

# Vanessa Siahaan

Hi, I am Vanessa 4th semester student who is passionate about technology. I have effective communication skills, problem solving, and attention to detail, which are very useful in software testing and User Interface Design. I have honed my skills in analyzing, testing, and improving software quality to ensure optimal user experience.

[Let's talk! Portfolio](#)





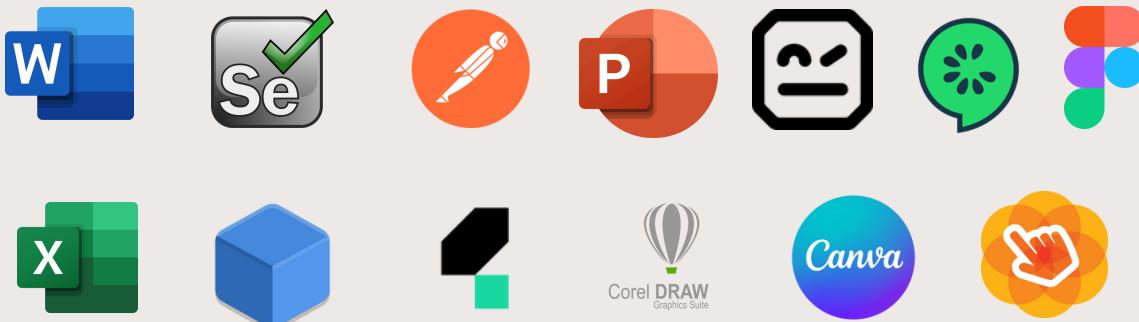
I'm Vanessa and  
I really enjoy  
working with software  
testing, analyzing and  
Design Web/Mobile.

I am a vocational student majoring in Information Technology at Institut Teknologi Del. As a passionate and aspiring student, I have explored the tech world with a keen interest in everything from software testing to interface design. I believe that reliable software and intuitive user interfaces are the foundation of a great user experience. With deep knowledge in Quality Assurance (QA), Software Testing, User Interface Design, and System Analysis, I have taken on the challenge of solving complex problems and pushing boundaries to create innovative solutions.

**"Crafting Quality through Design and Software Testing:  
Review, Test, Grow."**

# Skills

## Technical Skills



## Soft Skills

- Communication
- Teamwork
- *Analytical Thinking*
- Problem-Solving
- Adaptability
- Creativity
- Attention to detail
- Time Management
- Leadership
- Disciplined
- Responsible
- Able to work under pressure

## Hard Skills



# Project Design IT DEL

## Nov 2023 – Dec 2023

"Being a UI/UX designer for the development of a DEL information system project. My role involves crafting user-friendly interfaces, ensuring seamless navigation, and creating visually appealing designs to enhance the user experience."

The screenshot shows the main website of Institut Teknologi Del. It features a banner with a group photo of students and staff at the KMI EXPO XIV event. Below the banner are several news cards. One card is titled "IT Del Ikuti Kegiatan KMI EXPO XIV di Bali Hingga Terima Penghargaan Pendamping Terbaik" and another is titled "Rapak Gran Rakabuning Raka Beri Kuliah Umum kepada Mahasiswa IT Del terkait 'Pemimpin Masa Depan'". The footer contains contact information and a copyright notice.

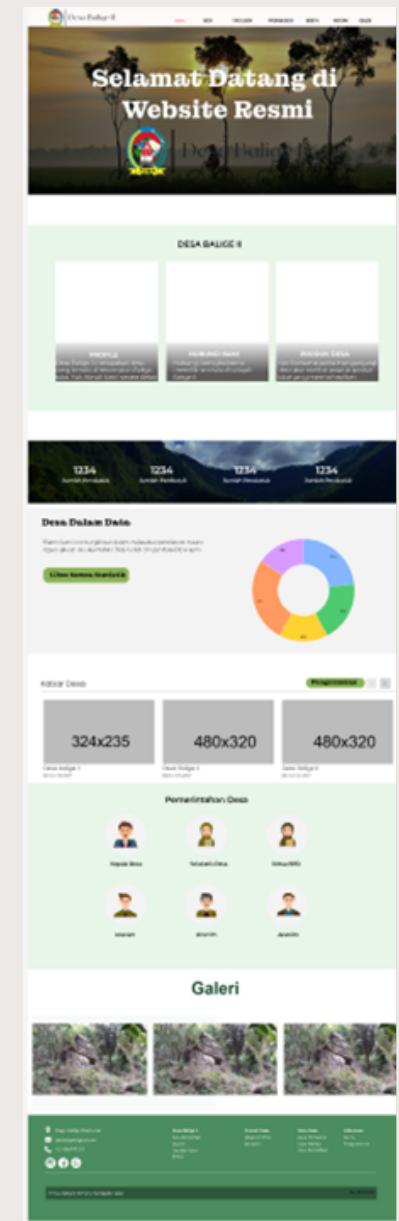
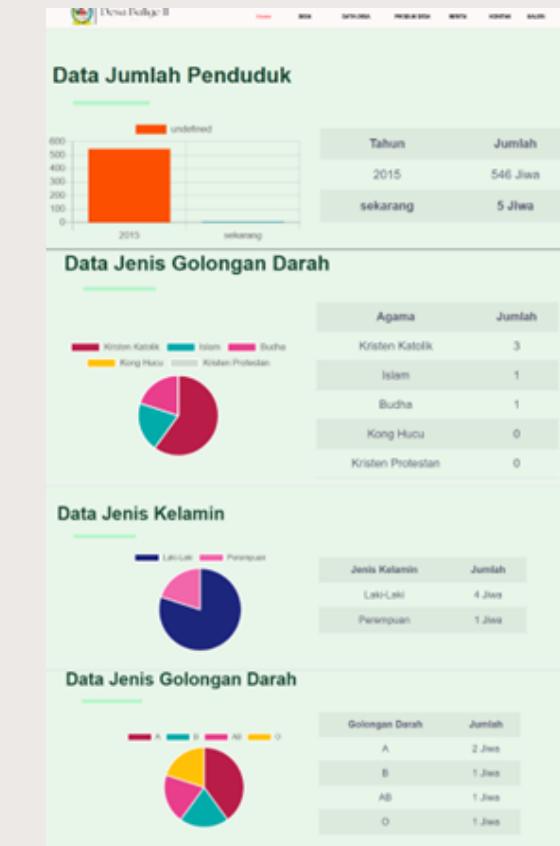
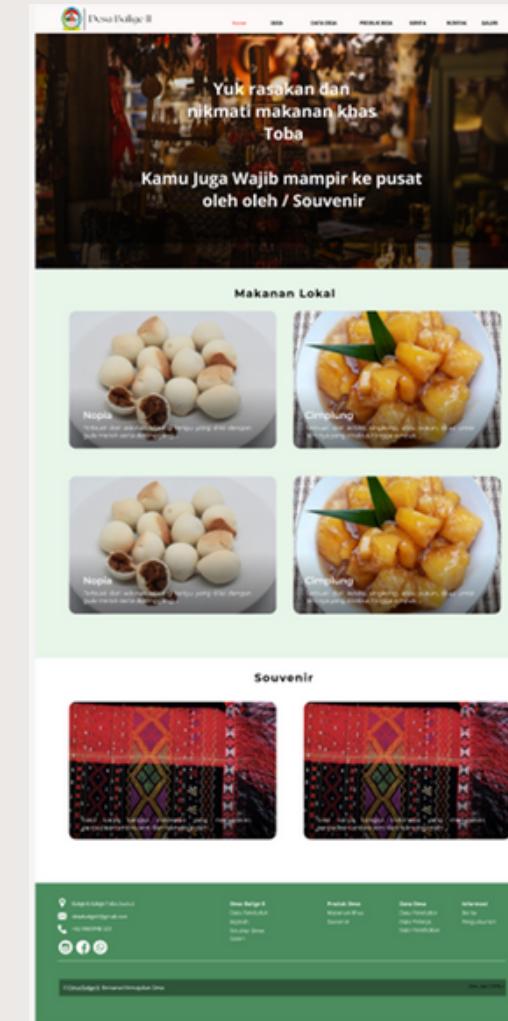
The screenshot shows the administrator dashboard of the IT Del system. It displays key metrics: Jumlah Mahasiswa (2330), Lulusan Dalam (89), and Program Studi (2 Pekerja). A line graph tracks "Pengguna yang mengakses sistem informasi del" from 2021 to 2022, showing a steady increase. The right side of the dashboard features a scenic landscape image and a welcome message for the administrator.

