| Laporan Praktikum Pengujian dan Kualitas Perangkat Lunak<br>Week 12a<br>BDD - Automation Testing Using Cucumber | | |
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## Pengujian Aplikasi Github

### 1. Fungsi Login

a. Scenario

LoginFeature.feature

```
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
```

b. Step Definition

LoginStepDef.java

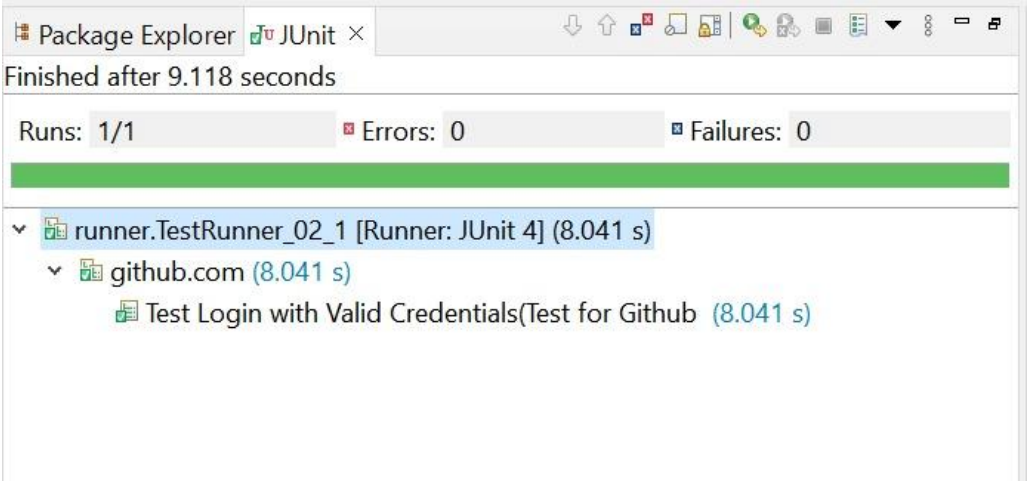
```
package LoginStepDef;

import org.openqa.selenium.By;

public class LoginStepDef {
    WebDriver driver;

    @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();
        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() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login_field\"]")).sendKeys("ernitaaa");
        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("ernitalumbangaol");

    }

    @Then("^I can login successfully$")
    public void I_can_login_successfully() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login\"]/div[4]/form/div/input[12]")).click();

    }
}
```

c. Test Runner

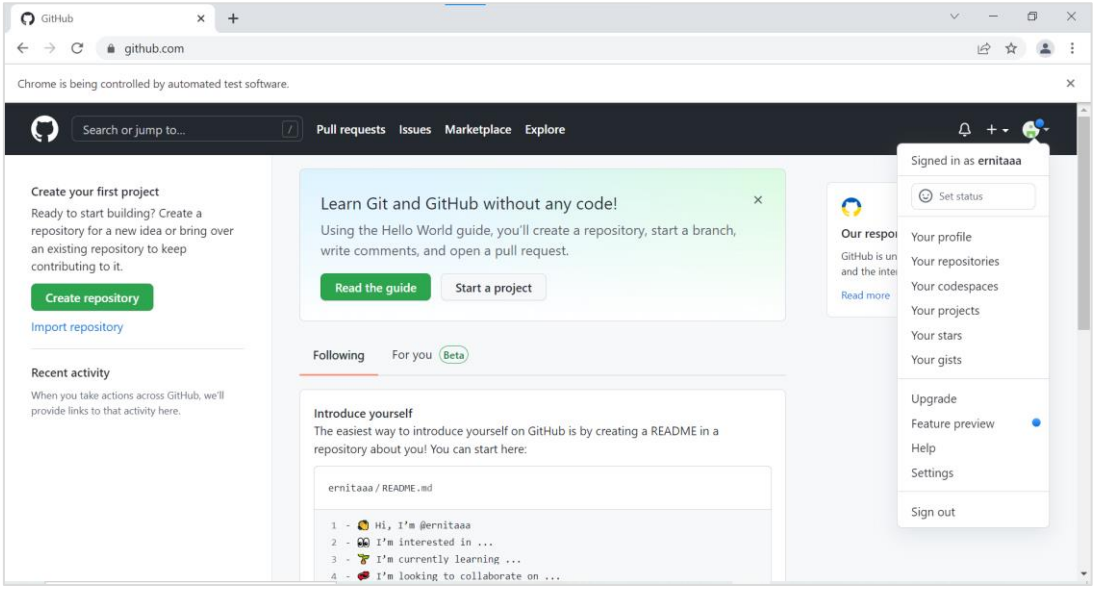
LoginRunner.java

```
1  package runner;
2
3
4  import org.junit.runner.RunWith;
5
6  import io.cucumber.junit.Cucumber;
7  import io.cucumber.junit.CucumberOptions;
8
9  @RunWith(Cucumber.class)
10 @CucumberOptions(features="LoginFeature", glue="LoginStepDef")
11
12
13
14 public class LoginRunner {
15
16 }
17
```

d. *Console* setelah Running



e. *Snippet* Browser saat Testing



## 2. Fungsi Search

### a. Scenario

SearchFeature.feature

```
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 search bar
    Then I type the keyword
    And I click button
```

### b. Step Definition

*SearchProyekDef.java

```
package SearchProyekDef;

import org.openqa.selenium.By;

public class SearchProyekDef {
WebDriver driver;

    @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();
        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() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login_field\"]")).sendKeys("ernitaaa");
        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("ernitalumbangaol");
    }

    @Then("^I can login successfully$")
    public void I_can_login_successfully() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login\"]/div[4]/form/div/input[12]")).click();

    }
```

