driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys(Keys.RETURN);
50 }
51 }
52 }
```

c. Test Runner

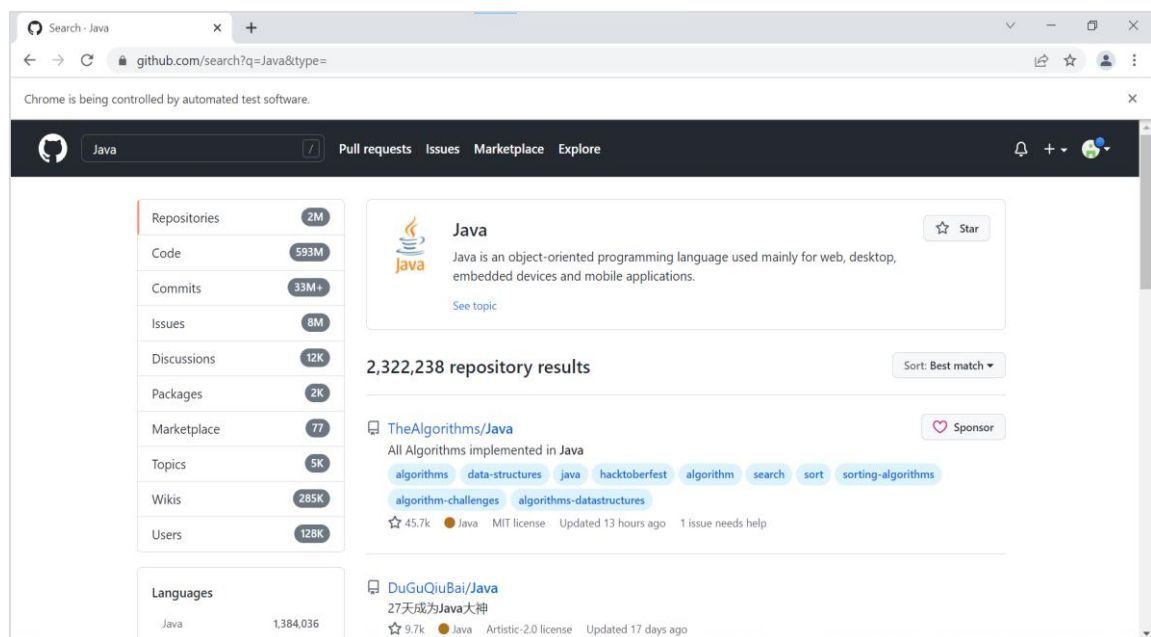
```
SearchRunner.java x
1 package runner;
2 import org.junit.runner.RunWith;
3
4 import io.cucumber.junit.Cucumber;
5 import io.cucumber.junit.CucumberOptions;
6
7 @RunWith(Cucumber.class)
8 @CucumberOptions(features="SearchFeature", glue="SearchProyekDef")
9
10 public class SearchRunner {
11
12 }
13 }
```

d. Console setelah Running

The screenshot shows the console output of a Cucumber test run. The output includes messages about sharing the Cucumber Report, activating publishing, and displaying test results. The Package Explorer shows the test run completed successfully after 11.372 seconds, with 1/1 runs, 0 errors, and 0 failures. The test results are as follows:

Test Name	Duration
runner.TestRunner_02_2 [Runner: JUnit 4]	10.778 s
github.com	10.778 s
Test Search with Valid Credentials (Test for Github)	10.778 s

e. Snippet Browser saat Testing



3. Fungsi Sign-out

a. Scenario

```

> Feature: Test for Github (github.com)

> Scenario: Test Login with Valid Credentials
    Given open chrome and start application
    When I enter valid username and valid password
    Then I can login successfully
    Then I click profile
    Then I click sign out
  
```

b. Step Definition

```

package stepDefinition_02_3;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

import io.cucumber.java.en.Given;
import io.cucumber.java.en.When;
import io.cucumber.java.en.Then;

public class Test_02_Feature3 {
    WebDriver driver;
    JavascriptExecutor js;

    @Given("open chrome and start application")
    public void open_chrome_and_start_application() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        driver.manage().window().maximize();
        driver.get("https://github.com/login");
    }

    @When("I enter valid username and valid password")
    public void i_enter_valid_username_and_valid_password() {
        driver.findElement(By.id("login_field")).sendKeys("feronikasimanjuntak");
        driver.findElement(By.id("password")).sendKeys("4kucantik4nget");
    }

    @Then("I can login successfully")
    public void i_can_login_successfully() {
        driver.findElement(By.name("commit")).click();
    }

    @Then("I click profile")
    public void i_click_profile() throws InterruptedException {
        driver.findElement(By.xpath("//html/body/div[1]/header/div[7]/details")).click();
        Thread.sleep(1000);
    }

    @Then("I click sign out")
    public void i_click_sign_out() {
        js.executeScript("document.querySelector('body > div.position-relative.js-header-wrapper > header > div.Header-item.position-relative.mr-0.d-none.d-md-flex > details > details-menu > form > button').click()");
    }
}
  
```

c. Test Runner

```

package runner;

import org.junit.runner.RunWith;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;