The screenshot shows the login page and a data entry form for "Form Masukkan Data". The login page includes fields for "Judul", "Username", "Tanggal", and "File". The data entry form has fields for "Judul", "Username", "Tanggal", and "File". There is also a note about file types and a "Simpan" button.

No	Judul	Username	Tanggal	File	Gambar	Aksi
1	PENGUMUMAN HASIL SELEKSI NILAI ULAMU TUSIS BERBASIS KOMPUTER (UTBK) UJIAN SARINGAN MASUK INSTITUT TEKNOLOGI DEL (LUMIT) TA. 2021/2022 JALUR USM4	By admin	July 29, 2021		Pada Wisuda I tahun ini terdapat sebanyak 298 wisudawan dan wisudawati yang diberikan nilai ulama dan juarawan D3 Teknologi pertama, 47 mahasiswa dari jurusan D3 berdasarkan hasil evaluasi tahap pertama penerimaan USM4 tahun 2021 yang mencakup seleksi nilai UTBK, merekomendasiannya berdasarkan pada Diktor Penerimaan USM4 tahun 2021 yang dinyatakan lulus SLEKSI MAU USM4	<a href="#">Edit</a> <a href="#">Delete</a>
2	PENGUMUMAN HASIL SELEKSI NILAI ULAMU TUSIS BERBASIS KOMPUTER (UTBK) UJIAN SARINGAN MASUK INSTITUT TEKNOLOGI DEL (LUMIT) TA. 2021/2022 JALUR USM4	By admin	July 29, 2021		Pada Hari Sabtu 23 September 2023, Institut Teknologi Del melaksanakan Wisuda untuk 298 Mahasiswa Sarjana dan Diploma. Turut hadir Bapak Dr. Honoris Causa Ir. Airlangga Hartarto, M.P., M.Th. (Dosen Koordinator Bidang Persekitaran Republik Indonesia), Bapak Riwandibud Staton (Dosen Jurusan Sarjana dan Diploma), Bapak Jend. Tho. Yosua (Luhur Binsar Panditpan, M.P., Status Pembina Yayasan Del), ibu Intan Simanjuntak (Ketua Pengurus Yayasan Del), dan tamu undangan lainnya. Kegiatan Wisuda ini bertujuan untuk memberikan pengalaman dan pelajaran bagi mahasiswa dalam mencapai kesuksesan mereka. "Fostering Collaboration and Innovation towards Research Excellence"	<a href="#">Edit</a> <a href="#">Delete</a>

# ● Project Website Desa Balige II Jan 2023 – Jun 2023

**"Designing a website for village officials and residents to access village information. The project aims to create an easy-to-use platform where users can find important updates, community events, local news, and other relevant information about the village."**

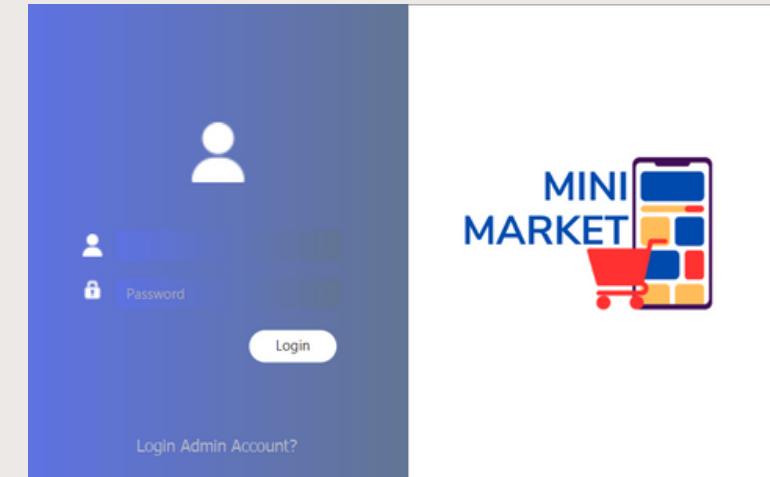


# ● Project Website

## Mini Market

### Nov 2023 – Dec 2023

"Designing a mini market website using SceneBuilder tools, aiming for a user-friendly interface with smooth navigation, visually appealing layouts, and easy access to product categories and information. The goal is to create a seamless browsing experience for customers seeking convenience and efficiency in their online shopping journey."



The image shows the admin dashboard for the Mini Market System. On the left is a sidebar with icons for Dashboard, Add Product (highlighted in blue), and Cashier. The main area displays a table titled 'Product List' with columns: Product ID, Brand Name, Product Name, Status, and Price. The table contains 9 rows of data. To the right of the table is a search and filter panel titled 'FROM DATA PRODUCT' with fields for Product ID, Brand Name, Product Name, Status, and Price, along with buttons for Delete, Update, and Add.

Product ID	Brand Name	Product Name	Status	Price
CIM01	Basreng	Basreng Ori	Available	6.0
CIM02	Basreng	Basreng Pedas	Available	9.0
CIM03	Cimol	Cimol Ori	Available	9.0
CIM04	Cimol	Cimol Pedas	Available	10.0
CIM05	Keripik	Keripik jagung	Available	2.0
CIM06	Keripik	Keripik pedas	Available	4.0
CIM07	Keripik	Keripik ori	Available	3.0
CIM08	Bubur	Bubur Sumsum	Not Available	5.0
CIM09	Bubur	Bubur Kacang ijo	Not Available	5.0

The image shows the admin screen for managing cashier data. The main table lists cashiers with columns: Cashier ID, Password, First Name, Last Name, Gender, and Date of Membership. Two rows are visible: ABC123 (female) and ABC789 (Male). To the right is a modal window titled 'FROM DATA CASHIER' with fields for Cashier ID, Password, First Name, Last Name, and Gender, along with buttons for Delete, Update, and Save.

