

11S3112 | Pengujian dan Penjaminan Mutu Perangkat Lunak

Laporan Proyek

Pengujian Aplikasi Web Nama Aplikasi Web

Oleh

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1. Pendahuluan

1.1 BDD

Berikan penjelasan tentang BDD dan *Tools* yang digunakan.

1.2 ATDD

Berikan penjelasan tentang ATDD dan *Tools* yang digunakan.

Metode ATDD (Acceptance Test Driven Development) merupakan sebuah pengujian yang dilakukan untuk menentukan apakah persyaratan spesifikasi sebuah requirement terpenuhi. ATDD dapat dikatakan sebagai praktik kolaborasi antara *user*, *tester* dan *developer* dalam menentukan kriteria dari sebuah produk yang dibangun dengan tujuan semua *stakeholder* dapat mengerti tentang apa yang perlu dilakukan dan dikerjakan dalam pembangunan produk atau mengerti bagaimana proses berjalannya sebuah aplikasi atau produk dibangun.

Tools yang biasa digunakan yaitu : Robot framework, Selenium Library, Eclipse.

1.3 Category Partition

Berikan penjelasan tentang *test case generation* menggunakan Category Partition. Jelaskan tahap demi tahap.

Test case generator, program ini digunakan untuk men-generatetest case secara Random sebanyak 6.000 test cases. Test cases di-generate berdasarkan 10 kategori yang telah disebutkan pada bab2. Setiap kategori di-generate untuk memenuhi kondisi lulus, dipertimbangkan dan tidak lulus. Setiap test case yang di-generate terdapat kemungkinan beberapa kategori tidak memiliki nilai atau kosong.

2. Implementasi Pengujian

2.1 Pembentukan Test Cases

Uraikan pembentukan test case untuk setiap fungsi mengikuti tahapan yang telah dijelaskan sebelumnya.

2.1.1 Fungsi Login

- Categories and Choices

Username	Email	Valid
		Invalid
Mobile Number	Valid	
		Invalid

Password	Valid
	Invalid

- Constraints

Tidak ada.

- Test Frame

No	Username	Password
1	Email Valid	Password Valid
2	Email Valid	Password Invalid
3	Email Invalid	Password Valid
4	Email Invalid	Password Invalid
5	Email Kosong	Password Kosong

- Test Cases yang mengacu kepada Test Frame

No	Username	Password
1	raviolidonotsteal1890@protonmail.com	Ravioli1!
2	raviolidonotsteal1890@protonmail.com	Ssassaaw
3	raviolidonotsteal1890.@com	Ravioli1!
4	raviolidonotsteal1890.@com	Ssassaaw
5	[Kosong]	[Kosong]

2.1.2 Fungsi Change Password

- Categories and Choices

Password	Valid
	Invalid

New Password	Valid
	Invalid

Confirm Password	Valid
	Invalid

- Constraints

Tidak ada.

- Test Frame

No	Password	New Password	Confirm Password
1	Password Valid	New Password Valid	Confirm Password Valid
2	Password Valid	New Password Invalid	Confirm Password Valid
3	Password Valid	New Password Valid	Confirm Password Invalid
4	Password Valid	New Password Kosong	Confirm Password Valid
5	Password Invalid	New Password Valid	Confirm Password Valid

- Test Cases yang mengacu kepada Test Frame

No	Password	New Password	Confirm Password
1	Ravioli1!	RRAA	RRAA
2	Ravioli1!	RRAADDDA	RRAA
3	Ravioli1!	RRAA	RRAADDDA
4	Ravioli1!		RRAA
5	Ravioli1!aaa	RRAA	RRAA

2.1.3 Fungsi Change Notification Mail

Username	Email	Valid
		Invalid

Password	Valid
	Invalid

- Constraints

Tidak ada.

- Test Frame

No	Email	Password
1	Email Valid	Password Valid
2	Email Valid	Password Invalid
3	Email Invalid	Password Valid
4	Email Invalid	Password Invalid
5	Email Kosong	Password Kosong

- Test Cases yang mengacu kepada Test Frame

No	Username	Password
1	arcnum71999@gmail.com	Ravioli1!
2	arcnum71999@gmail.com	Ssassaaw
3	arcnum71999	Ravioli1!
4	arcnum71999	Ssassaaw
5	[Kosong]	[Kosong]

2.1.4 Fungsi Enable Two Password Mode

- Categories and Choices

Password	Valid
	Invalid

New Password	Valid
	Invalid

Confirm Password	Valid
	Invalid

- Constraints

Tidak ada.

- Test Frame

No	Password	New Password	Confirm Password	New Mail Password	Confirm Mail Password
1	Password Valid	New Password Valid	Confirm Password Valid	New Mail Password Valid	Confirm Mail Password Valid
2	Password Valid	New Password Valid	Confirm Password Valid	New Mail Password Valid	Confirm Mail Password Invalid
3	Password Valid	New Password Valid	Confirm Password Invalid	New Mail Password Valid	Confirm Mail Password Valid
4	Password Valid	New Password Kosong	Confirm Password Kosong	New Mail Password Valid	Confirm Mail Password Valid
5	Password Invalid	New Password Valid	Confirm Password Valid	New Mail Password Kosong	Confirm Mail Password Kosong

- Test Cases yang mengacu kepada Test Frame

No	Password	New Password	Confirm Password	New Mail Password	Confirm Mail Password
1	Ravioli1!	RRAA	RRAA	AARR	AARR
2	Ravioli1!	RRAA	RRAA	AARR	ASDF
3	Ravioli1!	RRAA	ASDF	AARR	AARR
4	Ravioli1!			AARR	AARR
5	Ravioli1!aaa	RRAA	RRAA		

2.1.5 Fungsi Change Mail Password

Password	Valid
	Invalid

New Mail Password	Valid
	Invalid

Confirm Mail Password	Valid
	Invalid

- Constraints

Tidak ada.

- Test Frame

No	Password	New Mail Password	Confirm Mail Password
1	Password Valid	New Mail Password Valid	Confirm Mail Password Valid
2	Password Valid	New Mail Password Valid	Confirm Mail Password Invalid
3	Password Valid	New Mail Password Kosong	Confirm Mail Password Valid
4	Password Valid	New Mail Password Valid1	Confirm Mail Password Kosong
5	Password Valid	New Mail Password Kosong	Confirm Mail Password Kosong

- Test Cases yang mengacu kepada Test Frame

No	Password	New Mail Password	Confirm Mail Password
1	Ravioli1!	AARR	AARR
2	Ravioli1!	AARR	ASDF
3	Ravioli1!		AARR
4	Ravioli1!	AARR	
5	Ravioli1!		

2.1.6 Fungsi Delete Mail

2.1.7 Fungsi Label Mail

2.1.8 Fungsi Move Mail

2.1.9 Fungsi Reply Mail

2.1.10 Fungsi Search Mail

2.2 Pengujian Menggunakan Cucumber

2.2.1 Fungsi Login

- Scenario

```
@tag  
Feature: Test Login  
  @tag1  
  Scenario: Login  
    Given I open website  
    When I input login credential  
    Then I can login
```

- Step Definition

```
1 package login;  
2  
3+ import org.openqa.selenium.By;□  
10  
11 public class NewLogin {  
12     WebDriver driver;  
13  
14+     @Given("^I open website$")  
15     public void I_open_website() throws Throwable {  
16         }  
17     }  
18  
19+     @When("^I input login credential$")  
20     public void I_input_login_credential()throws Throwable {  
21         }  
22     }  
23  
24+     @Then("^I can login$")  
25     public void I_can_login() throws Throwable {  
26         }  
27     }  
28 }  
29
```

- Test Runner

```
1 package runner;  
2+ import org.junit.runner.RunWith;□  
4  
5 @RunWith(Cucumber.class)  
6 @Cucumber.Options(features="Login", glue="login")  
7 public class TestLogin {  
8  
9 }
```

- a. Test Case 1 (Email Valid, Password Valid)

- Step Defenition

```

public class NewLogin {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver","C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

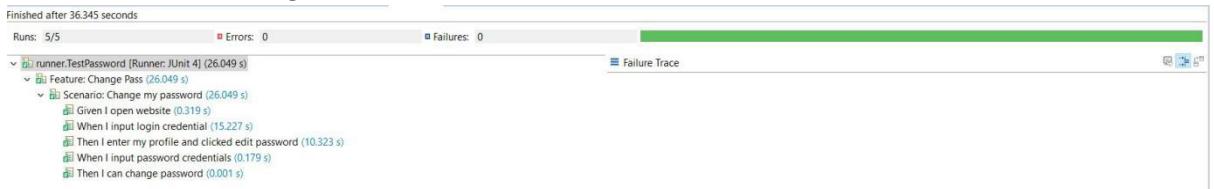
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    }

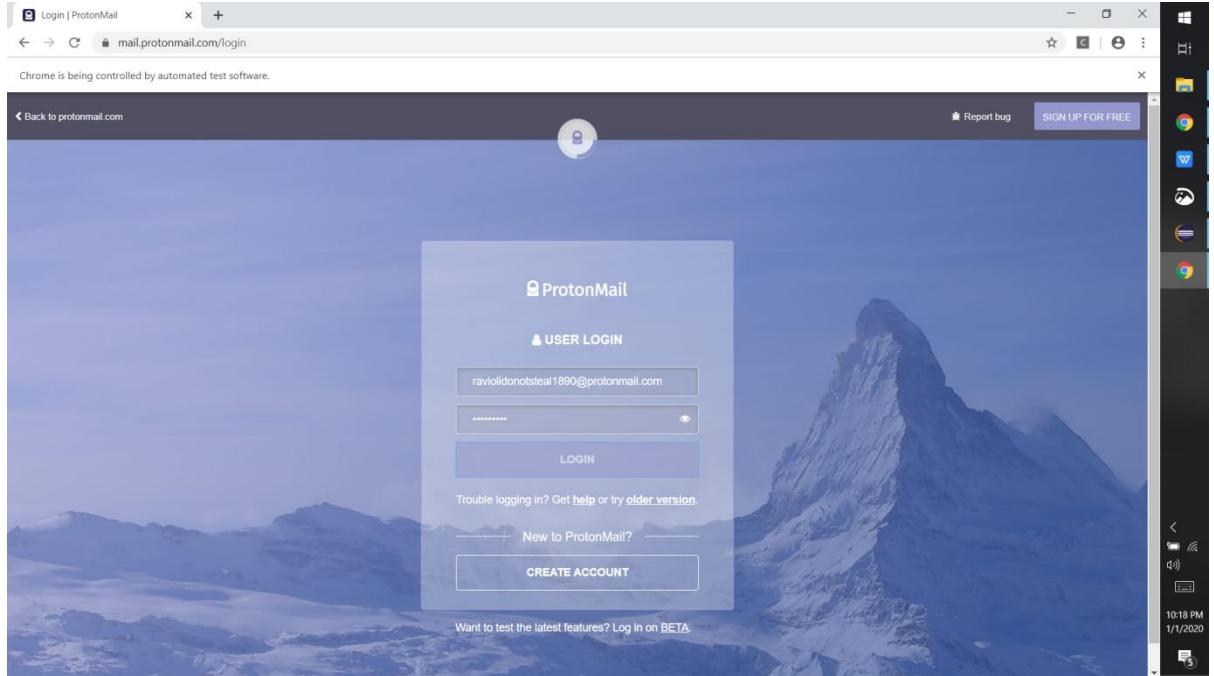
    @Then("^I can login$")
    public void I_can_login() throws Throwable {
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }
}

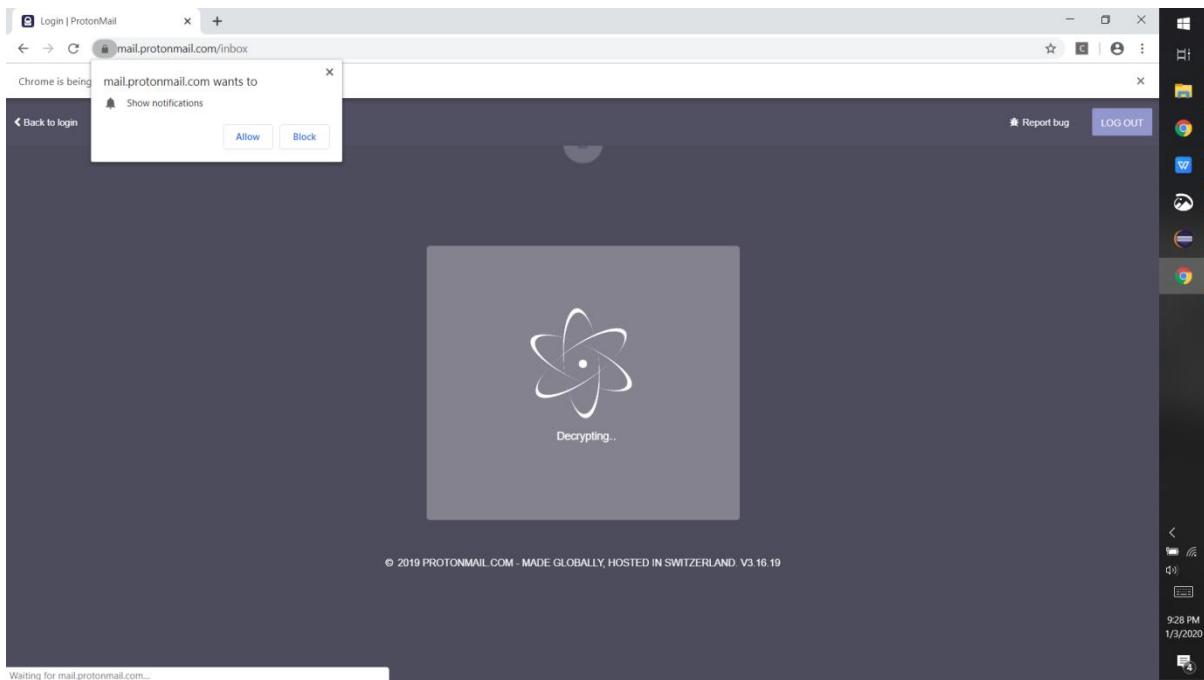
```

- Console setelah Running



- Snippet Browser saat Testing





b. Test Case 2 (Email Valid, Password Invalid)

- Step Definition

```

package login;

import org.openqa.selenium.By;

public class NewLogin {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

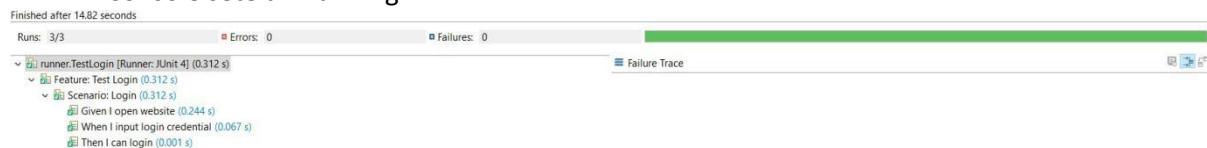
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ssassaaw");
    }

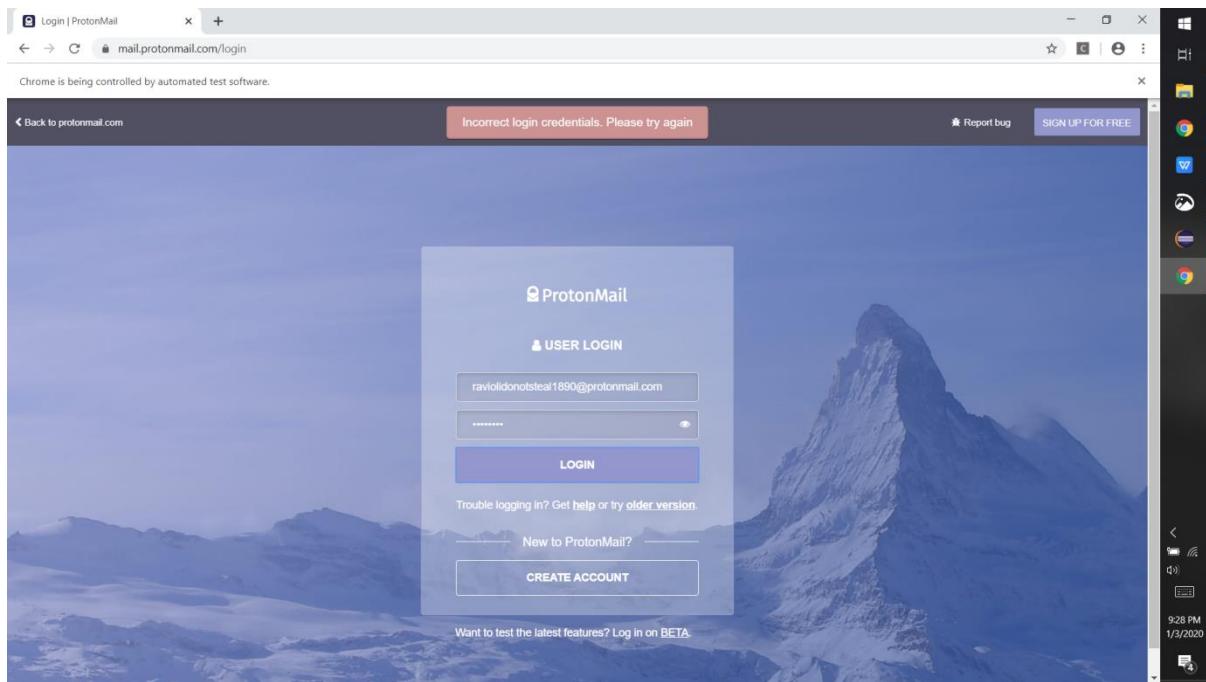
    @Then("^I can login$")
    public void I_can_login() throws Throwable {
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }
}

```

- Console setelah Running



- Snippet Browser saat Testing



c. Test Case 3 (Email Invalid, Password Valid)

- Step Definition

```

package login;

import org.openqa.selenium.By;

public class NewLogin {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!dd");
    }

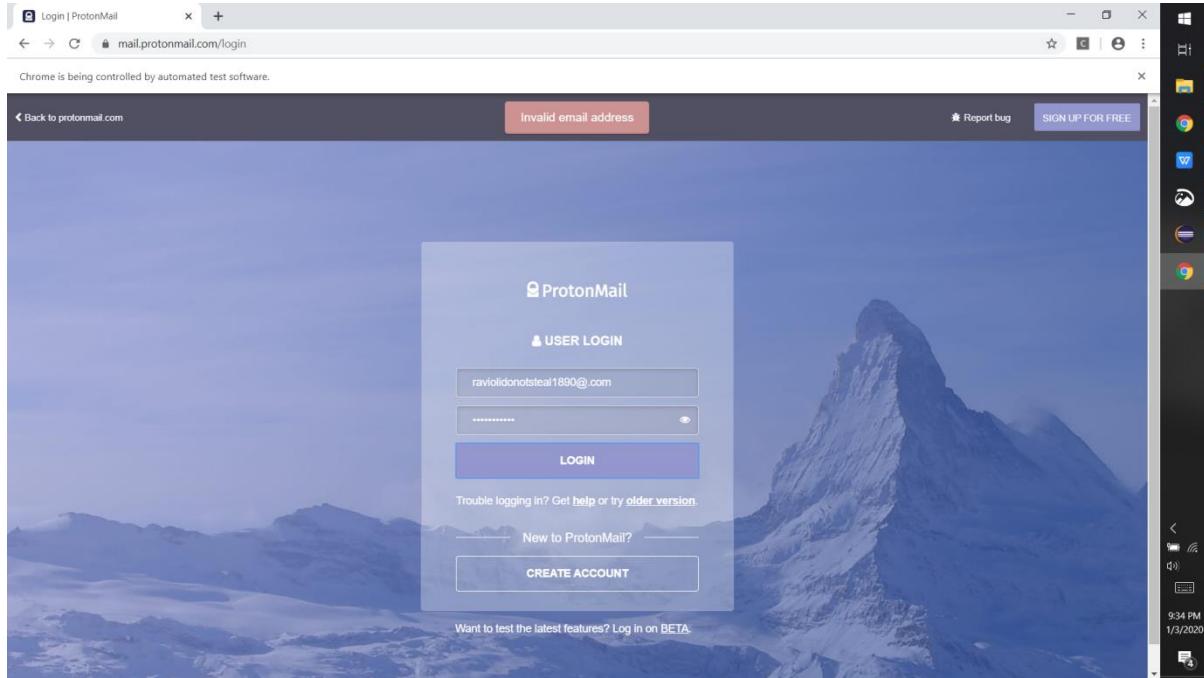
    @Then("^I can login$")
    public void I_can_login() throws Throwable {
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }
}

```

- Console setelah Running

```
Finished after 11.788 seconds
Runs: 3/3 Errors: 0 Failures: 0
runner.TestLogin [Runner: JUnit 4] (0.291 s)
  Feature: Test Login (0.291 s)
    Scenario: Login (0.291 s)
      Given I open website (0.025 s)
      When I input login credential (0.064 s)
      Then I can login (0.002 s)
```

- Snippet Browser saat Testing

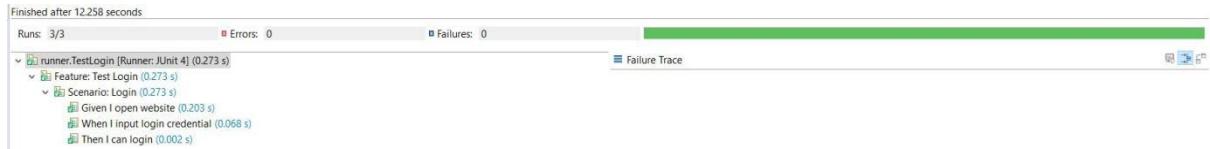


d. Test Case 4 (Email Invalid, Password Invalid)

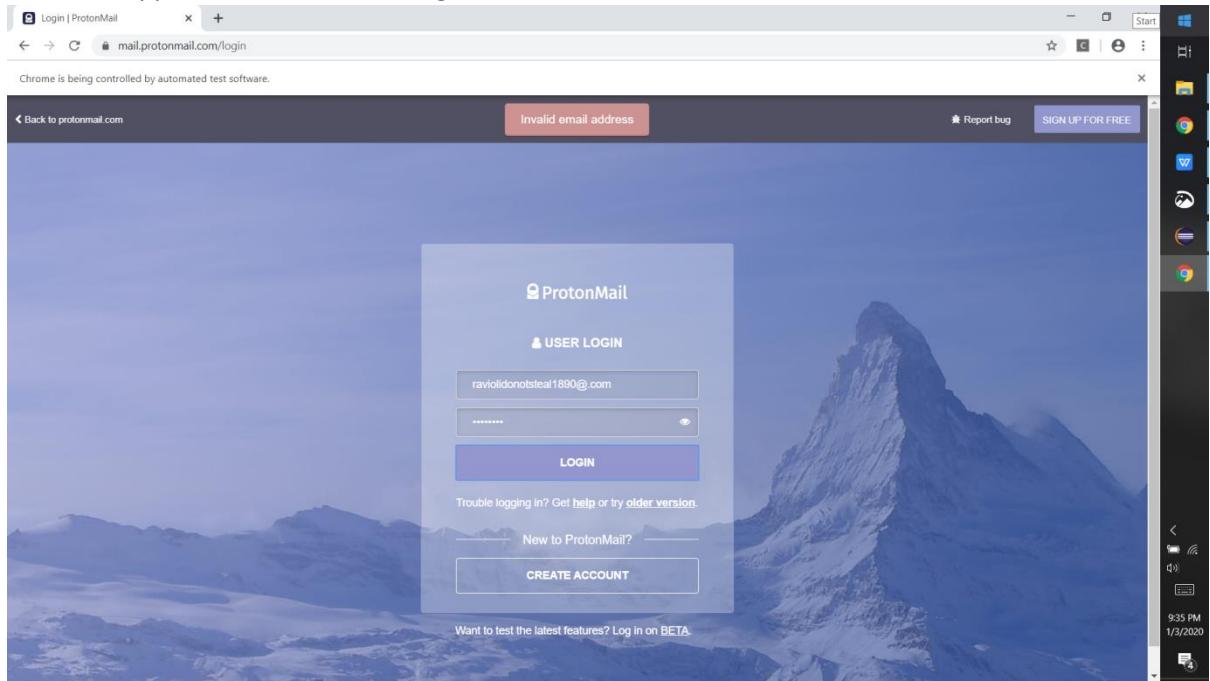
- Step Defenition

```
package login;
import org.openqa.selenium.By;
public class NewLogin {
    WebDriver driver;
    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver","C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }
    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id='\"username\"]")).sendKeys("ravilidonotsteal1890@.com");
        driver.findElement(By.xpath("//*[@id='\"password\"]")).sendKeys("SSassaaw");
    }
    @Then("^I can login$")
    public void I_can_login() throws Throwable {
        driver.findElement(By.xpath("//*[@id='\"login_btn\"]")).click();
    }
}
```

- Console setelah Running



- Snippet Browser saat Testing



e. Test Case 5 (Email Kosong, Password Kosong)

- Step Definition

```
package login;

import org.openqa.selenium.By;

public class NewLogin {
    WebDriver driver;

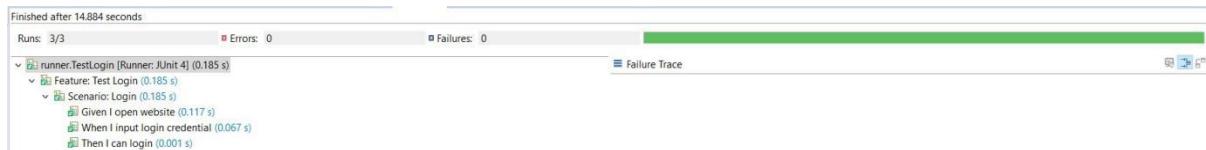
    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver","C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

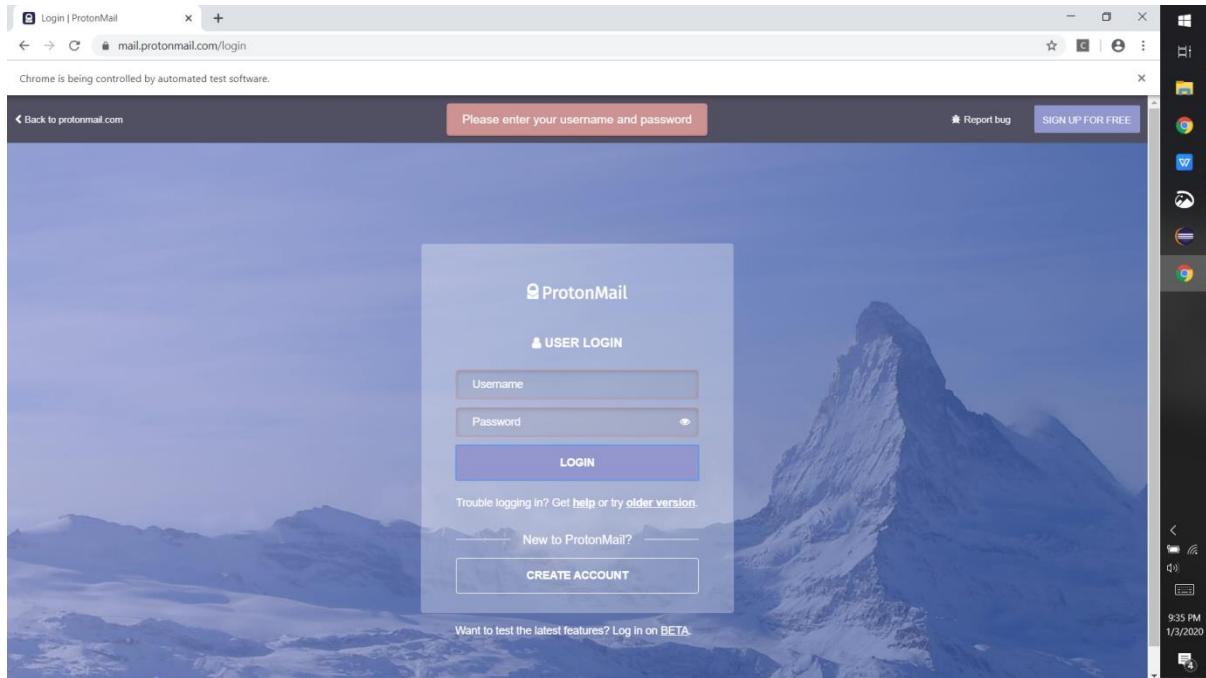
    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("");
    }

    @Then("^I can login$")
    public void I_can_login() throws Throwable {
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }
}
```

- Console setelah Running



- Snippet Browser saat Testing



2.2.2 Fungsi Change Password

- Scenario

```
@tag
Feature: Change Pass
  @tag1
  Scenario: Change my password
    Given I open website
    When I input login credential
    Then I enter my profile and clicked edit password
    When I input password credentials
    Then I can change password
```

- Step Definition

```

1 package changepass;
2
3+import org.openqa.selenium.chrome.ChromeDriver;[]
11
12 public class ChangePasswordTest1 {
13 WebDriver driver;
14
15@Given("^I open website$")
16 public void I_open_website() throws Throwable {
17
18 }
19
20@When("^I input login credential$")
21 public void I_input_login_credential()throws Throwable {
22
23 }
24
25
26@Then("^I enter my profile and clicked edit password$")
27 public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
28
29 }
30
31@When("^I input password credentials$")
32 public void I_input_password_credentials() throws Throwable {
33
34 }
35
36
37@Then("^I can change password$")
38 public void I_can_change_password() throws Throwable {
39
40 }
41 }
```

- Test Runner

```

1 package runner;
2
3+import org.junit.runner.RunWith;[]
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="ChangePass", glue="changepass")
8 public class TestPassword {
9
10 }
```

f. Test Case 1 (Password Valid, New Password Valid, Confirm Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credential$")
public void I_input_login_credential() throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();
}

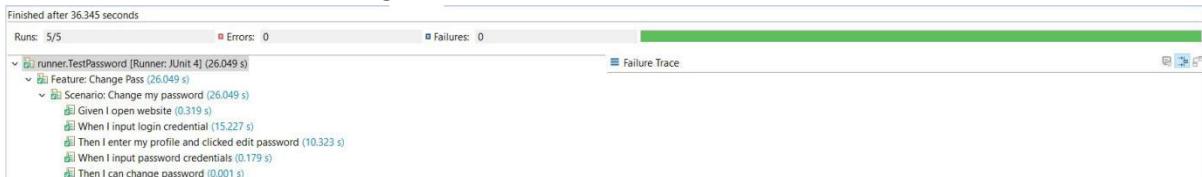
@Then("^I enter my profile and clicked edit password$")
public void I_enter_my_profile_and_clicked_edit_password() throws Throwable {
    Thread.sleep(10000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[2]/section[3]/p[1]/button")).click();
}

@When("^I input password credentials$")
public void I_input_password_credentials() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!aaa");
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='newPassword']")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("RRRA");
}

@Then("^I can change password$")
public void I_can_change_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

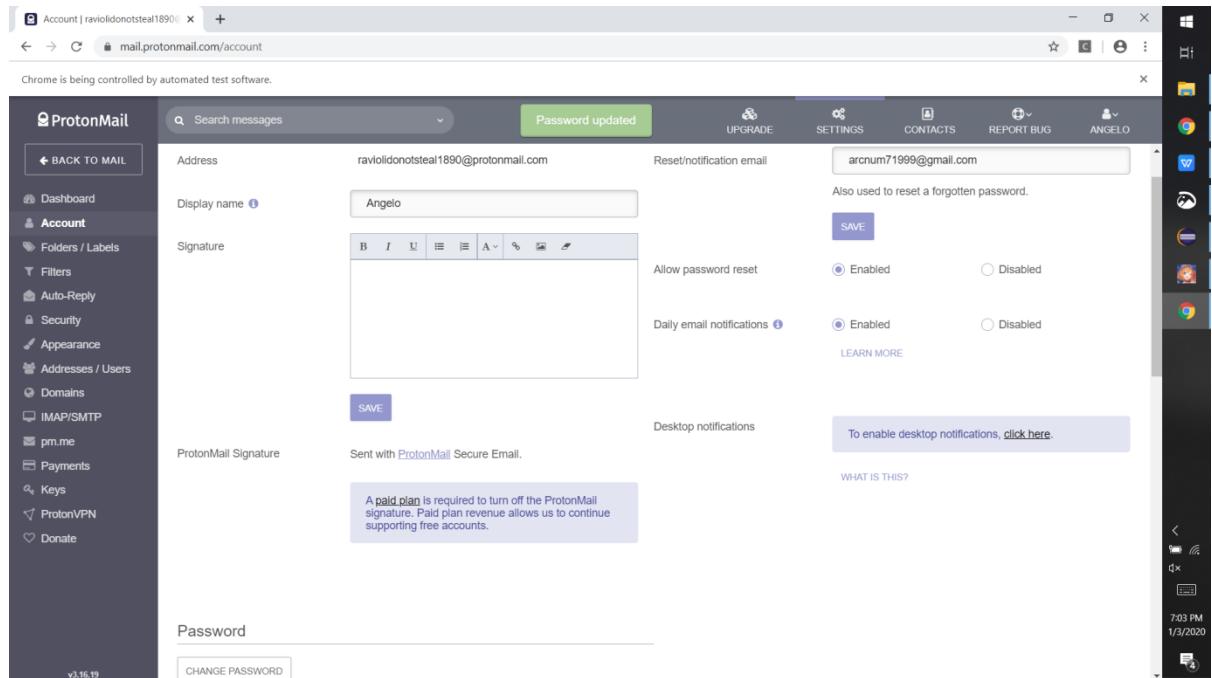
The image contains two screenshots of the ProtonMail account settings interface, specifically the 'Password' section.