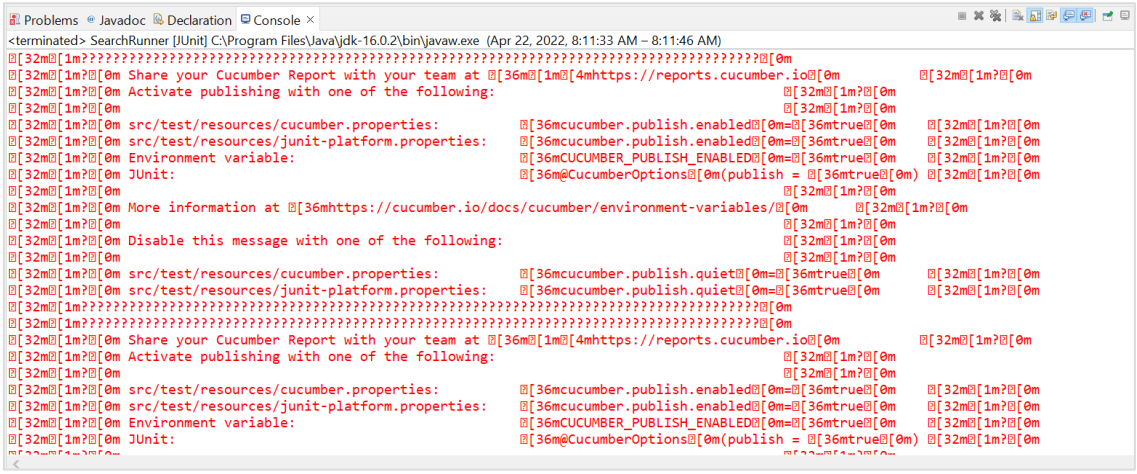
```
    @Then("^I click search bar$")
    public void I_click_search_bar() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).click();
    }

    @Then("^I type the keyword$")
    public void I_type_the_keyword() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys("Java");

    }

    @Then("^I click button$")
    public void I_click_button() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys(Keys.RETURN);

    }
}
```

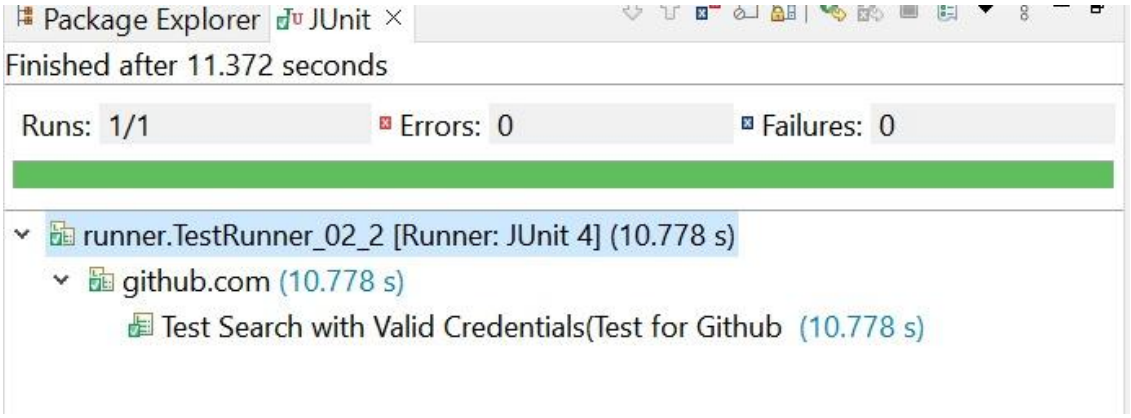
### c. Test Runner

SearchRunner.java

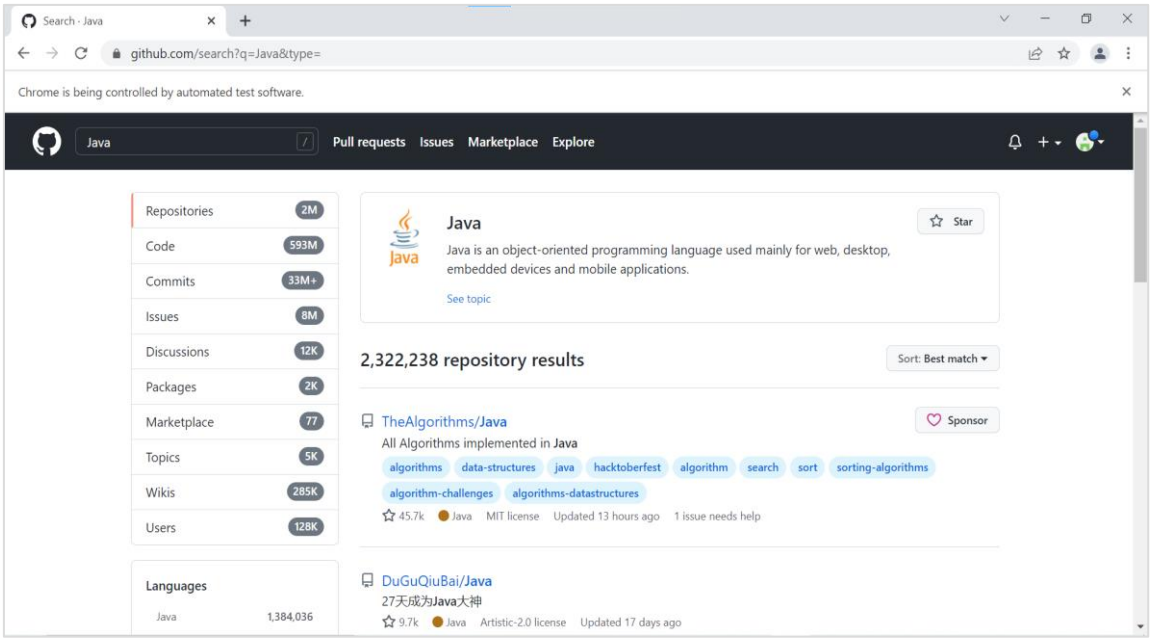
```
package runner;
import org.junit.runner.RunWith;

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

@RunWith(Cucumber.class)
@CucumberOptions(features="SearchFeature", glue="SearchProyekDef")

public class SearchRunner {

}
```