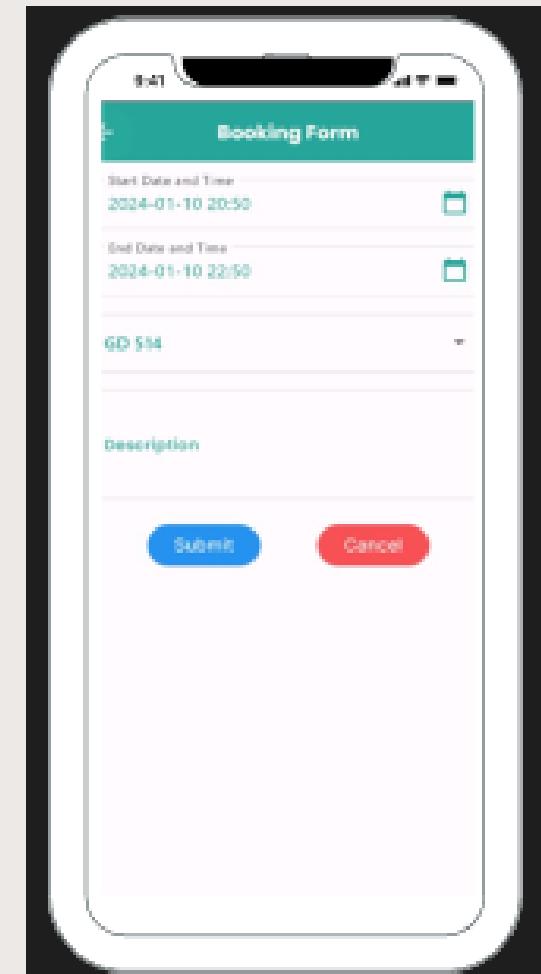
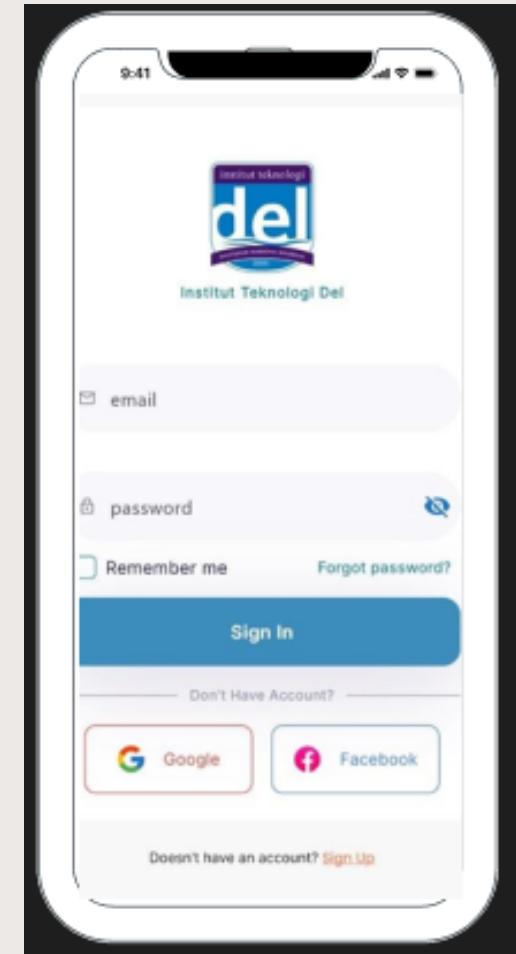
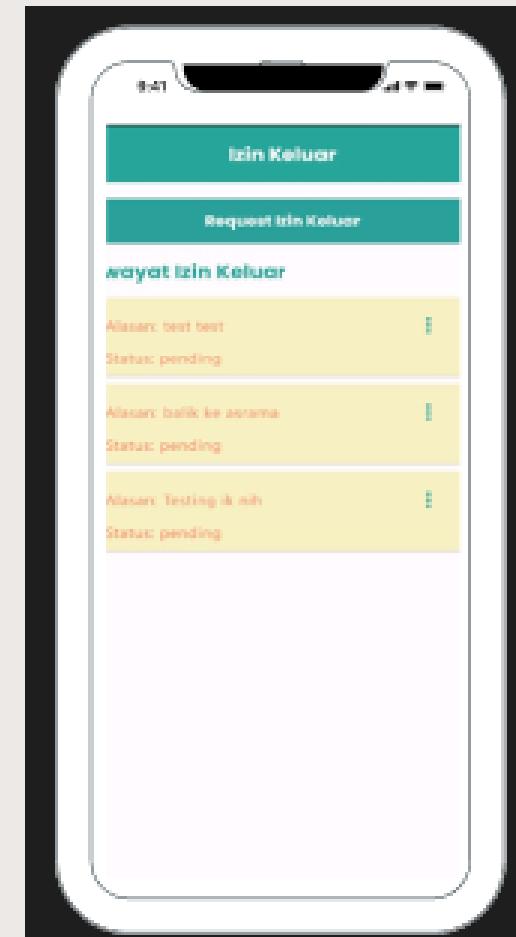
The image shows another view of the admin screen for managing cashier data. The main table and sidebar are identical to the previous image. The modal window titled 'FROM DATA CASHIER' is also present, showing the same fields and buttons for managing cashier information.

# ● Project Application

## Cis IT DEL

### Dec 2023 – Jan 2024

"Designing an Android app in Figma for IT Del, tailored to meet student needs and streamline administrative tasks. Users can reserve rooms, submit requests, and manage permissions. The app includes essential CRUD functions for data management, ensuring efficiency in academic and administrative activities at Del Institute of Technology."