Screenshot 1: Sign in again to continue

This screenshot shows a modal dialog titled "Sign in again to continue". It contains a single input field labeled "Enter your current password:" with a placeholder of "*****". Below the input field are two buttons: "CANCEL" and "SUBMIT". The background of the main page shows the account settings sidebar with "Address" set to "raviloddio" and "Display name" set to "Angelo". On the right side, there are sections for "Desktop notifications" and "WHAT IS THIS?". A note at the bottom states: "A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts."

Screenshot 2: Change Password

This screenshot shows a modal dialog titled "Change Password". It has two input fields: "New Password" and "Confirm Password", both containing "*****". Below the fields is a note: "Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages." At the bottom are "CANCEL" and "SAVE" buttons. The background shows the same account settings sidebar and notes about desktop notifications and what is this.



g. Test Case 2 (Password Valid, New Password Invalid, Confirm Password Valid)

- Step Definition

```

@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credential()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I enter my profile and clicked edit password$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(10000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[3]/p[1]/button")).click();
}

@When("^I input password credentials$")
public void I_input_password_credentials() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

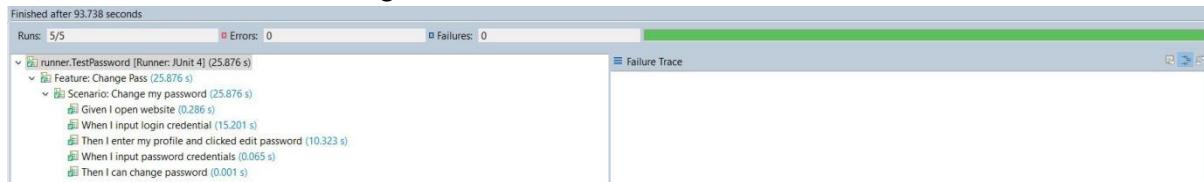
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("RRRADASS");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRA");

}

@Then("^I can change password$")
public void I_can_change_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}

```

- Console setelah Running



- Snippet Browser saat Testing

Account | ravioldonotsteal1890 | mail.protonmail.com/account

Chrome is being controlled by automated test software.

Sign in again to continue

Address: ravioldonotsteal1890 | Display name: Angelo | Signature: B I

Enter your current password: UPGRADE

SAVE CANCEL SUBMIT

ProtonMail Signature: Sent with ProtonMail Secure Email.

A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts.

Desktop notifications: To enable desktop notifications, [click here](#).

WHAT IS THIS?

Change Password

New Password: UPGRADE

Confirm Password: UPGRADE

Passwords do not match

* Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
 * Save your password somewhere safe. Click on  icon to confirm you have typed your password correctly.
 * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.

SAVE CANCEL

ProtonMail Signature: A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts.

WHAT IS THIS?

h. Test Case 3 (Password Valid, New Password Valid, Confirm Password Invalid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credential$")
public void I_input_login_credential()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

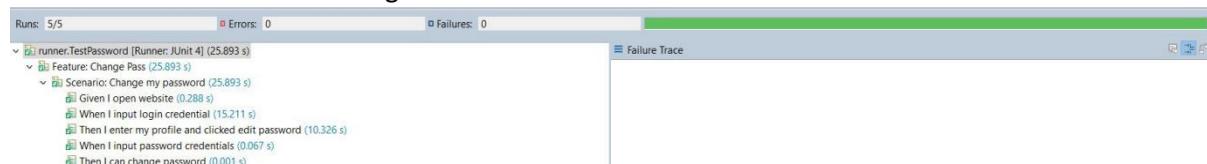
@Then("^I enter my profile and clicked edit password$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(10000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]//div/div[2]/section[3]/p[1]/button")).click();
}

@When("^I input password credentials$")
public void I_input_password_credentials() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/form/div[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRADASS");
}

@Then("^I can change password$")
public void I_can_change_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

The image consists of two side-by-side screenshots of the ProtonMail web application. Both screenshots show a 'Sign in again to continue' dialog box in the foreground, which contains a password input field and a 'SUBMIT' button.

Screenshot 1 (Top): Sign in again to continue

- Dialog Content:** 'Sign in again to continue'. Below it, a placeholder text says 'Enter your current password:' followed by a redacted password field. At the bottom are 'CANCEL' and 'SUBMIT' buttons.
- Background (Left): Account Settings**
 - Address: ravioldo
 - Display name: Angelo
 - Signature: B I
 - Buttons: SAVE, UPGRADE
- Background (Right): Desktop Notifications**
 - Text: 'Also used to reset a forgotten password.'
 - Buttons: 'Enabled' (radio button selected), 'Disabled'
 - Text: 'LEARN MORE'
 - Text: 'To enable desktop notifications, [click here](#)'
 - Text: 'WHAT IS THIS?'

Screenshot 2 (Bottom): Change Password

- Dialog Content:** 'Change Password'. It has two input fields: 'New Password' and 'Confirm Password', both containing redacted text. Below them is an error message: 'Passwords do not match'. At the bottom are 'CANCEL' and 'SAVE' buttons.
- Background (Left): Account Settings**
 - Address: ravioldo
 - Display name: Angelo
 - Signature: B I
 - Buttons: SAVE, UPGRADE
- Background (Right): Desktop Notifications**
 - Text: 'Also used to reset a forgotten password.'
 - Buttons: 'Enabled' (radio button selected), 'Disabled'
 - Text: 'LEARN MORE'
 - Text: 'To enable desktop notifications, [click here](#)'
 - Text: 'WHAT IS THIS?'

i. Test Case 4 (Password Valid, New Password Kosong, Confirm Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credential$")
public void I_input_login_credential()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I enter my profile and clicked edit password$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(10000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[3]/p[1]/button")).click();
}

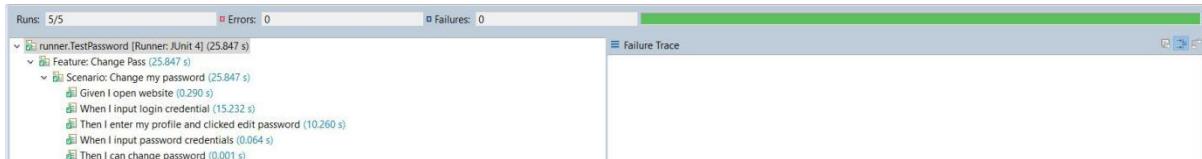
@When("^I input password credentials$")
public void I_input_password_credentials() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRA");
}

@Then("^I can change password$")
public void I_can_change_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

The image consists of two side-by-side screenshots of the ProtonMail web application, version v3.16.19, running in a browser window.

Screenshot 1: Sign in again to continue

A modal dialog box titled "Sign in again to continue" is displayed. It contains a password input field labeled "Enter your current password:" with the placeholder "*****". Below the input field are two buttons: "CANCEL" and "SUBMIT". At the bottom of the dialog is a "SAVE" button. The background shows the ProtonMail account settings page, where the "Signature" section is visible. A message at the bottom of the page states: "A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts."

Screenshot 2: Change Password

A modal dialog box titled "Change Password" is displayed. It contains two input fields: "New Password" and "Confirm Password", both with placeholder text "*****". Below the fields is a "Field required" error message. To the right of the fields is a yellow callout box containing instructions: "Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.", "Save your password somewhere safe. Click on eye icon to confirm you that have typed your password correctly.", and "We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong." At the bottom of the dialog are "CANCEL" and "SAVE" buttons. The background shows the same account settings page as the first screenshot.

j. Test Case 5 (Password Invalid, New Password Valid, Confirm Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credential$")
public void I_input_login_credential()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I enter my profile and clicked edit password$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(1000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[3]/p[1]/button")).click();
}

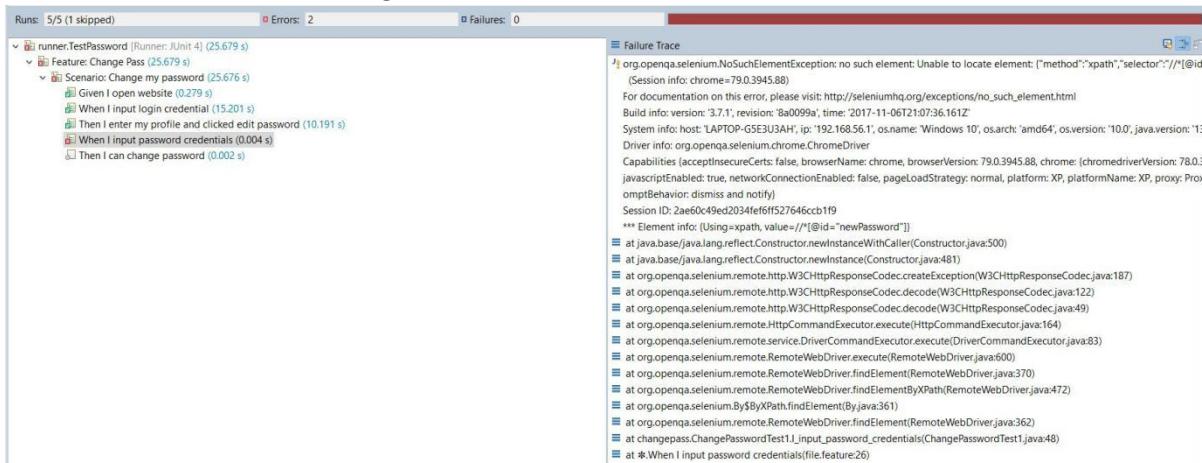
@When("^I input password credentials$")
public void I_input_password_credentials() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!aaa");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRA");

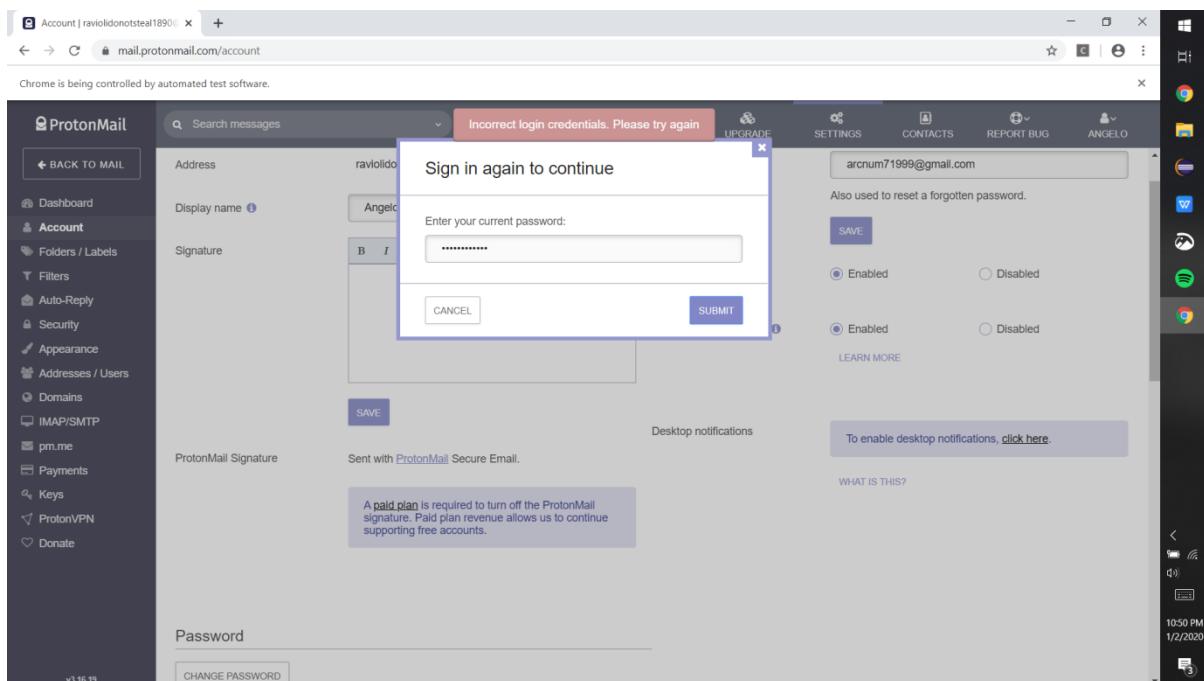
}

@Then("^I can change password$")
public void I_can_change_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing



2.2.3 Fungsi Change Notification Email

- Scenario

@tag

@Feature: Title of your feature

I want to use this template for my feature file

@tag1

@Scenario: Want to change notification mail

Given I open website

When I input login credential

When I clicked settings

Then I input email notification credential

Then I can change notification email

- Step Definition

```
package resetnotifemail;

import org.openqa.selenium.By;

public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        }

    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        }

    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        }

    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential()throws Throwable {
        }

    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        }
}
```

- Test Runner

```
1 package runner;
2 import org.junit.runner.RunWith;
3
4 @RunWith(Cucumber.class)
5 @Cucumber.Options(features="NotifEmail", glue="resetnotifemail")
6 public class TestResetNotifEmail {
7
8
9 }
10
```

k. Test Case 1 (Email Valid, Password Valid)

- Step Definition

```
public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");

    }

    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }

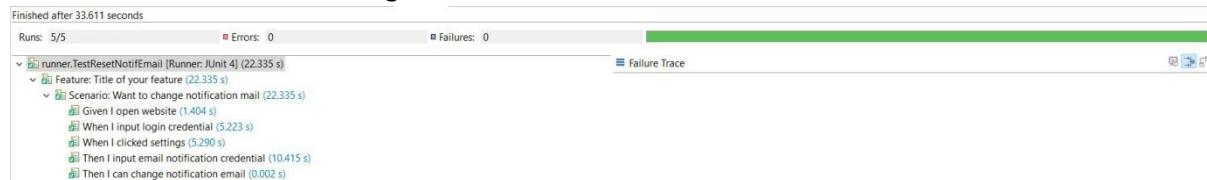
    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    }

    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential()throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).clear();
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).sendKeys("arcnum71999@gmail.com");
    }

    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[1]/section[2]/form/div[2]/button")).click();

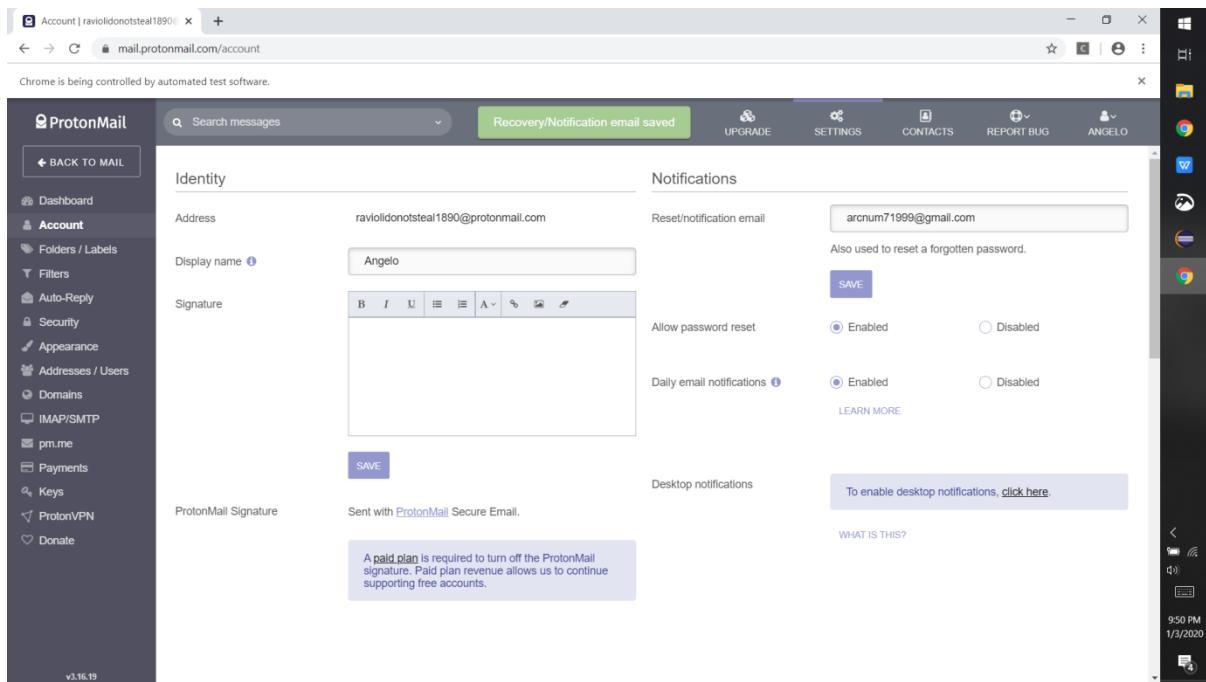
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();
    }
}
```

- Console setelah Running



- Snippet Browser saat Testing

The screenshots show the ProtonMail account settings interface. The top screenshot displays the 'Identity' and 'Notifications' sections. The 'Identity' section contains fields for 'Address' (raviloddonotsteal1890@protonmail.com), 'Display name' (Angelo), and 'Signature'. The 'Notifications' section includes fields for 'Reset/notification email' (arcnum71999@gmail.com) and 'Allow password reset' (Enabled). The bottom screenshot shows the same interface with a modal dialog titled 'Sign in again to continue' overlaid, prompting for the current password.



I. Test Case 2 (Email Valid, Password Invalid)

- Step Definition

```

public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }

    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    }

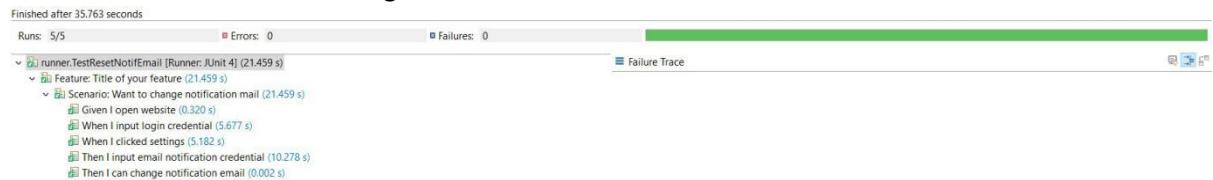
    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).clear();
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).sendKeys("arcnum71999@gmail.com");
    }

    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        driver.findElement(By.xpath("//*[@id='pm_settings']//div/div[1]/section[2]/form/div[2]/button")).click();

        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("SSassaaw");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/form/div[2]/button[2]")).click();
    }
}

```

- Console setelah Running



- Snippet Browser saat Testing

Account | ravioldonotsteal1890@gmail.com

Search messages

UPGRADE SETTINGS CONTACTS REPORT BUG ANGELO

Identity

Address: ravioldonotsteal1890@protonmail.com

Display name: Angelo

Signature:

ProtonMail Signature: Sent with ProtonMail Secure Email.

A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts.

Notifications

Reset/notification email: arcnum71999@gmail.com

Also used to reset a forgotten password.

Allow password reset: Enabled

Daily email notifications: Enabled

Desktop notifications: To enable desktop notifications, click here.

WHAT IS THIS?

SAVE

Account | ravioldonotsteal1890@gmail.com

Search messages

UPGRADE SETTINGS CONTACTS REPORT BUG ANGELO

Identity

Address: ravioldonotsteal1890@gmail.com

Display name: Angelo

Signature:

ProtonMail Signature: Sent with ProtonMail Secure Email.

A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts.

Sign in again to continue

Enter your current password: (redacted)

CANCEL SUBMIT

Notifications

Reset/notification email: arcnum71999@gmail.com

Also used to reset a forgotten password.

Allow password reset: Enabled

Daily email notifications: Enabled

Desktop notifications: To enable desktop notifications, click here.

WHAT IS THIS?

SAVE

m. Test Case 3 (Email Invalid, Password Valid)

- Step Definition

```
public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }

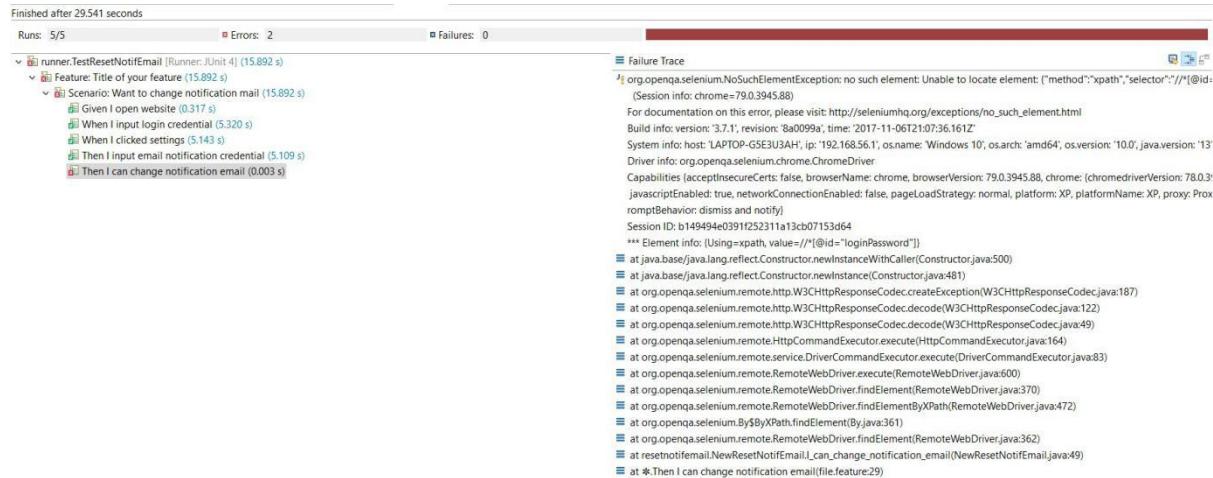
    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    }

    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).clear();
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).sendKeys("arcnum71999");
    }

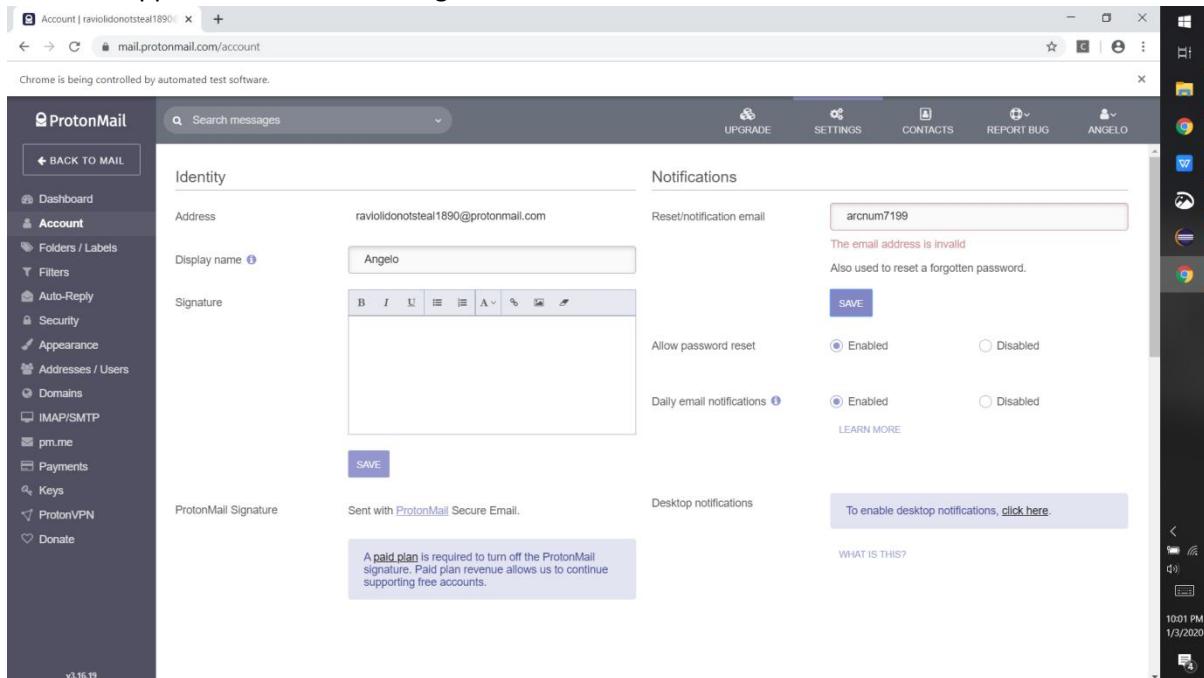
    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        driver.findElement(By.xpath("//*[@id='pm_settings']//div/div[1]/section[2]/form/div[2]/div[2]/button")).click();

        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/form/div[2]/button[2]")).click();
    }
}
```

- Console setelah Running



- Snippet Browser saat Testing



n. Test Case 4 (Email Invalid, Password Invalid)

- Step Definition

```
public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("ravilidolonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli11!");
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }

    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    }

    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).clear();
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).sendKeys("arcnum71999");
    }

    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        driver.findElement(By.xpath("//*[@id='pm_settings']//div[1]/section[2]/form/div[2]/button")).click();

        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("SSassaaw");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/form/div[2]/button")).click();
    }
}
```

- Console setelah Running

```
Finished after 28.068 seconds
Runs: 5/5          Errors: 2          Failures: 0

runner.TestResetNotifyEmail [Runner: JUnit 4] (16.423 s)
  Feature: Title of your feature (16.423 s)
    Scenario: Want to change notification mail (16.423 s)
      Given I open website (0.393 s)
      When I input login credential (5.780 s)
      When I clicked settings (5.148 s)
      Then I input email notification credential (5.097 s)
    * Then I can change notification email (0.005 s)

Failure Trace
java.lang.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//*[@id='arcnum7199']"}
For documentation on this error, please visit: http://seleniumhq.org/exceptions/no_such_element.html
Build info: version: '3.7.1', revision: '8a0099e', time: '2017-11-06T21:07:36.161Z'
System info: host: 'LAPTOP-G5E3U3AH', ip: '192.168.56.17', os.name: 'Windows 10', os.arch: 'amd64', os.version: '10.0', java.version: '13'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 79.0.3945.88, chrome: {chromedriverVersion: 78.0.3945.43, javascriptEnabled: true, networkConnectionEnabled: false, pageLoadStrategy: normal, platform: XP, platformName: XP, proxy: Prox
rompBehavior: dismiss and notify}
Session ID: f80ba0d3f34f7a419107c2d2ebecd07
*** Element info: {Using=xpath,value=//*[@id='arcnum7199']}
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:436)
at resetnotifemail.NewResetNotifyEmail.I_change_notification_email(NewResetNotifyEmail.java:49)
at *Then I can change notification email(file.feature:29)
```

- Snippet Browser saat Testing

The screenshot shows a browser window with the URL mail.protonmail.com/account. The page is titled 'Account | ravioldonotsteal1890'. On the left, there's a sidebar with various account management options like Dashboard, Account, Folders / Labels, Filters, Auto-Reply, Security, Appearance, Addresses / Users, Domains, IMAP/SMTP, pm.me, Payments, Keys, ProtonVPN, and Donate. The main content area is titled 'Identity' and shows the current address as 'ravioldonotsteal1890@protonmail.com'. Below it is a 'Display name' field containing 'Angelo'. Under 'Signature', there's a rich text editor placeholder. On the right, there's a 'Notifications' section. It has fields for 'Reset/notification email' (set to 'arcnum7199'), 'Allow password reset' (radio button selected for 'Enabled'), 'Daily email notifications' (radio button selected for 'Enabled'), and 'Desktop notifications' (with a link to enable them). A note at the bottom of the signature area says 'A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts.' The status bar at the bottom right shows the time as 10:06 PM and the date as 1/3/2020.

o. Test Case 5 (Email Kosong, Password Kosong)

