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

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Pengujian Aplikasi INSTAGRAM

1. Fungsi A (membuka problems)

    a. Scenario

```
1 Feature: Test for INSTAGRAM (www.instagram.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 succesfully
```

    b. Step Definition

```
public class SmokeTest {
    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://www.instagram.com/");
    }

    @When("^I enter valid username and valid password$")
    public void I_enter_valid_username_and_valid_password() throws Throwable {
        driver.findElement(By.id("loginform-username")).sendKeys("elsadaysianturi2020@gmai.com");
        driver.findElement(By.id("loginform-password")).sendKeys("antioil");
    }

    @Then("^I can login succesfully$")
    public void I_can_login_succesfully() throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"loginForm\"]/div/div[1]/div/label")).click();
    }
```

    c. Test Runner

```
1 package runner;
2 import org.junit.runner.RunWith;
3
4 import cucumber.api.junit.Cucumber;
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="Features", glue="stepDefenition") // Folder penyimpanan feature file
8
9 public class TestRunner {
0
1 }
2
```

d. *Console* setelah Running


```
Problems  Javadoc  Declaration  Console ×  Coverage  Test Sessions  Coverage  JUnit
<terminated> TestRunner (1) [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 10:32:25 AM – 10:32:28 AM) [pid: 14936]
        at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
        at cucumber.runtime.junit.FeatureRunner.run(FeatureRunner.java:70)
        at cucumber.api.junit.Cucumber.runChild(Cucumber.java:77)
        at cucumber.api.junit.Cucumber.runChild(Cucumber.java:37)
        at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
        at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
        at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
        at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
        at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
        at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
        at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
        at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
        at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

e. *Snippet* Browser saat Testing

- runner.TestRunner [Runner: JUnit 4] (0.023 s)
  - www.instagram.com (0.023 s)
    - Scenario: Test Login with Valid Credentials (0.023 s)
      - Given open chrome and start application (0.023 s)
      - When I enter valid username and valid password (0.000 s)
      - Then I can login succesfully (0.000 s)

2. Fungsi B (Longout)

a. Scenario


```
1  Feature: Test for INSTAGRAM (instagram.com)
2
3    Scenario: Test Sign out 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 profile
8        Then I click sign out
```

b. Step Definition


```java
public class SmokeTest {
    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("elsasianturi2020@gmail.com");
        driver.findElement(By.id("password")).sendKeys("antioil");
    }

    @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("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[1]/div/div/div/div/div[6]/div/div/a/div")).click();
        Thread.sleep(1000);
    }

    @Then("I click sign out")
    public void i_click_sign_out() {
        js.executeScript("document.querySelector(\"#mount_0_0_Tc > div > div > div:nth-child(3) > div > div > div.x9f619.x1n2onr6.x1ja2u2z > div > div.xluvtmcs.x4k7w5x.x1h91t0o.x1bec
    }
}
```
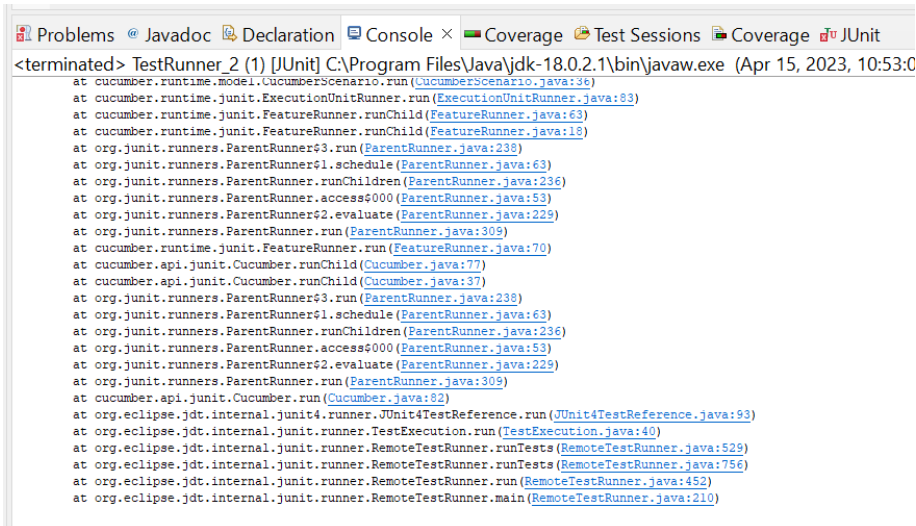
c. Test Runner