d. *Console* setelah Running




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
```

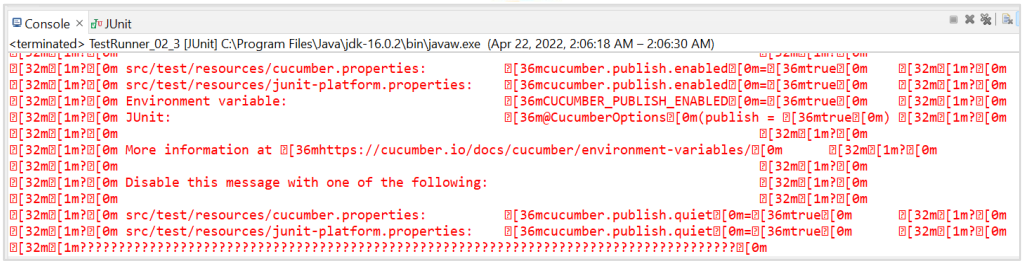
b. Step Definition

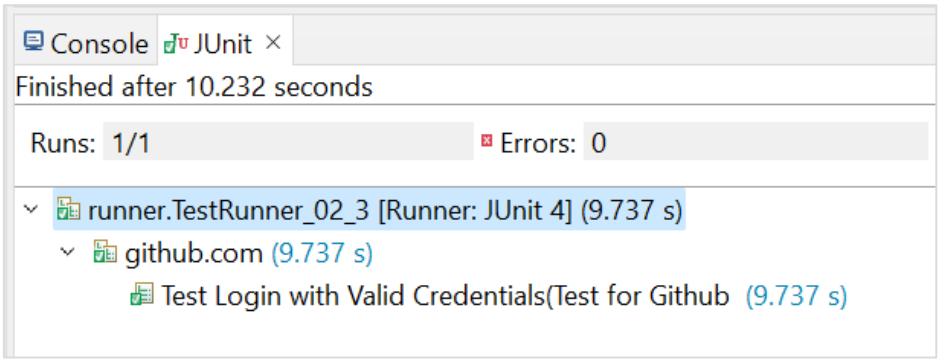
```
package stepDefinition_02_3;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
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_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("4kuc4ntlkb4nget");
    }

    @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

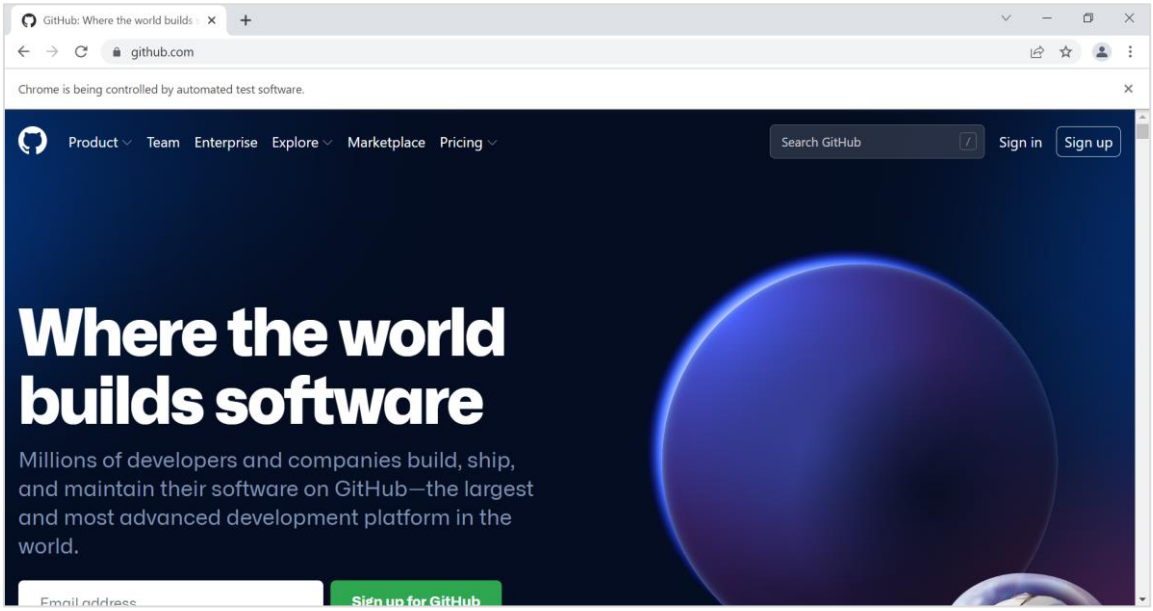
```
package runner;

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




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
```

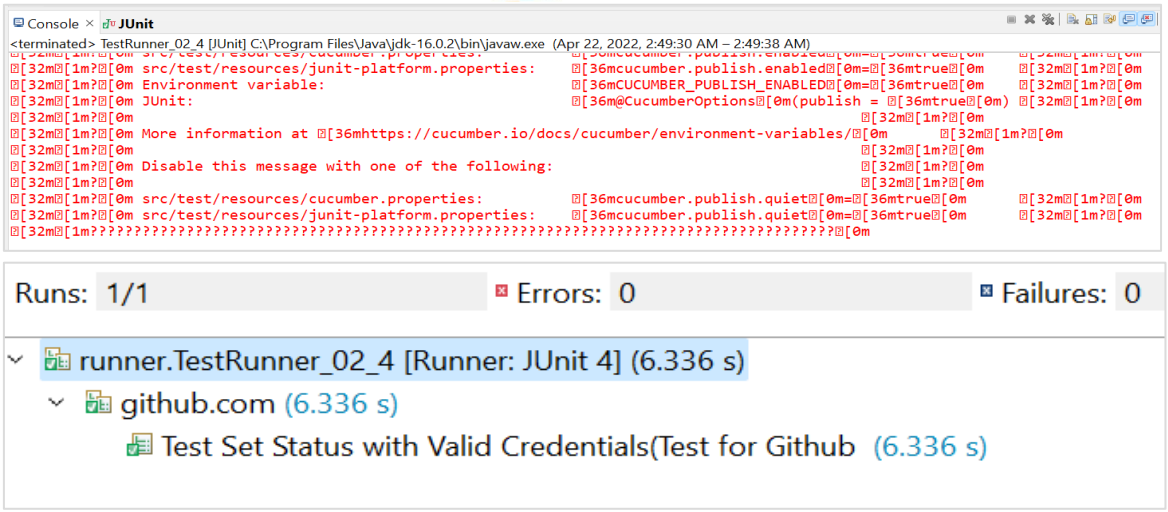
b. Step Definition

```
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 > di
    }

    @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("//*[@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();
    }
}
```