- Step Definition

```
public class NewResetNotifEmail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
        driver.findElement(By.xpath("//*[@id='login_btn']")).click();
    }

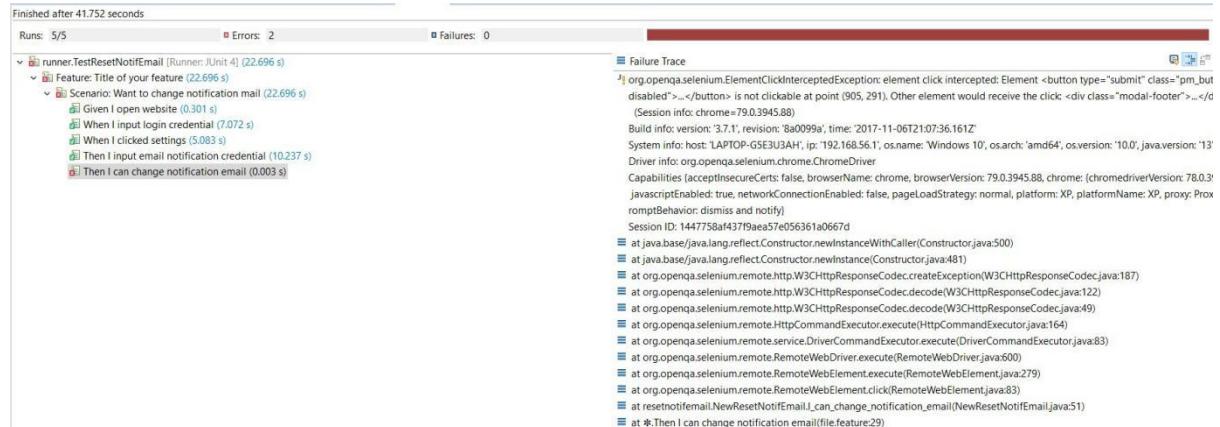
    @When("^I clicked settings$")
    public void I_clicked_settings() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    }

    @Then("^I input email notification credential$")
    public void I_input_email_notification_credential()throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).clear();
        driver.findElement(By.xpath("//*[@id='notificationEmail']")).sendKeys("");
    }

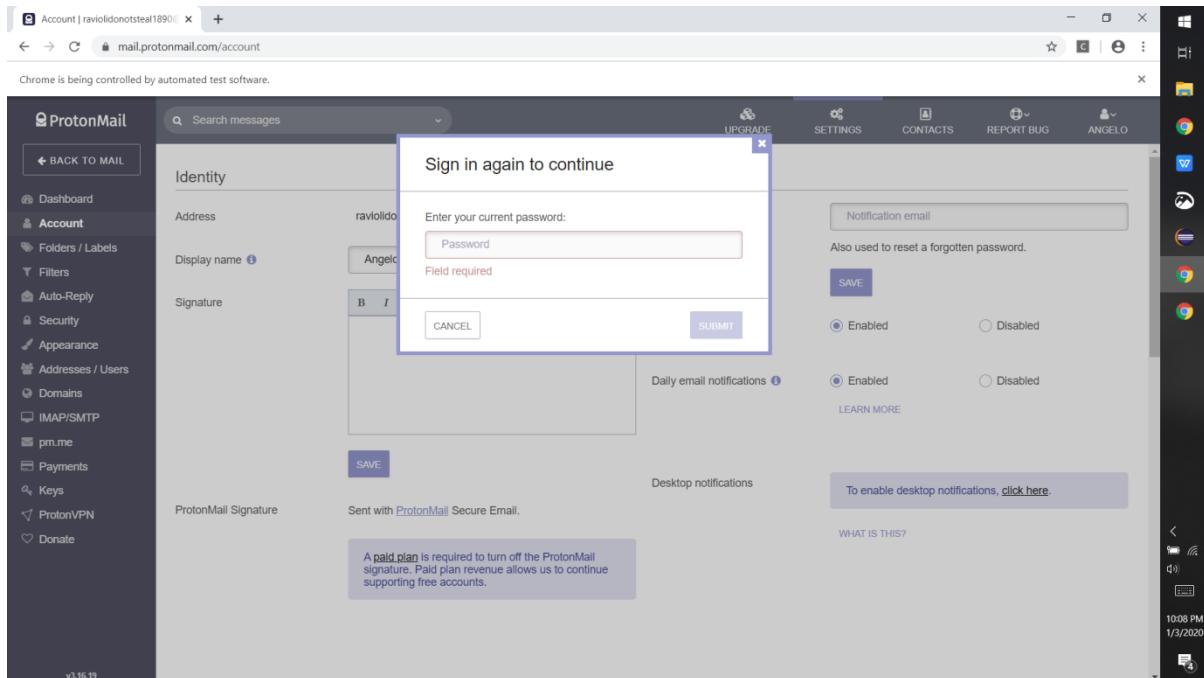
    @Then("^I can change notification email$")
    public void I_can_change_notification_email() throws Throwable {
        driver.findElement(By.xpath("//*[@id='pm_settings']//div[1]/section[2]/form/div[2]/button")).click();

        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/form/div[2]/button[2]")).click();
    }
}
```

- Console setelah Running



- Snippet Browser saat Testing



2.2.4 Fungsi Change Two Way Password

- Scenario

```
@tag
Feature: Title of your feature
  I want to use this template for my feature file

@tag1
Scenario: Title of your scenario
  Given I open website
  When I input login credentials
  Then I go to settings
  And I enable two way password
  Then I can enable two way password
```

- Step Definition

```

1 package enabletwopassword;
2
3 import org.openqa.selenium.By;[]
L1
L2 public class NewTwoPassword {
L3 WebDriver driver;
L4
L5 @Given("^I open website$")
L6 public void I_open_website() throws Throwable {
L7
L8
L9 }
L10
L11 @When("^I input login credentials$")
L12 public void I_input_login_credentials()throws Throwable {
L13
L14 }
L15
L16 @Then("^I go to settings$")
L17 public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
L18
L19 }
L20
L21 @And("^I enable two way password$")
L22 public void I_enable_two_way_password() throws Throwable {
L23
L24 }
L25
L26 @Then("^I can enable two way password$")
L27 public void I_can_enable_two_way_password() throws Throwable {
L28
L29 }
L30
L31
L32
L33
L34
L35
L36
L37
L38
L39
L40
L41 }
```

- Test Runner

```

package runner;

import org.junit.runner.RunWith;[]

@RunWith(Cucumber.class)
@Cucumber.Options(features="EnableTwoPassword", glue="enabletwopassword")
public class TestTwoPassword {

}
```

p. Test Case 1 (Password Valid, New Password Valid, Confirm Password Valid, New Mail Password Valid, Confirm Mail Password Valid)

- Step Definition

```

@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[3]/p[2]/button")).click();
}

@And("^I enable two way password$")
public void I_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

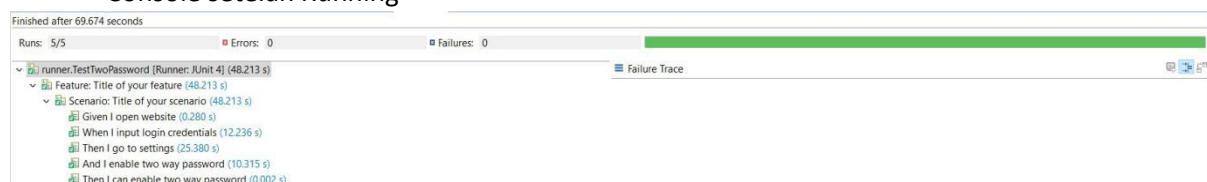
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("AARR");
}

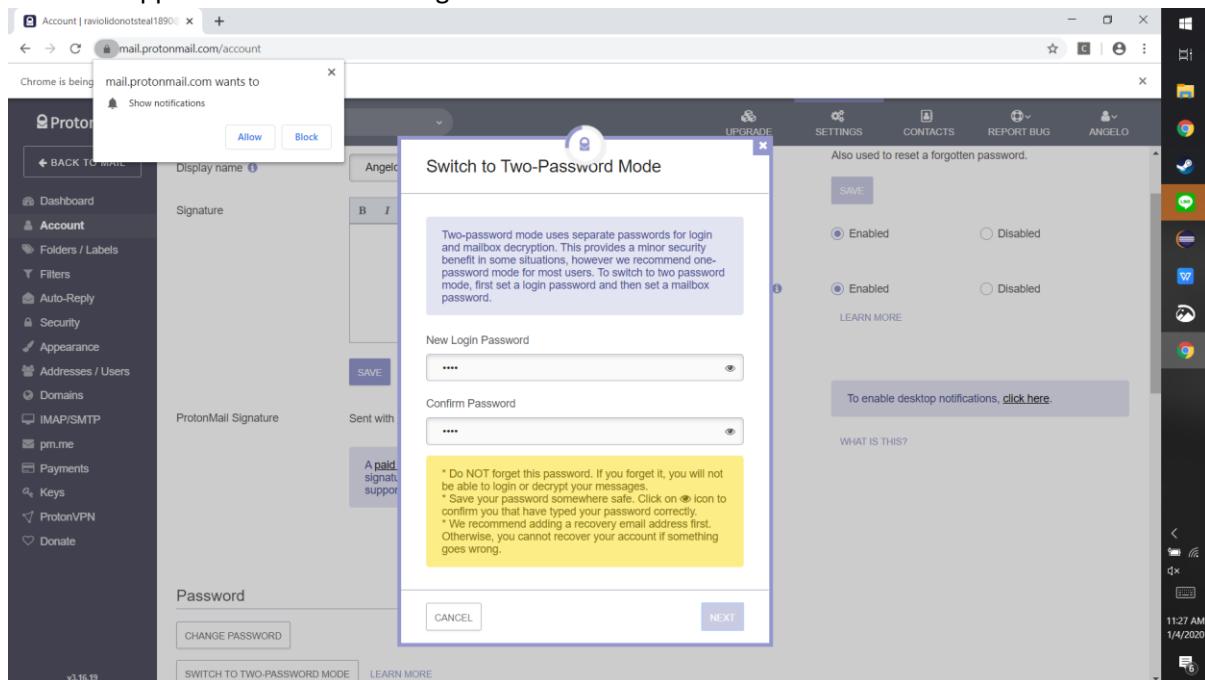
@Then("^I can enable two way password$")
public void I_can_enable_two_way_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}

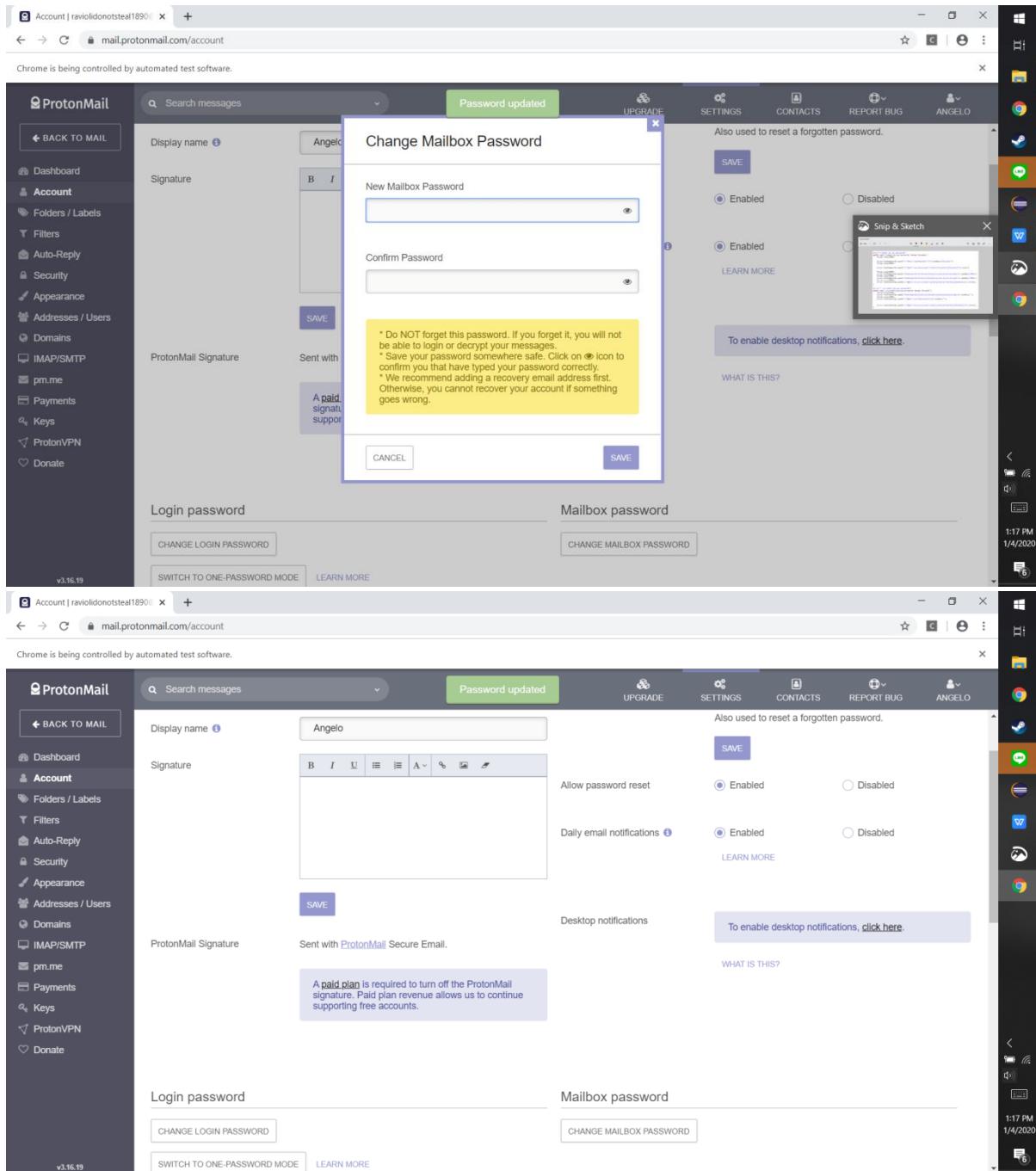
```

- Console setelah Running



- Snippet Browser saat Testing





q. Test Case 2 (Password Valid, New Password Valid, Confirm Password Valid, New Mail Password Valid, Confirm Mail Password Invalid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]//div/div[2]/section[3]/p[2]/button")).click();
}

@And("^I enable two way password$")
public void I_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

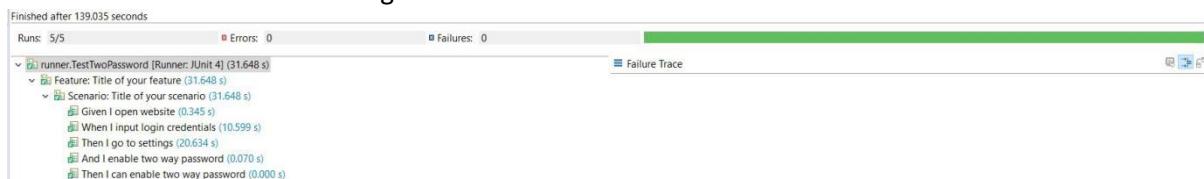
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRRA");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/div[1]/form/div[2]/button[2]")).click();

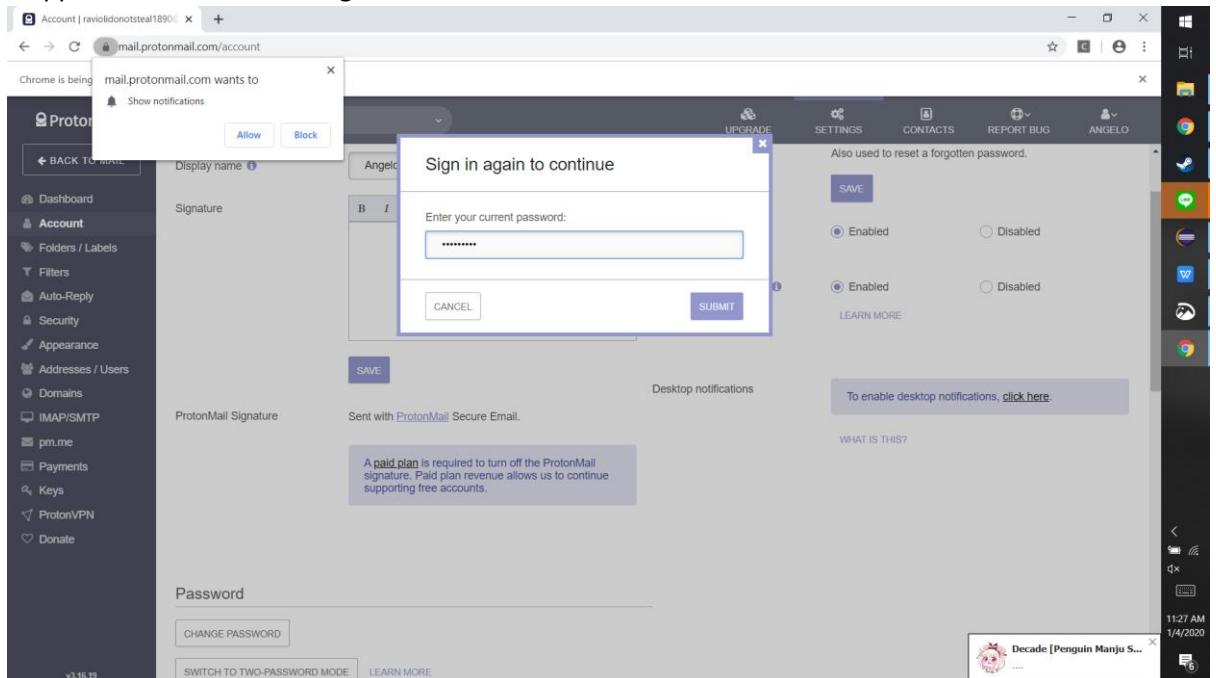
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("ASDF");
}

@Then("^I can enable two way password$")
public void I_can_enable_two_way_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing



Account | ravidolidonotsteal1890@gmail.com

mail.protonmail.com/account

Chrome is being monitored by mail.protonmail.com wants to Show notifications

Allow **Block**

Display name: Angelo

Signature: A paid signature supports ProtonMail.

ProtonMail Signature: Sent with

SAVE

Two-password mode uses separate passwords for login and mailbox decryption. This provides a minor security benefit in some situations, however we recommend one-password mode for most users. To switch to two password mode, first set a login password and then set a mailbox password.

New Login Password:

Confirm Password:

* Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
 * Save your password somewhere safe. Click on the icon to confirm you have typed your password correctly.
 * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.

CANCEL NEXT

SWITCH TO TWO-PASSWORD MODE LEARN MORE

UPGRADE

SETTINGS CONTACTS REPORT BUG ANGELO

Also used to reset a forgotten password.

Enabled Disabled

Enabled Disabled

LEARN MORE

To enable desktop notifications, [click here](#).

WHAT IS THIS?

11:27 AM 1/4/2020

Account | ravidolidonotsteal1890@gmail.com

mail.protonmail.com/account

Chrome is being monitored by mail.protonmail.com wants to Show notifications

Allow **Block**

Display name: Angelo

Signature: A paid signature supports ProtonMail.

ProtonMail Signature: Sent with

SAVE

Change Mailbox Password

New Mailbox Password:

Confirm Password:

Passwords do not match

* Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
 * Save your password somewhere safe. Click on the icon to confirm you have typed your password correctly.
 * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.

CANCEL SAVE

CHANGE MAILBOX PASSWORD

CHANGE LOGIN PASSWORD

SWITCH TO ONE-PASSWORD MODE LEARN MORE

UPGRADE

SETTINGS CONTACTS REPORT BUG ANGELO

Also used to reset a forgotten password.

Enabled Disabled

Enabled Disabled

LEARN MORE

To enable desktop notifications, [click here](#).

WHAT IS THIS?

11:27 AM 1/4/2020

r. Test Case 3 (Password Valid, New Password Invalid, Confirm Password Valid, New Mail Password Valid, Confirm Mail Password Valid)

- Step Definition

```

@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");
}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]//div/div[2]/section[3]/p[2]/button")).click();
}

@And("^I enable two way password$")
public void I_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("ASDF");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("RRAA");
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("AARR");
}

@Then("^I can enable two way password$")
public void I_can_enable_two_way_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]//div[1]/div[1]/form/div[2]/button[2]")).click();
}

```

- Console setelah Running

Finished after 111.636 seconds

Runs: 5/5	Errors: 2	Failures: 0
-----------	-----------	-------------

runner.TestTwoPassword [Runner: JUnit 4] (48.036 s)

- Feature: Title of your feature (48.036 s)
 - Scenario: Title of your scenario (48.036 s)
 - Given I open website (0.302 s)
 - When I input login credentials (12.278 s)
 - Then I go to settings (25.351 s)
 - And I enable two way password (10.102 s)
 - Then I can enable two way password (0.003 s)

Failure Trace

```

org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//*[@id=id]}
(Session info: chrome=79.0.3945.88)
For documentation on this error, please visit: http://seleniumhq.org/exceptions/no_such_element.html
Build info: version: '3.7.1', revision: '8a00994', time: '2017-11-06T10:36:16Z'
System info: host: 'LAPTOP-GSE3U3AH', ip: '192.168.56.1', os.name: 'Windows 10', os.arch: 'amd64', os.version: '10.0', java.version: '13'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 79.0.3945.88, chrome: {chromedriverVersion: 78.0.3904.105, userDataDir: C:\Users\HUAWEI\AppData\Local\Temp\scoped_dir3104_10402}, javascriptEnabled: true, networkConnectionEnabled: false, pageLoadStrategy: normal, platform: XP, platformName: XP, proxy: {proxyType: DIRECT}, setWindowRect: true, strictFileInteractability: false, timeouts: {}, unhandledPromptBehavior: dismiss and notify}
Session ID: ec44fd54c3fa75939549525da024f66
*** Element info: {using:xpath, value://[@id=id]confirmPassword}]
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)
at enabletwopassword.NewTwoPassword.I_can_enable_two_way_password(NewTwoPassword.java:63)
at enabletwopassword.NewTwoPassword.I_can_enable_two_way_password(file.feature:29)
at *.Then I can enable two way password(file.feature:29)

```

- Snippet Browser saat Testing

The image consists of two side-by-side screenshots of the ProtonMail account settings interface, likely from a browser window.

Screenshot 1 (Top):

- The main page shows the "Signature" section with a "Sign in again to continue" dialog overlayed. The dialog asks for the current password with fields for "Enter your current password:" and "SUBMIT".
- A tooltip at the bottom left of the dialog says: "A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts."
- The right side of the screen shows the "Desktop notifications" settings, with "Enabled" selected.
- A status bar at the bottom indicates: "Chrome is being controlled by automated test software." and "v3.16.19".

Screenshot 2 (Bottom):

- The main page shows the "Password" section with a "Switch to Two-Password Mode" dialog overlayed. It asks for "New Login Password" and "Confirm Password".
- A tooltip at the bottom left of the dialog says: "Two-password mode uses separate passwords for login and mailbox decryption. This provides a minor security benefit in some situations, however we recommend one-password mode for most users. To switch to two password mode, first set a login password and then set a mailbox password."
- A yellow warning box at the bottom right of the dialog says:
 - "* Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages."
 - "* Save your password somewhere safe. Click on icon to confirm you that have typed your password correctly."
 - "* We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong."
- The right side of the screen shows the "Desktop notifications" settings, with "Enabled" selected.
- A status bar at the bottom indicates: "Chrome is being controlled by automated test software." and "v3.16.19".

s. Test Case 4 (Password Valid, New Password Kosong, Confirm Password Kosong, New Mail Password Valid, Confirm Mail Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(7000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[3]/p[2]/button")).click();
}

@And("^I enable two way password$")
public void I_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/div[1]/input")).sendKeys("");
    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/div[2]/input")).sendKeys("");
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}

@Then("^I can enable two way password$")
public void I_can_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/div[1]/input")).sendKeys("AARR");
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("AARR");

    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running

Finished after 83.259 seconds

Runs: 5/5 (1 skipped)	Errors: 2	Failures: 0
runner.TestTwoPassword [Runner: JUnit 4] (27.713 s)		
Feature: Title of your feature (27.713 s)		
Scenario: Title of your scenario (27.710 s)		
Given I open website (0.289 s)		
When I input login credentials (12.216 s)		
Then I go to settings (15.202 s)		
And I enable two way password (0.002 s)		
Then I can enable two way password (0.002 s)		

Failure Trace

```

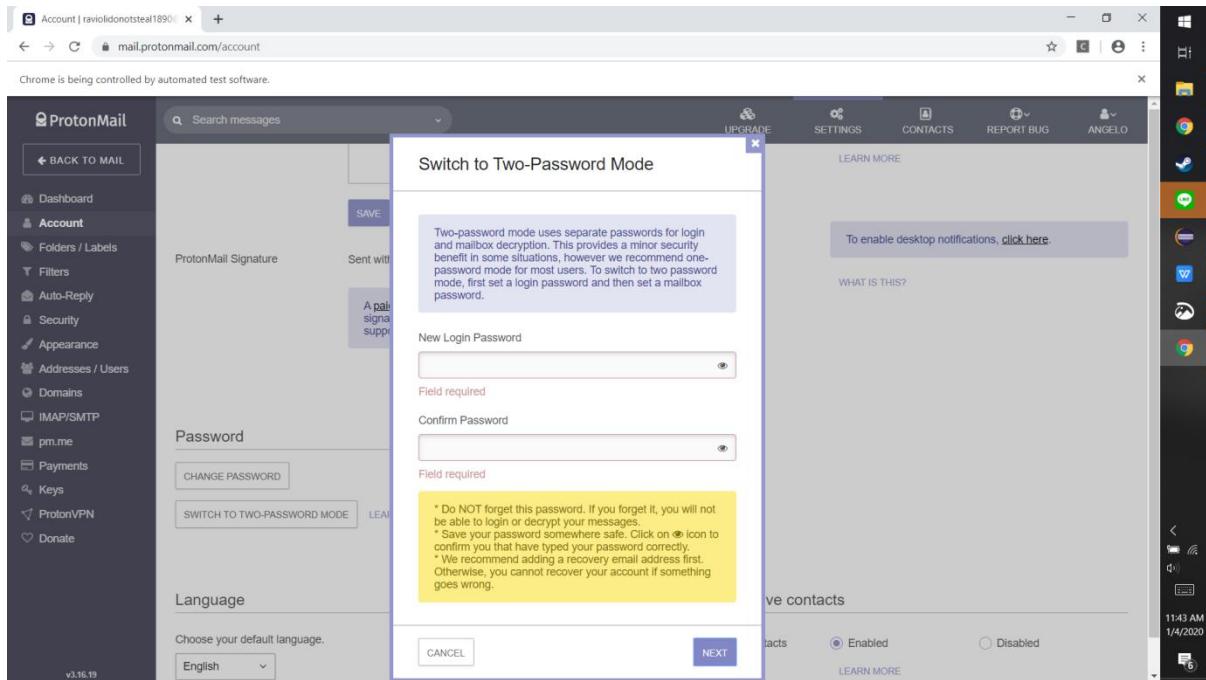
org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//input/bc
(Session info: chrome=79.0.395.88)
For documentation on this error, please visit: http://seleniumhq.org/exceptions/no_such_element.html
Build info: version: '3.7.1', revision: '8a0099a', time: '2017-11-06T210736.161Z'
System info: host: 'LAPTOP-G5E3U3AH', ip: '192.168.56.1', os.name: 'Windows 10', os.arch: 'amd64', os.version: '10.0', java.version: '13'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 79.0.3945.88, chrome: (chromedriverVersion: 78.0.3
javascriptEnabled: true, networkConnectionEnabled: false, pageLoadStrategy: normal, platform: XP, platformName: XP, proxy: Prox
omtBehavior: dismiss and notify}
Session ID: db75b5c405fc02997aecc04a273e8fc2
*** Element info: {using=xpath, value=/html/body/div[1]/form/div[1]/div[2]/div[1]/input}
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)
at enabltwo.password.NewTwoPasswordJ_enable_two_way_password(NewTwoPassword.java:51)
at *.And I enable two way password(file:feature)

```

- Snippet Browser saat Testing

The screenshot shows a browser window with the following details:

- Title Bar:** Account | ravioldonotsteal1890 - mail.protonmail.com/account
- Notification Bar:** Chrome is being used. mail.protonmail.com wants to Show notifications. Buttons: Allow, Block.
- Content Area:**
 - Sign in again to continue:** A modal dialog with a password field containing '*****' and a 'SUBMIT' button.
 - Background Page:** Shows the ProtonMail account settings page with sections like 'Signature', 'ProtonMail Signature', and 'Password'.
 - Right Sidebar:** Includes 'UPGRADE', 'SETTINGS', 'CONTACTS', 'REPORT BUG', and a user profile for ANGELO.
 - Bottom Right:** A notification bar for 'Decade [Penguin Manju S...]'.



t. Test Case 5 (Password Valid, New Password Valid, Confirm Password Valid, New Mail Password Kosong, Confirm Mail Password Kosong)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(7000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[2]/section[3]/p[2]/button")).click();
}

@And("^I enable two way password$")
public void I_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

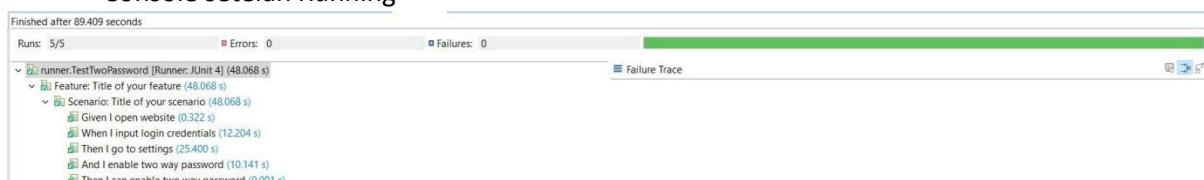
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/input")).sendKeys("RRAA");
    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/div[2]/input")).sendKeys("RRAA");
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}

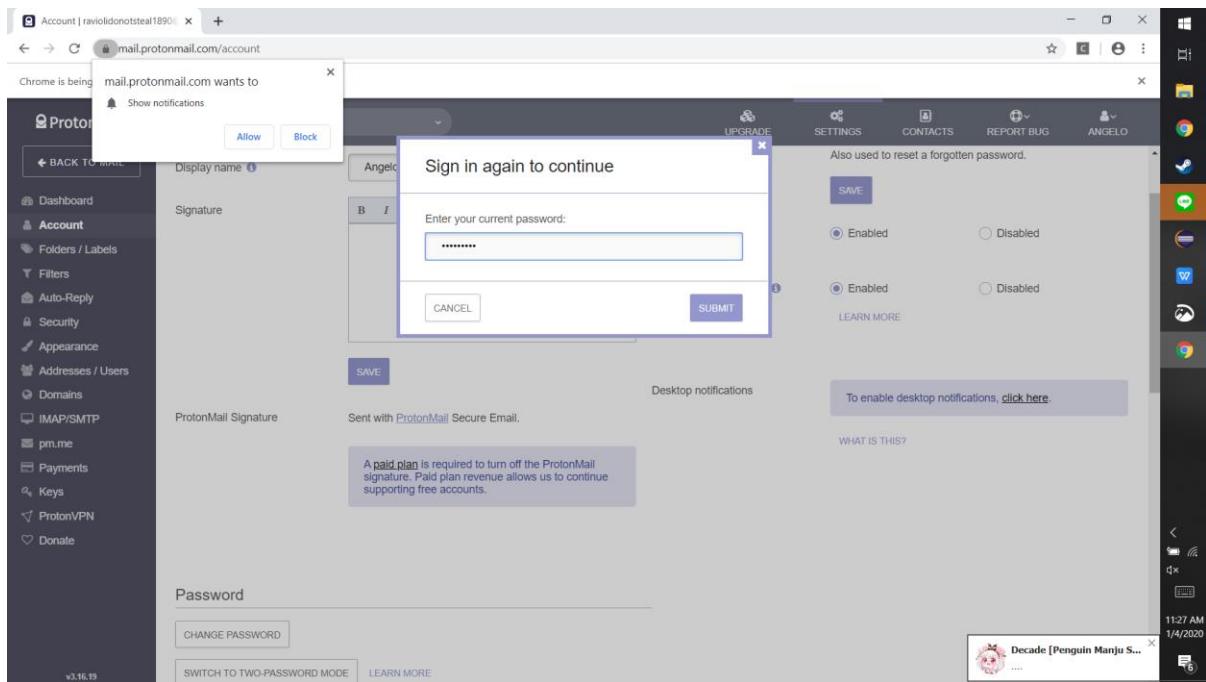
@Then("^I can enable two way password$")
public void I_can_enable_two_way_password() throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("/html/body/div[1]/div[1]/form/div[1]/div[2]/div[1]/input")).sendKeys("");
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("");

    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing



2.2.5 Fungsi Change Mail Password

- Scenario

@tag
④ Feature: Change mail password

@tag1
④ Scenario: Change Mail Password
Given I open website
When I input login credentials
Then I go to settings
And I input mail password credentials
Then I can change mail password

- Step Definition

```

1 package changemailpassword;
2
3+ import org.openqa.selenium.By;[]
4
5+ @Given("^I open website$")
6  public void I_open_website() throws Throwable {
7
8
9 }
10
11+ @When("^I input login credentials$")
12  public void I_input_login_credentials()throws Throwable {
13
14 }
15
16
17+ @Then("^I go to settings$")
18  public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
19
20 }
21
22+ @And("^I input mail password credentials$")
23  public void I_input_mail_password_credentials() throws Throwable {
24
25 }
26
27+ @Then("^I can change mail password$")
28  public void I_can_change_mail_password() throws Throwable {
29
30 }
31
32 }

```

- Test Runner

```

package runner;
+import org.junit.runner.RunWith;[]

@RunWith(Cucumber.class)
@Cucumber.Options(features="ChangeMailPass", glue="changemailpassword")
public class TestMailPassword {

}

```

u. Test Case 1 (Password Valid, New Mail Password Valid, Confirm Mail Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='mailboxPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='unlock_btn']")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[2]/section[2]/p/button")).click();
}

@And("^I input mail password credentials$")
public void I_input_mail_password_credentials() throws Throwable {
    Thread.sleep(5000);

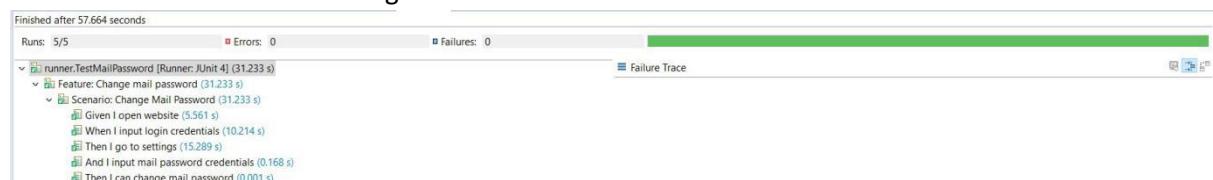
    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='newPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("AARR");
}

@Then("^I can change mail password$")
public void I_can_change_mail_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

The image consists of two vertically stacked screenshots of the ProtonMail account settings interface, specifically the 'Change Mailbox Password' section.