```
1  package runner;
2⊖ import org.junit.runner.RunWith;
3
4  import cucumber.api.junit.Cucumber;
5
6  @RunWith(Cucumber.class)
7  @Cucumber.Options(features="features_2", glue="stepDefenition_2") // Folder penyimpanan feature file
8
9  public class TestRunner_2 {
10
11 }
12 |
```
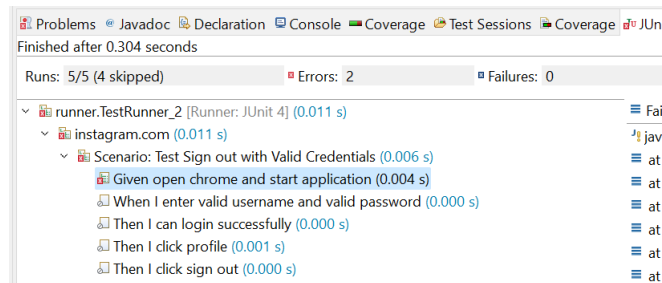
d. *Console* setelah Running

e. *Snippet* Browser saat Testing

3. Fungsi C

A. Scenario

```
1⊖    Feature: Test for INSTAGRAM (instagram.com)
2⊖  Scenario: Test Create
3     Given open chrome and start application
4     When I enter valid username and valid password
5     Then I can login successfully
6     Then I click profile
7     Then I click create
8     Then I click select from computer
```

B. Step Definition

```
 8  import cucumber.api.PendingException;
 9  import cucumber.api.java.en.Given;
10  import cucumber.api.java.en.Then;
11  import cucumber.api.java.en.When;
12
13  public class SmokeTest {
14      WebDriver driver;
15      JavascriptExecutor js;
16
17      @Given("^open chrome and start application$")
18      public void open_chrome_and_start_application() throws Throwable {
19          System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
20
21          driver = new ChromeDriver();
22          js = (JavascriptExecutor) driver;
23          driver.manage().window().maximize();
24          driver.get("https://github.com/login");
25
26      }
27
28      @When("I enter valid username and valid password")
29      public void i_enter_valid_username_and_valid_password() {
30          driver.findElement(By.id("login_field")).sendKeys("feronikasimanjuntak");
31          driver.findElement(By.id("password")).sendKeys("4kuc4ntlkb4nget");
32      }
33
34      @Then("I can login successfully")
35      public void i_can_login_successfully() {
36          driver.findElement(By.name("commit")).click();
37      }
38
39      @Then("I click profile")
40      public void i_click_profile() throws InterruptedException {
41          driver.findElement(By.xpath("/html/body/div[1]/header/div[7]/details")).click();
42          Thread.sleep(1000);
43      }
44
45      @Then("I click create$")
46      public void i_click_create() {
47          js.executeScript("document.querySelector(\"#mount_0_0_Tc > div > div > div.x9f619.xln2onr6.x1ja2u2z > div > div > div > div.x78zum5.xdt5ytf.x1Oc
48      }
49
50      @Then("I click select from computer")
51      public void i_click_select_from_computer() {
52          driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[3]/div/div/div[1]/div/div[3]/div/div/div/div/div[2]/div/div/div/div[2]/div[1]
53      }
54
55
56  }
```
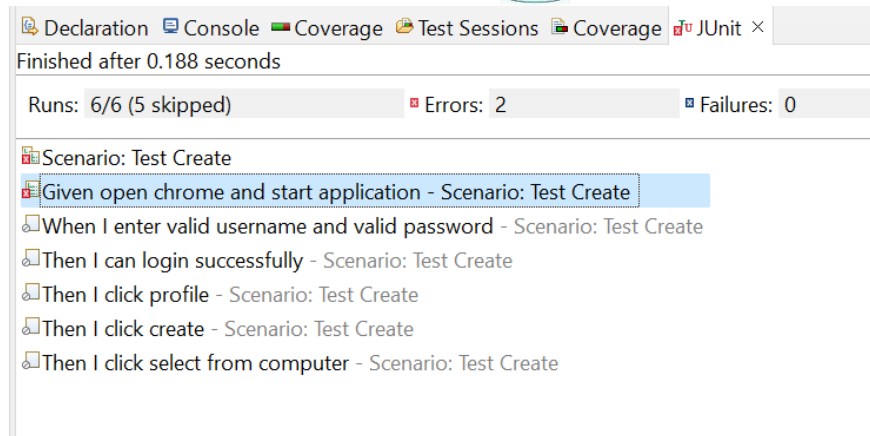
C. Test Runner