@RunWith(Cucumber.class)
@CucumberOptions(features="Features_02_3", glue="stepDefinition_02_3")

public class TestRunner_02_3 {

}
  
```

d. Console setelah Running

```

Console x JUnit
<terminated> TestRunner_02_3 [JUnit] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (Apr 22, 2022, 2:06:18 AM - 2:06:30 AM)
[32m[1m?0m src/test/resources/cucumber.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?0m
[32m[1m?0m src/test/resources/junit-platform.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?0m
[32m[1m?0m Environment variable: [36mCUCUMBER_PUBLISH_ENABLED[0m=[36mtrue[0m [32m[1m?0m
[32m[1m?0m JUnit: [36m@CucumberOptions[0m(publish = [36mtrue[0m) [32m[1m?0m
[32m[1m?0m More information at [36mhttps://cucumber.io/docs/cucumber/environment-variables/[0m [32m[1m?0m
[32m[1m?0m Disable this message with one of the following: [32m[1m?0m
[32m[1m?0m src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?0m
[32m[1m?0m src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?0m
[32m[1m?0m

```

Console

JUnit

Finished after 10.232 seconds

Runs: 1/1

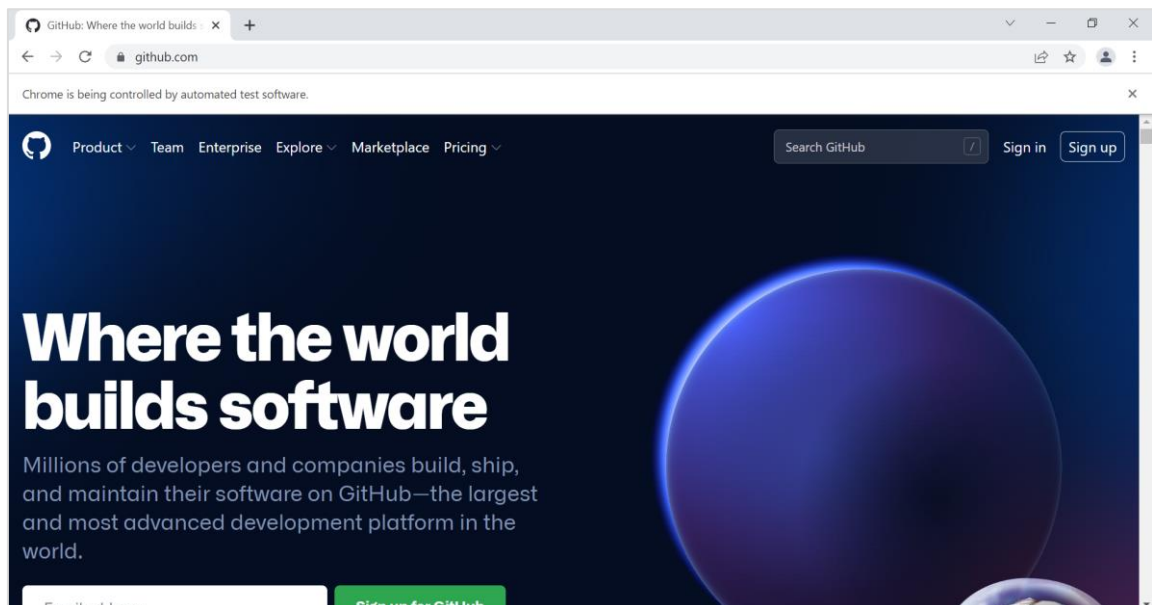
Errors: 0

runner.TestRunner_02_3 [Runner: JUnit 4] (9.737 s)

github.com (9.737 s)

Test Login with Valid Credentials(Test for Github (9.737 s)

e. Snippet Browser saat Testing



4. Fungsi Set Status

a. Scenario

```

Feature: Test for Github (github.com)

  Scenario: Test Set Status with Valid Credentials
    Given open chrome and start application
    When I enter valid email or number phone and valid password
    Then I can login successfully
    Then I click dropdown menu
    Then I choose set status
    Then I click text box
    Then I click checkbox
    Then I click button set status
  
```

b. Step Definition

```

package stepDefinition_02_4;

import org.openqa.selenium.By;

public class Test_02_Features4 {
    WebDriver driver;
    JavascriptExecutor js;

    @Given("open chrome and start application")
    public void open_chrome_and_start_application() {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");

        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        driver.manage().window().maximize();
        driver.get("https://github.com/login");
    }

    @When("I enter valid email or number phone and valid password")
    public void i_enter_valid_email_or_number_phone_and_valid_password() {
        driver.findElement(By.id("login_field")).sendKeys("feronikasimanjuntak");
        driver.findElement(By.id("password")).sendKeys("4kuc4nt1kb4nget");
    }

    @Then("I can login successfully")
    public void i_can_login_successfully() {
        driver.findElement(By.name("commit")).click();
    }

    @Then("I click dropdown menu")
    public void i_click_dropdown_menu() throws InterruptedException {
        driver.findElement(By.xpath("//html/body/div[1]/header/div[7]/details")).click();
        Thread.sleep(1000);
    }

    @Then("I choose set status")
    public void i_choose_set_status() {
        js.executeScript("document.querySelector(\"body > div.position-relative.js-header-wrapper > header > div.Header-item.position-relative.mr-0.d-none.d-md-flex > details > details-menu > div\").click()");
    }

    @Then("I click text box")
    public void i_click_text_box() {
        driver.findElement(By.xpath("//html/body/div[1]/header/div[7]/details/details-menu/div[3]/div/details/details-dialog/form/div[2]/div[1]/div[1]/text-expander/input")).sendKeys("Focusing");
    }

    @Then("I click checkbox")
    public void i_click_checkbox() {
        driver.findElement(By.xpath("//div[@id='limited-availability-truncate-true-compact-true']")).click();
    }

    @Then("I click button set status")
    public void i_click_button_set_status() {
        driver.findElement(By.xpath("//html/body/div[1]/header/div[7]/details/details-menu/div[3]/div/details/details-dialog/form/div[3]/button[1]")).click();
    }
}
  
```

c. Test Runner