Screenshot 1: Sign in again to continue

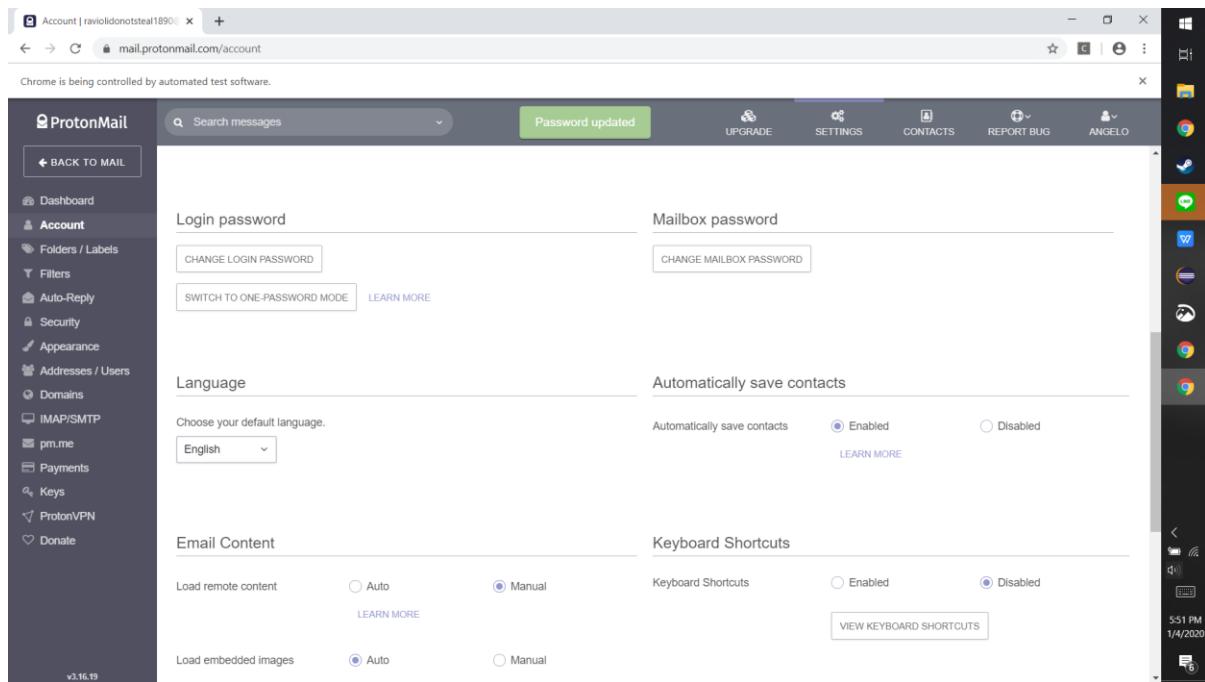
This screenshot shows a modal dialog titled "Sign in again to continue". It contains a single input field labeled "Enter your login password:" with the placeholder "*****". Below the input field are two buttons: "CANCEL" on the left and "SUBMIT" on the right. The background of the main settings page is visible, showing sections for "Language", "Email Content", and "Keyboard Shortcuts".

Screenshot 2: Change Mailbox Password

This screenshot shows a modal dialog titled "Change Mailbox Password". It has two input fields: "New Mailbox Password" and "Confirm Password", both containing "*****". Below these fields is a yellow callout box with the following text:

- * Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
- * Save your password somewhere safe. Click on icon to confirm you that have typed your password correctly.
- * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.

At the bottom of the dialog are two buttons: "CANCEL" and "SAVE". The background of the main settings page is visible, showing sections for "Language", "Email Content", and "Keyboard Shortcuts".



v. Test Case 2 (Password Valid, New Mail Password Valid, Confirm Mail Password Invalid)

- Step Definition

```

@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='mailboxPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='unlock_btn']")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[2]/section[2]/p/button")).click();
}

@And("^I input mail password credentials$")
public void I_input_mail_password_credentials() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

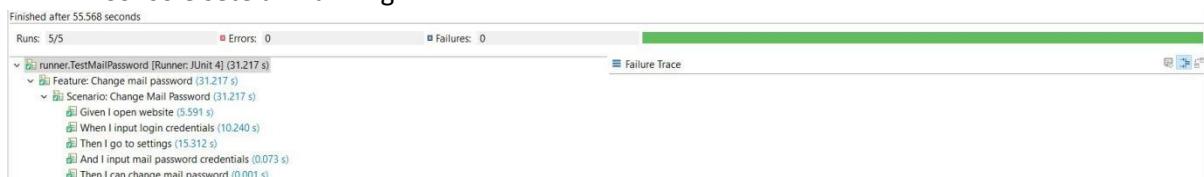
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='newPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("ASDF");
}

@Then("^I can change mail password$")
public void I_can_change_mail_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}

```

- Console setelah Running



- Snippet Browser saat Testing

The image displays two screenshots of the ProtonMail account settings interface, illustrating snippets used during testing.

Screenshot 1: Sign in again to continue

This screenshot shows a modal dialog titled "Sign in again to continue". It contains a "Login password" field with the value "*****" and a "SUBMIT" button. Below the modal, the main settings page is visible, featuring sections for "Language" (set to English), "Automatically save contacts" (Enabled), "Email Content" (Load remote content set to Manual, Load embedded images set to Auto), and "Keyboard Shortcuts" (Enabled). A notification from "mail.protonmail.com" asking for permission to show notifications is also present.

Screenshot 2: Change Mailbox Password

This screenshot shows a modal dialog titled "Change Mailbox Password". It has fields for "New Mailbox Password" and "Confirm Password", both containing "*****". An error message "Passwords do not match" is displayed below the fields. A yellow callout box provides instructions: "Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.", "Save your password somewhere safe. Click on icon to confirm you that have typed your password correctly.", and "We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong." At the bottom are "CANCEL" and "SAVE" buttons. The background shows the same settings page as the first screenshot, including the notification about notifications.

w. Test Case 3 (Password Valid, New Mail Password Kosong, Confirm Mail Password Valid)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='mailboxPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='unlock_btn']")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']/div/div[2]/section[2]/p/button")).click();
}

@And("^I input mail password credentials$")
public void I_input_mail_password_credentials() throws Throwable {
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

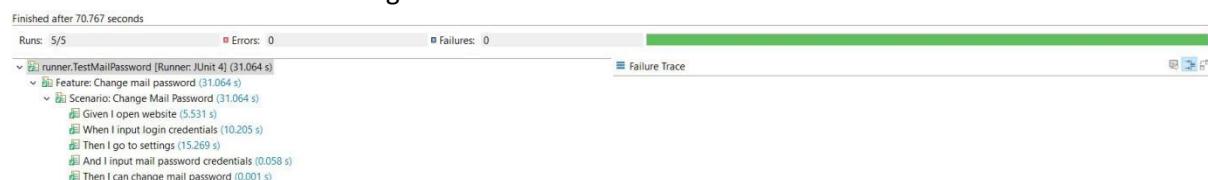
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='newPassword']")).sendKeys("");
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("AARR");

}

@Then("^I can change mail password$")
public void I_can_change_mail_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id='secured-account']/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

The image consists of two vertically stacked screenshots of the ProtonMail account settings interface. Both screenshots show a 'Change Mailbox Password' dialog box overlaid on the main settings page.

Screenshot 1 (Top): Sign in again to continue

- Dialog Content:** 'Sign in again to continue'. It contains a 'Login password' field with the value '*****' and a 'SUBMIT' button.
- Background Settings:** Shows sections for Language (English), Email Content (Load remote content: Auto, Load embedded images: Auto), and Keyboard Shortcuts (Enabled).
- Notification Bar:** A message 'mail.protonmail.com wants to Show notifications' with 'Allow' and 'Block' buttons.

Screenshot 2 (Bottom): Change Mailbox Password

- Dialog Content:** 'Change Mailbox Password'. It has fields for 'New Mailbox Password' (empty) and 'Confirm Password' (empty). Below these is a yellow warning box with the following text:
 - * Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
 - * Save your password somewhere safe. Click on icon to confirm you that have typed your password correctly.
 - * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.
- Background Settings:** Same as the top screenshot, including Language (English), Email Content (Load remote content: Auto, Load embedded images: Auto), and Keyboard Shortcuts (Enabled).
- Notification Bar:** A message 'Chrome is being controlled by automated test software.'

x. Test Case 4 (Password Valid, New Mail Password Valid, Confirm Mail Password Kosong)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id=\"login_btn\"]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"mailboxPassword\"]")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id=\"unlock_btn\"]")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"tour-settings\"]")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"pm_settings\"]/div/div[2]/section[2]/p/button")).click();
}

@And("^I input mail password credentials$")
public void I_input_mail_password_credentials() throws Throwable {
    Thread.sleep(5000);

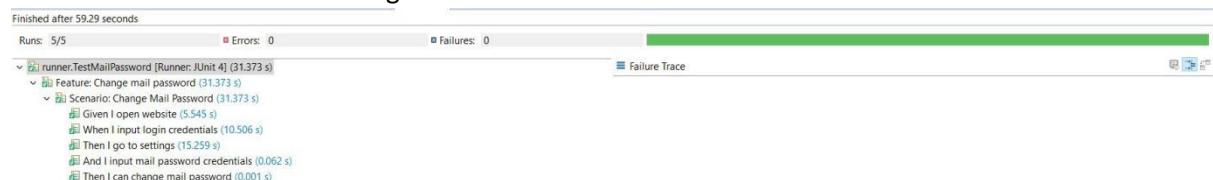
    driver.findElement(By.xpath("//*[@id=\"loginPassword\"]")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/form/div[2]/button[2]")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id=\"newPassword\"]")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id=\"confirmPassword\"]")).sendKeys("");
}

@Then("^I can change mail password$")
public void I_can_change_mail_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id=\"secured-account\"]/div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing

The image consists of two screenshots of the ProtonMail account settings interface, displayed side-by-side.

Screenshot 1: Sign in again to continue

This screenshot shows a modal dialog titled "Sign in again to continue". It contains a single input field labeled "Enter your login password:" with the placeholder "*****". Below the input field are two buttons: "CANCEL" and "SUBMIT". The background of the main page is visible, showing the "Account" settings section. A notification bar at the top indicates "Chrome is being controlled by automated test software." and "mail.protonmail.com wants to Show notifications". Buttons for "Allow" and "Block" are present in this notification bar.

Screenshot 2: Change Mailbox Password

This screenshot shows a modal dialog titled "Change Mailbox Password". It has two input fields: "New Mailbox Password" and "Confirm Password", both containing placeholder text "****". Below these fields is a message box with yellow background and black text: "Field required", followed by three bullet points: "Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.", "Save your password somewhere safe. Click on icon to confirm that you have typed your password correctly.", and "We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong." At the bottom of the dialog are "CANCEL" and "SAVE" buttons.

Background UI Elements

The background of both screenshots shows the ProtonMail account settings page. On the left, there is a sidebar with various account management options like Dashboard, Account, Folders / Labels, Filters, Auto-Reply, Security, Appearance, Addresses / Users, Domains, IMAP/SMTP, pm.me, Payments, Keys, ProtonVPN, and Donate. The main content area includes sections for Language (set to English), Email Content (Load remote content set to Manual, Load embedded images set to Auto), and Keyboard Shortcuts (Enabled). A notification bar at the top right shows "5:47 PM 1/4/2020" and a battery icon. The Windows taskbar is visible at the bottom of the screen.

y. Test Case 5 (Password Valid, New Mail Password Kosong, Confirm Mail Password Kosong)

- Step Definition

```
@Given("^I open website$")
public void I_open_website() throws Throwable {
    System.setProperty("webdriver.chrome.driver", "C:\\\\Program Files\\\\ChromeDriver\\\\chromedriver.exe");

    driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://mail.protonmail.com/login");

}

@When("^I input login credentials$")
public void I_input_login_credentials()throws Throwable {
    driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
    driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    driver.findElement(By.xpath("//*[@id='login_btn']")).click();

    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='mailboxPassword']")).sendKeys("AARR");
    driver.findElement(By.xpath("//*[@id='unlock_btn']")).click();
}

@Then("^I go to settings$")
public void I_enter_my_profile_and_clicked_edit_password()throws Throwable {
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='tour-settings']")).click();
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='pm_settings']//div/div[2]/section[2]/p/button")).click();
}

@And("^I input mail password credentials$")
public void I_input_mail_password_credentials() throws Throwable {
    Thread.sleep(5000);

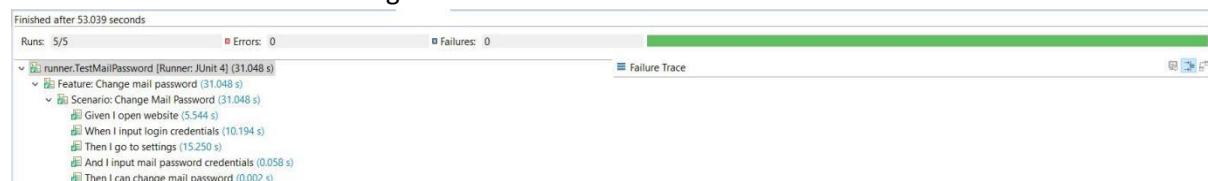
    driver.findElement(By.xpath("//*[@id='loginPassword']")).sendKeys("Ravioli1!");
    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/form/div[2]/button[2]")).click();

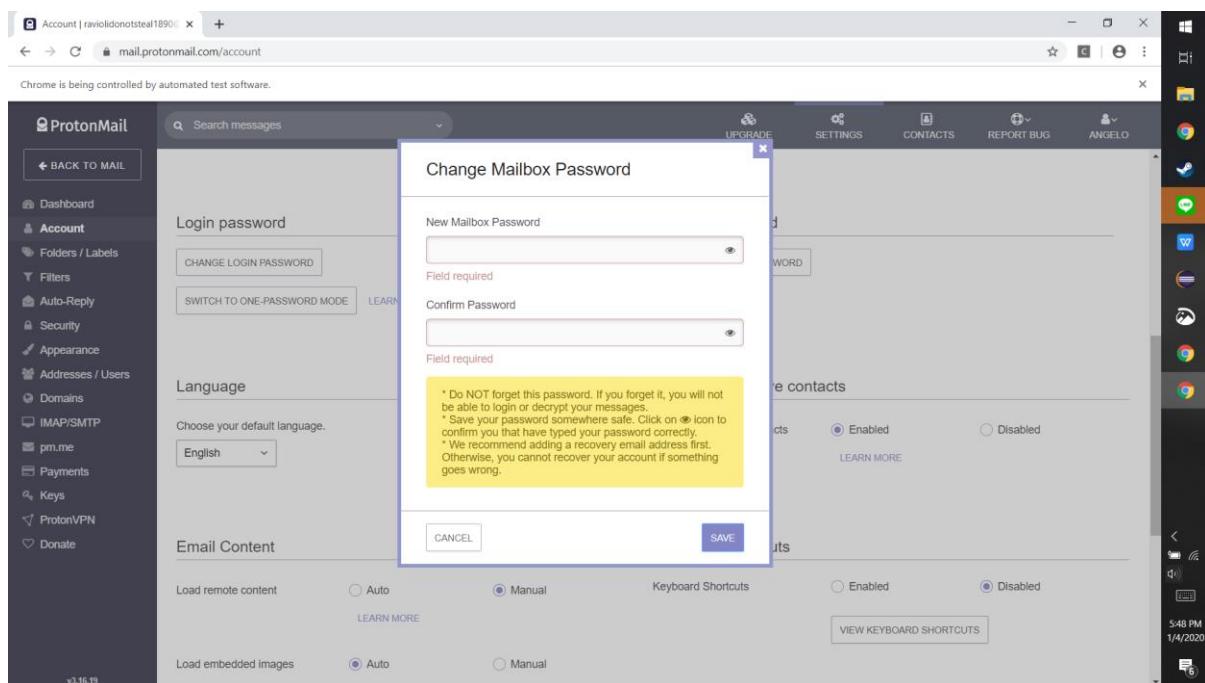
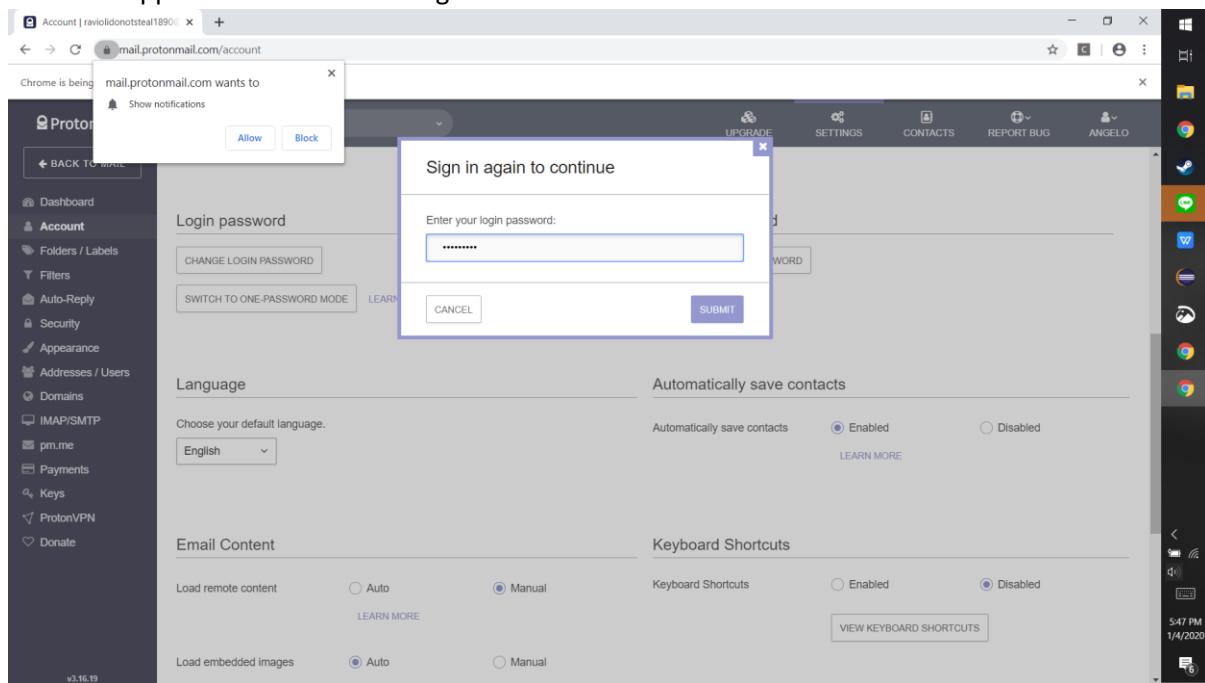
    Thread.sleep(5000);
    driver.findElement(By.xpath("//*[@id='newPassword']")).sendKeys("");
    driver.findElement(By.xpath("//*[@id='confirmPassword']")).sendKeys("");
}

@Then("^I can change mail password$")
public void I_can_change_mail_password() throws Throwable {
    driver.findElement(By.xpath("//*[@id='secured-account']//div[1]/div[1]/form/div[2]/button[2]")).click();
}
```

- Console setelah Running



- Snippet Browser saat Testing



2.2.6 Fungsi Delete Mail

- Scenario

```
@tag  
Feature: Delete Mail
```

```
@tag1  
Scenario: Delete Mail  
Given I open website  
Then I input login credential  
When I select an email  
Then I clicked delete and i can delete mail
```

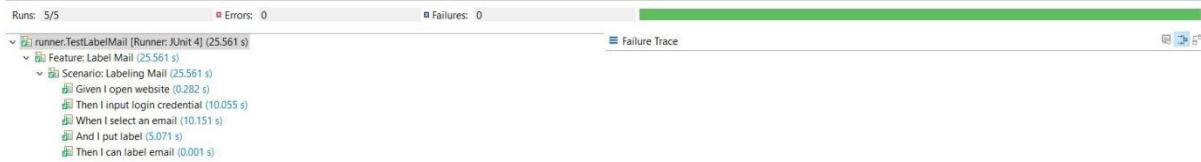
- Step Definition

```
package deletemail;  
  
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
  
import cucumber.api.java.en.And;  
import cucumber.api.java.en.Given;  
import cucumber.api.java.en.Then;  
import cucumber.api.java.en.When;  
  
public class NewDeleteMail {  
    WebDriver driver;  
  
    @Given("^I open website$")  
    public void I_open_website() throws Throwable {  
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");  
  
        driver = new ChromeDriver();  
        driver.manage().window().maximize();  
        driver.get("https://mail.protonmail.com/login");  
    }  
  
    @Then("^I input login credential$")  
    public void I_input_login_credential()throws Throwable {  
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");  
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");  
    }  
  
    @When("^I select an email$")  
    public void I_select_an_email() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='conversation-list-columns']/section/div[1]/div[2]/div[2]")).click();  
    }  
  
    @Then("^I clicked delete and i can delete mail$")  
    public void I_clicked_delete_and_i_can_delete_mail()throws Throwable {  
        driver.findElement(By.xpath("//*[@id='pm_main']/nav/div[2]/button[1]")).click();  
    }  
}
```

- Test Runner

```
package runner;  
import org.junit.runner.RunWith;  
import cucumber.api.junit.Cucumber;  
  
@RunWith(Cucumber.class)  
@Cucumber.Options(features="DeleteMail", glue="deletemail"  
public class TestDeleteMail {  
}
```

- Console setelah Running



- Snippet Browser saat Testing

2.2.7 Fungsi Label Mail

- Scenario

@tag

Feature: Label Mail

@tag1

Scenario: Labeling Mail

```
Given I open website
Then I input login credential
When I select an email
And I put label
Then I can label email
```

- Step Definition

```

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

public class NewLabelMail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");
    }

    @When("^I input login credential$")
    public void I_input_login_credential() throws Throwable {
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");
    }

    @Then("^I select an email$")
    public void I_select_an_email() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='conversation-list-columns']/section/div[1]/div[2]/div[2]")).click();
    }

    @And("^I put label$")
    public void I_put_label() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-label-dropdown']/a/i[1]")).click();

        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-label-dropdown']/div/form/div[2]/ul/li[1]/label/div")).click();
    }

    @Then("^I can label email$")
    public void I_can_label_email() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='tour-label-dropdown']/div/form/button")).click();
    }
}

```

- Test Runner

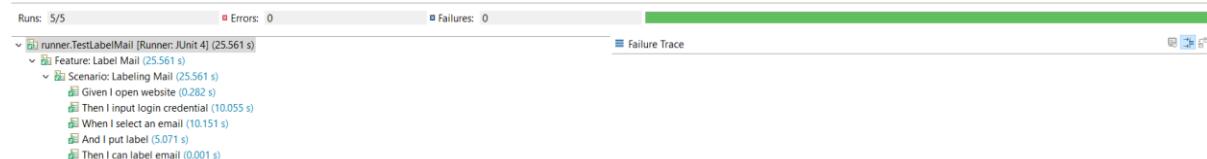
```

@tag
Feature: Label Mail

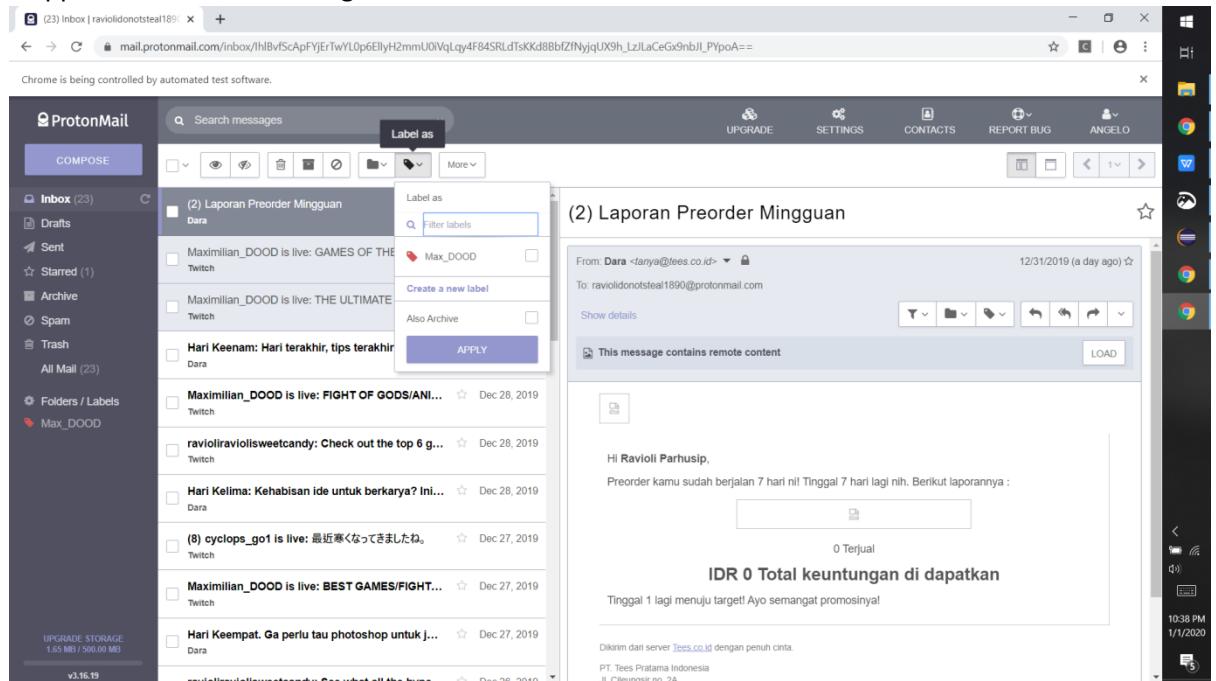
@tag1
Scenario: Labeling Mail
  Given I open website
  Then I input login credential
  When I select an email
  And I put label
  Then I can label email

```

- Console setelah Running



- Snippet Browser saat Testing



Chrome is being controlled by automated test software.

(2) Laporan Preorder Mingguan

From: Dara <tanya@tees.co.id> 12/31/2019 (a day ago)

To: ravidolidonotsteal1890@protonmail.com

Show details

This message contains remote content

Hi Ravioli Parhusip,

Preorder kamu sudah berjalan 7 hari ni! Tinggal 7 hari lagi nih. Berikut laporannya :

[Download Document](#)

0 Terjual

IDR 0 Total keuntungan di dapatkan

Tinggal 1 lagi menuju target! Ayo semangat promosinya!

Dikirim dari server [Tees.co.id](#) dengan penuh cinta.
PT. Tees Pratama Indonesia
Jl. Cleunusr no. 2A

Chrome is being controlled by automated test software.

(2) Laporan Preorder Mingguan

From: Dara <tanya@tees.co.id> 12/31/2019 (a day ago)

To: ravidolidonotsteal1890@protonmail.com

Show details

This message contains remote content

Hi Ravioli Parhusip,

Preorder kamu sudah berjalan 7 hari ni! Tinggal 7 hari lagi nih. Berikut laporannya :

[Download Document](#)

0 Terjual

IDR 0 Total keuntungan di dapatkan

Tinggal 1 lagi menuju target! Ayo semangat promosinya!