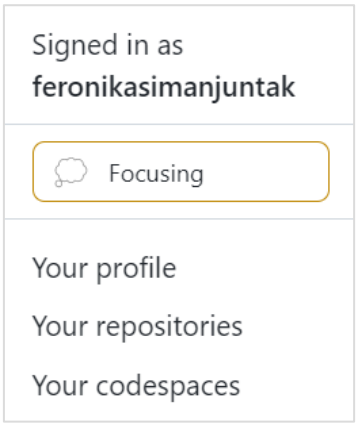
c. Test Runner

```
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




e. *Snippet* Browser saat Testing



## 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
```

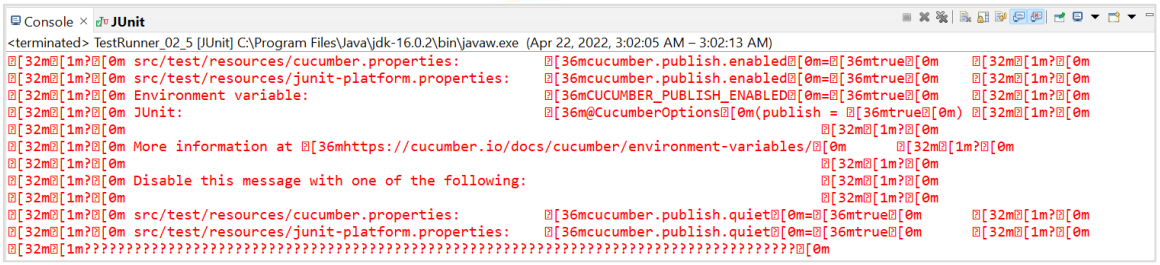
b. Step Definition

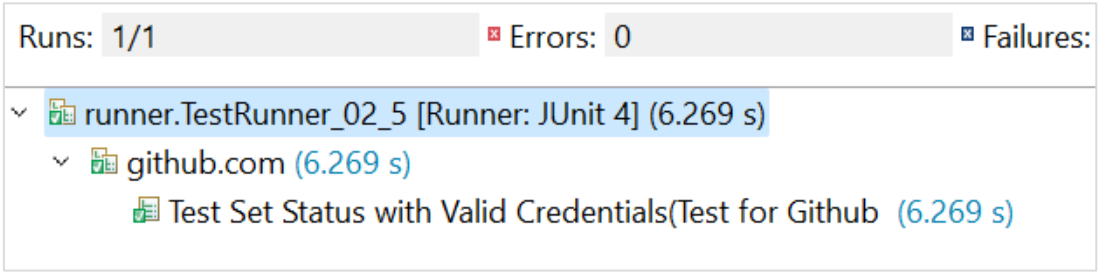
```
package stepDefinition_02_5;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.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("feronikasimanjuntak");
        driver.findElement(By.id("password")).sendKeys("4kuc4ntlkb4nget");
    }

    @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

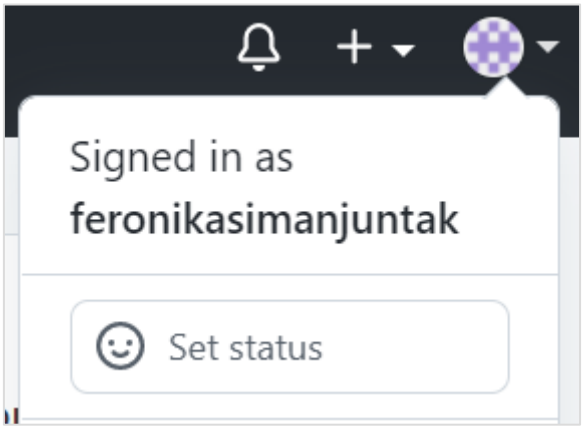
```
package runner;

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




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

```
package addEmail;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
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 addEmail {
    WebDriver driver;
    JavascriptExecutor js;
    @Given("open chrome and start application")
    public void open_chrome_and_start_application() {
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\rutlu\\Documents\\SEMESTER IV\\PKPL\\WebDriver\\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("rutlumbantoruan77@gmail.com");
        driver.findElement(By.id("password")).sendKeys("Invantri11");
    }

    @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/summary/span[2]")).click();
        Thread.sleep(10000);
    }
```

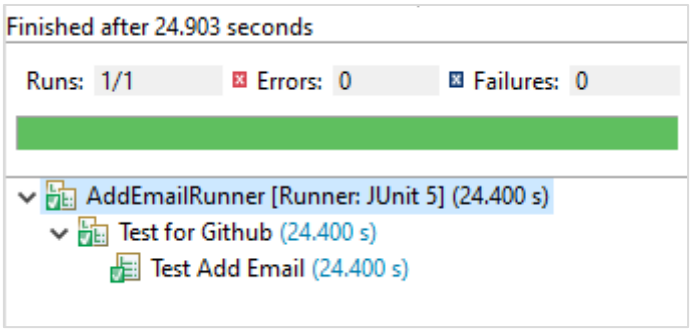
Activate Windows
Go to Settings to activate Windows.

```
    @Then("I choose settings")
    public void i_choose_settings() {
        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()");
    }

    @Then("I click emails")
    public void i_click_emails() {
        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();
    }

    @When("I enter an email")
    public void i_enter_an_email() {
        driver.findElement(By.id("email")).sendKeys("kelompok0222@gmail.com");
    }

    @Then("I click add")
    public void i_click_add() {
        driver.findElement(By.xpath("//*[@id=\"new_user_email\"]/dl/dd/button")).click();
    }


}
```