```

package runner;

import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(features="Features_02_4", glue="stepDefinition_02_4")

public class TestRunner_02_4 {

}
  
```

d. Console setelah Running


```

Console x JUnit
<terminated> TestRunner_02_4 [JUnit] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (Apr 22, 2022, 2:49:30 AM – 2:49:38 AM)
[32m[1m?][0m src/test/resources/cucumber.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m Environment variable: [36mCUCUMBER_PUBLISH_ENABLED[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m JUnit: [36m@CucumberOptions[0m(publish = [36mtrue[0m) [32m[1m?][0m
[32m[1m?][0m More information at [36mhttps://cucumber.io/docs/cucumber/environment-variables/[0m [32m[1m?][0m
[32m[1m?][0m Disable this message with one of the following: [32m[1m?][0m
[32m[1m?][0m src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m [32m[1m?][0m


```

Runs: 1/1 **Errors: 0** **Failures: 0**

- runner.TestRunner_02_4 [Runner: JUnit 4] (6.336 s)
 - github.com (6.336 s)
 - Test Set Status with Valid Credentials(Test for Github (6.336 s)

e. *Snippet* Browser saat Testing

Signed in as
feronikasimanjuntak

 Focusing

Your profile
Your repositories
Your codespaces

5. Fungsi Clear Status

a. Scenario

► **Feature:** Test for Github (github.com)

► **Scenario:** Test Set Status with Valid Credentials

Given open chrome and start application

When I enter valid email or number phone and valid password

Then I can login successfully

Then I click dropdown menu

Then I choose set status

Then I click button clear status

b. Step Definition

```
package stepDefinition_02_5;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;

public class Test_02_Features5 {
    WebDriver driver;
    JavascriptExecutor js;

    @Given("open chrome and start application")
    public void open_chrome_and_start_application() {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");

        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        driver.manage().window().maximize();
        driver.get("https://github.com/login");
    }

    @When("I enter valid email or number phone and valid password")
    public void i_enter_valid_email_or_number_phone_and_valid_password() {
        driver.findElement(By.id("login_field")).sendKeys("feronkasi@untak");
        driver.findElement(By.id("password")).sendKeys("4kuc4nt1kb4nget");
    }

    @Then("I can login successfully")
    public void i_can_login_successfully() {
        driver.findElement(By.name("commit")).click();
    }

    @Then("I click dropdown menu")
    public void i_click_dropdown_menu() throws InterruptedException {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[7]/details")).click();
        Thread.sleep(1000);
    }

    @Then("I choose set status")
    public void i_choose_set_status() {
        js.executeScript("document.querySelector('body > div.position-relative.js-header-wrapper > header > div.Header-item.position-relative.mr-0.d-none.d-md-flex > details > details-menu > div.pl-3.pr-3.f6')");
    }

    @Then("I click button clear status")
    public void i_click_button_clear_status() {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[7]/details/details-menu/div[3]/div/details/details-dialog/form/div[3]/button[2]")).click();
    }
}
```

c. Test Runner

```
package runner;

import org.junit.runner.RunWith;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;

@RunWith(Cucumber.class)
@CucumberOptions(features="Features_02_5", glue="stepDefinition_02_5")

public class TestRunner_02_5 {

}
```

d. Console setelah Running

```

Console × JUnit
<terminated> TestRunner_02_5 [JUnit] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (Apr 22, 2022, 3:02:05 AM – 3:02:13 AM)
[32m][1m?][0m src/test/resources/cucumber.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m src/test/resources/junit-platform.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m Environment variable: [36mCUCUMBER_PUBLISH_ENABLED[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m JUnit: [36m@CucumberOptions[0m(publish = [36mtrue[0m) [32m[1m?][0m
[32m[1m?][0m
[32m[1m?][0m More information at [36mhttps://cucumber.io/docs/cucumber/environment-variables/[0m [32m[1m?][0m
[32m[1m?][0m
[32m[1m?][0m Disable this message with one of the following: [32m[1m?][0m
[32m[1m?][0m
[32m[1m?][0m src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?][0m
[32m[1m?][0m

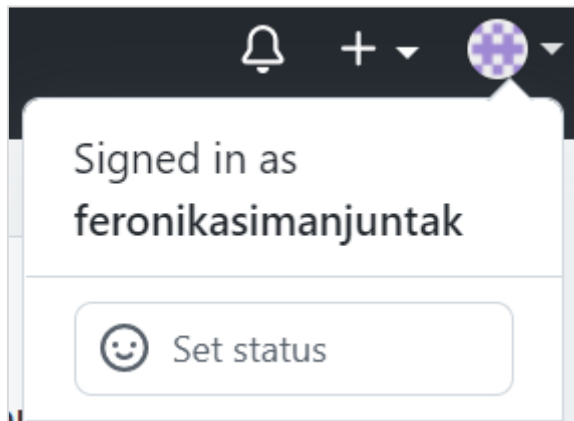
```

Runs: 1/1
Errors: 0
Failures:

runner.TestRunner_02_5 [Runner: JUnit 4] (6.269 s)

- github.com (6.269 s)
 - Test Set Status with Valid Credentials(Test for Github (6.269 s)

e. *Snippet* Browser saat Testing



6. Fungsi Add Email

a. Scenario

```
Feature: Test for Github(github.com)

Scenario: Test Add Email
    Given open chrome and start application
    When I enter valid email or number phone and valid password
    Then I can login successfully
    Then I click dropdown menu
    Then I choose settings
    Then I click emails
    When I enter an email
    Then I click add
```

b. Step Definition