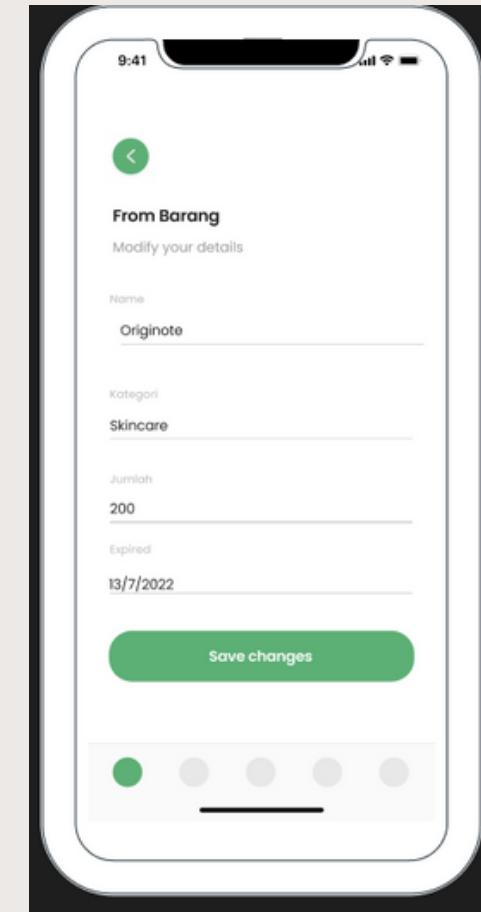
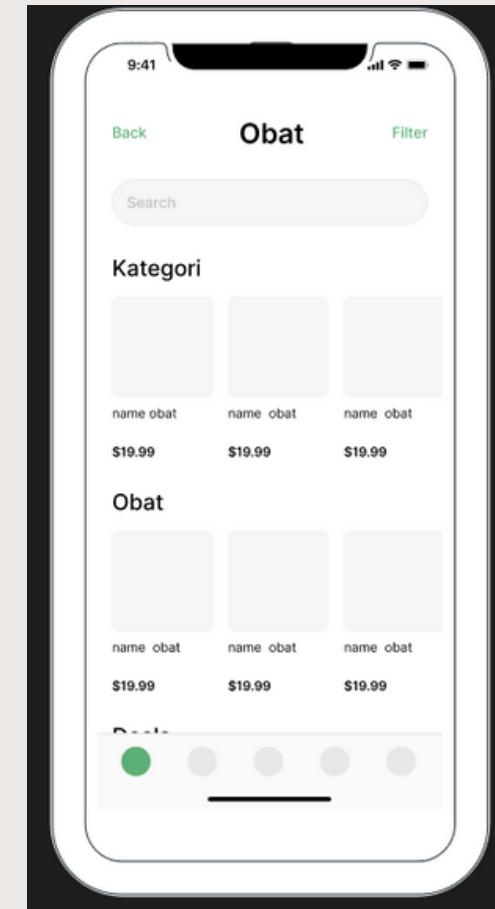
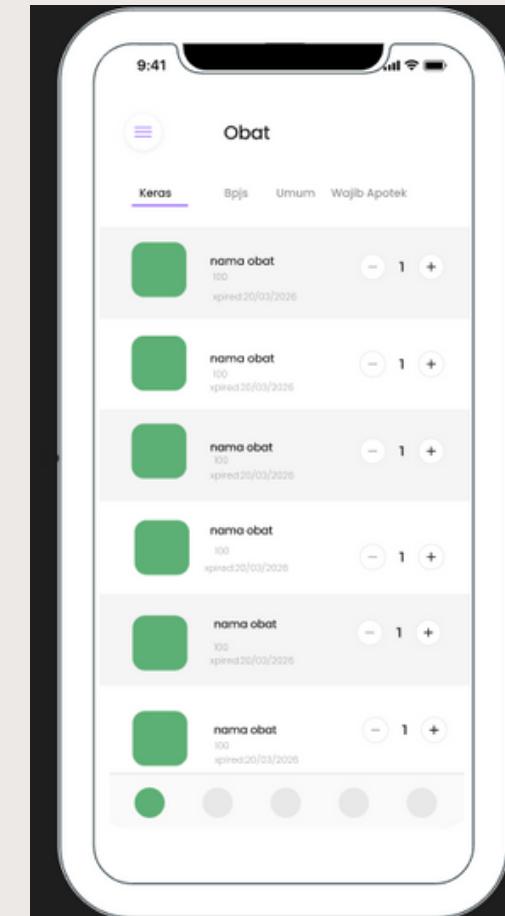


# ● Project Application

## Apotek Duma

### Jan 2024 – Jun 2024

"Creating a mobile app named Apotek Duma to assist in organizing pharmacy data. The app aims to streamline inventory management, prescription tracking, and customer interaction. With user-friendly interfaces and robust features, it facilitates seamless operations for pharmacists and enhances customer experience."



# ● Project Testing Website Foodpedia - Numero sada (Robot Framework) May 2024 – Jun 2024

"I tested logging into an admin account that performs automated tests using the Robot Framework with Python in Visual Studio Code."

#### 4. Fungsi login akun admin

##### a. Scenario

```
@adminlogin.robot
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Variables ***
5 ${LOGIN_URL}      http://localhost:8000/login
6 ${POST_URL}       http://localhost:8000/post
7
8
9 ${USERNAME}      numerosada@gmail.com
10 ${PASSWORD}     numerosada123
11
```

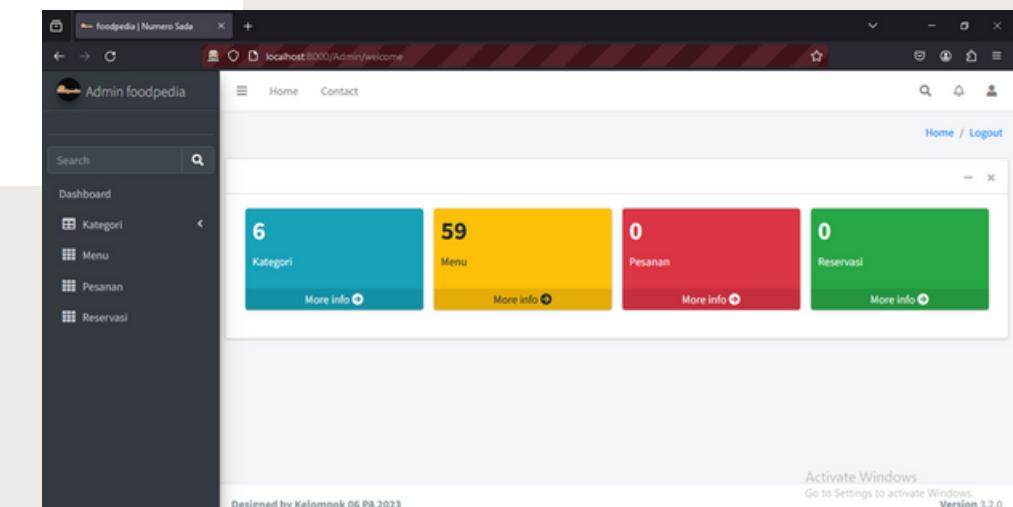
##### b. Step Definition

```
@adminlogin.robot
1 *** Settings ***
2 Library SeleniumLibrary
3
4 *** Variables ***
5 ${LOGIN_URL}      http://localhost:8000/login
6 ${POST_URL}       http://localhost:8000/post
7
8
9 ${USERNAME}      numerosada@gmail.com
10 ${PASSWORD}     numerosada123
11
12 *** Test Cases ***
13 Login and Access Post Page
14 [Documentation]  Test case untuk login dan mengakses halaman post
15 Open Browser    ${LOGIN_URL} Firefox
16 Maximize Browser Window
17 Input Text      id=email  ${USERNAME}
18 Input Text      id=password ${PASSWORD}
19 Click Button    xpath//button[text()='Login']
20 Sleep           3s
21 Page Should Contain Logged in successfully
22 Go To          ${POST_URL}
23 Page Should Contain Post Page
24 Close Browser
```

##### c. Console setelah Running

```
PS C:\Users\user\Downloads\PA_1_Foodpedia\PA_1_Foodpedia\unitl\projects\robot\meno-robot
[1]:> python -m robot adminlogin.robot
[Documentation] Test case untuk login dan mengakses ... | FAIL |
Page should have contained text "Logged in successfully" but did not.
[Documentation] Test case untuk login dan mengakses ... | FAIL |
[1] test, 0 passed, 1 failed
```

**Result :**



# ● Project Testing Tokopedia - Cucumber May 2024

"I led a login testing project for the Tokopedia website using the Cucumber framework and Eclipse development tools

The project involved testing the login functionality using a series of scenarios implemented in the Gherkin language. I was responsible for designing, writing, and running the test scenarios, as well as analyzing the results to ensure the reliability and security of Tokopedia's login system."