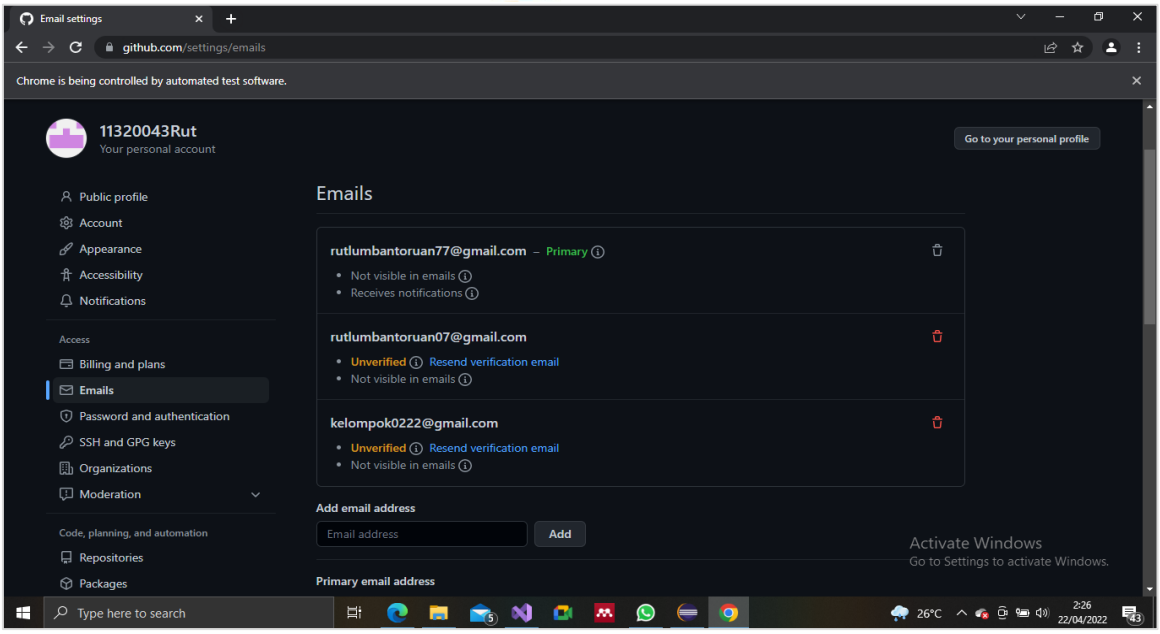
c. Test Runner

```
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




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
2:26
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
```

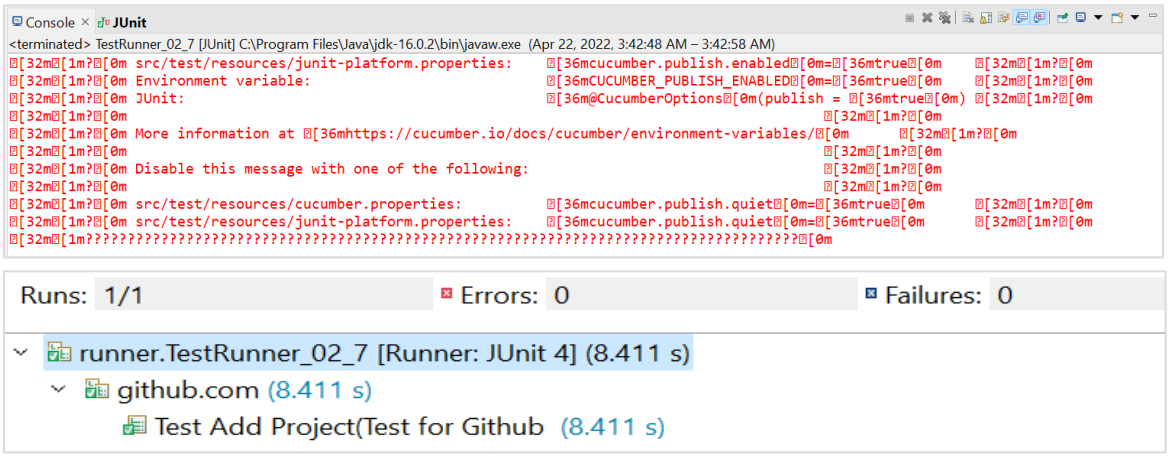
b. Step Definition

```
package stepDefinition_02_7;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
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 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("4kuc4nt1kb4nget");
    }

    @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("//*[@id=\"projects-results\"]/div/div[1]/a")).click();
    }

    @Then("I fill project name")
    public void i_fill_project_name() {
        driver.findElement(By.xpath("//*[@id=\"project_name\"]")).sendKeys("Kelompok02pkpl");
    }

    @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();
    }
}
```

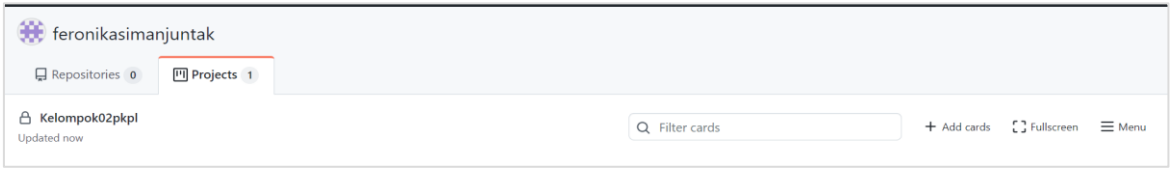
c. Test Runner

```java
package runner;

import org.junit.runner.RunWith;

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

@RunWith(Cucumber.class)
@CucumberOptions(features="Features_02_7", glue="stepDefinition_02_7")

public class TestRunner_02_7 {

}
```

d. *Console* setelah Running




e. *Snippet* Browser saat Testing



8. **Fungsi Add Appearances**

a. Scenario

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

  Scenario: Test Add Appearance
    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 appearance
    Then I click dropdown
    Then I choose single theme
    Then I choose the theme
```

b. Step Definition

```
package addAppearance;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
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 addAppearance {

    WebDriver driver;
    JavascriptExecutor js;
    @Given("open chrome and start application")
    public void open_chrome_and_start_application() {
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\rutlu\\Documents\\SEMESTER IV\\PKPL\\WebDriver\\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("rutlumbantoruan77@gmail.com");
        driver.findElement(By.id("password")).sendKeys("Invantri11");
    }