```
1 package addEmail;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.JavascriptExecutor;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import io.cucumber.java.en.Given;
8 import io.cucumber.java.en.Then;
9 import io.cucumber.java.en.When;
10
11 public class addEmail {
12     WebDriver driver;
13     JavascriptExecutor js;
14     @Given("open chrome and start application")
15     public void open_chrome_and_start_application() {
16         System.setProperty("webdriver.chrome.driver", "C:\\Users\\rutlu\\Documents\\SEMESTER IV\\PKPL\\WebDriver\\chromedriver.exe");
17
18         driver = new ChromeDriver();
19         js = (JavascriptExecutor)driver;
20         driver.manage().window().maximize();
21         driver.get("https://github.com/login");
22     }
23
24     @When("I enter valid email or number phone and valid password")
25     public void i_enter_valid_email_or_number_phone_and_valid_password() {
26         driver.findElement(By.id("login_field")).sendKeys("rutlumbantoruan77@gmail.com");
27         driver.findElement(By.id("password")).sendKeys("Invantri11");
28     }
29
30     @Then("I can login successfully")
31     public void i_can_login_successfully() {
32         driver.findElement(By.name("commit")).click();
33     }
34
35     @Then("I click dropdown menu")
36     public void i_click_dropdown_menu() throws InterruptedException {
37         driver.findElement(By.xpath("/html/body/div[1]/header/div[7]/details/summary/span[2]")).click();
38         Thread.sleep(10000);
39     }
```

```
40
41     @Then("I choose settings")
42     public void i_choose_settings() {
43         js.executeScript("document.querySelector('body > div.position-relative.js-header-wrapper > header > div.Header-item.position-relative.mr-0.d-none.d-md-flex > details > details-menu > a:nth-child(15)').click()");
44     }
45
46     @Then("I click emails")
47     public void i_click_emails() {
48         driver.findElement(By.xpath("//*[@id='js-pjax-container']/div/div[2]/div[1]/div/action-list/nav/ul/li[8]/ul/li[2]/a")).click();
49     }
50
51     @When("I enter an email")
52     public void i_enter_an_email() {
53         driver.findElement(By.id("email")).sendKeys("kelompok8222@gmail.com");
54     }
55
56     @Then("I click add")
57     public void i_click_add() {
58         driver.findElement(By.xpath("//*[@id='new_user_email']/div/div/button")).click();
59     }
60
61 }
62
63
64 }
```

c. Test Runner

```

1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import io.cucumber.junit.Cucumber;
6 import io.cucumber.junit.CucumberOptions;
7
8 @RunWith (Cucumber.class)
9 @CucumberOptions(features = "Features", glue = "addEmail")
10
11 public class AddEmailRunner {
12
13 }
14

```

d. Console setelah Running



Finished after 24.903 seconds

Runs: 1/1 Errors: 0 Failures: 0

✓ AddEmailRunner [Runner: JUnit 5] (24.400 s)

 ✓ Test for Github (24.400 s)

 ✓ Test Add Email (24.400 s)

e. Snippet Browser saat Testing



Email settings

github.com/settings/emails

Chrome is being controlled by automated test software.

11320043Rut
Your personal account

Go to your personal profile

Public profile
Account
Appearance
Accessibility
Notifications

Access
Billing and plans
Emails
Password and authentication
SSH and GPG keys
Organizations
Moderation

Code, planning, and automation
Repositories
Packages

Emails

rutlumbantoruan77@gmail.com - Primary	✕
• Not visible in emails	
• Receives notifications	
rutlumbantoruan07@gmail.com	✕
• Unverified Resend verification email	
• Not visible in emails	
kelompok0222@gmail.com	✕
• Unverified Resend verification email	
• Not visible in emails	

Add email address

Email address Add

Primary email address

Activate Windows
Go to Settings to activate Windows.

Type here to search

26°C 22/04/2022

7. Fungsi Add Project

a. Scenario

```

Feature: Test for Github (github.com)

  Scenario: Test Add Project
    Given open chrome and start application
    When I enter valid username and valid password
    Then I can login successfully
    Then I click profile
    Then I click your projects
    Then I click button new project
    Then I fill project name
    And I click create project
  
```

b. Step Definition

```

package stepDefinition_02_7;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;

public class Test_02_Features7 {
    WebDriver driver;
    JavascriptExecutor js;

    @Given("open chrome and start applications")
    public void open_chrome_and_start_application() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        driver.manage().window().maximize();
        driver.get("https://github.com/login");
    }

    @When("I enter valid username and valid password")
    public void i_enter_valid_username_and_valid_password() {
        driver.findElement(By.id("login_field")).sendKeys("feronikasinanjuntak");
        driver.findElement(By.id("password")).sendKeys("4ruc4nt1k4ng3t");
    }

    @Then("I can login successfully")
    public void i_can_login_successfully() {
        driver.findElement(By.name("commit")).click();
    }

    @Then("I click profile")
    public void i_click_profile() throws InterruptedException {
        driver.findElement(By.xpath("//html/body/div[1]/header/div[7]/details")).click();
        Thread.sleep(1000);
    }

    @Then("I click your projects")
    public void i_click_your_projects() {
        js.executeScript("document.querySelector('body > div.position-relative.js-header-wrapper > header > div.Header-item.position-relative.mr-0.d-none.d-md-flex > details > details-menu > a:nth-child(8)').click();");
    }