## 1. Fungsi Login Tokopedia

a. Scenario

```
1# Feature: Test Login on Tokopedia Website
2
3@ Scenario: Test Login with Valid Credential
4 Given I open Tokopedia website
5 When I enter valid email
6 Then I click the login button
7
```

b. Step Definition

```
>LoginFeatureTest.java TestRunner.java TestRunner.java MyApp.feature MyLogin.feature MyApp.feature LogInTest.java

1 package stepDefinitions;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.PendingException;
8 import cucumber.api.java.en.Then;
9 import cucumber.api.java.en.When;
10
11 public class LogInTest {
12     WebDriver driver;
13
14     When("I open Tokopedia website")
15     public void i_Open_Tokopedia_website() throws Throwable {
16         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-v83.0\\chromedriver.exe");
17
18         driver = new ChromeDriver();
19
20         driver.manage().window().maximize();
21         driver.get("https://www.tokopedia.com/");
22     }
23
24
25 When("I enter valid email")
26     public void i_Enter_Valid_email() throws Throwable {
27         driver.findElement(By.xpath("//[id='email_email_header']/section/header/div[1]/div/div[1]/div[2]"))
28             .click();
29
30         driver.findElement(By.xpath("//[id='LoginID']")).sendKeys("einsteinstein@gmail.com");
31     }
32
33
34 When("I click the login button")
35     public void i_Click_the_login_button() throws Throwable {
36         driver.findElement(By.xpath("//[id='submit_button']")).click();
37     }
38 }
```

> Test Runner

```
filterJava package-info... LoginTest.java TestRunner.java X package-info...
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import cucumber.api.junit.Cucumber;
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(Features="Features/MyLogin.feature", glue="stepDefinition")
9 public class TestRunner {
10
11 }
12
```

#### 1. Console setelah Running

```
2. Console selenium running
  ☐ Console ×
<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Apr 28, 2024, 10:47:59 AM - 10:49:11AM)
Starting ChromeDriver 122.0.6112.76 (90720e7405346896537e6bd07799ed624725d4-eef3/branch-heads/43128 (#495)) on port 3888
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security--considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 28, 2024 10:49:11 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```

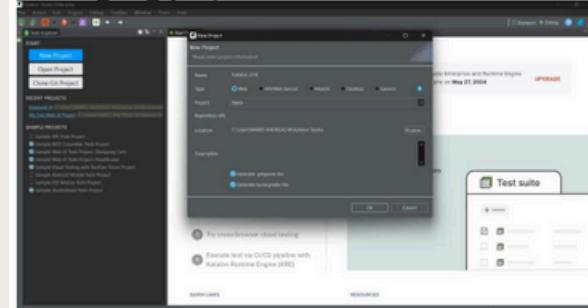
## Result :



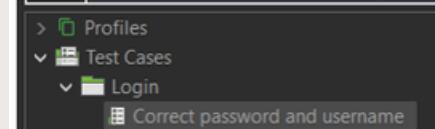
# ● Project Testing Spotify - Katalon April 2024

"I led a testing project using Katalon Studio, incorporating WebDriver, to test Spotify's functionality. The project focused on testing the CorrectPassword action (Web Record) on the Spotify platform. The main goal was to ensure that CorrectPassword works well and meets user expectations."

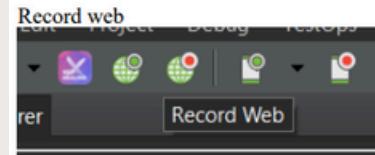
1. Membuat Proyek baru sesuai dengan kebutuhan namanya kami menggunakan "Katalon G14 Spotify"



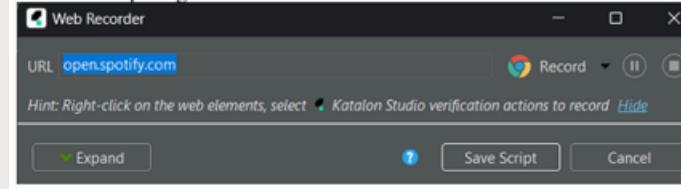
2. Setelah sudah masuk buat folder baru pada TestCase kemudian buat file Correct Password



TC01: CorrectPassword (Record Web)



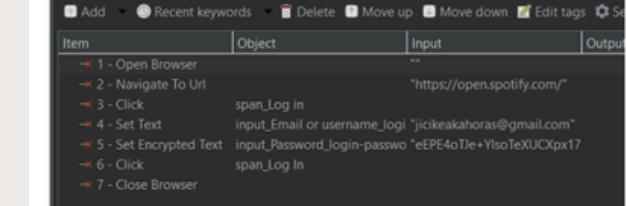
Lalu akan seperti gambar dibawah ini kemudian isilah url dan klik record



record save script



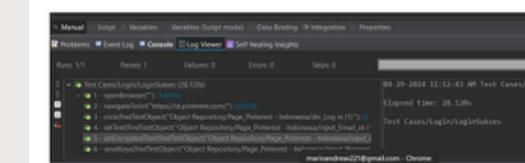
Lalu jika sudah menjalankan maka akan merekam scenario seperti gambar dibawah ini



Kemudian lakukan testcase yang dihasilkan dengan mengklik button play untuk menjalankan aktivitas yang telah berlangsung



Lalu setelah sudah selesai mengulang hasil yang telah ditest atau berhasil maka sistem langsung otomatis menceklis jika semua berjalan scananya maka semua berhasil seperti diabwah ini



# Project Testing JUNIT-Neatbeans April 2024

"White box testing is performed using NetBeans to thoroughly verify the program code. This process involves tracing logical flows, testing conditions, and validating the code structure to ensure that each part of the code functions as intended."

## I. UNMODIFIED

### 1) Testing for Palindrome\_1.java

```
package Palindrome_1;

import java.io.BufferedReader;
import java.io.InputStreamReader;

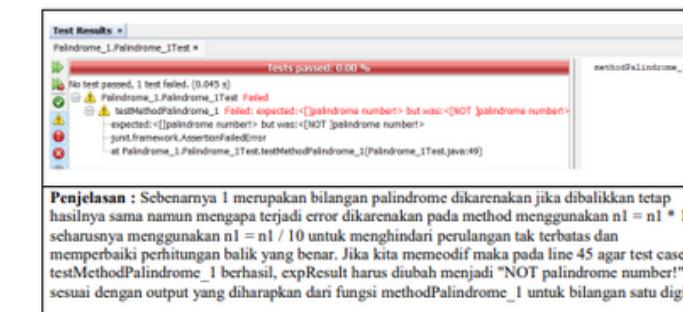
public class Palindrome_1 {
    public String methodPalindrome_1(int n1){
        String hasil;
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        int x, n2;
        int rev=0;
        n2=n1;
        while(n1>0){
            x = n1%10;
            rev = rev*10+x;
            n1 = n1/10;
        }
        if(rev==n2){
            hasil = "palindrome number!";
        } else{
            hasil = "NOT palindrome number!";
        }
        return hasil;
    }
}
```

#### a. Input: 1

➤ Snippet of test case