    @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/summary/span[2]")).click();
```

Activate Windows

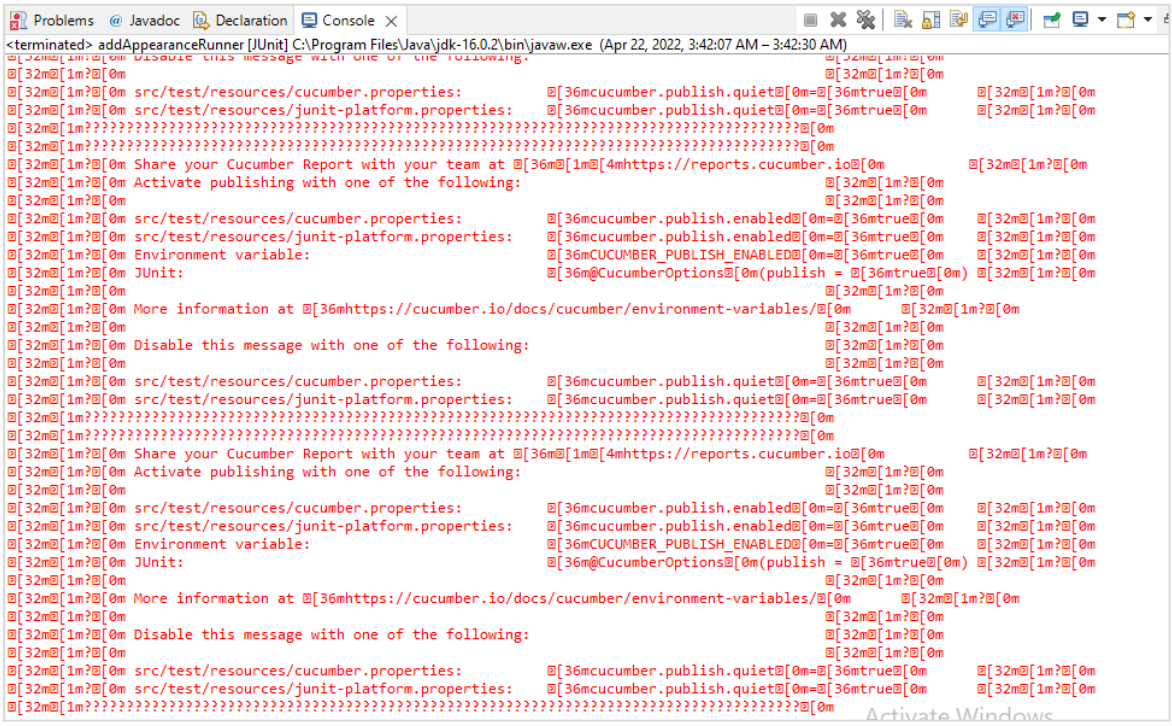
```
        Thread.sleep(10000);
    }

    @Then("I choose settings")
    public void i_choose_settings() {
        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()");
    }

    @Then("I click appearance")
    public void i_click_appearance() {
        driver.findElement(By.xpath("//*[@id=\"js-pjax-container\"]/div/div[2]/div[1]/div/action-list/nav/ul/li[3]/a")).click();
    }

    @Then("I click dropdown")
    public void i_click_dropdown() {
        js.executeScript("document.querySelector(\"#color_mode_type_select\").click()");
    }
    @Then("I choose single theme")
    public void i_choose_single_theme() {
        driver.findElement(By.xpath("//*[@id=\"color_mode_type_select\"]/option[1]")).click();
    }
    @Then("I choose the theme")
    public void i_choose_the_theme() {
        js.executeScript("document.querySelector(\"#js-pjax-container > div > div.Layout.Layout--flowRow-until-md.Layout--sidebarPosition-start.Layout--sidebarPosition-flowRow-start_ > div.Layout-main > div > div > appearance-form > div:nth
    }
}
```

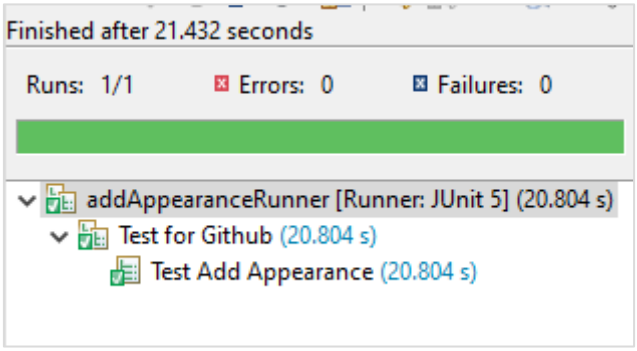
Activate Windows

c. Test Runner

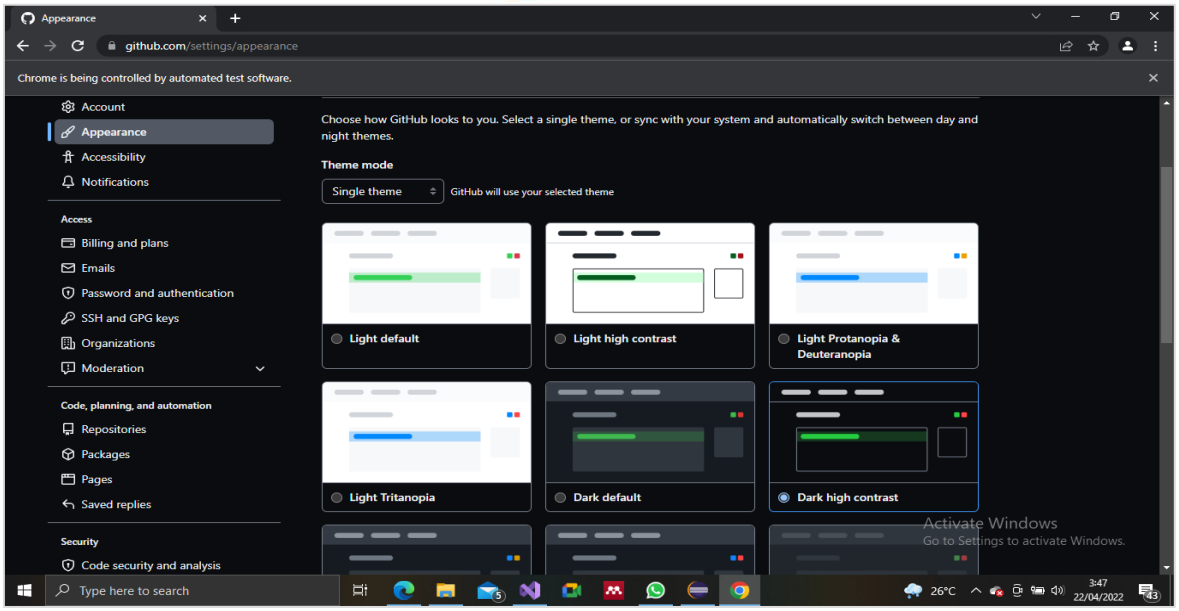
```java
package runner;

import org.junit.runner.RunWith;