Dikirim dari server [Tees.co.id](#) dengan penuh cinta.
PT. Tees Pratama Indonesia
Jl. Cleunusr no. 2A

2.2.8 Fungsi Move Mail

- Scenario

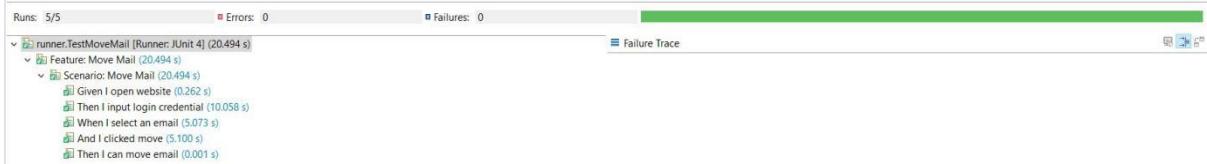
```
@tag  
Feature: Move Mail|
```

```
@tag1  
Scenario: Move Mail  
Given I open website  
Then I input login credential  
When I select an email  
And I clicked move  
Then I can move email
```

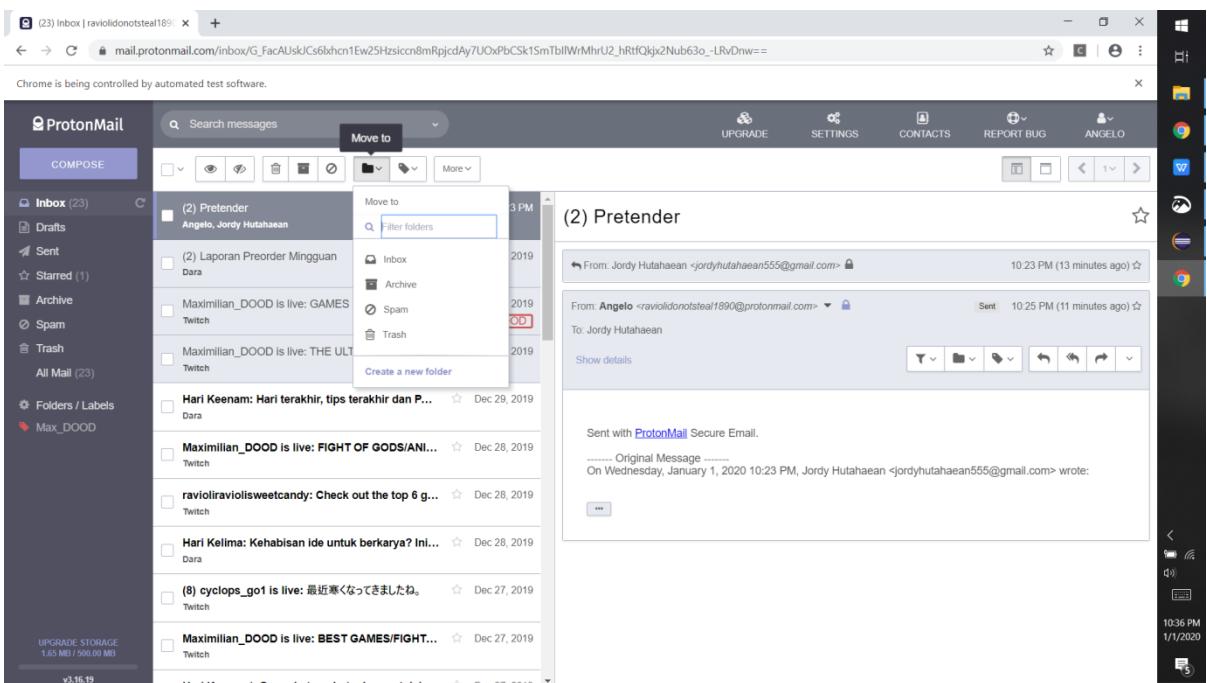
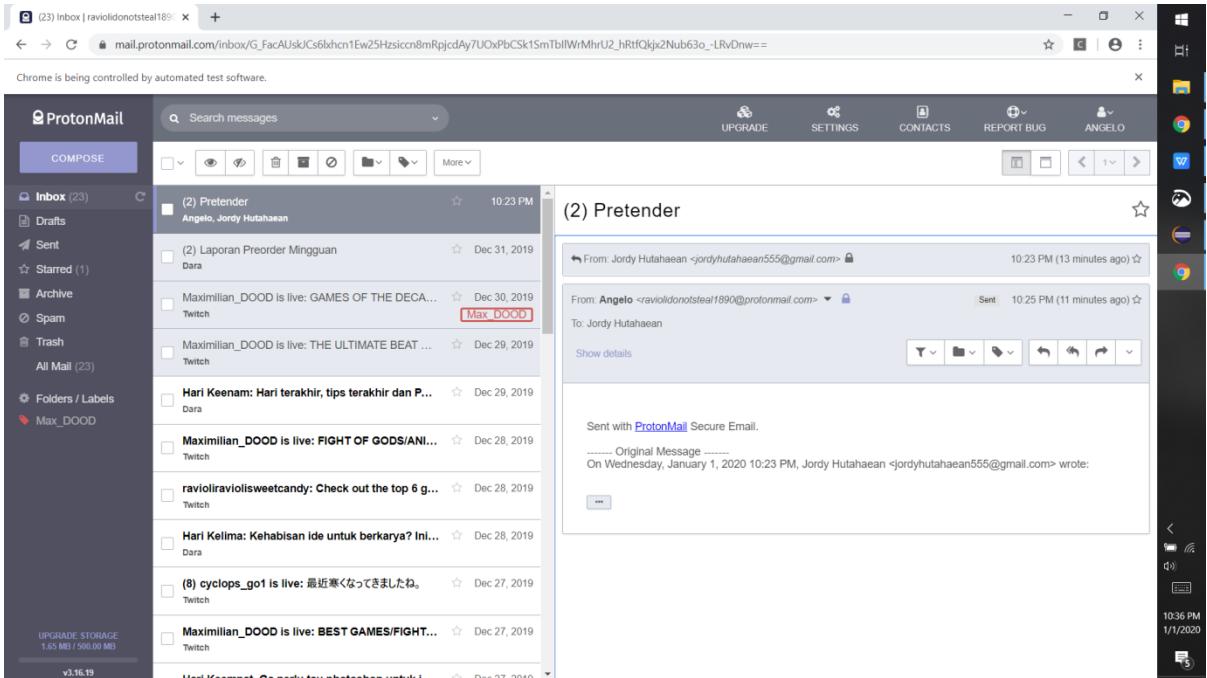
- Step Definition

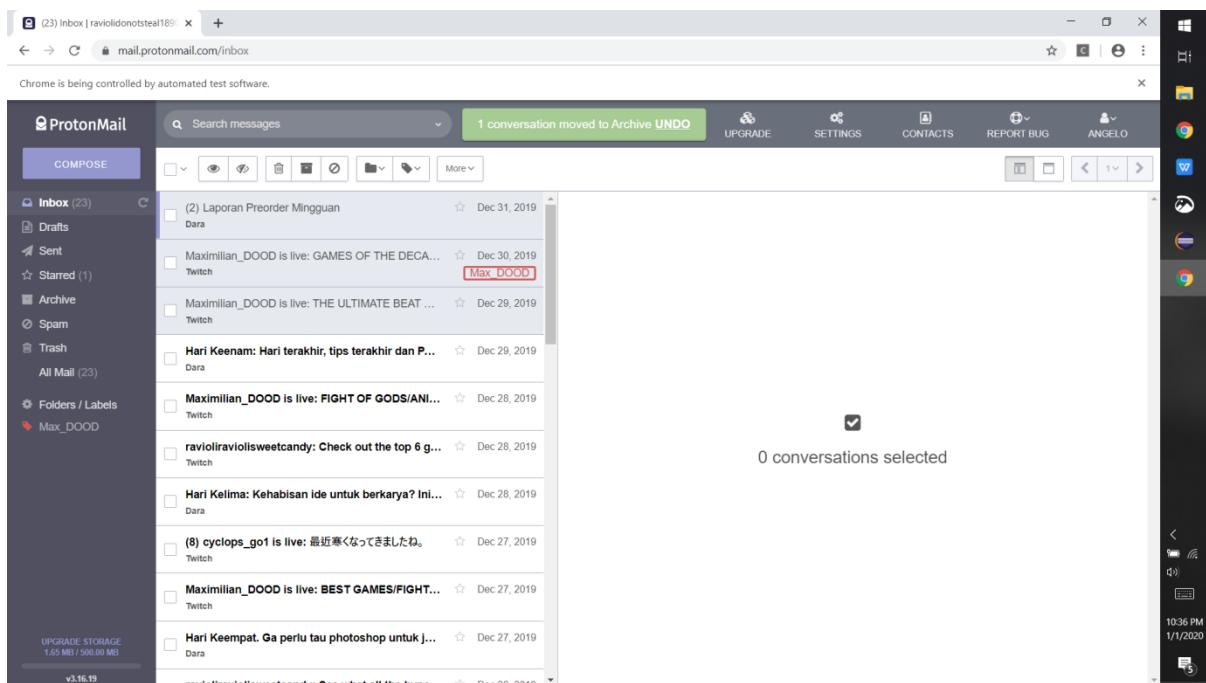
```
public class NewMoveMail {  
    WebDriver driver;  
  
    @Given("^I open website$")  
    public void I_open_website() throws Throwable {  
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");  
  
        driver = new ChromeDriver();  
        driver.manage().window().maximize();  
        driver.get("https://mail.protonmail.com/login");  
    }  
  
    @When("^I input login credential$")  
    public void I_input_login_credential() throws Throwable {  
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");  
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");  
    }  
  
    @Then("^I select an email$")  
    public void I_select_an_email() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='conversation-list-columns']/section/div[1]/div[2]/div[2]")).click();  
    }  
  
    @And("^I clicked move$")  
    public void I_clicked_move() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='tour-folder-dropdown']/a/i[1]")).click();  
    }  
  
    @Then("^I can move email$")  
    public void I_can_move_email() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='tour-folder-dropdown']/div/div/div[2]/ul/li[2]/button")).click();  
    }  
}  
  
- Test Runner  
package runner;  
import org.junit.runner.RunWith;  
import cucumber.api.junit.Cucumber;  
  
@RunWith(Cucumber.class)  
@Cucumber.Options(features="MoveMail", glue="movemail")  
public class TestMoveMail {  
}
```

- Console setelah Running



- Snippet Browser saat Testing





2.2.9 Fungsi Reply Mail

- Scenario

@tag

Feature: Reply Mail

@tag1

Scenario: Reply Mail

Given I open website

Then I input login credential

When I select an email

And I clicked reply

Then I can reply mail

- Step Definition

```
public class NewReplyMail {
    WebDriver driver;

    @Given("^I open website$")
    public void I_open_website() throws Throwable {
        System.setProperty("webdriver.chrome.driver","C:\\Program Files\\ChromeDriver\\chromedriver.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://mail.protonmail.com/login");

    }

    @When("^I input login credential$")
    public void I_input_login_credential()throws Throwable {
        driver.findElement(By.xpath("//*[@id=\"username\"]")).sendKeys("raviolidonotsteal1890@protonmail.com");
        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("Ravioli1!");
    }

    @Then("^I select an email$")
    public void I_select_an_email() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id=\"conversation-list-columns\"]//section/div[1]/div[2]/div[2]")).click();
    }

    @And("^I clicked reply$")
    public void I_clicked_reply()throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id=\"message0\"]//div[2]/div[1]/div[3]/div/nav/a[1]")).click();
    }

    @Then("^I can reply mail$")
    public void I_can_move_mail() throws Throwable {
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id=\"uid1\"]//footer/div/button[3]")).click();
    }
}
```

- Test Runner

```
1 package runner;
2 import org.junit.runner.RunWith;
3 import cucumber.api.junit.Cucumber;
4
5 @RunWith(Cucumber.class)
6 @Cucumber.Options(features="ReplyMail", glue="replaymail")
7 public class TestReplyMail {
8
9 }
```

- Console setelah Running



- Snippet Browser saat Testing

The screenshot shows a browser window with the following details:

- Header:** (23) Inbox | ravioldonotsteal1890 | mail.protonmail.com/inbox/G_FacAUjsk/Cs6lxhcn1Ew25Hzsiccn8mRpjcdAy7UOxPbCSk1SmTblWrMhrU2_hRtfQkjx2Nub63o_-LrvDnw==
- Left Sidebar:** PROTONMAIL INBOX (23), Drafts, Sent, Starred (1), Archive, Spam, Trash, All Mail (23), Folders / Labels, Max_DOOD.
- Message List:**
 - (2) Pretender Jordy Hutahean (10:23 PM)
 - (2) Laporan Preorder Mingguan Dara (Dec 31, 2019)
 - Maximilian_DOOD is live: GAMES OF THE DECA... Twitch (Dec 30, 2019)
 - Maximilian_DOOD is live: THE ULTIMATE BEAT ... Twitch (Dec 29, 2019)
 - Hari Keenam: Hari terakhir, tips terakhir dan P... Dara (Dec 29, 2019)
 - Maximilian_DOOD is live: FIGHT OF GODS/ANI... Twitch (Dec 28, 2019)
 - raviolixirviolisweetcandy: Check out the top 6 g... Twitch (Dec 28, 2019)
 - Hari Kelima: Kehabisan ide untuk berkarya? Ini... Dara (Dec 28, 2019)
 - (8) cyclops_go1 is live: 最近寒くなってきたね。 Twitch (Dec 27, 2019)
 - Maximilian_DOOD is live: BEST GAMES/FIGHT... Twitch (Dec 27, 2019)
 - Hari Keenam: Ga perlu tau sebentar nanti l... Dara (Dec 27, 2019)
- Selected Message:** (2) Pretender Jordy Hutahean (10:23 PM (2 minutes ago))
- Reply Compose Window:**
 - From: Jordy Hutahean <jordyhutahean555@gmail.com>
 - To: ravioldonotsteal1890@protonmail.com
 - Subject: Re: Pretender
 - Body: There is a pretender around us
Reply if you think so
 - Buttons: Save, Send
- Bottom Right:** Windows Taskbar with icons for File Explorer, Google Chrome, Microsoft Word, etc.

2.2.10 Fungsi Search Mail

- Scenario

```
@tag  
Feature: Search Mail
```

```
@tag1  
Scenario: Search Mail  
Given I open website  
Then I input login credential  
When I select search bar  
And I input keyword  
Then I can search mail
```

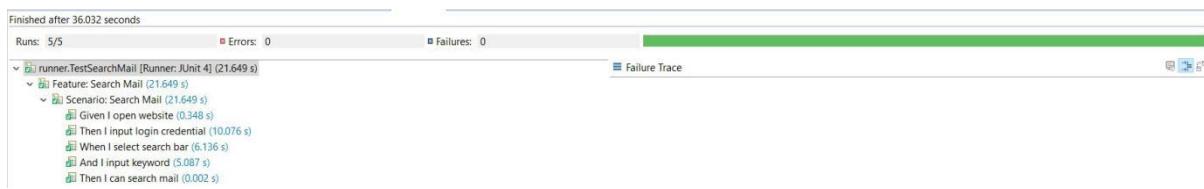
- Step Definition

```
public class NewSearchMail {  
    WebDriver driver;  
  
    @Given("^I open website$")  
    public void I_open_website() throws Throwable {  
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\ChromeDriver\\chromedriver.exe");  
  
        driver = new ChromeDriver();  
        driver.manage().window().maximize();  
        driver.get("https://mail.protonmail.com/login");  
    }  
  
    @When("^I input login credential$")  
    public void I_input_login_credential() throws Throwable {  
        driver.findElement(By.xpath("//*[@id='username']")).sendKeys("raviolidonotsteal1890@protonmail.com");  
        driver.findElement(By.xpath("//*[@id='password']")).sendKeys("Ravioli1!");  
    }  
  
    @Then("^I select search bar$")  
    public void I_select_search_bar() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='conversation-list-columns']/section/div[1]/div[2]/div[2]")).click();  
    }  
  
    @And("^I input keyword $")  
    public void I_input_keyword() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='body']/header/div/form/div/input")).sendKeys("Agent");  
    }  
  
    @Then("^I can search mail$")  
    public void I_can_search_mail() throws Throwable {  
        Thread.sleep(5000);  
        driver.findElement(By.xpath("//*[@id='tour-folder-dropdown']/div/div/div[2]/ul/li[2]/button")).click();  
    }  
}
```

- Test Runner

```
package runner;  
import org.junit.runner.RunWith;  
import cucumber.api.junit.Cucumber;  
  
@RunWith(Cucumber.class)  
@Cucumber.Options(features="SearchMail", glue="searchmail")  
public class TestSearchMail {  
}
```

- Console setelah Running



- Snippet Browser saat Testing

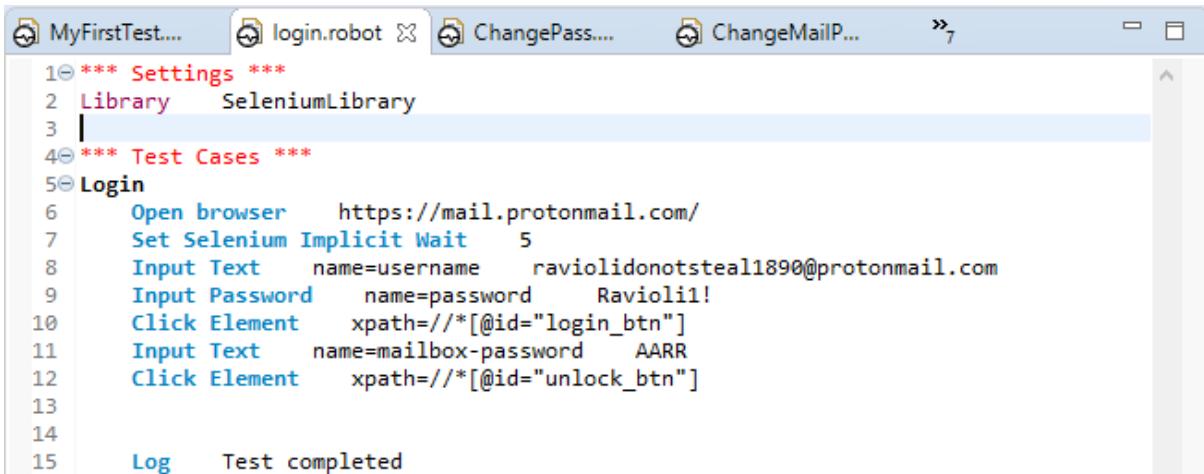
The screenshots illustrate the search functionality in ProtonMail. In the first screenshot, a search dialog is open with the term 'Agent' entered. In the second screenshot, the search results are displayed, showing three messages that contain the word 'Agent'. The browser status bar at the bottom of both screenshots indicates it is controlled by automated test software.

2.3 Pengujian Menggunakan RobotFramework

2.3.1 Fungsi Login

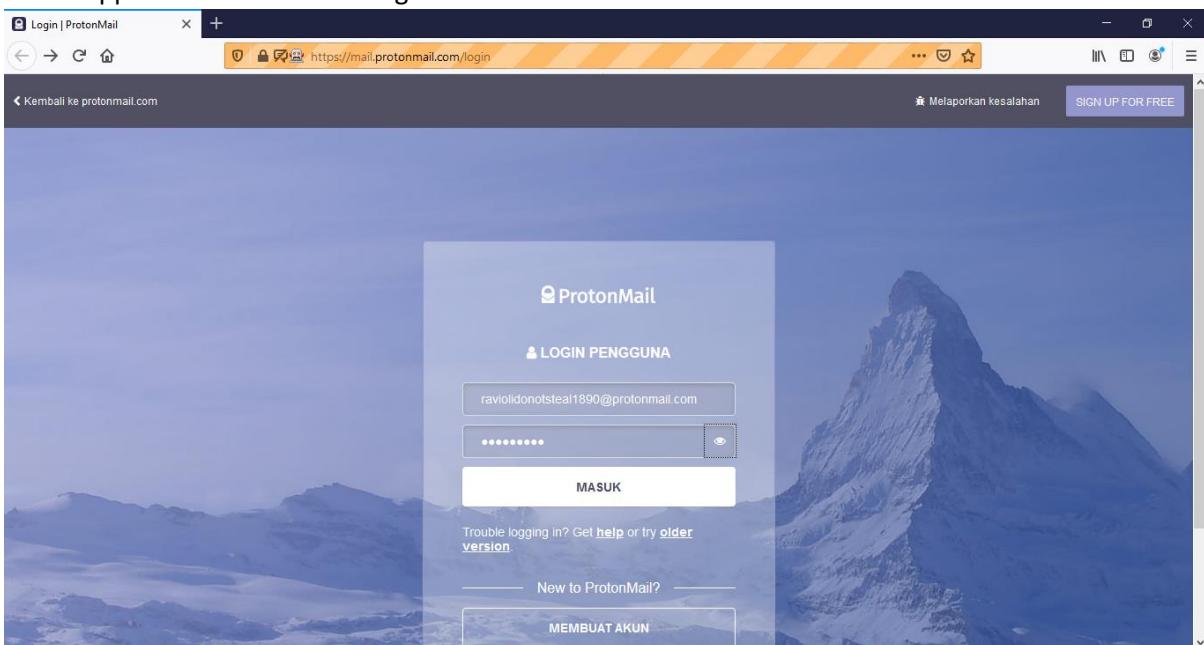
a. Test Case 1 (Email Valid, Password Valid)

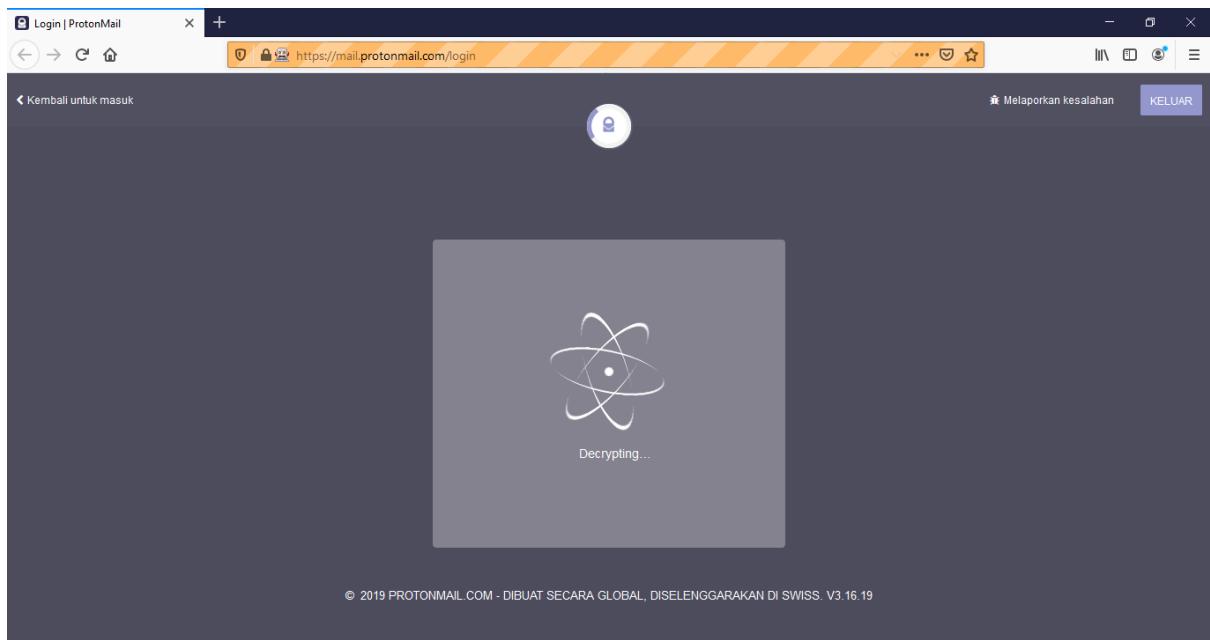
- Scenario



```
1④ *** Settings ***
2 Library SeleniumLibrary
3
4④ *** Test Cases ***
5④ Login
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username ravioldonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13
14
15 Log Test completed
```

- Snippet Browser saat Testing





- Test Report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Report LOG

Project Report

Generated
20200107 09:29:09 UTC+08:00
13 minutes 49 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 09:28:54.063
End Time:	20200107 09:29:09.660
Elapsed Time:	00:00:15.597
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:15	Pass
All Tests	1	1	0	00:00:15	Pass

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:16	Pass
Project.TestSuite	1	1	0	00:00:16	Pass
Project.TestSuite.Login	1	1	0	00:00:16	Pass

Test Details

Totals Tags Suites Search

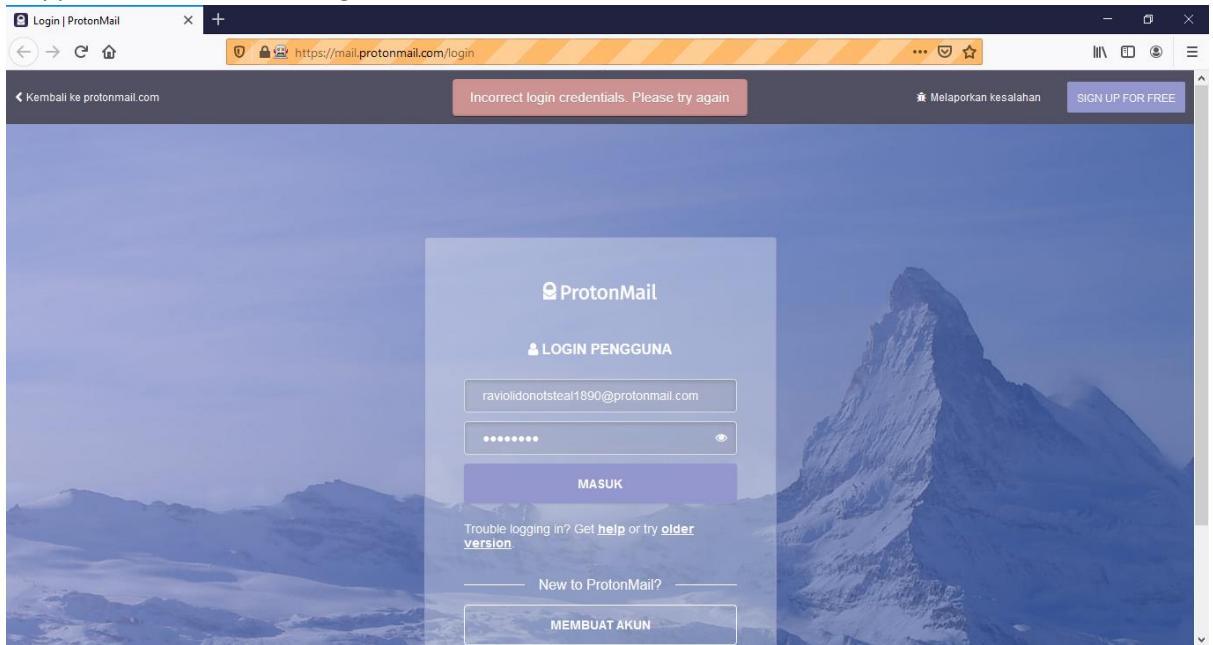
Type: Critical Tests All Tests

b. Test Case 2 (Email Valid, Password Invalid)

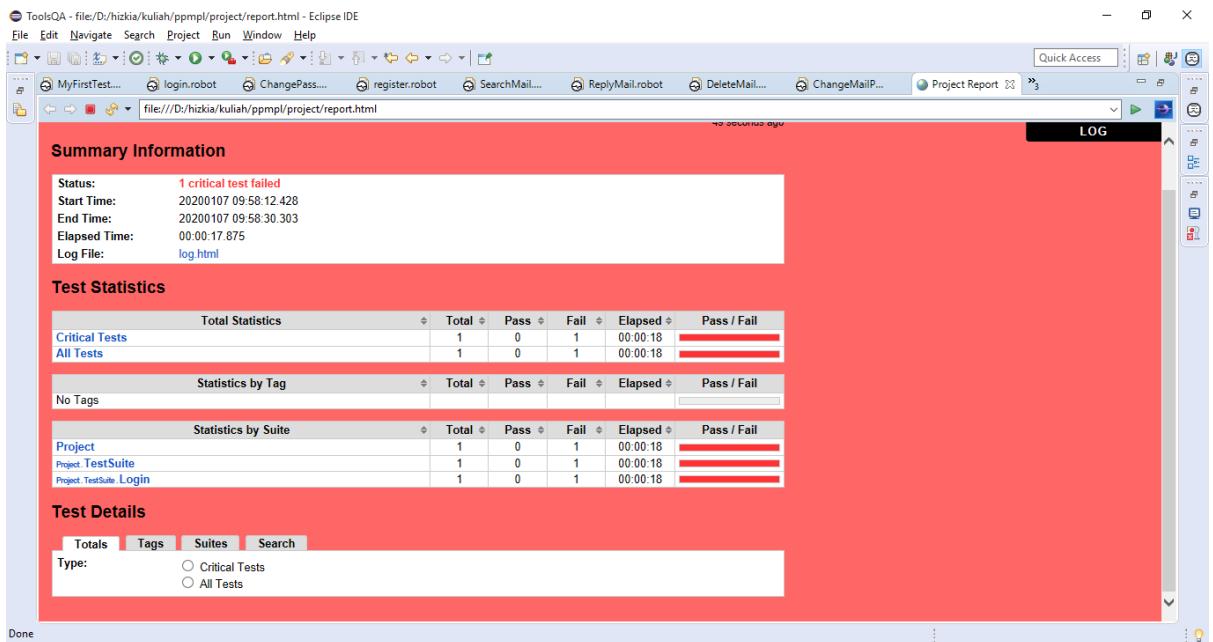
- Scenario

```
MyFirstTest.... login.robot ChangePass.... ChangeMailP... Project F
1 ⚡ *** Settings ***
2 Library SeleniumLibrary
3
4 ⚡ *** Test Cases ***
5 ⚡ Login
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1|
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13
14
15 Log Test completed
```

- Snippet Browser saat Testing



- Test Report



c. Test Case 3 (Email Invalid, Password Valid)

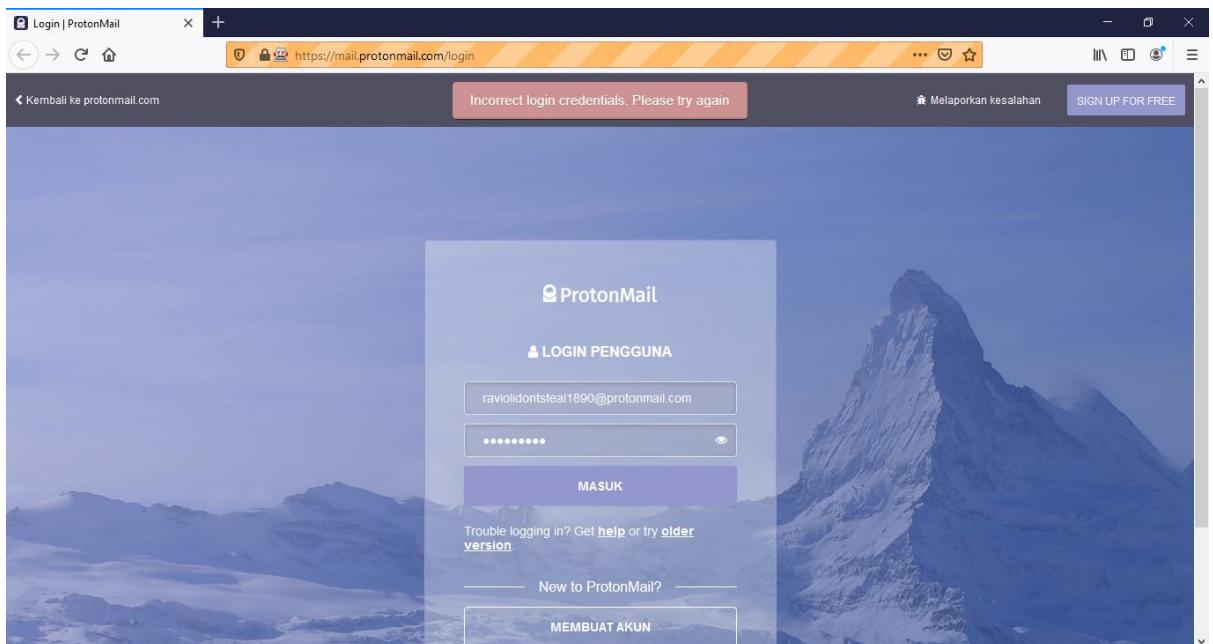
- Scenario

```

1④ *** Settings ***
2 Library SeleniumLibrary
3
4④ *** Test Cases ***
5④ Login
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidontsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13
14
15 Log Test completed