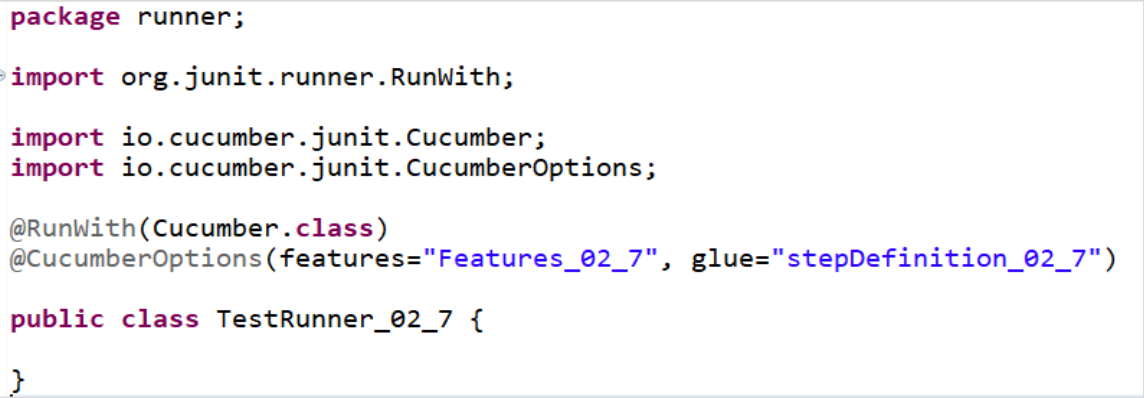
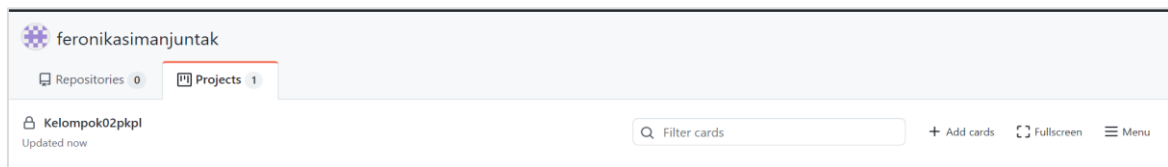
    @Then("I click button new project")
    public void i_click_button_new_project() {
        driver.findElement(By.xpath("//div[@id='projects-results']/div/div[1]/a")).click();
    }

    @Then("I fill project name")
    public void i_fill_project_name() {
        driver.findElement(By.xpath("//div[@id='project_name']")).sendKeys("kelompok2pip1");
    }

    @Then("I click create project")
    public void i_click_create_project() {
        driver.findElement(By.xpath("//html/body/div[5]/main/div/form/div[4]/button")).click();
    }
}

```

c. Test Runner

[illegible]

8. Fungsi Add Appearances

a. Scenario

```

1 Feature: Test for Github(github.com)
2
3 Scenario: Test Add Appearance
4     Given open chrome and start application
5     When I enter valid email or number phone and valid password
6     Then I can login successfully
7     Then I click dropdown menu
8     Then I choose settings
9     Then I click appearance
10    Then I click dropdown
11    Then I choose single theme
12    Then I choose the theme
    
```

b. Step Definition

```

1 package addAppearance;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.JavascriptExecutor;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.chrome.ChromeDriver;
7
8 import io.cucumber.java.en.Given;
9 import io.cucumber.java.en.Then;
10 import io.cucumber.java.en.When;
11
12 public class addAppearance {
13
14     WebDriver driver;
15     JavascriptExecutor js;
16     @Given("open chrome and start application")
17     public void open_chrome_and_start_application() {
18         System.setProperty("webdriver.chrome.driver", "C:\\Users\\rutlu\\Documents\\SEMESTER IV\\PKPL\\WebDriver\\chromedriver.exe");
19
20         driver = new ChromeDriver();
21         js = (JavascriptExecutor)driver;
22         driver.manage().window().maximize();
23         driver.get("https://github.com/login");
24     }
25
26     @When("I enter valid email or number phone and valid password")
27     public void i_enter_valid_email_or_number_phone_and_valid_password() {
28         driver.findElement(By.id("login_field")).sendKeys("rutlumbantoruan77@gmail.com");
29         driver.findElement(By.id("password")).sendKeys("Invantri11");
30     }
31
32     @Then("I can login successfully")
33     public void i_can_login_successfully() {
34         driver.findElement(By.name("commit")).click();
35     }
36
37     @Then("I click dropdown menu")
38     public void i_click_dropdown_menu() throws InterruptedException {
39         driver.findElement(By.xpath("/html/body/div[1]/header/div[7]/details/summary/span[2]")).click();
40
41         Thread.sleep(10000);
42     }
43
44     @Then("I choose settings")
45     public void i_choose_settings() {
46         js.executeScript("document.querySelector('body > div.position-relative.js-header-wrapper > header > div.header-item.position-relative.nr-0.d-none.d-md-flex > details > details-menu > a:nth-child(15)').click()");
47     }
48
49     @Then("I click appearance")
50     public void i_click_appearance() {
51         driver.findElement(By.xpath("//*[@id='js-pjax-container']/div/div[2]/div[1]/div/action-list/nav/ul/li[3]/a")).click();
52     }
53
54     @Then("I click dropdown")
55     public void i_click_dropdown() {
56         js.executeScript("document.querySelector('wcolor_mode_type_select').click()");
57     }
58
59     @Then("I choose single theme")
60     public void i_choose_single_theme() {
61         driver.findElement(By.xpath("//*[@id='color_mode_type_select']/option[1]")).click();
62     }
63
64     @Then("I choose the theme")
65     public void i_choose_the_theme() {
66         js.executeScript("document.querySelector('wjs-pjax-container > div > div.Layout.Layout--flow--until-md.Layout--sidebarPosition-start.Layout--sidebarPosition-flow--start > div.Layout-main > div > div > appearance-form > div:nth-child(1)').click()");
67     }
68 }
    