```
 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="Feature_4", glue="stepDefenition_4") // Folder penyimpanan feature file
 9
10  public class TestRunner_4 {
11
12  }
13
```

D. *Console* setelah Running

E. *Snippet* Browser saat Testing

JUnit panel:

Finished after 0.188 seconds

Runs: 6/6 (5 skipped) | Errors: 2 | Failures: 0

Scenario: Test Create
Given open chrome and start application - Scenario: Test Create
When I enter valid username and valid password - Scenario: Test Create
Then I can login successfully - Scenario: Test Create
Then I click profile - Scenario: Test Create
Then I click create - Scenario: Test Create
Then I click select from computer - Scenario: Test Create

4. Fungsi D

A. Scenario

```
1  Feature: Test for INSTAGRAM (instagram.com)
2  Scenario: Test edit Profile
3      Given open chrome and start application
4      When I enter valid email or number phone and valid password
5      Then I can login successfully
6      Then I click dropdown menu
7      Then I choose setting
8      Then I click text box
9      Then I click button submit
```

B. Step Definition

C. Test Runner

```
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="Feature_5", glue="stepDefenition_5") // Folder penyimpanan feature file
9
10 public class TestRunner_5 {
11
12 }
13
```

D. *Console* setelah Running

E. *Snippet* Browser saat Testing

5. Fungsi E

A. Scenario

B. Step Definition

```java
public class SmokeTest {
    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();
        driver.manage().window().maximize();
        driver.get("https://www.instagram.com/");
    }

    @When("I enter valid username and valid password")
    public void i_enter_valid_username_and_valid_password() {
        driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
        driver.findElement(By.id("password")).sendKeys("antioil");
    }

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

    @Then("I click message")
    public void i_click_message() throws InterruptedException {
        driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div/div[1]/div/div
        Thread.sleep(1000);
    }
}
```

C. Test Runner

```java
1 package runner;
2 import org.junit.runner.RunWith;
3
4 import cucumber.api.junit.Cucumber;
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="Feature_6", glue="stepDefenition_6") // Folder penyimpanan feature file
8
9 public class TestRunner_6 {
10
11 }
12
```

D. *Console* setelah Running

```
Declaration  Console ×  Coverage  Test Sessions  Coverage  JUnit
<terminated> TestRunner_5 [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 12:23:48 PM – 12:23:50 PM) [pid: 12204]
    at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
    at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
    at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
    at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
    at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

E. *Snippet* Browser saat Testing

```
Declaration  Console  Coverage  Test Sessions  Coverage  JUnit ×
Finished after 0.02 seconds

Runs: 4/4 (5 skipped)                    Errors: 0            Failures: 0

Given open chrome and start application - Scenario: Test Open Message
When I enter valid username and valid password - Scenario: Test Open Message
Then I can login successfully - Scenario: Test Open Message
Then I click Message - Scenario: Test Open Message
```