```

- Snippet Browser saat Testing



- Test Report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

MyFirstTest... login.robot ChangePass... register.robot SearchMail.... ReplyMail.robot DeleteMail... ChangeMailP... Project Report

file:///D:/hizkia/kuliah/ppmpl/project/report.html

Project Report

Generated 20200107 10:01:20 UTC+08:00
1 minute 42 seconds ago

Summary Information

Status:	1 critical test failed
Start Time:	20200107 10:01:02.246
End Time:	20200107 10:01:20.179
Elapsed Time:	00:00:17.933
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:18	FAIL
All Tests	1	0	1	00:00:18	FAIL

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	0	1	00:00:18	FAIL
Project: TestSuite	1	0	1	00:00:18	FAIL
Project: TestSuite.Login	1	0	1	00:00:18	FAIL

Test Details

Totals Tags Suites Search

Type: Critical Tests

Updates Available

Updates are available for your software. Click to review and install updates. Set up [Reminder options](#)

d. Test Case 4 (Email Invalid, Password Invalid)

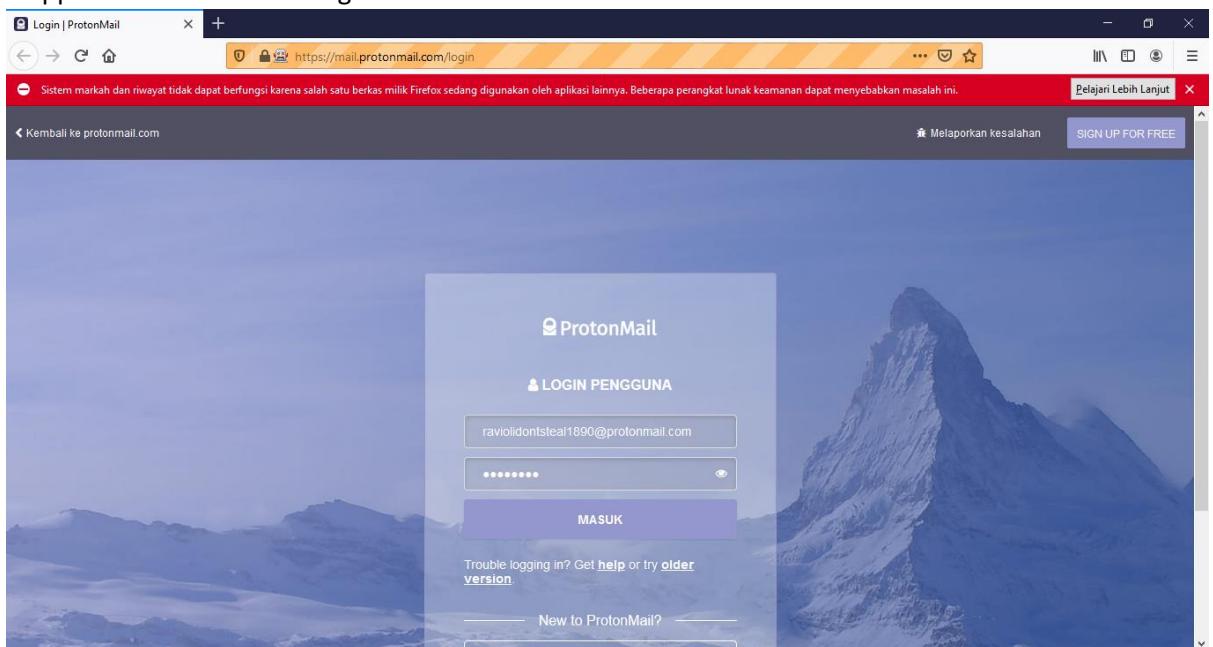
- Scenario

```

1@ *** Settings ***
2 Library    SeleniumLibrary
3
4@ *** Test Cases ***
5@ Login
6  Open browser  https://mail.protonmail.com/
7  Set Selenium Implicit Wait  5
8  Input Text  name=username  raviolidontsteal1890@protonmail.com
9  Input Password  name=password  Ravioli11
10 Click Element  xpath=//*[@id="login_btn"]
11 Input Text  name=mailbox-password  AARR
12 Click Element  xpath=//*[@id="unlock_btn"]
13
14
15 Log  Test completed

```

- Snippet Browser saat Testing



- Test Report

Project Report

Summary Information

Status:	1 critical test failed
Start Time:	20200107 10:04:58.435
End Time:	20200107 10:05:15.613
Elapsed Time:	00:00:17.178
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:17	FAIL
All Tests	1	0	1	00:00:17	FAIL

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	0	1	00:00:17	FAIL
Project.TestSuite	1	0	1	00:00:17	FAIL
Project.TestSuite.Login	1	0	1	00:00:17	FAIL

Test Details

Totals Tags Suites Search

Type: Critical Tests All Tests

Updates Available

Updates are available for your software. Click to review and install updates. Set up Reminder options.

e. Test Case 5 (Email Kosong, Password Kosong)

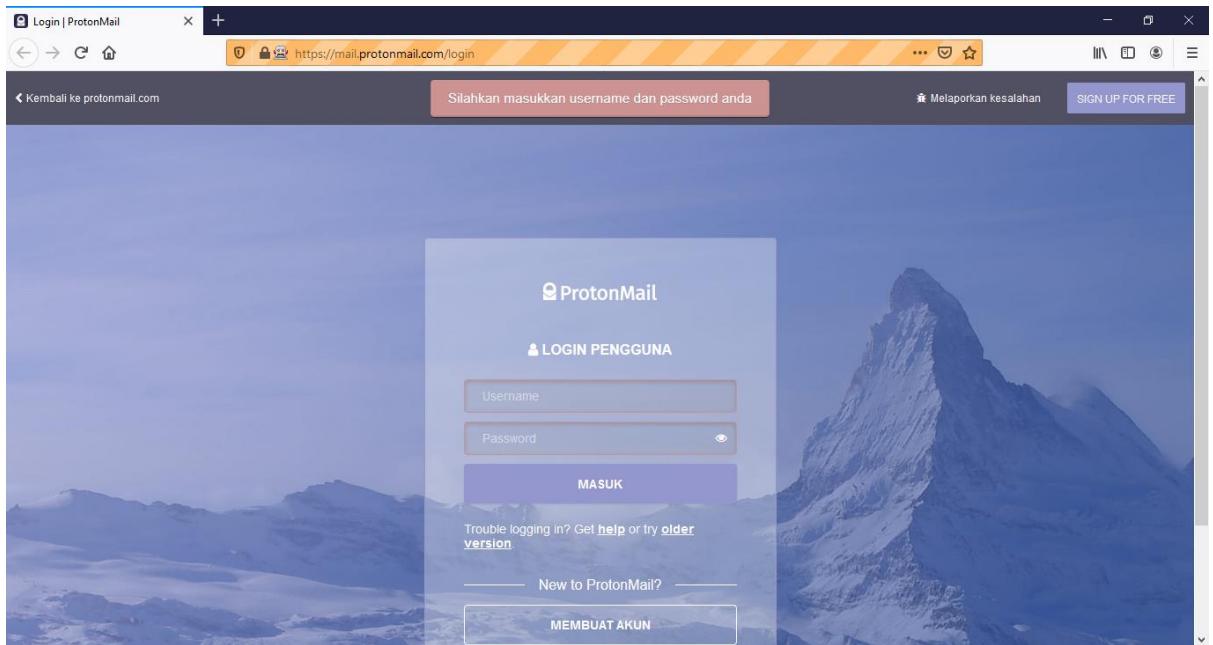
- Scenario

```

1① *** Settings ***
2 Library SeleniumLibrary
3
4② *** Test Cases ***
5③ Login
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 # Input Text name=username raviolidonotsteal1890@protonmail.com
9 # Input Password name=password Ravioli11
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13
14
15 Log Test completed

```

- Snippet Browser saat Testing



- Test Report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Report Generated 20200107 10:09:35 UTC+08:00 30 seconds ago

Project Report

Summary Information

Status:	1 critical test failed
Start Time:	20200107 10:09:17.503
End Time:	20200107 10:09:35.602
Elapsed Time:	00:00:18.099
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:18	FAIL
All Tests	1	0	1	00:00:18	FAIL

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	0	1	00:00:18	FAIL
Project: TestSuite	1	0	1	00:00:18	FAIL
Project: TestSuite.Login	1	0	1	00:00:18	FAIL

Test Details

Totals Tags Suites Search

Type: Critical Tests

Updates Available

Updates are available for your software. Click to review and install updates. Set up [Reminder options](#)

2.3.2 Fungsi B Change Password

f. Test Case 1 (Password Valid, New Password Valid, Confirm Password Valid)

- Scenario

```

1 MyFirstTest.... 2 login.robot 3 ChangePass.... 4 register.robot 5 ChangeMailP...
1  *** Settings ***
2 Library SeleniumLibrary
3
4  *** Test Cases ***
5 @ChangePass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[1]/p[1]/button
15 Log Test Completed

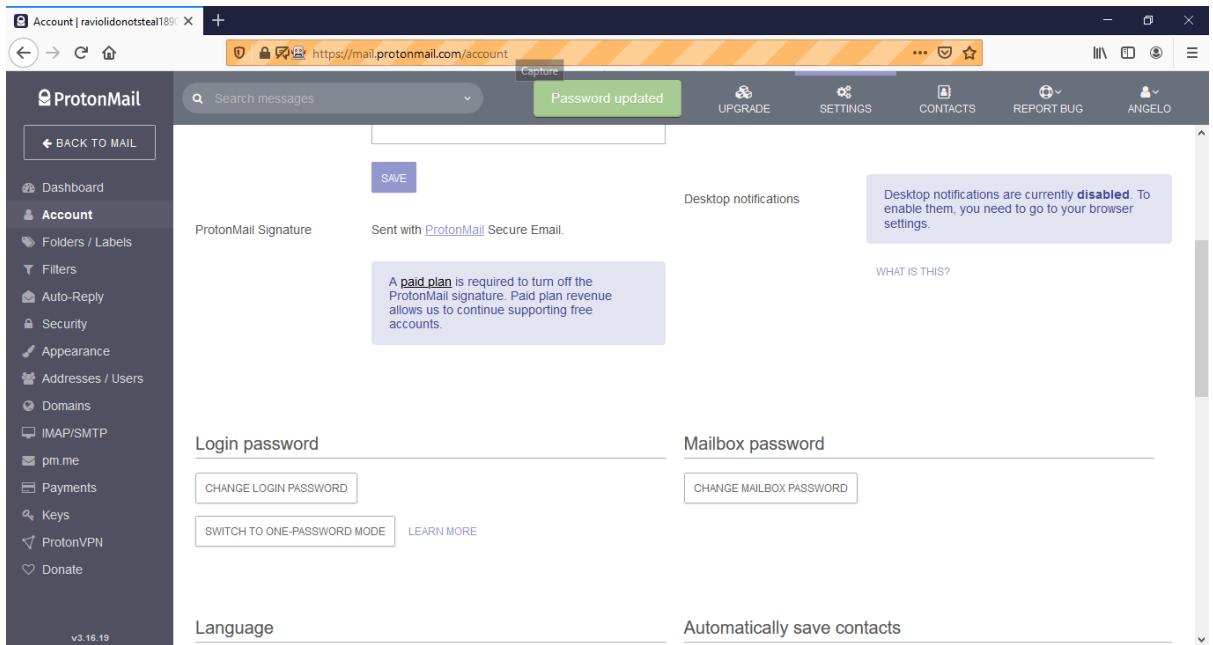
```

- Snippet browser saat testing

The image contains two screenshots of the ProtonMail account settings page, illustrating the password change process.

Screenshot 1: The user is prompted to "Sign in again to continue". A modal window asks for the "Login password". The user has entered "Ravioli1!". The "SUBMIT" button is visible at the bottom right of the modal.

Screenshot 2: The user is prompted to "Izinkan mail.protonmail.com untuk mengirimkan pemberitahuan?". Two options are shown: "Izinkan Pemberitahuan" (selected) and "Jangan Pernah Izinkan". The "SUBMIT" button is visible at the bottom right of the modal.



- Test Report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

MyFirstTest... login.robot ChangePass... register.robot SearchMail... ReplyMail.robot DeleteMail... ChangeMailP... Project Report LOG

Project Report

Generated 20200107 11:32:06 UTC+08:00
11 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 11:31:40.147
End Time:	20200107 11:32:06.111
Elapsed Time:	00:00:25.964
Log File:	log.html

Test Statistics

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	All Tests	1	1	0	00:00:26	<div style="width: 100%; background-color: #2e6b2e; height: 10px;"></div>
		1	1	0	00:00:26	<div style="width: 100%; background-color: #2e6b2e; height: 10px;"></div>

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:26	<div style="width: 100%; background-color: #2e6b2e; height: 10px;"></div>
Project.TestSuite		1	1	0	00:00:26	<div style="width: 100%; background-color: #2e6b2e; height: 10px;"></div>
Project.TestSuite.ChangePass		1	1	0	00:00:26	<div style="width: 100%; background-color: #2e6b2e; height: 10px;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests

g. Test Case 2 (Password Valid, New Password Invalid, Confirm Password Valid)

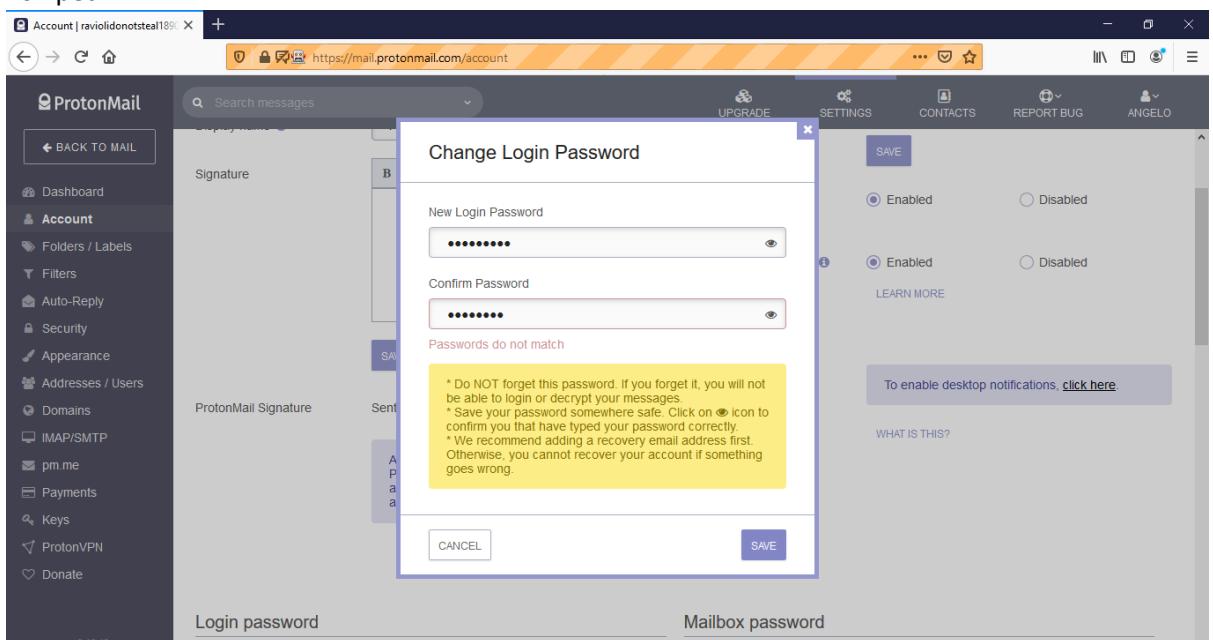
- Scenario

```

    *ChangePass... register.robot SearchMail.... ReplyMail.robot MoveMail.robot »6
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 ChangePass
6   Open browser https://mail.protonmail.com/
7   Set Selenium Implicit Wait 5
8   Input Text name=username raviolidonotsteal1890@protonmail.com
9   Input Password name=password Ravioli1!
10  Click Element xpath=//*[@id="login_btn"]
11  Input Text name=mailbox-password AARR
12  Click Element xpath=//*[@id="unlock_btn"]
13  Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14  Click Element xpath=/html/body/div[2]/div/div/div[2]/section[1]/p[1]/button
15  Input Text id=password Ravioli1!
16  Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17  Input Text id=newPassword Ravioli1!
18  Input Text id=confirmPassword Ravioli1|
19  Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20  Log Test Completed

```

- snipet



- test report

Project Report

Generated
20200107 11:41:57 UTC+08:00
1 minute 27 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 11:41:35.875
End Time:	20200107 11:41:57.819
Elapsed Time:	00:00:21.944
Log File:	log.html

Test Statistics

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	1	0	00:00:22	<div style="width: 100%; background-color: green;"></div>
All Tests		1	1	0	00:00:22	<div style="width: 100%; background-color: green;"></div>

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:22	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite		1	1	0	00:00:22	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite.ChangePass		1	1	0	00:00:22	<div style="width: 100%; background-color: green;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests

h. Test Case 3 (Password Valid, New Password Valid, Confirm Password Invalid)

- scenario

```

1 *** Settings ***
2 Library    SeleniumLibrary
3
4 *** Test Cases ***
5 ChangePass
6     Open browser      https://mail.protonmail.com/
7     Set Selenium Implicit Wait      5
8     Input Text      name=username      raviolidonotsteal1890@protonmail.com
9     Input Password    name=password      Ravioli1!
10    Click Element   xpath=//*[@id="login_btn"]
11    Input Text      name=mailbox-password      AARR
12    Click Element   xpath=//*[@id="unlock_btn"]
13    Click Element   xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14    Click Element   xpath=/html/body/div[2]/div[2]/div/div/div[2]/section[1]/p[1]/button
15    Input Text      id=password      Ravioli1!
16    Click Element   xpath=/html/body/div[1]/form/div[2]/button[2]
17    Input Text      id=newPassword      Ravioli11
18    Input Text      id=confirmPassword      Ravioli1!
19    Click Element   xpath=/html/body/div[1]/form/div[2]/button[2]
20    Log      Test Completed

```

- snippet

The screenshot shows the ProtonMail account settings interface. A modal dialog titled "Change Login Password" is open. It contains fields for "New Login Password" and "Confirm Password", both of which are masked as "*****". Below these fields, a message states "Passwords do not match". A yellow warning box contains the following text:

- * Do NOT forget this password. If you forget it, you will not be able to login or decrypt your messages.
- * Save your password somewhere safe. Click on icon to confirm you have typed your password correctly.
- * We recommend adding a recovery email address first. Otherwise, you cannot recover your account if something goes wrong.

At the bottom of the dialog are "CANCEL" and "SAVE" buttons. To the right of the dialog, there are sections for "UPGRADE", "SETTINGS", "CONTACTS", "REPORT BUG", and "ANGELO". Below the dialog, there are two sections: "Enabled" and "Disabled" with radio buttons, and a link to "LEARN MORE". At the bottom right, there is a link to "To enable desktop notifications, click here".

- test report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

MyFirstTest.... login.robot ChangePass.... register.robot SearchMail.... ReplyMail.robot DeleteMail.... ChangeMailP... Project Report

file:///D:/hizkia/kuliah/ppmpl/project/report.html

Project Report

Generated 20200107 11:46:05 UTC+08:00
31 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 11:45:44.285
End Time:	20200107 11:46:05.603
Elapsed Time:	00:00:21.318
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:21	
All Tests	1	1	0	00:00:21	

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:21	
Project_TestSuite	1	1	0	00:00:21	
Project_TestSuite_ChangePass	1	1	0	00:00:21	

Test Details

Totals Tags Suites Search

Type: Critical Tests

i. Test Case 4 (Password Valid, New Password Kosong, Confirm Password Valid)

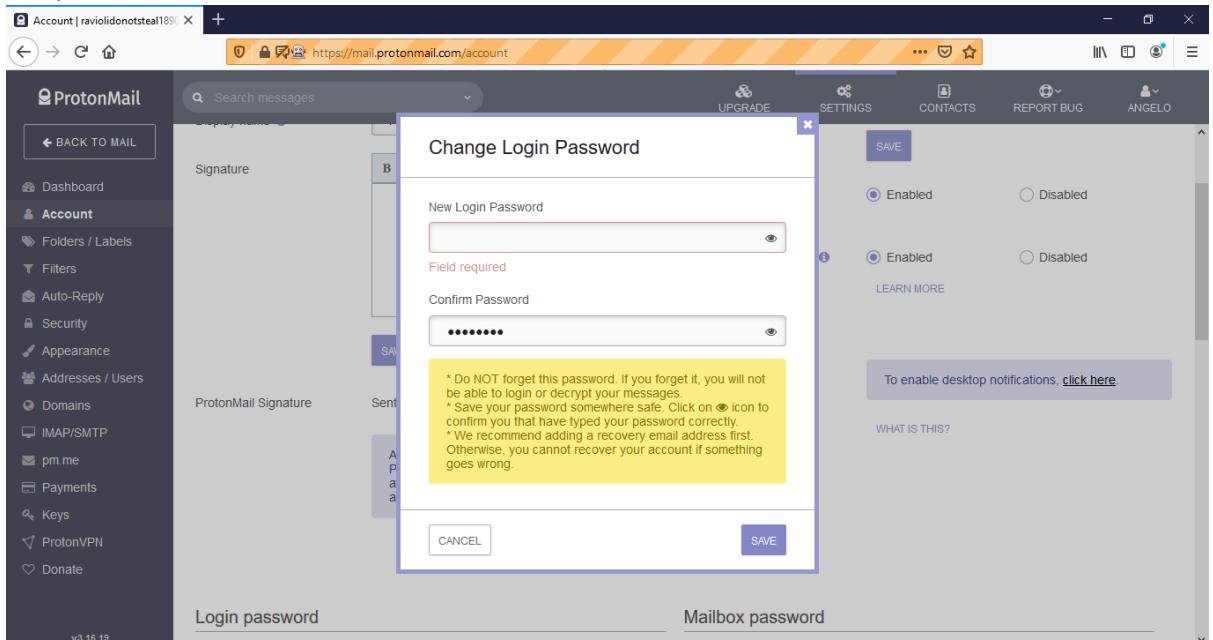
- scenario

```

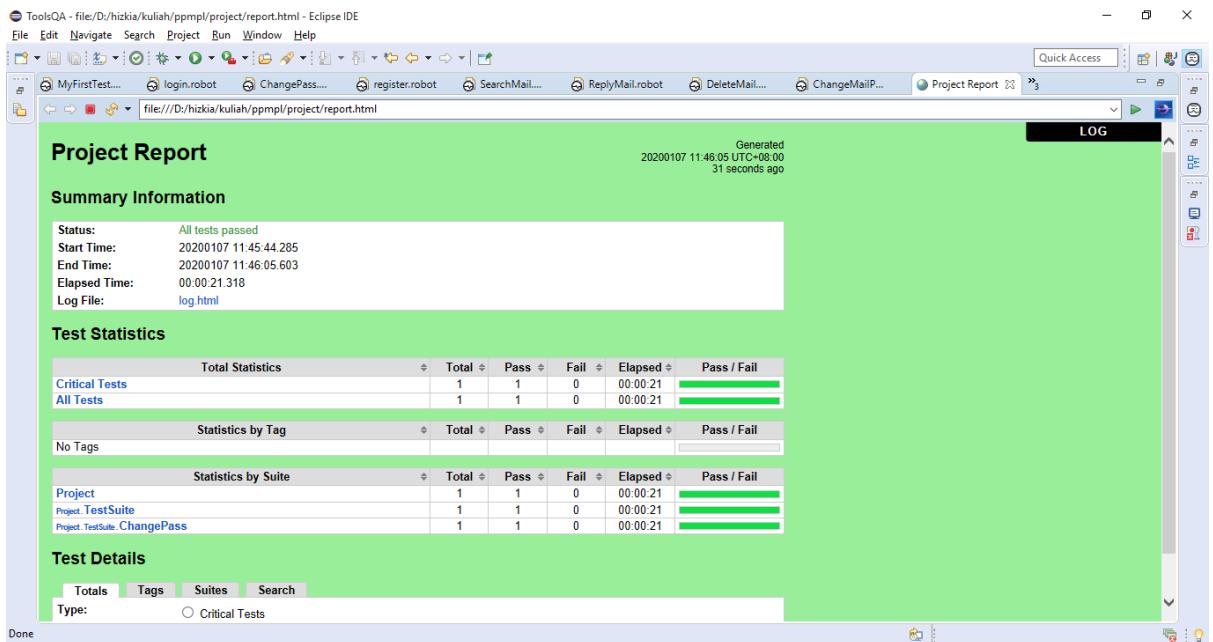
MyFirstTest.... login.robot ChangePass.... register.robot ChangeMailP...
1*** Settings ***
2 Library SeleniumLibrary
3
4*** Test Cases ***
5@ChangePass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[1]/p[1]/button
15 Input Text id=password Ravioli1!
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 # Input Text id=newPassword Ravioli1
18 Input Text id=confirmPassword Ravioli1
19 Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log Test Completed

```

- snippet



- test report



j. Test Case 5 (Password Invalid, New Password Valid, Confirm Password Valid)

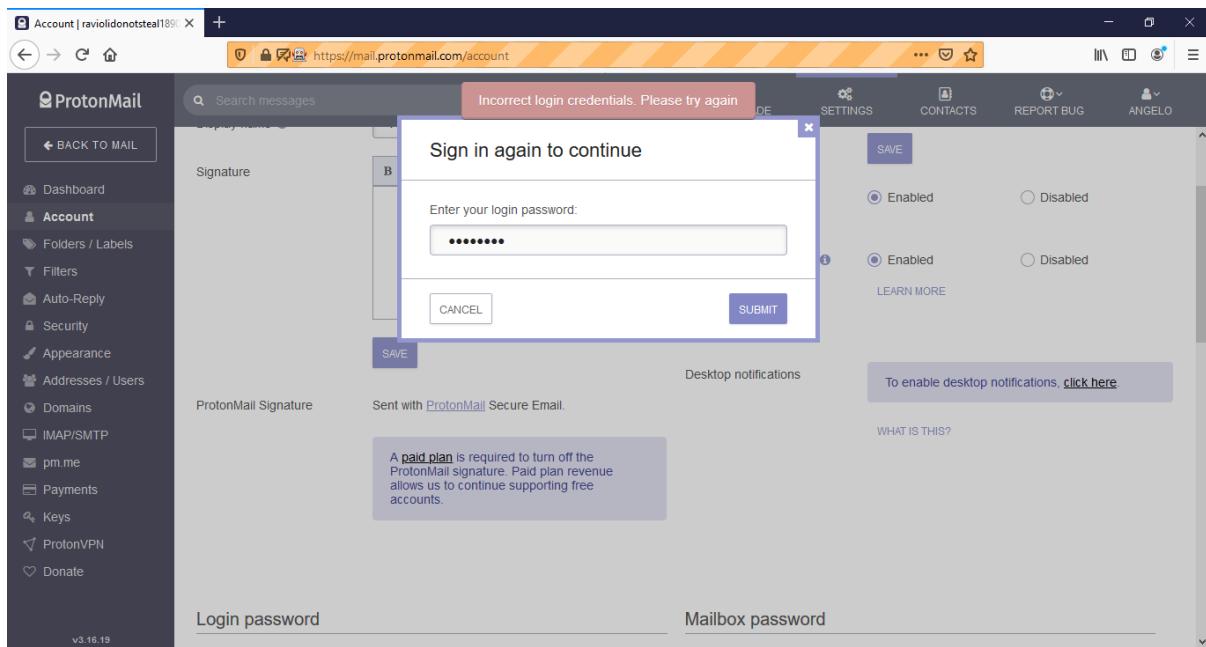
- scenario

```

MyFirstTest.... login.robot ChangePass.... register.robot ChangeMailP...
1*** Settings ***
2 Library SeleniumLibrary
3
4*** Test Cases ***
5@ChangePass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[1]/p[1]/button
15 Input Text id=password Ravioli1|
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 Input Text id=newPassword Ravioli1
18 Input Text id=confirmPassword Ravioli1
19 Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log Test Completed

```

- snippet



- test report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Report LOG

Project Report

Generated 20200107 11:53:58 UTC+08:00
27 seconds ago

Summary Information

Status:	1 critical test failed
Start Time:	20200107 11:53:29.351
End Time:	20200107 11:53:58.696
Elapsed Time:	00:00:29.345
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:29	FAIL
All Tests	1	0	1	00:00:29	FAIL

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	0	1	00:00:29	FAIL
Project.TestSuite	1	0	1	00:00:29	FAIL
Project.TestSuite.ChangePass	1	0	1	00:00:29	FAIL

Test Details

Totals Tags Suites Search

Type: Critical Tests

2.3.3 Fungsi C Change Notification Email

k. Test Case 1 (Email Valid, Password Valid)

- Scenario

```

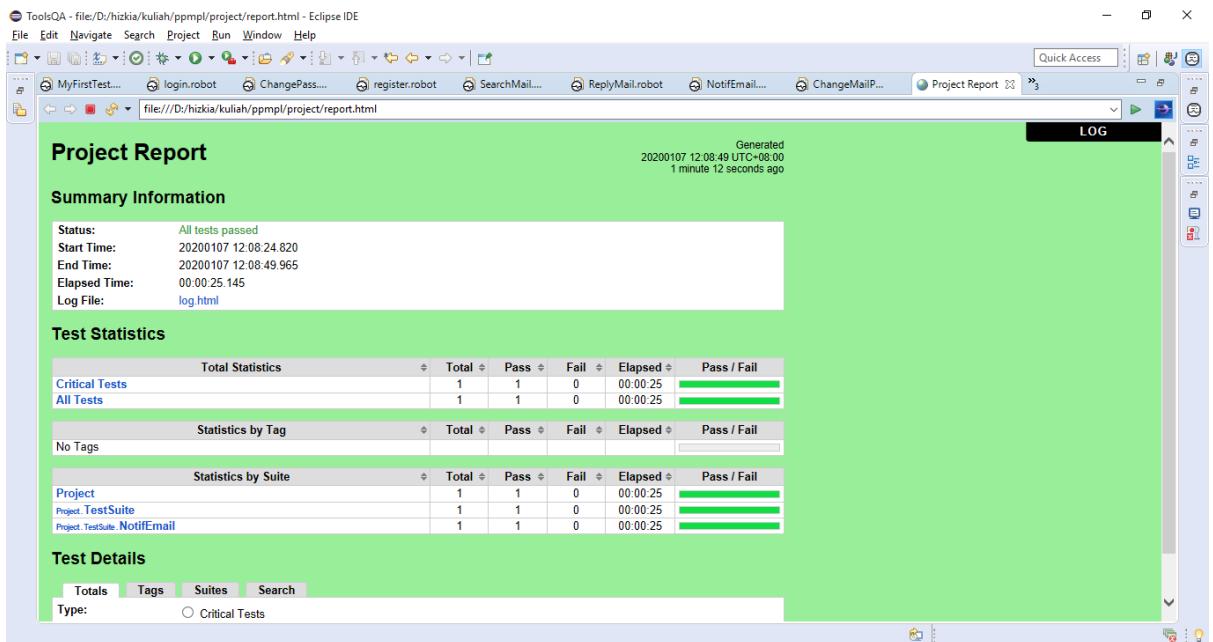
1@ *** Settings ***
2 Library      SeleniumLibrary
3
4@ *** Test Cases ***
5@ NotifEmail
6  Open browser  https://mail.protonmail.com/
7  Set Selenium Implicit Wait  5
8  Input Text    name=username  raviolidonotsteal1890@protonmail.com
9  Input Password  name=password  Ravioli1!
10 Click Element  xpath=//*[@id="login_btn"]
11 Input Text    name=mailbox-password  AARR
12 Click Element  xpath=//*[@id="unlock_btn"]
13 Click Element  xpath=/html/body/div[2]/header/div/ul/li[3]/a/span
14 Click Element  xpath=/html/body/div[2]/div[2]/div/div/div[1]/section[2]/form/div[2]/div[2]
15 Click Element  xpath=/html/body/div[2]/div[2]/div/div/div[1]/section[2]/form/div[2]/div[2]
16 Input Text    id=password  Ravioli1!
17 Click Element  xpath=/html/body/div[1]/form/div[2]/button[2]
18
19 Log    Test completed

```

- Snippet browser saat testing

The screenshot shows the ProtonMail account settings interface. On the left is a sidebar with various options like Dashboard, Account (selected), Folders / Labels, Filters, Auto-Reply, Security, Appearance, Addresses / Users, Domains, IMAP/SMTP, pm.me, Payments, Keys, ProtonVPN, and Donate. The main area has two tabs: 'Identity' and 'Notifications'. In the 'Identity' tab, there's a 'Address' field with the value 'raviolidonotsteal1890@protonmail.com', a 'Display name' field with 'Angelo', and a 'Signature' section with a rich text editor. A 'SAVE' button is at the bottom. In the 'Notifications' tab, there's a 'Reset/notification email' field with 'arcnum71999@gmail.com', a note about using it for password resets, and two radio buttons for 'Allow password reset': 'Enabled' (selected) and 'Disabled'. There are also sections for 'Daily email notifications' (Enabled) and 'Desktop notifications' (disabled). A note says desktop notifications are disabled and needs browser settings. A 'WHAT IS THIS?' link is at the bottom right.