```

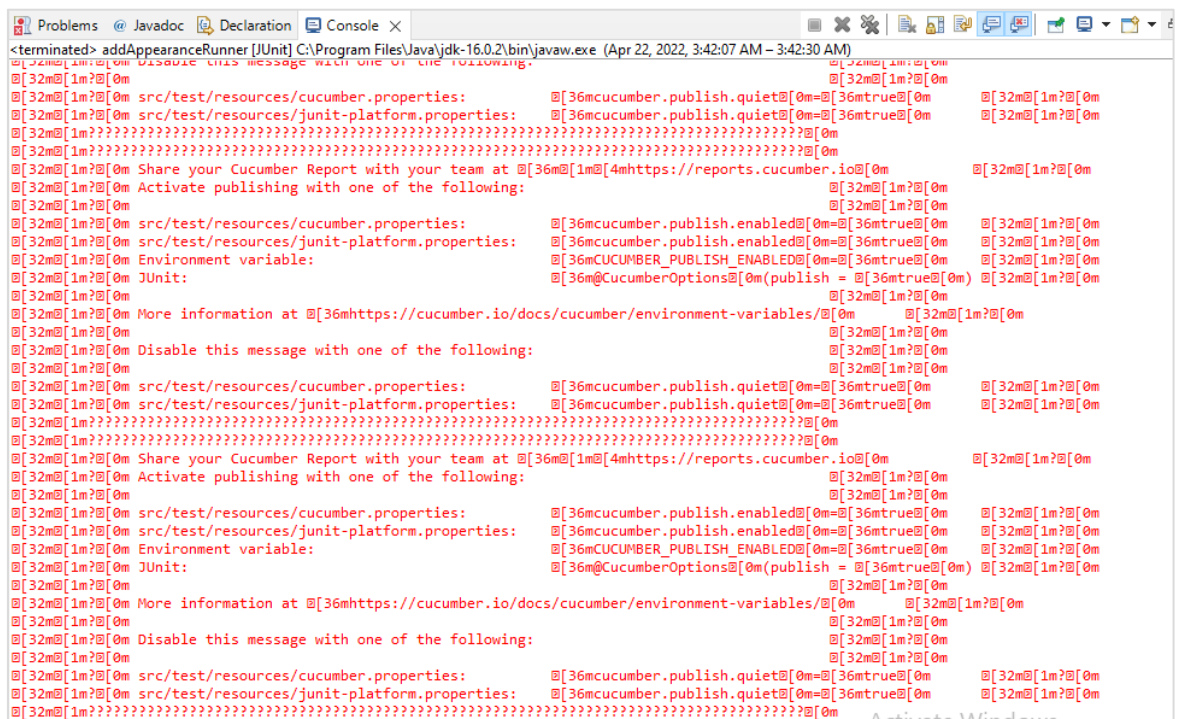
c. Test Runner

```

1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import io.cucumber.junit.Cucumber;
6 import io.cucumber.junit.CucumberOptions;
7
8 @RunWith (Cucumber.class)
9 @CucumberOptions(features = "Features3", glue = "addAppearance")
10
11 public class addAppearanceRunner {
12
13 }
14
15

```

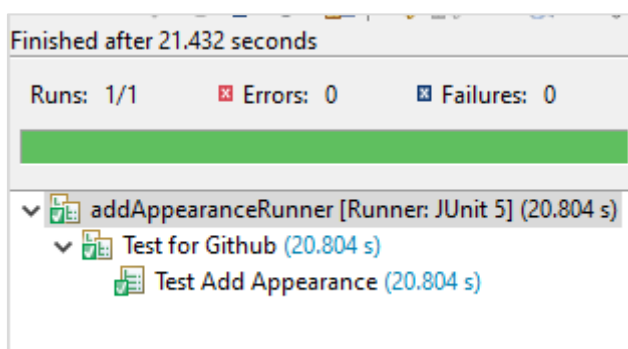
d. Console setelah Running



```

<terminated> addAppearanceRunner [JUnit] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (Apr 22, 2022, 3:42:07 AM - 3:42:30 AM)
[32m[1m? Disable this message with one of the following:
[32m[1m?
[32m[1m? src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m? src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m?
[32m[1m?
[32m[1m?
[32m[1m? Share your Cucumber Report with your team at [36m[1m[4mhttps://reports.cucumber.io[0m [32m[1m?
[32m[1m? Activate publishing with one of the following:
[32m[1m?
[32m[1m? src/test/resources/cucumber.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?
[32m[1m? src/test/resources/junit-platform.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?
[32m[1m? Environment variable: [36mCUCUMBER_PUBLISH_ENABLED[0m=[36mtrue[0m [32m[1m?
[32m[1m? JUnit: [36m[CucumberOptions[0m(publish = [36mtrue[0m) [32m[1m?
[32m[1m?
[32m[1m? More information at [36mhttps://cucumber.io/docs/cucumber/environment-variables/[0m [32m[1m?
[32m[1m?
[32m[1m? Disable this message with one of the following:
[32m[1m?
[32m[1m? src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m? src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m?
[32m[1m?
[32m[1m?
[32m[1m? Share your Cucumber Report with your team at [36m[1m[4mhttps://reports.cucumber.io[0m [32m[1m?
[32m[1m? Activate publishing with one of the following:
[32m[1m?
[32m[1m? src/test/resources/cucumber.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?
[32m[1m? src/test/resources/junit-platform.properties: [36mcucumber.publish.enabled[0m=[36mtrue[0m [32m[1m?
[32m[1m? Environment variable: [36mCUCUMBER_PUBLISH_ENABLED[0m=[36mtrue[0m [32m[1m?
[32m[1m? JUnit: [36m[CucumberOptions[0m(publish = [36mtrue[0m) [32m[1m?
[32m[1m?
[32m[1m? More information at [36mhttps://cucumber.io/docs/cucumber/environment-variables/[0m [32m[1m?
[32m[1m?
[32m[1m? Disable this message with one of the following:
[32m[1m?
[32m[1m? src/test/resources/cucumber.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m? src/test/resources/junit-platform.properties: [36mcucumber.publish.quiet[0m=[36mtrue[0m [32m[1m?
[32m[1m?
[32m[1m?
[32m[1m?
[32m[1m?

```