6. Fungsi F

A. Scenario

```
1  Feature: Test for INSTAGRAM (instagram.com)
2
3  Scenario: Test Search 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      Then I click button
```

B. Step Definition

```
13 public class SmokeTest {
14     WebDriver driver;
15
16     @Given("^open chrome and start application$")
17     public void open_chrome_and_start_application() throws Throwable {
18         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
19
20         driver = new ChromeDriver();
21         driver.manage().window().maximize();
22         driver.get("https://github.com/login");
23
24     }
25
26     @When("I enter valid username and valid password")
27     public void i_enter_valid_username_and_valid_password() {
28         driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
29         driver.findElement(By.id("password")).sendKeys("antioil");
30     }
31
32     @Then("^I can login successfully$")
33     public void I_can_login_successfully() throws Throwable {
34         driver.findElement(By.name("commit")).click();
35     }
36
37     @Then("I click search bar")
38     public void i_click_search_bar() {
39         driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[2]/section/div[1]/nav/div/he
40     }
41     @Then("I type the keyword")
42     public void i_type_the_keyword() {
43         driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[2]/section/div[1]/nav/div/he
44     }
45     @Then("I click button")
46     public void i_click_button() {
47         driver.findElement(By.xpath("/html/body/div[1]/header/div[3]/div/div/form/label/input[1]")).sendKeys(Keys.RETURN);
48     }
49
50 }
```

C. Test Runner

```
1 package runner;
2 import org.junit.runner.RunWith;
3
4 import cucumber.api.junit.Cucumber;
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="Feature_7", glue="stepDefenition_7") // Folder penyimpanan feature file
8
9 public class TestRunner_7 {
10
11 }
12
```

D. *Console* setelah Running

```
Declaration  Console ×  Coverage  Test Sessions  Coverage  JUnit
<terminated> TestRunner_7 [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 12:33:26 PM – 12:33:29 PM) [pid: 11880]
    at cucumber.runtime.junit.FeatureRunner.runChild(FeatureRunner.java:63)
    at cucumber.runtime.junit.FeatureRunner.runChild(FeatureRunner.java:18)
    at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
    at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
    at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
    at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
    at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
    at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
    at cucumber.runtime.junit.FeatureRunner.run(FeatureRunner.java:70)
    at cucumber.api.junit.Cucumber.runChild(Cucumber.java:77)
    at cucumber.api.junit.Cucumber.runChild(Cucumber.java:37)
    at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
    at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
    at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
    at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
    at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
    at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
    at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
    at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
    at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
    at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

E. *Snippet* Browser saat Testing

```
Declaration  Console  Coverage  Test Sessions  Coverage  JUnit ×
Finished after 0.256 seconds

Runs: 6/6 (5 skipped)          Errors: 2          Failures: 0

Given open chrome and start application - Scenario: Test Search with Valid Credentials
When I enter valid username and valid password - Scenario: Test Search with Valid Credentials
Then I can login successfully - Scenario: Test Search with Valid Credentials
Then I click search bar - Scenario: Test Search with Valid Credentials
Then I type the keyword - Scenario: Test Search with Valid Credentials
Then I click button - Scenario: Test Search with Valid Credentials
```

7. Fungsi G

A. Scenario

```
1  Feature: Test for INSTAGRAM (instagram.com)
2
3  Scenario: Test page explore
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 profile
8      Then I click explore
```

B. Step Definition

```
12 public class SmokeTest {
13     WebDriver driver;
14     JavascriptExecutor js;
15
16     @Given("^open chrome and start application$")
17     public void open_chrome_and_start_application() throws Throwable {
18         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
19
20         driver = new ChromeDriver();
21         js = (JavascriptExecutor) driver;
22         driver.manage().window().maximize();
23         driver.get("https://www.instagram.com/");
24
25     }
26
27     @When("I enter valid username and valid password")
28     public void i_enter_valid_username_and_valid_password() {
29         driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
30         driver.findElement(By.id("password")).sendKeys("antioil");
31     }
32
33     @Then("I can login successfully")
34     public void i_can_login_successfully() {
35         driver.findElement(By.name("commit")).click();
36     }
37
38     @Then("I click explore$")
39     public void i_click_explore() throws InterruptedException {
40         driver.findElement(By.xpath("//*[@id=\"mount_0_0_Lb\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[1]/div/div/div/div/div[2
41         Thread.sleep(1000);
42     }
43
44 }
```

C. Test Runner