```
/*
 * Author: vanessa
 */
public class Palindrome_1Test {
    @BeforeClass
    public static void setUpClass() { ...2 lines ...}
    @AfterClass
    public static void tearDownClass() { ...2 lines ...}
    @Before
    public void setUp() {
    }
    @After
    public void tearDown() {
    }
    /**
     * Test of methodPalindrome_1 method, of class Palindrome_1.
     */
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 11;
        Palindrome_1 instance = new Palindrome_1();
        String expResult = "palindrome number!";
        String result = instance.methodPalindrome_1(n1);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}
```

➤ Snippet of results



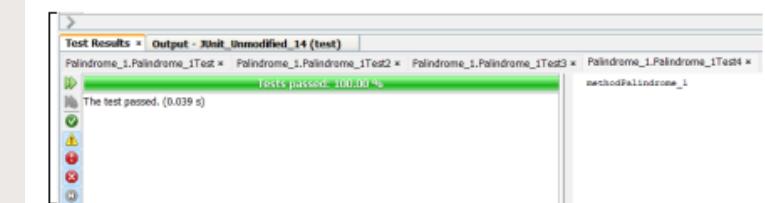
Penjelasan : Sebenarnya 1 merupakan bilangan palindrome dikarenakan jika dibalikkan tetap hasilnya sama namun mengapa terjadi error dikarenakan pada method menggunakan  $n1 = n1 / 10$  seharusnya menggunakan  $n1 = n1 / 10$  untuk menghindari perulangan tak terbatas dan memperbaiki perhitungan balik yang benar. Jika kita memodifikasi pada line 45 agar test case testMethodPalindrome\_1 berhasil, expResult harus diubah menjadi "NOT palindrome number!" sesuai dengan output yang diharapkan dari fungsi methodPalindrome\_1 untuk bilangan satu digit.

b. Input: 22  
➤ Snippet of test case

TEAM

```
/*
 * Author: vanessa
 */
public class Palindrome_1Test2 {
    @BeforeClass
    public static void setUpClass() { ...2 lines ...}
    @AfterClass
    public static void tearDownClass() { ...2 lines ...}
    @Before
    public void setUp() { ...2 lines ...}
    @After
    public void tearDown() { ...2 lines ...}
    /**
     * Test of methodPalindrome_1 method, of class Palindrome_1.
     */
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 22;
        Palindrome_1 instance = new Palindrome_1();
        String expResult = "NOT palindrome number!";
        String result = instance.methodPalindrome_1(n1);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}
```

➤ Snippet of results



Penjelasan : Test berhasil bukan karena bilangan 22 palindrome namun dikarenakan dalam expResult menggunakan not palindrome sesuai dengan logika fungsi method Palindrome\_1 dimana semua hasil test dalam palindrome akan error jika tidak menggunakan NOT.



# Postman Api Fundamentals Student Expert, Postman 7June 2024

"Here, I participated in the Postman program. I have solid experience using Postman to interact with APIs. I can easily perform requests like GET, POST, PATCH, and DELETE, and I understand query parameters, bodies, headers, and response codes. Additionally, I am skilled in implementing API Key authentication to ensure secure access to API resources. With these skills, I have successfully completed tasks related to software development and API testing efficiently and effectively."

The screenshot shows the Postman interface with the following details:

- Request Method:** POST
- URL:** {{skillcheckBaseUrl}}?movieName=Batmen
- Query Params:** movieName: Batmen
- Body:** (Pretty) JSON response:

```
1 i
2   "args": [
3     "movieName": "Batmen"
4   ],
5   "data": [
6     {
7       "actorName": "SRK"
8     }
9   ],
10  "files": {},
11  "form": {},
12  "headers": {}
```
- Status:** 200 OK
- Time:** 2.20 s
- Size:** 1019 B

The screenshot shows the Postman interface with the following details:

- Request Method:** GET
- URL:** {{submission}}
- Test Results:** 28/28 (All Passed)
- Logs:** (List of 28 green 'PASS' messages, each corresponding to a test step in the collection.)

Home Workspaces API Network

Search Postman

Invite Upgrade

My Workspace

New Import

Overview POST skillCheck GET Final Check POST submit

No environment

Collections

Environments

History

Collection Test / submit

POST https://lesson-completion.postmanlabs.com/submit

Send

Params Authorization Headers (7) Body Scripts Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Beautify

```
1 {
2   "email": "vanessasiahaan4@gmail.com",
3   "postmanCollectionJsonUrl": "[{submission}]",
4   "publishedCourseId": "2q2jokzsn62y8",
5   "lessonId": "go6mgkytvk8u"
6 }
```

Body Cookies Headers (11) Test Results Status: 200 OK Time: 1841 ms Size: 580 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": "ok",
3   "message": "Congratulations! The lesson 'Submit your Postman collection' is now marked as complete."
4 }
```

Backpack / Postman API Fundamentals Student Expert

Postbot Runner Cap

Online Console

## Postman API Fundamentals Student Expert

Offered by [Postman](#)

Postman Student Experts are proficient in the essential skills required for consuming APIs in Postman and applications.

Awarded to [vanessasiahaan4@gmail.com](mailto:vanessasiahaan4@gmail.com)

Issued on: 7 Jun 2024 at 9:28 PM

### Badge Details

#### EARNING CRITERIA

Recipients must complete the earning criteria to earn this badge

A hand's on certification that teaches:

- What APIs are and their importance in modern software development
- How to use Postman to work with APIs
- Making GET, POST, PATCH, and DELETE requests
- Query parameters, bodies, headers, response codes
- Basic scripting
- API Key Authorization
- How to use APIs in your applications

[Postman Student Program](#) creates opportunities for students and educators to teach and learn API skills.

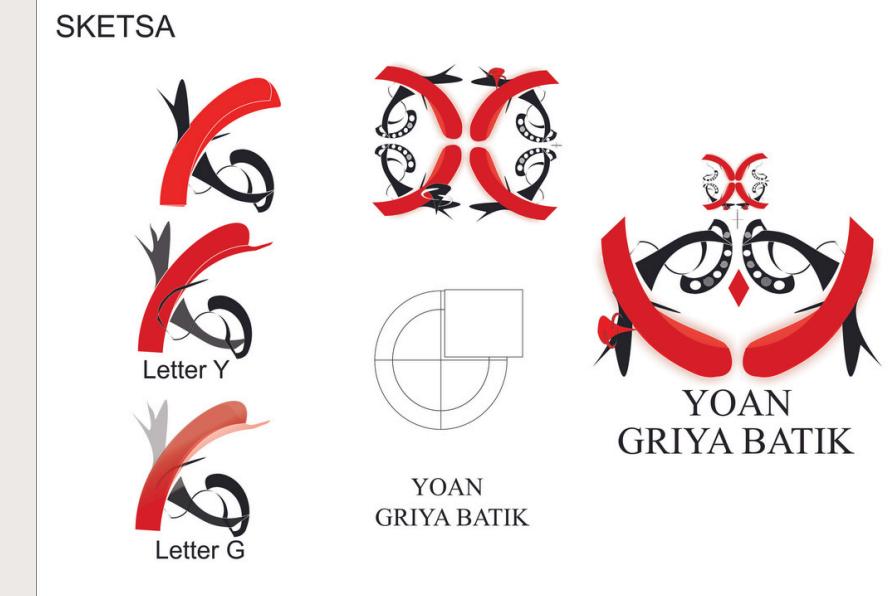
#### TAGS

api testing scripting  
postman student

Get certified!

# ● Junior Graphic Design Competition, Kominfo Medan 22 April – 26 April 2024

" Here, I participated in the Vocational School Graude Academy Digital Talent Scholarship 2024 training. Over 5 days, I completed materials including applying basic design principles, applying basic communication principles, implementing a design brief, operating design software, and creating basic graphic design works using CorelDRAW, such as posters, logos, business cards, and packaging. I received a competency certificate for successfully completing the tasks as required."