```

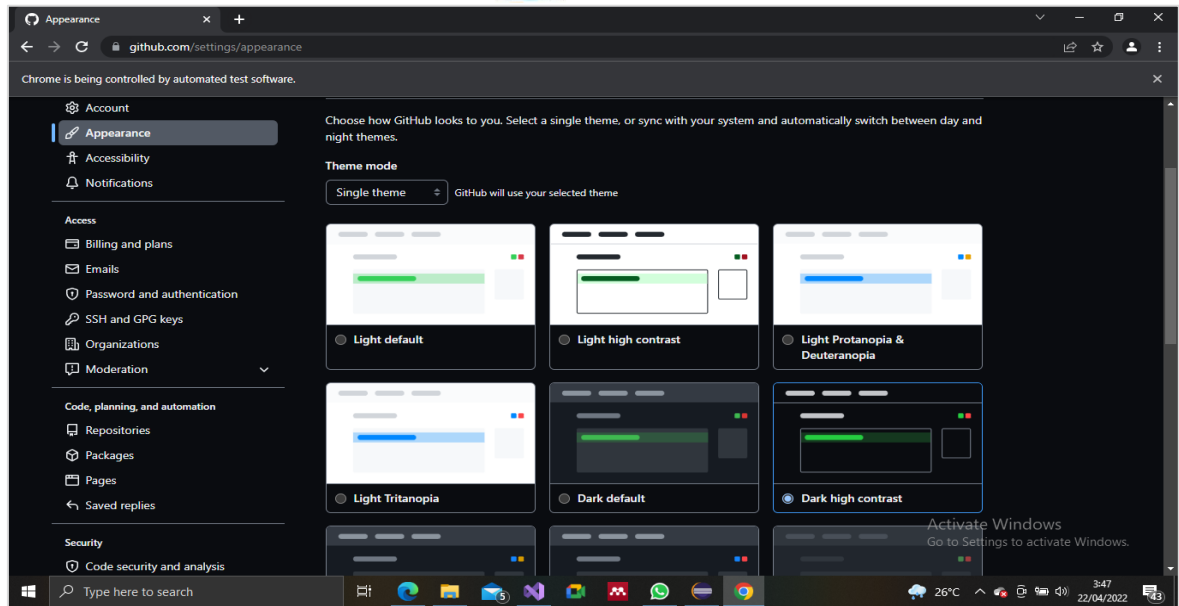
Finished after 21.432 seconds

Runs: 1/1   Errors: 0   Failures: 0

addAppearanceRunner [Runner: JUnit 5] (20.804 s)
  Test for Github (20.804 s)
  Test Add Appearance (20.804 s)

```

e. Snippet Browser saat Testing



9. Open Repository

a. Scenario

```

MyApp.feature x open_repo.java open_repo.java
1 Feature: Test for Github (github.com)
2
3 Scenario: Open Repo
4     Given open chrome and start application
5     When I enter valid username and valid password
6     Then I can login successfully
7     Then I open proyek
8

```

b. Step Definition

```

MyApp.feature open_repo.java x open_repo.java
1 package open_repo;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6 import cucumber.api.java.en.Given;
7 import cucumber.api.java.en.When;
8 import cucumber.api.java.en.Then;
9
10 public class open_repo {
11     WebDriver driver;
12     @Given("^open chrome and start application$")
13     public void open_chrome_and_start_application() throws Throwable {
14         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
15
16         driver = new ChromeDriver();
17         driver.manage().window().maximize();
18         driver.get("https://github.com/login");
19     }
20
21     @When("^I enter valid username and valid password$")
22     public void I_enter_valid_username_and_valid_password() throws Throwable {
23         driver.findElement(By.xpath("//*[@id=\"login_field\"]")).sendKeys("Kelompok022022");
24         driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("TestCum02");
25     }
26
27     @Then("^I can login successfully$")
28     public void I_can_login_successfully() throws Throwable {
29         driver.findElement(By.xpath("//*[@id=\"login\"]div[4]/form/div/input[12]")).click();
30     }
31
32     @Then("^I open proyek$")
33     public void I_open_proyek() throws Throwable {
34         driver.findElement(By.xpath("//*[@id=\"repos-container\"]ul/li/div/div/a")).click();
35     }
36
37
38 }

```

c. Test Runner

```

MyApp.feature open_repo.java open_repo.java x
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import cucumber.api.junit.Cucumber;
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(features="Open_Repo", glue="open_repo") // Folder menyimpan feature file
9 public class open_repo {
10
11 }
12

```

d. Console Setelah Running