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

@RunWith (Cucumber.class)
@CucumberOptions(features ="Features3", glue = "addAppearance")

public class addAppearanceRunner {


}
```

d. *Console* setelah Running




e. *Snippet* Browser saat Testing


Appearance
github.com/settings/appearance
Chrome is being controlled by automated test software.
Account
Appearance
Accessibility
Notifications
Access
Billing and plans
Emails
Password and authentication
SSH and GPG keys
Organizations
Moderation
Code, planning, and automation
Repositories
Packages
Pages
Saved replies
Security
Code security and analysis
Choose how GitHub looks to you. Select a single theme, or sync with your system and automatically switch between day and night themes.
Theme mode
Single theme
GitHub will use your selected theme
Light default
Light high contrast
Light Protanopia & Deuteranopia
Light Tritanopia
Dark default
Dark high contrast
Activate Windows
Go to Settings to activate Windows.
Type here to search
26°C
3:47
22/04/2022

## 9. Open Repository

a. Scenario

MyApp.feature | open_repo.java | open_repo.java

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

  Scenario: Open Repo
    Given open chrome and start application
    When I enter valid username and valid password
    Then I can login successfully
    Then I open proyek

```

b. Step Definition

MyApp.feature | open_repo.java | open_repo.java

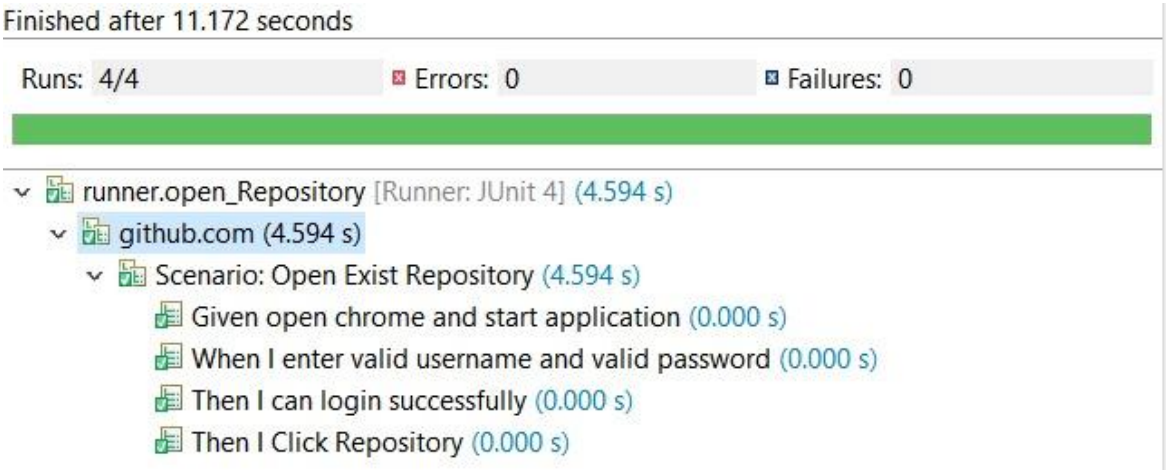
```
package open_Repo;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import cucumber.api.java.en.Given;
import cucumber.api.java.en.Then;
import cucumber.api.java.en.When;

public class open_repo {
    WebDriver driver;
    @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();
        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() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login_field\"]")).sendKeys("Kelompok022022");
        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("TestCum02");
    }

    @Then("^I can login successfully$")
    public void I_can_login_successfully() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login\"]/div[4]/form/div/input[12]")).click();
    }

    @Then("^I open proyek$")
    public void I_open_proyek() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"repos-container\"]/ul/li/div/div/a")).click();
    }


}
```

c. Test Runner

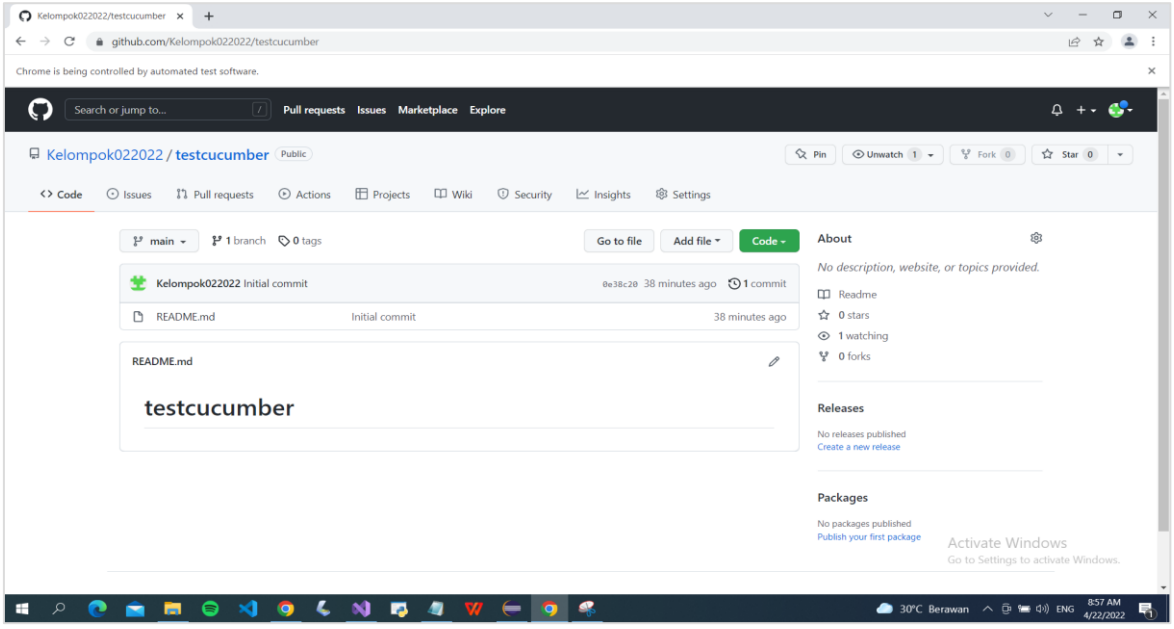
MyApp.feature | open_repo.java | open_repo.java

```
package runner;

import org.junit.runner.RunWith;

import cucumber.api.junit.Cucumber;

@RunWith(Cucumber.class)
@Cucumber.Options(features="Open_Repo", glue="open_Repo") // Folder menyimpan feature file
public class open_repo {

}
```