### Desain Kartu nama



### Desain Paper Bag





**Batch 6**  
**Junior Graphic Designer**  
Lulusan Vokasi (Vocational School Graduate Academy)

📅 17 - 21 April 2024 | 📄 Junior Graphic Designer | ⚡ Sumatera Utara | 🎙 BBPSDMP Medan

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Sertifikasi Dashboard Sertifikasi

Bantuan

**6** Portofolio **1** Uji Kompetensi **1** Sertifikat Kompetensi **0** Skill Passport

Sertifikat Kompetensi : [LIHAT](#)

# Organizational Documentation



Treasurer KPU, Information Technology  
Student Association



Div Documentation, BEM Dept.  
Information and Communication

# Design Canva

**APPLICATION Of Inventory ON Duma Pharmacy**

**1 Background**  
The background for creating this application stems from the challenges faced by Duma Pharmacy, located in the city of Balige, in managing their inventory. Currently, they manually record their inventory using Excel. This unstructured data management results in missing or duplicated data, and some stocks are not recorded properly. Therefore, an application is needed to help Duma Pharmacy manage their inventory more effectively.

**2 Goals**  

- Helping clients manage the goods they sell
- Makes Data Capture Easier Enables quick and easy data capture, making it simpler to generate reports and analyze stock.
- Improve Stock Management Allows stock monitoring to prevent overstock or understock

**3 CONCLUSION**  
By building this application, then it is hoped that it can help Duma pharmacies to manage the products they sell and help increase sales.

**Supervising Lecturer**  
Rudy Chandra, S.Kom., M.Kom.

**Examining Lecturer**  
1. Hernawati Susanti Samosir, SST., M.Kom.  
2. Goklas Henry Agus Panjaitan, S.Tr.Kom., M.T.

**G-14 Our Member**  

- Horas MP Saragih Sidabalo - 11322016
- Mario Andreas Manurung - 11322030
- Nania Avantika Oligiviana Pangaribuan - 11322045
- Vanessa Siahaan - 11322060

**PRODUCK SKINCARE SQA & ST**

**Deskripsi**  
Sebelum melakukan penjualan atau pemasaran produk bath boom. Software Quality Assurance (SQA)/pengusaha yang berusaha memastikan bahwa produknya memenuhi standar kualitas tertentu sebelum dipasarkan di dunia industri. SQA melibatkan implementasi proses dan praktik terbaik sepanjang siklus hidup produk untuk mencegah cacat dan memastikan bahwa hasil akhir sesuai dengan harapan konsumen. Software Testing (ST)/BPOM dapat diibaratkan dengan proses pemeriksaan dan uji coba produk sebelum dijual di pasar.

**SOFTWARE QUALITY ASSURANCE (SQA)**  
PENGUSAHA YANG BERUSAHA MEMASTIKAN BAHWA PRODUKNYA MEMENUHI STANDAR KUALITAS TERTENTU SEBELUM DIPASARKAN DI DUNIA INDUSTRI.

**BPOM**  
MERANCANG STRATEGI BISNIS YANG MENGAKUP PEMILIHAN BAHAN BAKU BERBASIS KEMERDEKAAN DAN PENGEMBANGAN PRODUK SESUAI DENGAN STANDAR INDUSTRI DAN PENERAPAN MANAJEMEN YANG EFISIEN

**SOFTWARE TESTING (ST)**  
BPOM MENGEUJI PRODUK SECARA MENYELURUH, TERMASUK UJI KUALITAS, UJI KEAMANAN DAN UJI PASAR.

**ST**  
ST MELIBATKAN SERANGKAIAN AKTIVITAS UNTUK MENGEVALUASI FUNGSIONALITAS, KEAMANAN, DAN KINERJA PRODUK.

**JAMINCIN**

**Basreng Pedas**  
MINI 10K  
SEDANG 17K

**Basreng Ori**  
MINI 10K  
SEDANG 17K

**DELICIOUS**

**Rancang Bangun Desa Balige II**

**G-13 PAI**

**Vanessa Siahaan**  
11322060  
Analysis

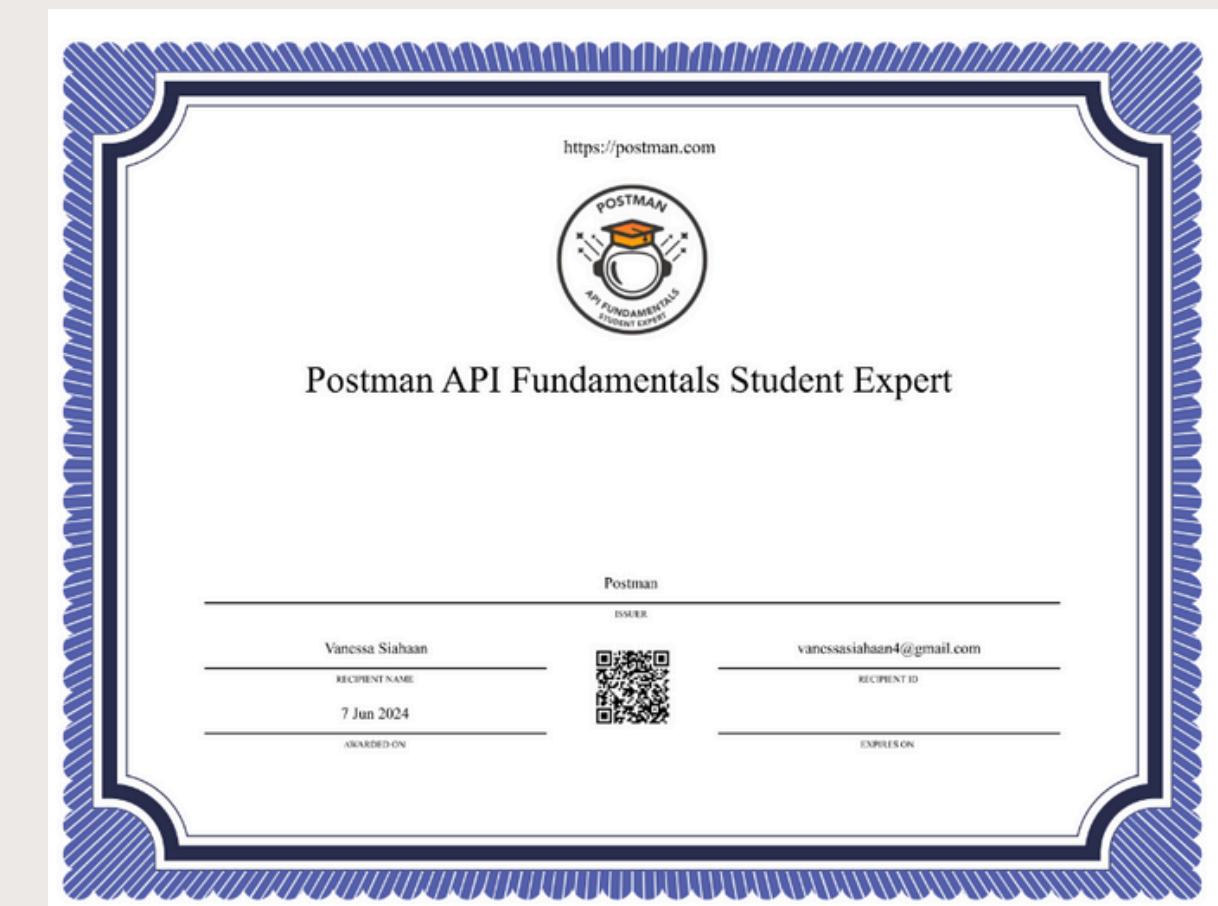
**Rudi Angga Putra Siswagung**  
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11322009  
Programmer