```
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="Feature_8", glue="stepDefenition_8") // Folder penyimpanan feature file
9
10 public class TestRunner_8 {
11
12 }
13
```

D. *Console* setelah Running

```
Declaration   Console ×   Coverage   Test Sessions   Coverage   JUnit
<terminated> TestRunner_8 [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 6:13:14 PM – 6:13:19 PM) [pid: 28928]
        at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
        at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
        at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
        at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
        at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
        at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
        at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
        at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

E. *Snippet* Browser saat Testing

Declaration · **Console** · Coverage · Test Sessions · Coverage · JUnit ×

Finished after 0.557 seconds

| Runs: 5/5 (5 skipped) | Errors: 2 | Failures: 0 |

Scenario: Test page explore

Given open chrome and start application - Scenario: Test page explore

When I enter valid username and valid password - Scenario: Test page explore

Then I can login successfully - Scenario: Test page explore

Then I click profile - Scenario: Test page explore

Then I click explore - Scenario: Test page explore

8. Fungsi H

A. Scenario

```
1   Scenario: Open Repository
2       Given open chrome and start application
3       When I enter valid username and valid password
4       Then I can login successfully
5       Then I open story
```

B. Step Definition

```
12 public class SmokeTest {
13     WebDriver driver;
14     JavascriptExecutor js;
15
16⊖     @Given("^open chrome and start application$")
17     public void open_chrome_and_start_application() throws Throwable {
18         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
19
20         driver = new ChromeDriver();
21         js = (JavascriptExecutor) driver;
22         driver.manage().window().maximize();
23         driver.get("https://www.instagram.com/");
24
25     }
26
27⊖     @When("I enter valid username and valid password")
28     public void i_enter_valid_username_and_valid_password() {
29         driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
30         driver.findElement(By.id("password")).sendKeys("antioil");
31     }
32
33⊖     @Then("I can login successfully")
34     public void i_can_login_successfully() {
35         driver.findElement(By.name("commit")).click();
36     }
37
38⊖     @Then("I click story$")
39     public void i_click_story() throws InterruptedException {
40         driver.findElement(By.xpath("//*[@id=\"mount_0_0_TY\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[2]/section/main/d:
41         Thread.sleep(1000);
42     }
43 }
```

C. Test Runner

```
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="Feature_9", glue="stepDefenition_9") // Folder penyimpanan feature file
9
10  public class TestRunner_9 {
11
12  }
13  |
```
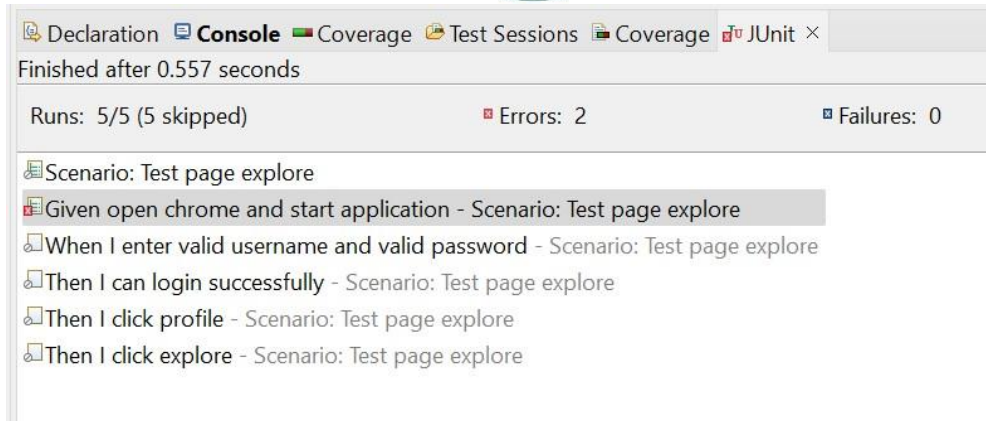
D. *Console* setelah Running

```
at cucumber.runtime.junit.FeatureRunner.runChild(FeatureRunner.java:18)
at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
at cucumber.runtime.junit.FeatureRunner.run(FeatureRunner.java:70)
at cucumber.api.junit.Cucumber.runChild(Cucumber.java:77)
at cucumber.api.junit.Cucumber.runChild(Cucumber.java:37)
at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

E. *Snippet* Browser saat Testing

9. Fungsi I

A. Scenario