- Test Report



I. Test Case 2 (Email Valid, Password Invalid)

- scenario

```

MyFirstTest... login.robot ChangePass... NotifEmail... ChangeMailP...
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 NotifEmail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/span
14 Click Element xpath=/html/body/div[2]/div/div/div[1]/section[2]/form/div[2]/div[2]
15 Input Text id=password Ravioli1
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17
18 Log Test completed

```

- snippet

The screenshot shows the ProtonMail account settings interface. On the left, a sidebar lists various account management options like Dashboard, Folders / Labels, Filters, Auto-Reply, Security, Appearance, Addresses / Users, Domains, IMAP/SMTP, pm.me, Payments, Keys, ProtonVPN, and Donate. The main area is divided into two sections: Identity and Notifications.

Identity:

- Address: raviolidonotsteal1890@protonmail.com
- Display name: Angelo
- Signature: A rich text editor placeholder for a signature.
- ProtonMail Signature: Sent with [ProtonMail Secure Email](#).

Notifications:

- Reset/notification email: arcnum71999@gmail.com
- Allow password reset: Enabled (radio button selected)
- Daily email notifications: Enabled (radio button selected)
- Desktop notifications: A note states "To enable desktop notifications, [click here](#)".

Project Report (Eclipse IDE):

The report is titled "Project Report" and was generated on 2020/07/12 12:15:02 UTC+08:00 (45 seconds ago). It includes a summary of test results and detailed statistics for critical tests, all tests, and project suites.

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	1	0	00:00:26	Pass
All Tests		1	1	0	00:00:26	Pass

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags		1	1	0	00:00:26	Pass

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:26	Pass
Project TestSuite		1	1	0	00:00:26	Pass
Project TestSuite NotifEmail		1	1	0	00:00:26	Pass

Test Details: The report includes tabs for Totals, Tags, Suites, and Search. The Type dropdown is set to "Critical Tests".

m. Test Case 3 (Email Invalid, Password Valid)

- scenario

```

MyFirstTest.... login.robot ChangePass.... NotifEmail.... ChangeMailP... »6
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 @NotifEmail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/span
14 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]/
15 Input Text id=password Ravioli1
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 Input Text id=notificationEmail arcnum71999
18 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]/
19
20 Log Test completed

```

- snippet

- test report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Capture Quick Access

Project Report LOG

Project Report

Generated
20200107 12:19:26 UTC+08:00
38 seconds ago

Summary Information

Status:	1 critical test failed
Start Time:	20200107 12:19:02.624
End Time:	20200107 12:19:26.561
Elapsed Time:	00:00:23.937
Log File:	log.html

Test Statistics

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	0	1	00:00:24	<div style="width: 0%; background-color: red;"></div>
All Tests		1	0	1	00:00:24	<div style="width: 0%; background-color: red;"></div>

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	0	1	00:00:24	<div style="width: 0%; background-color: red;"></div>
Project.TestSuite		1	0	1	00:00:24	<div style="width: 0%; background-color: red;"></div>
Project.TestSuite.NotifEmail		1	0	1	00:00:24	<div style="width: 0%; background-color: red;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests

n. Test Case 4 (Email Invalid, Password Invalid)

- scenario

```

MyFirstTest.... login.robot ChangePass.... NotifEmail.... ChangeMailP... »6
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 NotifEmail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div[1]/li[3]/a/span
14 Input Text id=notificationEmail arcnum71999
15 # Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]
16 Input Text id=loginPassword Ravioli1!
17 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
18
19 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]
20
21 Log Test completed

```

- snippet

The screenshot shows the ProtonMail account settings interface. On the left, a sidebar lists various account management options like Dashboard, Filters, Auto-Reply, Security, Appearance, Addresses / Users, Domains, IMAP/SMTP, pm.me, Payments, Keys, ProtonVPN, and Donate. The main area is divided into two sections: Identity and Notifications.

Identity:

- Address: raviolidonotsteal1890@protonmail.com
- Display name: Angelo
- Signature: A rich text editor placeholder for a signature.
- ProtonMail Signature: Sent with [ProtonMail Secure Email](#).

Notifications:

- Reset/notification email: arcnum71999 (highlighted in red)
- Allow password reset: Enabled (radio button selected)
- Daily email notifications: Enabled (radio button selected)
- Desktop notifications: A note says "A paid plan is required to turn off the ProtonMail signature. Paid plan revenue allows us to continue supporting free accounts."
- To enable desktop notifications, [click here](#).

Project Report:

The report is titled "Project Report" and was generated on 2020/07/12 26:00 UTC+08:00, 34 seconds ago. It shows the following summary information:

Status:	1 critical test failed
Start Time:	2020/07/12 25:32:527
End Time:	2020/07/12 26:00:425
Elapsed Time:	00:00:27.898
Log File:	log.html

Test Statistics:

Total Statistics					
	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	0	1	00:00:28	█
All Tests	1	0	1	00:00:28	█

Statistics by Tag					
	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags	1	0	1	00:00:28	█

Statistics by Suite					
	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	0	1	00:00:28	█
Project: TestSuite	1	0	1	00:00:28	█
Project: TestSuite: NotifEmail	1	0	1	00:00:28	█

Test Details:

Totals: 1 Critical Tests

o. Test Case 5 (Email Kosong, Password Kosong)

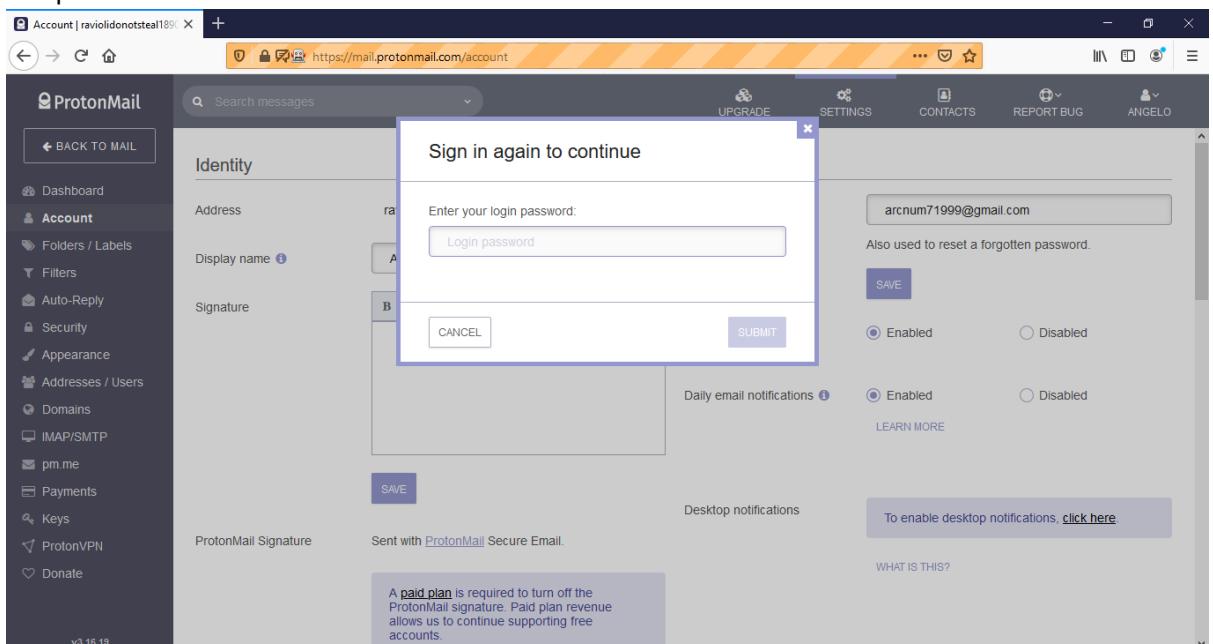
- scenario

```

1 MyFirstTest... 2 login.robot 3 ChangePass.... 4 NotifEmail.... 5 ChangeMailP... 6
1*** Settings ***
2 Library SeleniumLibrary
3
4*** Test Cases ***
5@NotifEmail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/span
14 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]/
15 # Input Text id=password Ravioli1!
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 # Input Text id=notificationEmail
18 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section[2]/form/div[2]/div[2]/
19
20 Log Test completed

```

- snippet



- test report

The screenshot shows the 'Project Report' window in Eclipse IDE. The title bar says 'ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE'. The window displays a 'Project Report' generated on 2020/01/07 at 12:34:32 UTC+08:00, 40 seconds ago. It includes sections for 'Summary Information', 'Test Statistics' (with tables for Critical Tests, All Tests, and Statistics by Tag), and 'Test Details' (with tabs for Totals, Tags, Suites, and Search). The 'Test Details' tab is active, showing a search bar for 'Type: Critical Tests'.

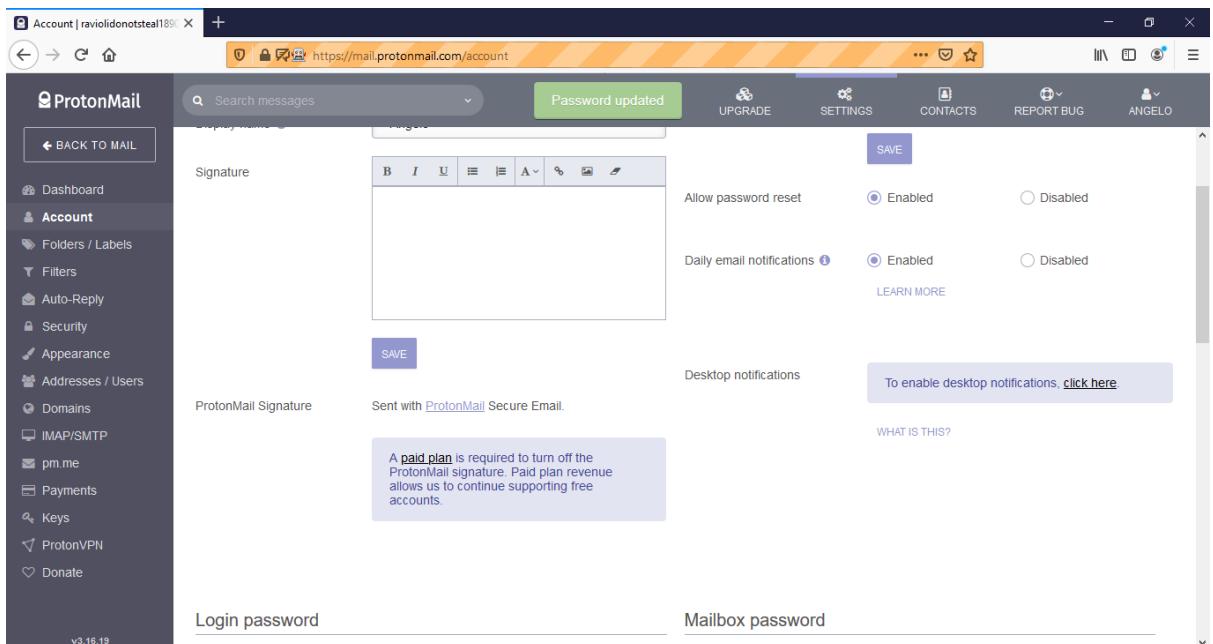
2.3.4 Fungsi D Change Mail Password

p. Test Case 1 (Password Valid, New Mail Password Valid, Confirm Mail Password Valid)

- Scenario

```
1④ *** Settings ***
2 Library SeleniumLibrary
3
4④ *** Test Cases ***
5④ ChangeMailPass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div[1]/li[3]/a
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[2]/p/button
15 Input Text id=password Ravioli1!
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 Input Text id=newPassword Ravioli1
18 Input Text id=confirmPassword Ravioli1
19 Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log Test Completed
```

- Snippet browser saat testing



- Test Report

Project Report

Generated
20200107 12:56:37 UTC+08:00
2 minutes 55 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 12:56:13.928
End Time:	20200107 12:56:37.836
Elapsed Time:	00:00:23.908
Log File:	log.html

Test Statistics

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	1	0	00:00:24	<div style="width: 100%; background-color: green;"></div>
All Tests		1	1	0	00:00:24	<div style="width: 100%; background-color: green;"></div>

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						<div style="width: 0%; background-color: grey;"></div>

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:24	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite		1	1	0	00:00:24	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite.ChangeMailPass		1	1	0	00:00:24	<div style="width: 100%; background-color: green;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests All Tests

q. Test Case 2 (Password Valid, New Mail Password Valid, Confirm Mail Password Invalid)

- scenario

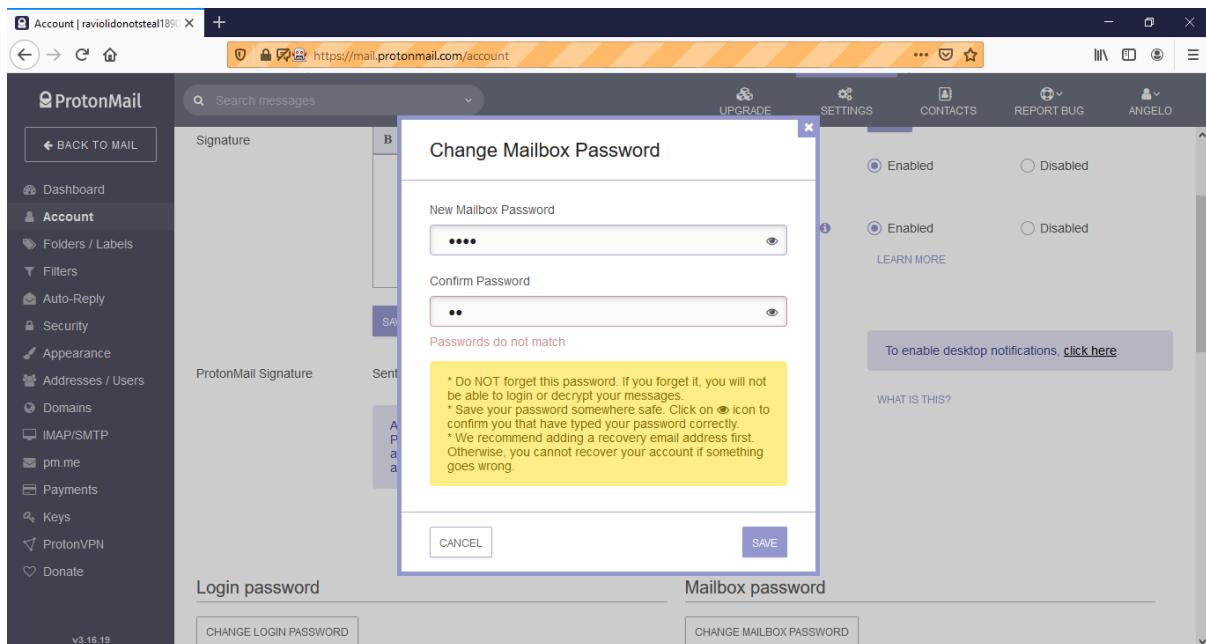
MyFirstTest.... login.robot ChangePass.... register.robot ChangeMailP... »6

```

1④ **** Settings ***
2 Library      SeleniumLibrary
3
4④ **** Test Cases ***
5@ ChangeMailPass
6  Open browser    https://mail.protonmail.com/
7  Set Selenium Implicit Wait  5
8  Input Text      name=username    raviolidonotsteal1890@protonmail.com
9  Input Password   name=password    Ravioli1!
10 Click Element   xpath=//*[@id="login_btn"]
11 Input Text      name=mailbox-password  AARR
12 Click Element   xpath=//*[@id="unlock_btn"]
13 Click Element   xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element   xpath=/html/body/div[2]/div/div/div[2]/section[2]/p/button
15 Input Text      id=password    Ravioli1!
16 Click Element   xpath=/html/body/div[1]/form/div[2]/button[2]
17 Input Text      id=newPassword  AARR
18 Input Text      id=confirmPassword AA
19 Click Element   xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log    Test Completed

```

- snippet



- test report

Project Report

Generated
20200107 14:01:50 UTC+08:00
11 minutes 11 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 14:01:25.908
End Time:	20200107 14:01:50.748
Elapsed Time:	00:00:24.840
Log File:	log.html

Test Statistics

Total Statistics		Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	1	0	00:00:25	<div style="width: 100%; background-color: green;"></div>
All Tests		1	1	0	00:00:25	<div style="width: 100%; background-color: green;"></div>

Statistics by Tag		Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						

Statistics by Suite		Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:25	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite		1	1	0	00:00:25	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite.ChangeMailPass		1	1	0	00:00:25	<div style="width: 100%; background-color: green;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests

r. Test Case 3 (Password Valid, New Mail Password Kosong, Confirm Mail Password Valid)

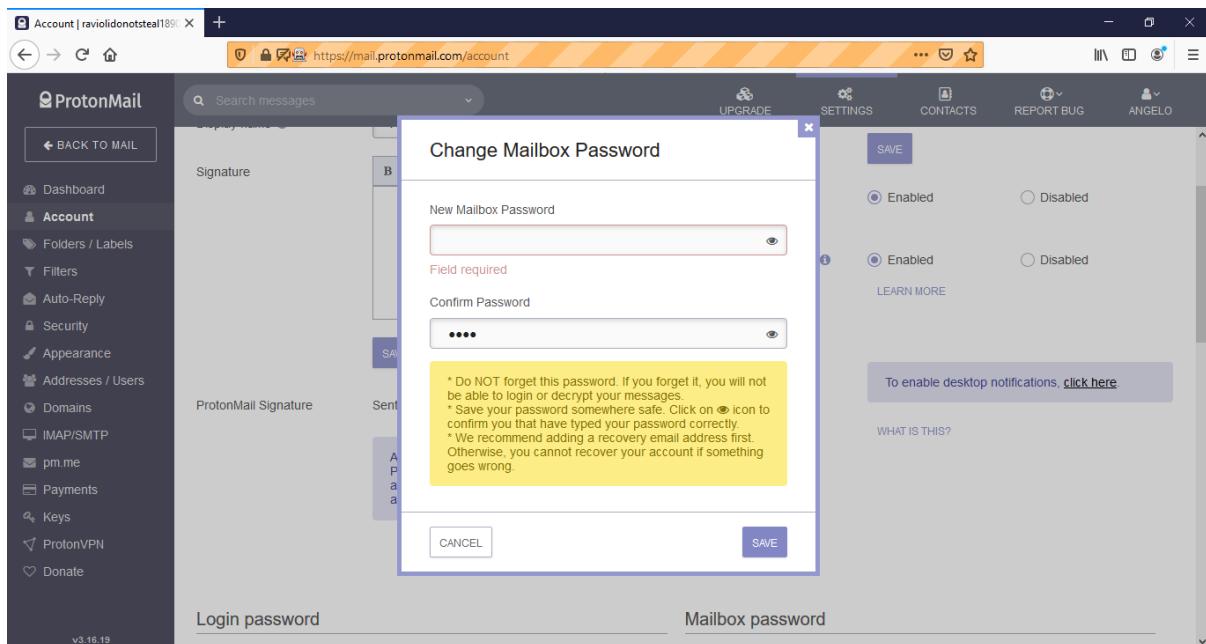
- scenario

```

1④ *** Settings ***
2 Library SeleniumLibrary
3
4④ *** Test Cases ***
5④ ChangeMailPass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[2]/p/button
15 Input Text id=password Ravioli1!
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 # Input Text id=newPassword AARR
18 Input Text id=confirmPassword AARR
19 Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log Test Completed

```

- snippet



- test report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Report LOG

Project Report

Generated 20200107 14:16:08 UTC+08:00
1 minute 12 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 14:15:41.573
End Time:	20200107 14:16:08.396
Elapsed Time:	00:00:26.823
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:27	██████████
All Tests	1	1	0	00:00:27	██████████

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:27	██████████
Project.TestSuite	1	1	0	00:00:27	██████████
Project.TestSuite.ChangeMailPass	1	1	0	00:00:27	██████████

Test Details

Totals Tags Suites Search

Type: Critical Tests

s. Test Case 4 (Password Valid, New Mail Password Valid, Confirm Mail Password Kosong)

- scenario

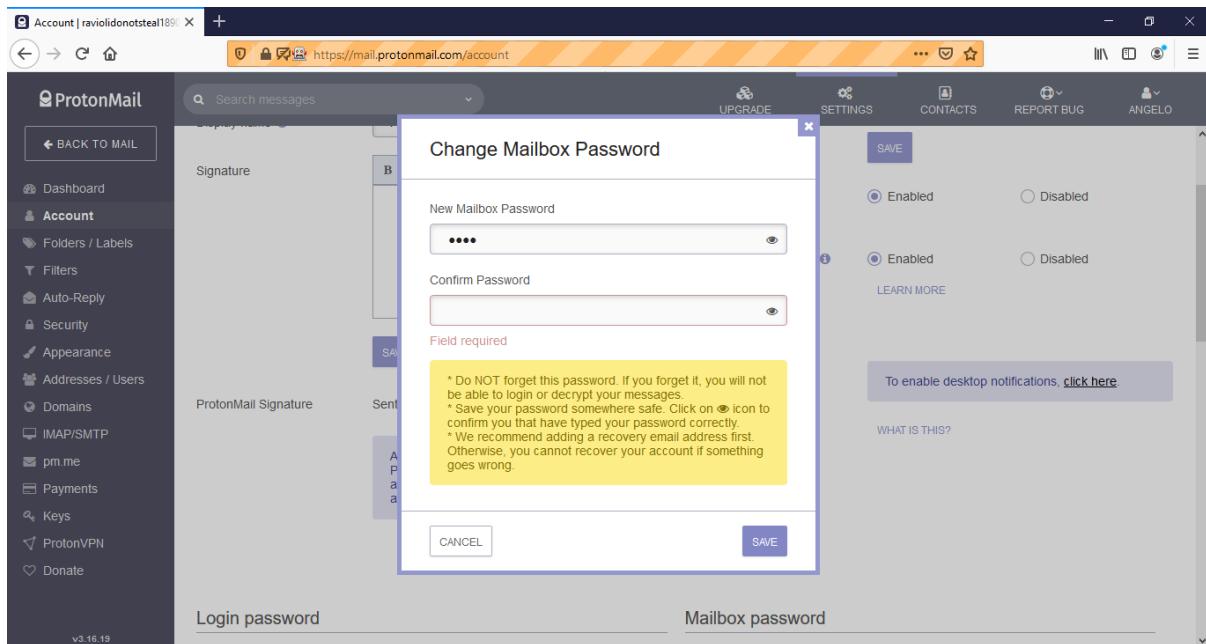
MyFirstTest... login.robot ChangePass... register.robot ChangeMailP... » 6

```

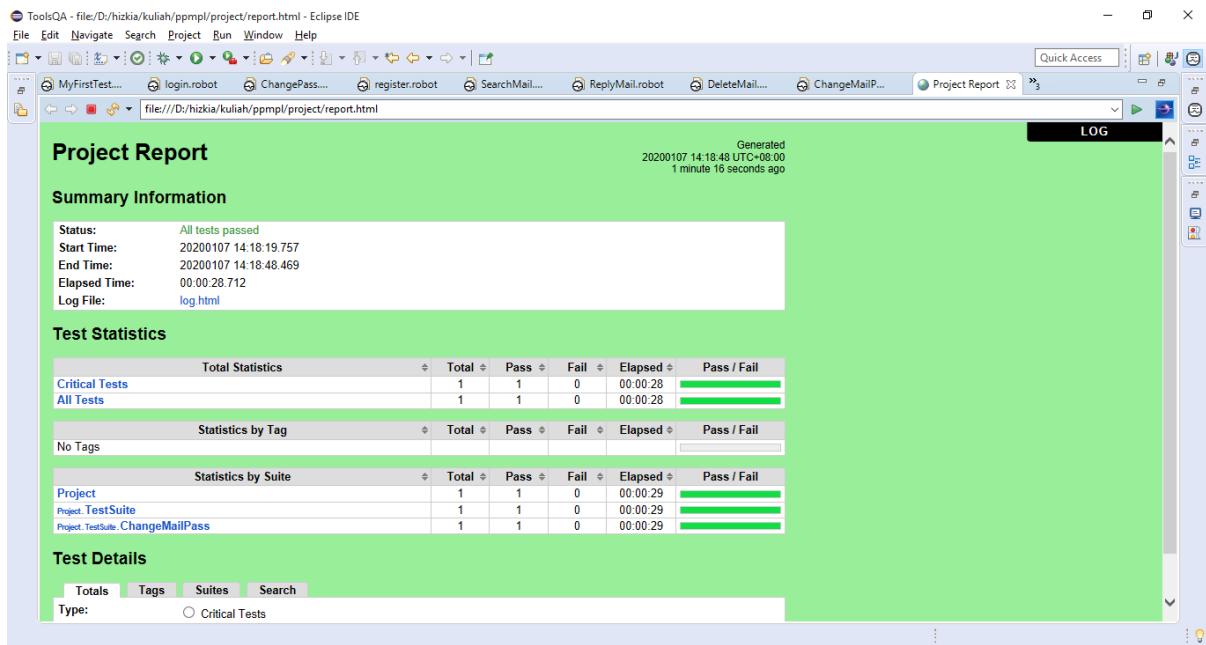
1④ *** Settings ***
2 Library SeleniumLibrary
3
4④ *** Test Cases ***
5④ ChangeMailPass
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element xpath=/html/body/div[2]/div/div/div[2]/section[2]/p/button
15 Input Text id=password Ravioli1!
16 Click Element xpath=/html/body/div[1]/form/div[2]/button[2]
17 Input Text id=newPassword AARR
18 # Input Text id=confirmPassword AARR
19 Click Element xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log Test Completed

```

- snippet



- test report



t. Test Case 5 (Password Valid, New Mail Password Kosong, Confirm Mail Password Kosong)

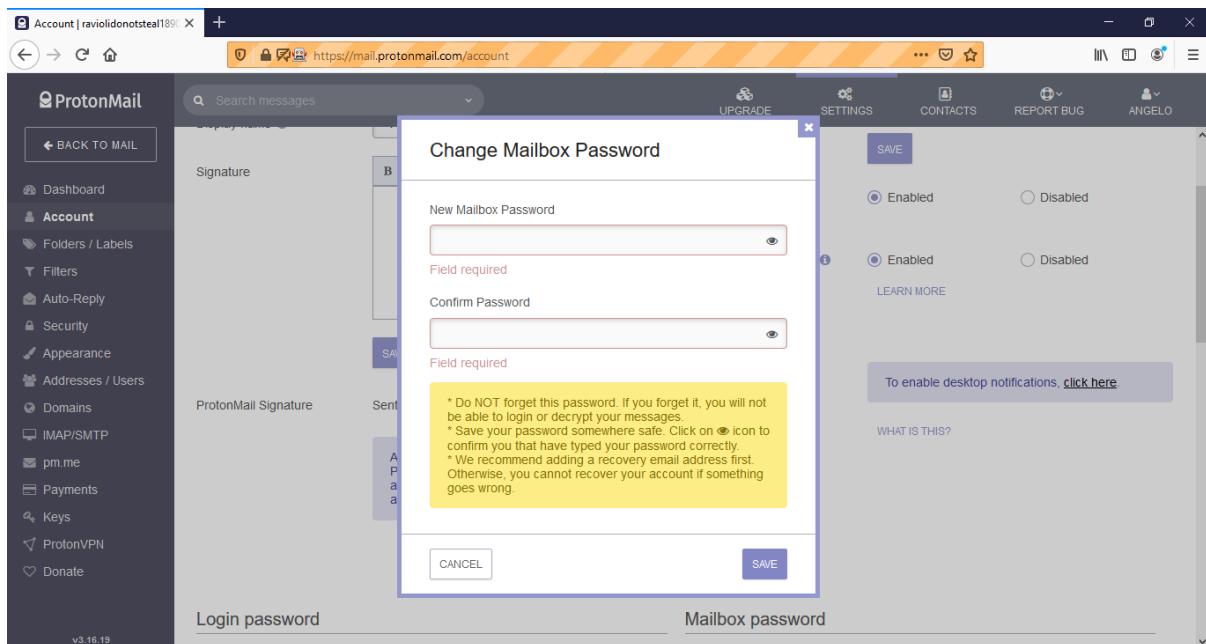
- scenario

```

1④ *** Settings ***
2 Library    SeleniumLibrary
3
4④ *** Test Cases ***
5④ ChangeMailPass
6  Open browser      https://mail.protonmail.com/
7  Set Selenium Implicit Wait  5
8  Input Text      name=username      raviolidonotsteal1890@protonmail.com
9  Input Password   name=password      Ravioli1!
10 Click Element   xpath=//*[@id="login_btn"]
11 Input Text      name=mailbox-password  AARR
12 Click Element   xpath=//*[@id="unlock_btn"]
13 Click Element   xpath=/html/body/div[2]/header/div/ul/li[3]/a/i
14 Click Element   xpath=/html/body/div[2]/div[2]/div/div[2]/section[2]/p/button
15 Input Text      id=password      Ravioli1!
16 Click Element   xpath=/html/body/div[1]/form/div[2]/button[2]
17 # Input Text    id=newPassword  AARR
18 # Input Text    id=confirmPassword  AARR
19 Click Element   xpath=/html/body/div[1]/div[1]/form/div[2]/button[2]
20 Log    Test Completed