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11322009  
Documentation

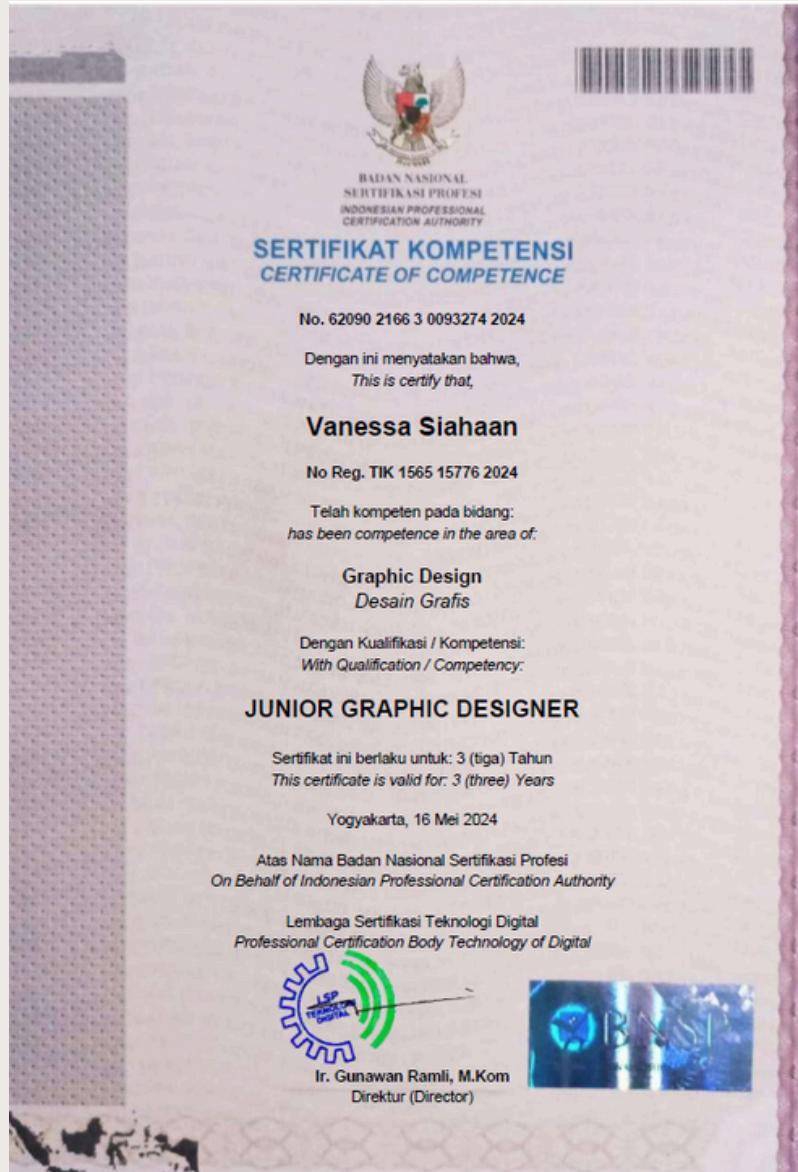
**Koordinator PAI**  
11322040  
Project Manager

# Certification

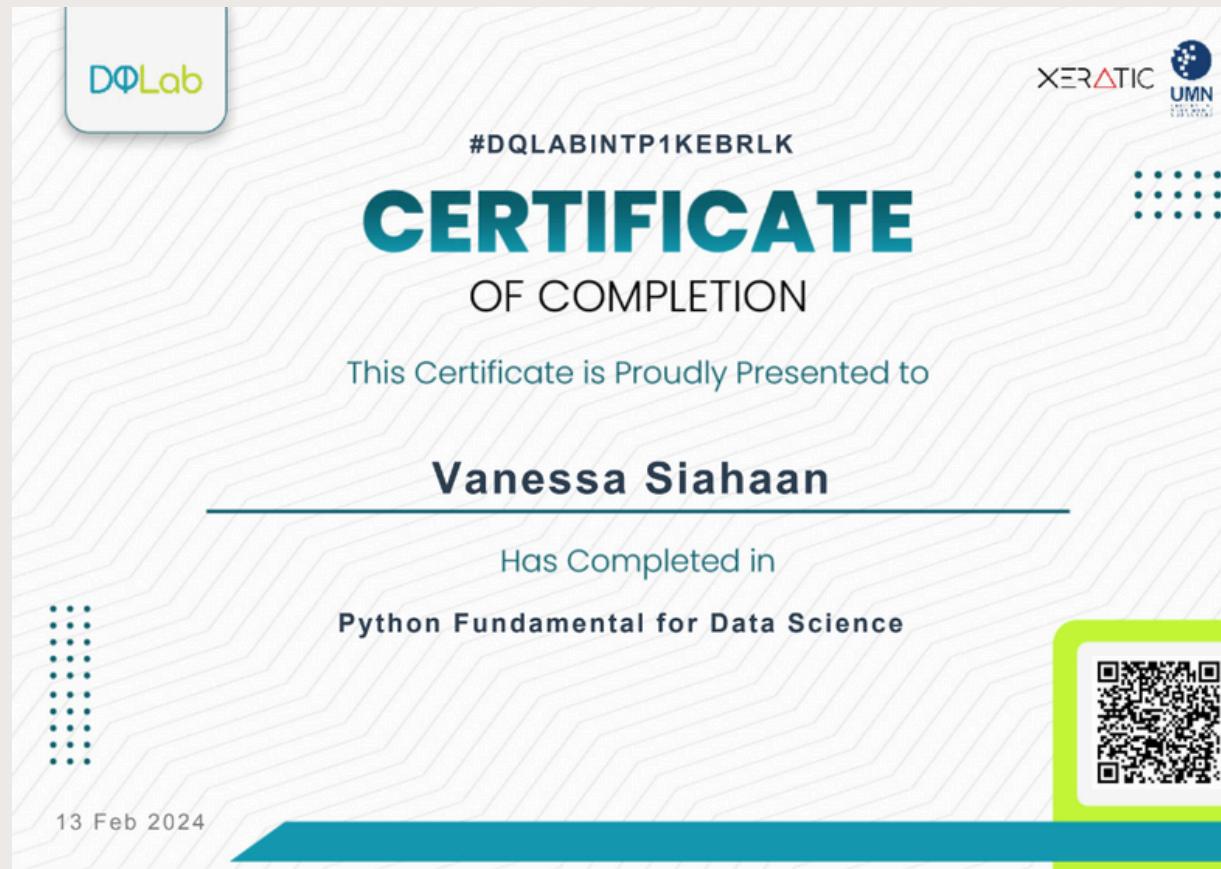




# Certification



# Certification



# Certification



# Certification





# Hi, I'm Vanessa Siahaan and Thank you!

If you are interested in my profile let me know!

Please do reach me at:

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