```
1  Feature: Test for INSTAGRAM (instagram.com)
2  Scenario: Test edit Profile
3     Given open chrome and start application
4     When I enter valid email or number phone and valid password
5     Then I can login successfully
6     Then I click dropdown menu
7     Then I choose setting
8     Then I click switch account
9     Then I click button login
```

B. Step Definition


```java
12  public class SmokeTest {
13      WebDriver driver;
14      JavascriptExecutor js;
15
16      @Given("^open chrome and start application$")
17      public void open_chrome_and_start_application() throws Throwable {
18          System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
19
20          driver = new ChromeDriver();
21          js = (JavascriptExecutor) driver;
22          driver.manage().window().maximize();
23          driver.get("https://github.com/login");
24
25      }
26
27      @When("I enter valid username and valid password")
28      public void i_enter_valid_username_and_valid_password() {
29          driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
30          driver.findElement(By.id("password")).sendKeys("antioil");
31      }
32
33      @Then("I can login successfully")
34      public void i_can_login_successfully() {
35          driver.findElement(By.name("commit")).click();
36      }
37
38      @Then("I click dropdown menu")
39      public void i_click_dropdown_menu() throws InterruptedException {
40          driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[1]/div/div/div/div/div/div
41          Thread.sleep(1000);
42      }
43
44      @Then("I choose switch account")
45      public void i_choose_switch_account() {
46          js.executeScript("document.querySelector(\"#mount_0_0_TY > div > div > div.x9f619.x1n2onr6.x1ja2u2z > div > div > div > di
47      }
48
49      @Then("I click button login$")
50      public void i_click_button_login() {
51          driver.findElement(By.xpath("//*[@id=\"loginForm\"]/div[1]/div[4]/button")).click();
52      }
```

C. Test Runner

```
1  package runner;
2  import org.junit.runner.RunWith;
3
4  import cucumber.api.junit.Cucumber;
5
6  @RunWith(Cucumber.class)
7  @Cucumber.Options(features="Feature_10", glue="stepDefenition_10") // Folder penyimpanan feature file
8
9  public class TestRunner_10 {
10
11  }
12
```

D. *Console* setelah Running

Declaration | Console × | Coverage | Test Sessions | Coverage | JUnit