d. Console Setelah Running




e. Snippet Browser saat Testing



## 10. Fungsi Star

a. Scenario

StarFeature.feature

```
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 search bar
    Then I type the keyword
    And  I enter for result
    Then I click star icon
```

b. Step Definition

StarProyek.java

```
package StarProyekDef;

import org.openqa.selenium.By;

public class StarProyek {
    WebDriver driver;
    @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();
        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() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login_field\"]")).sendKeys("ernitaaa");
        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("ernitalumbangaol");

    }

    @Then("^I can login successfully$")
    public void I_can_login_successfully() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"login\"]/div[4]/form/div/input[12]")).click();

    }
```

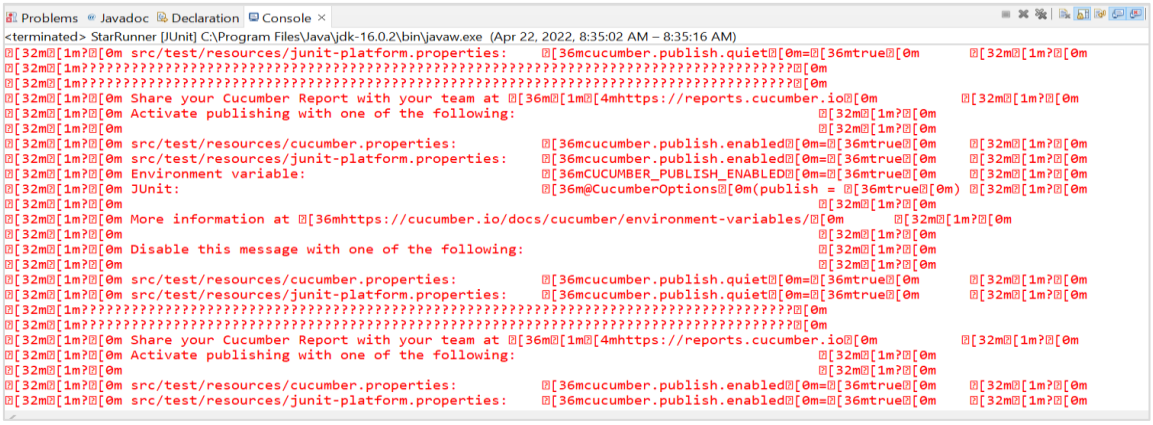
```
    @Then("^I click search bar$")
    public void I_click_search_bar() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).click();

    }

    @Then("^I type the keyword$")
    public void I_type_the_keyword() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys("Golang");

    }

    @Then("^I enter for result$")
    public void I_enter_for_result() throws Throwable {
        driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys(Keys.RETURN);

    }

    @Then("^I click star icon$")
    public void I_click_star_icon() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"js-pjax-container\"]/div/div[3]/div/div[1]/div/div[2]/form[2]/button")).click();

    }
}
```

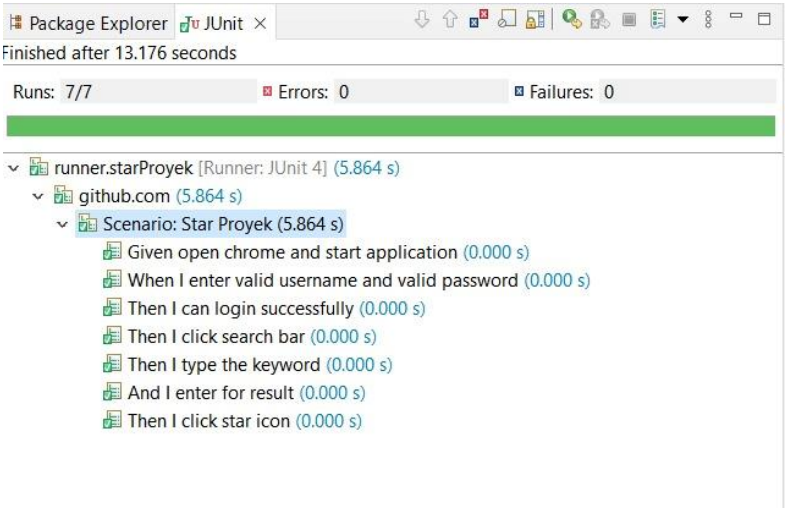
c. Test Runner

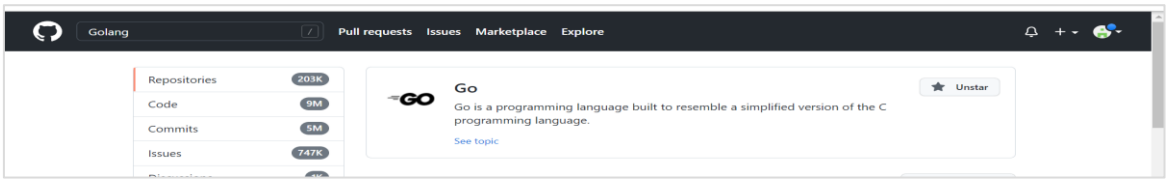
StarRunner.java

```
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




e. *Snippet* Browser saat Testing