```

- snippet



- test report

ToolsQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Report LOG

Project Report

Generated 20200107 14:21:30 UTC+08:00
1 minute 20 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 14:21:00.605
End Time:	20200107 14:21:30.950
Elapsed Time:	00:00:30.345
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:30	Pass
All Tests	1	1	0	00:00:30	Pass

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:30	Pass
Project.TestSuite	1	1	0	00:00:30	Pass
Project.TestSuite.ChangeMailPass	1	1	0	00:00:30	Pass

Test Details

Totals Tags Suites Search

Type: Critical Tests

2.3.5 Fungsi E Delete Mail

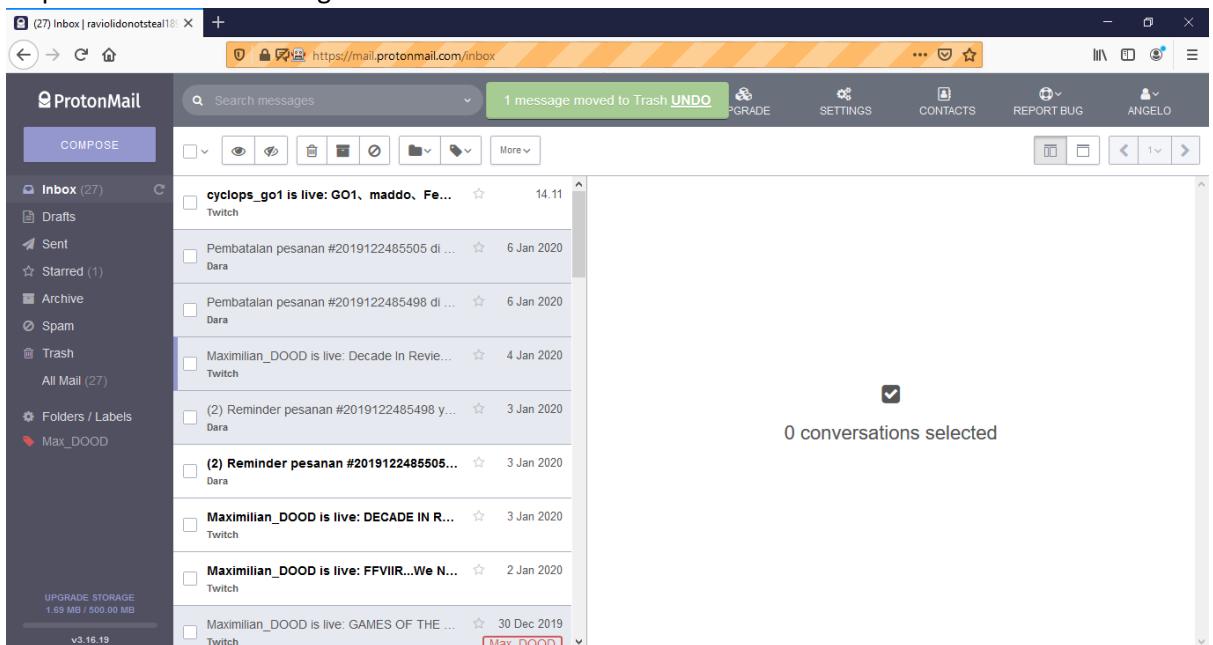
- Scenario

```

10 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 @DeleteMail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/div[2]/element-view/div/section/div/article/div[2]
14 Click Element xpath=/html/body/div[2]/div[2]/element-view/div/section/div/article/div[2]
15 Click Element xpath=/html/body/div[2]/div[2]/element-view/div/section/div/article/div[2]
16 Log Test Completed

```

- Snippet browser saat testing



- Test Report

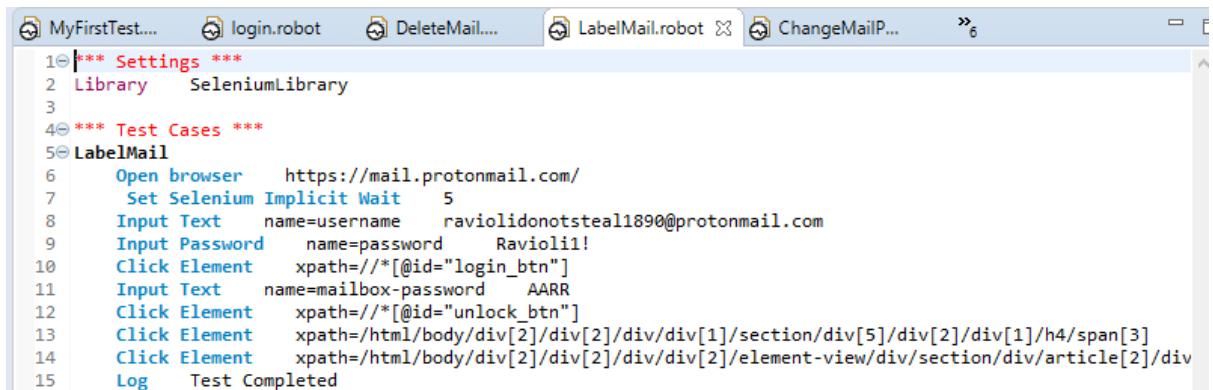
Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:21	█
All Tests	1	1	0	00:00:21	█

Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:21	█
Project.TestSuite	1	1	0	00:00:21	█
Project.TestSuite.DeleteMail	1	1	0	00:00:21	█

2.3.6 Fungsi F Label Mail

- Scenario

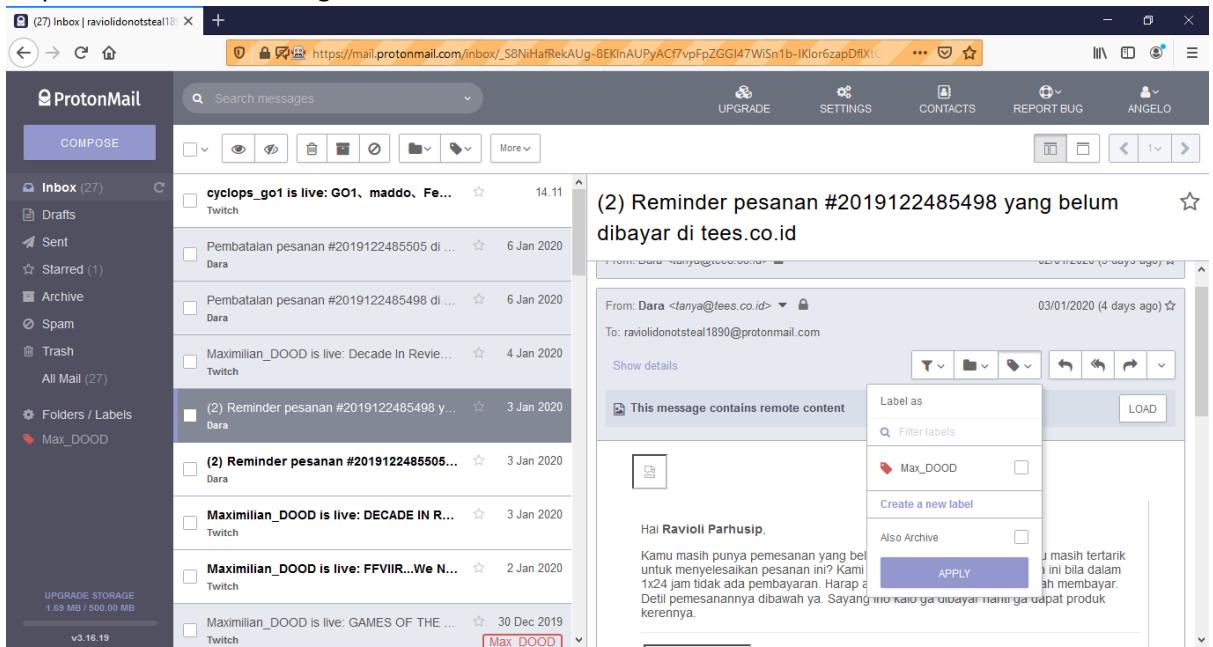


```

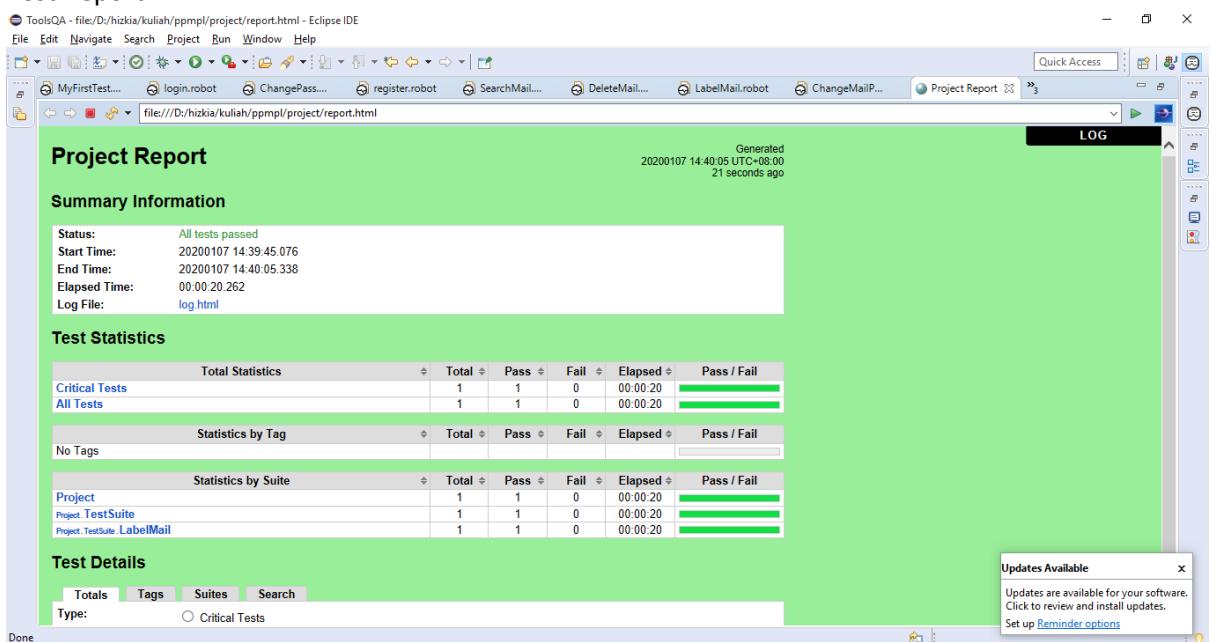
1 *** Settings ***
2 Library    SeleniumLibrary
3
4 *** Test Cases ***
5 @LabelMail
6     Open browser      https://mail.protonmail.com/
7     Set Selenium Implicit Wait  5
8     Input Text        name=username  raviolidonotsteal1890@protonmail.com
9     Input Password    name=password  Ravioli!
10    Click Element    xpath=//*[@id="login_btn"]
11    Input Text        name=mailbox-password  AARR
12    Click Element    xpath=/html/body/div[2]/div[2]/div[1]/section/div[5]/div[2]/div[1]/h4/span[3]
13    Click Element    xpath=/html/body/div[2]/div[2]/div[2]/element-view/div/section/div/article[2]/div
14    Log              Test Completed
15

```

- Snippet browser saat testing



- Test Report



The screenshot shows the 'Project Report' window in Eclipse IDE. It displays the following information:

- Summary Information:**

Status:	All tests passed
Start Time:	20200107 14:39:45.076
End Time:	20200107 14:40:05.338
Elapsed Time:	00:00:20.262
Log File:	log.html
- Test Statistics:**

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:20	█
All Tests	1	1	0	00:00:20	█

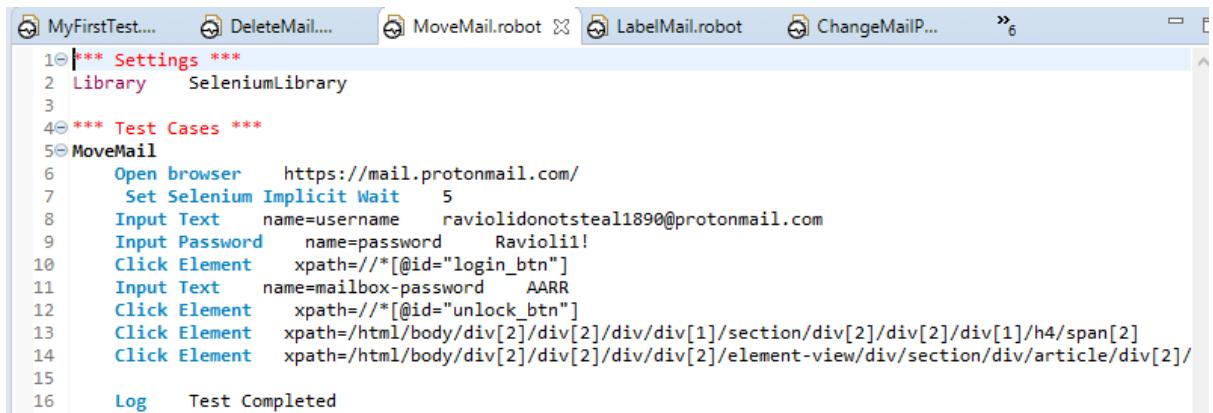
	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:20	█
Project_TestSuite	1	1	0	00:00:20	█
Project_TestSuite_LabelMail	1	1	0	00:00:20	█
- Test Details:**

Totals	Tags	Suites	Search
Type:	<input type="radio"/> Critical Tests		

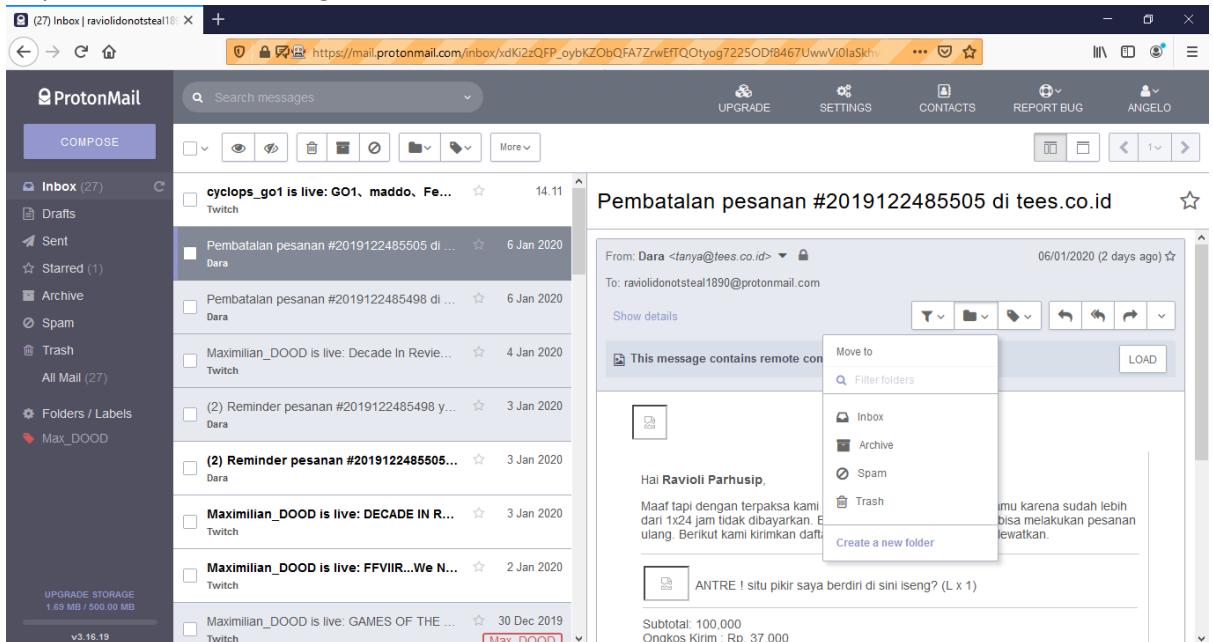
2.3.7 Fungsi G Move Mail

- Scenario

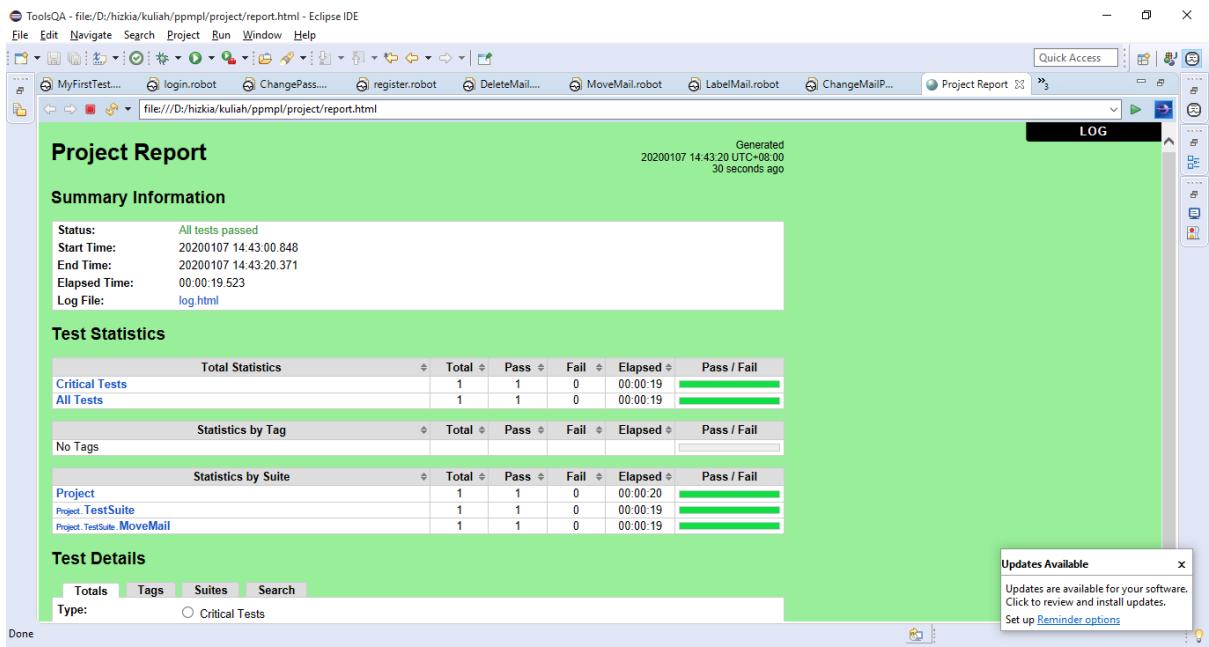


```
1 ** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 @MoveMail
6 Open browser https://mail.protonmail.com/
7 Set Selenium Implicit Wait 5
8 Input Text name=username raviolidonotsteal1890@protonmail.com
9 Input Password name=password Ravioli1!
10 Click Element xpath//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section/div[2]/div[1]/h4/span[2]
14 Click Element xpath=/html/body/div[2]/div[2]/div/div[2]/element-view/div/section/div/article/div[2]/
15
16 Log Test Completed
```

- Snippet browser saat testing



- Test Report



2.3.8 Fungsi H Reply Mail

- Scenario

```

ReplyMail.robot ✘ DeleteMail.... ✘ MoveMail.robot ✘ LabelMail.robot ✘ ChangeMailP... »6
1@ *** Settings ***
2 Library SeleniumLibrary
3
4@ *** Test Cases ***
5@ ReplyMail
6  Open browser https://mail.protonmail.com/
7  Set Selenium Implicit Wait 5
8  Input Text name=username raviolidonotsteal1890@protonmail.com
9  Input Password name=password Ravioli1!
10 Click Element xpath=//*[@id="login_btn"]
11 Input Text name=mailbox-password AARR
12 Click Element xpath=//*[@id="unlock_btn"]
13 Click Element xpath=/html/body/div[2]/div[2]/div/div[1]/section/div[1]/div[2]/div[1]/h4/span[2]
14 Click Element xpath=/html/body/div[2]/div[2]/div/div[2]/element-view/div/section/div/article/div[2]
15 Log Test Completed

```

- Snippet browser saat testing

- Test Report

ToolQA - file:///D:/hizkia/kuliah/ppmpl/project/report.html - Eclipse IDE

Project Report

Generated 20200107 14:45:52 UTC+08:00
33 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20200107 14:45:28.895
End Time:	20200107 14:45:52.376
Elapsed Time:	00:00:23.481
Log File:	log.html

Test Statistics

	Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests		1	1	0	00:00:23	<div style="width: 100%; background-color: green;"></div>
All Tests		1	1	0	00:00:23	<div style="width: 100%; background-color: green;"></div>

	Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags						

	Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
Project		1	1	0	00:00:23	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite		1	1	0	00:00:23	<div style="width: 100%; background-color: green;"></div>
Project.TestSuite.ReplyMail		1	1	0	00:00:23	<div style="width: 100%; background-color: green;"></div>

Test Details

Totals Tags Suites Search

Type: Critical Tests

Updates Available

Updates are available for your software. Click to review and install updates. Set up Reminder options

2.3.9 Fungsi | Search Mail

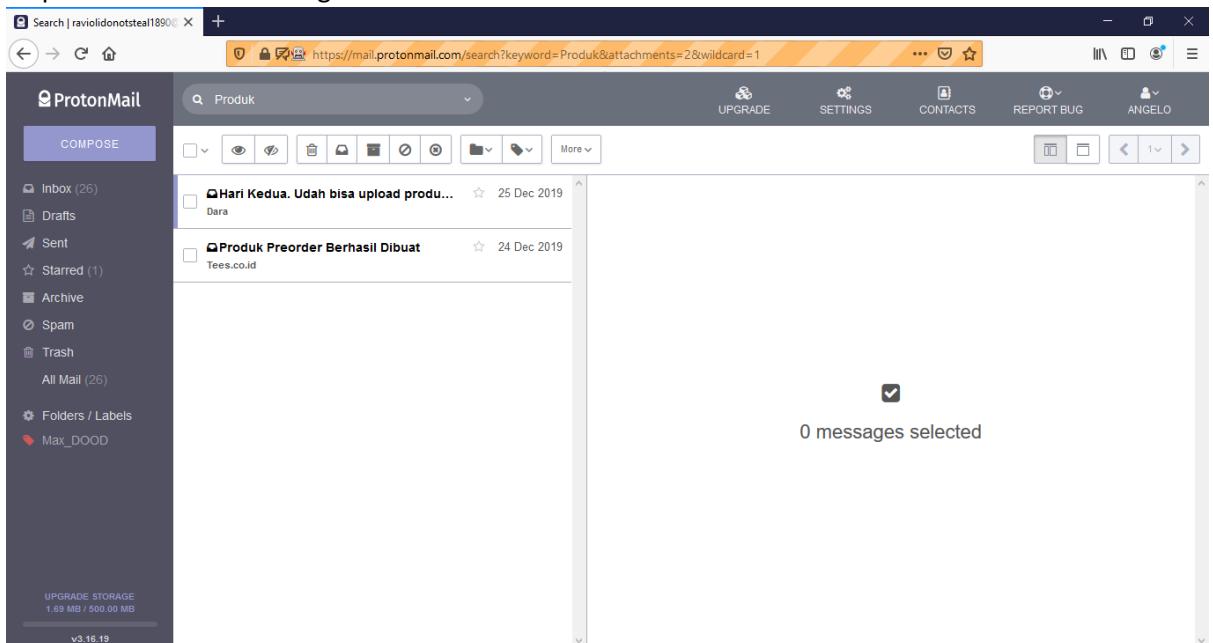
- Scenario

```

1  *** Settings ***
2  Library    SeleniumLibrary
3
4  *** Test Cases ***
5  SearchMail
6      Open browser  https://mail.protonmail.com/
7      Set Selenium Implicit Wait  5
8      Input Text  name=username  raviolidonotsteal1890@protonmail.com
9      Input Password  name=password  Ravioli1!
10     Click Element  xpath=//*[@id="login_btn"]
11     Input Text  name=mailbox-password  AARR
12     Click Element  xpath=//*[@id="unlock_btn"]
13     Click Element  xpath=/html/body/div[2]/header/div/form/div/button[2]
14     Input Text  id=search_keywords  Produk
15     Click Element  xpath=/html/body/div[2]/header/div/form/div/div/div[4]/button
16     Log  Test Completed

```

- Snippet browser saat testing



- Test Report

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	0:00:19	Pass
All Tests	1	1	0	0:00:19	Pass

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags	1	1	0	0:00:19	Pass

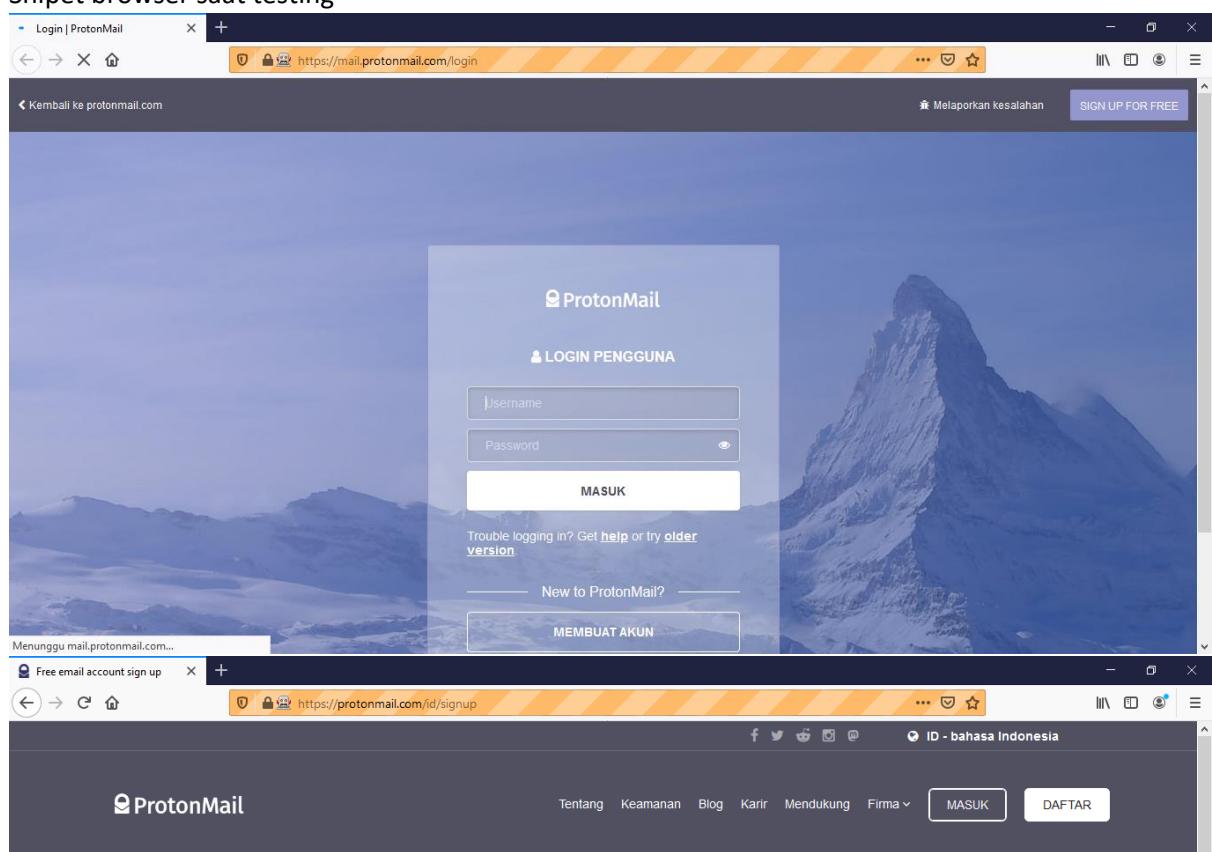
	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	0:00:19	Pass
Project.TestSuite	1	1	0	0:00:19	Pass
Project.TestSuite.SearchMail	1	1	0	0:00:19	Pass

2.3.10 Fungsi J Register

- Scenario

```
register.robot X SearchMail.... ReplyMail.robot MoveMail.robot Label
10 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Test Cases ***
5 register
6     Open browser https://mail.protonmail.com/
7     Set Selenium Implicit Wait 5
8     Click Element xpath=/html/body/div[2]/header.ul/li[3]/a
9
10
11
12 Log Test Completed
```

- Snippet browser saat testing



Pilih Tipe Akun ProtonMail Anda

ProtonMail adalah layanan email gratis untuk kepentingan publik. Anda dapat membantu mendukung privasi online dengan memilih akun berbayar. Kontribusi Anda membantu kami mendukung lebih banyak pengguna dan terus mengembangkan ProtonMail secara gratis dan terbuka.

BEBAS	Akun dasar dengan fitur terbatas	▼
PLUS	Amankan email dengan fitur canggih	4.00 € /Bulan ▲

- Test Report

The screenshot shows the Eclipse IDE interface with a 'Project Report' window open. The window displays a 'Project Report' generated on 2020/01/07 at 14:51:16 UTC+08:00, 58 seconds ago. The report includes 'Summary Information' with status 'All tests passed' and details like start and end times. It also shows 'Test Statistics' for 'Critical Tests' and 'All Tests', and 'Statistics by Tag' for 'No Tags'. A separate 'Updates Available' dialog is visible in the bottom right corner.

Project Report

Generated
2020/01/07 14:51:16 UTC+08:00
58 seconds ago

Summary Information

Status:	All tests passed
Start Time:	2020/01/07 14:50:56.885
End Time:	2020/01/07 14:51:16.669
Elapsed Time:	00:00:19.784
Log File:	log.html

Test Statistics

	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	1	1	0	00:00:20	
All Tests	1	1	0	00:00:20	

	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					

	Total	Pass	Fail	Elapsed	Pass / Fail
Project	1	1	0	00:00:20	
Project.TestSuite	1	1	0	00:00:20	
Project.TestSuite.Register	1	1	0	00:00:20	

Test Details

Totals Tags Suites Search

Type: Critical Tests

Updates Available

Updates are available for your software. Click to review and install updates. Set up [Reminder options](#).

3 Kesimpulan