```
<terminated> TestRunner_10 [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 6:59:18 PM – 6:59:23 PM) [pid: 29872]
        at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
        at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
        at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
        at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
        at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
        at cucumber.runtime.junit.FeatureRunner.run(FeatureRunner.java:70)
        at cucumber.api.junit.Cucumber.runChild(Cucumber.java:77)
        at cucumber.api.junit.Cucumber.runChild(Cucumber.java:37)
        at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
        at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
        at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
        at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
        at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
        at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
        at cucumber.api.junit.Cucumber.run(Cucumber.java:82)
        at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:93)
        at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
        at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
```

E. *Snippet* Browser saat Testing

Declaration | Console | Coverage | Test Sessions | Coverage | JUnit ×

Finished after 0.406 seconds

| Runs: 7/7 (7 skipped) | Errors: 2 | Failures: 0 |

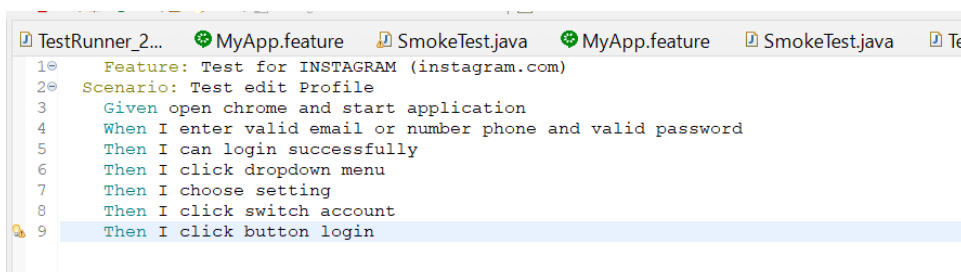- Given open chrome and start application - Scenario: Test edit Profile
- When I enter valid email or number phone and valid password - Scenario: Test edit Profile
- Then I can login successfully - Scenario: Test edit Profile
- Then I click dropdown menu - Scenario: Test edit Profile
- Then I choose setting - Scenario: Test edit Profile
- Then I click switch account - Scenario: Test edit Profile
- Then I click button login - Scenario: Test edit Profile

10. Fungsi J

a. Scenario

```
1  Feature: Test for INSTAGRAM (instagram.com)
2
3  Scenario: Klik search
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 found people
```

B. Step Definition

```
1   package stepDefenition_3;
2
3   import org.openqa.selenium.JavascriptExecutor;
4   import org.openqa.selenium.WebDriver;
5   import org.openqa.selenium.By;
6   import org.openqa.selenium.WebDriver;
7   import org.openqa.selenium.chrome.ChromeDriver;
8   import cucumber.api.PendingException;
9   import cucumber.api.java.en.Given;
10  import cucumber.api.java.en.Then;
11  import cucumber.api.java.en.When;
12
13  public class SmokeTest {
14  WebDriver driver;
15
16      @Given("open chrome and start application")
17      public void open_chrome_and_start_application() {
18          System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver_win32\\chromedriver.exe");
19
20          driver = new ChromeDriver();
21          driver.manage().window().maximize();
22          driver.get("https://www.instagram.com/");
23      }
24
25      @When("I enter valid username and valid password")
26      public void i_enter_valid_username_and_valid_password() {
27          driver.findElement(By.id("login_field")).sendKeys("elsasianturi2020@gmail.com");
28          driver.findElement(By.id("password")).sendKeys("anto11");
29      }
30
31      @Then("^I can login successfully$")
32      public void I_can_login_successfully() throws Throwable {
33          driver.findElement(By.xpath("//*[@id=\"login\"]/div[4]/form/div/div/input[12]")).click();
34      }
35
36      @Then("^I found people$")
37      public void I_found_people() throws Throwable {
38          driver.findElement(By.xpath("//*[@id=\"mount_0_0_Tc\"]/div/div/div[2]/div/div/div/div[1]/div[1]/div[1]/div/div/div/div/div[5]/div/s
39      }
40
41  }
```

C. Test Runner

```
1   package runner;
2   import org.junit.runner.RunWith;
3
4   import cucumber.api.junit.Cucumber;
5
6   @RunWith(Cucumber.class)
7   @Cucumber.Options(features="Features", glue="stepDefenition") // Folder penyimpanan feature file
8
9   public class TestRunner {
10
11  }
12
```

D. *Console* setelah Running

| Declaration | Console × | Coverage | Test Sessions | Coverage | JUnit |

`<terminated> TestRunner_3 [JUnit] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe  (Apr 15, 2023, 11:27:15 AM – 11:27:16 AM) [pid: 16436]`

E. *Snippet* Browser saat Testing

| Declaration | Console | Coverage | Test Sessions | Coverage | JUnit × |

Finished after 0.007 seconds

| Runs: 1/1 | Errors: 1 | Failures: 0 |

initializationError - runner.TestRunner_3