```

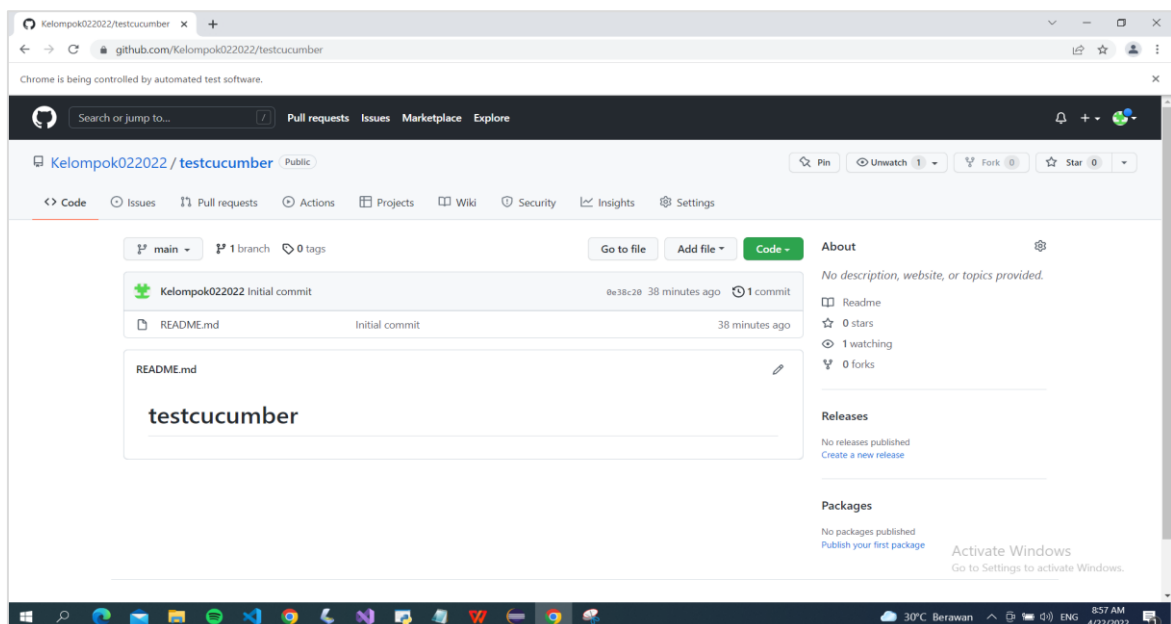
<terminated> open_repo [JUnit] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (Apr 22, 2022, 8:56:45 AM - 8:56:56 AM)
System info: host: 'DELL-1500', ip: '172.100.1.1', os.name: 'Windows 10', os.arch: 'amd64', os.version: '10.0', java.version: '15.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 100.0.4896.127, chrome: {chromedriverVersion: 100.0.4896.127,
Session ID: 26923eb18f43cd623cfc97c928d0380a
*** Element info: {Using=xpath, value=//*[@id="repos-container"]/ul/li/div/div/a}
    at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(Native Method)
    at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:64)
    at java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)
    at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:500)
    at java.base/java.lang.reflect.Constructor.newInstance(Constructor.java:481)
    at org.openqa.selenium.remote.http.W3CHttpResponseCodec.createException(W3CHttpResponseCodec.java:187)
    at org.openqa.selenium.remote.http.W3CHttpResponseCodec.decode(W3CHttpResponseCodec.java:122)
    at org.openqa.selenium.remote.http.W3CHttpResponseCodec.decode(W3CHttpResponseCodec.java:49)
    at org.openqa.selenium.remote.HttpCommandExecutor.execute(HttpCommandExecutor.java:164)
    at org.openqa.selenium.remote.service.DriverCommandExecutor.execute(DriverCommandExecutor.java:83)
    at org.openqa.selenium.remote.RemoteWebDriver.execute(RemoteWebDriver.java:600)
    at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:370)
    at org.openqa.selenium.remote.RemoteWebDriver.findElementByXPath(RemoteWebDriver.java:472)
    at org.openqa.selenium.By$ByXPath.findElement(By.java:361)
    at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:362)
  
```

Finished after 11.172 seconds

Runs: 4/4 Errors: 0 Failures: 0

- runner.open_Repository [Runner: JUnit 4] (4.594 s)
 - github.com (4.594 s)
 - Scenario: Open Exist Repository (4.594 s)
 - Given open chrome and start application (0.000 s)
 - When I enter valid username and valid password (0.000 s)
 - Then I can login successfully (0.000 s)
 - Then I Click Repository (0.000 s)

e. Snippet Browser saat Testing



10. Fungsi Star

a. Scenario

```

StarFeature.feature ×
1 Feature: Test for Github (github.com)
2
3 Scenario: Test Login with Valid Credentials
4 Given open chrome and start application
5 When I enter valid username and valid password
6 Then I can login successfully
7 Then I click search bar
8 Then I type the keyword
9 And I enter for result
10 Then I click star icon
  
```

b. Step Definition

```

StarProyek.java ×
1 package StarProyekDef;
2
3 import org.openqa.selenium.By;
4
11 public class StarProyek {
12     WebDriver driver;
13     @Given("^open chrome and start application$")
14     public void open_chrome_and_start_application() throws Throwable {
15         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
16
17         driver = new ChromeDriver();
18         driver.manage().window().maximize();
19         driver.get("https://github.com/login");
20     }
21
22     @When("^I enter valid username and valid password$")
23     public void I_enter_valid_username_and_valid_password() throws Throwable {
24         driver.findElement(By.xpath("//input[@id='login_field']")).sendKeys("ernitaaa");
25         driver.findElement(By.xpath("//input[@id='password']")).sendKeys("ernitalumbangao1");
26     }
27
28     @Then("^I can login successfully$")
29     public void I_can_login_successfully() throws Throwable {
30         driver.findElement(By.xpath("//input[@id='login']/div[4]/form/div/input[12]")).click();
31     }
32
33     @Then("^I click search bar$")
34     public void I_click_search_bar() throws Throwable {
35         driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).click();
36     }
37
38     @Then("^I type the keyword$")
39     public void I_type_the_keyword() throws Throwable {
40         driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys("Golang");
41     }
42
43     @Then("^I enter for results$")
44     public void I_enter_for_result() throws Throwable {
45         driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys(Keys.RETURN);
46     }
47
48     @Then("^I click star icon$")
49     public void I_click_star_icon() throws Throwable {
50         driver.findElement(By.xpath("//div[@id='js-pjax-container']/div/div[3]/div/div[1]/div/div[2]/form[2]/button")).click();
51     }
52 }
  
```

c. Test Runner


```
StarRunner.java ×
1 package runner;
2 import org.junit.runner.RunWith;
3
4 import io.cucumber.junit.Cucumber;
5 import io.cucumber.junit.CucumberOptions;
6
7 @RunWith(Cucumber.class)
8 @CucumberOptions(features="StarFeature", glue="StarProyekDef")
9
10
11 public class StarRunner {
12
13 }
14
```

d. Console setelah Running

Finished after 13.176 seconds

Runs: 7/7 Errors: 0 Failures: 0

- runner.starProyek [Runner: JUnit 4] (5.864 s)
 - github.com (5.864 s)
 - Scenario: Star Proyek (5.864 s)
 - Given open chrome and start application (0.000 s)
 - When I enter valid username and valid password (0.000 s)
 - Then I can login successfully (0.000 s)
 - Then I click search bar (0.000 s)
 - Then I type the keyword (0.000 s)
 - And I enter for result (0.000 s)
 - Then I click star icon (0.000 s)

e. Snippet Browser saat Testing