

MY PORTFOLIO

A sample of data analytics, system analytics, and UI/UX Design project that
I've been working on

By

Lailatul Eky Fitriyaningsih

ABOUT ME

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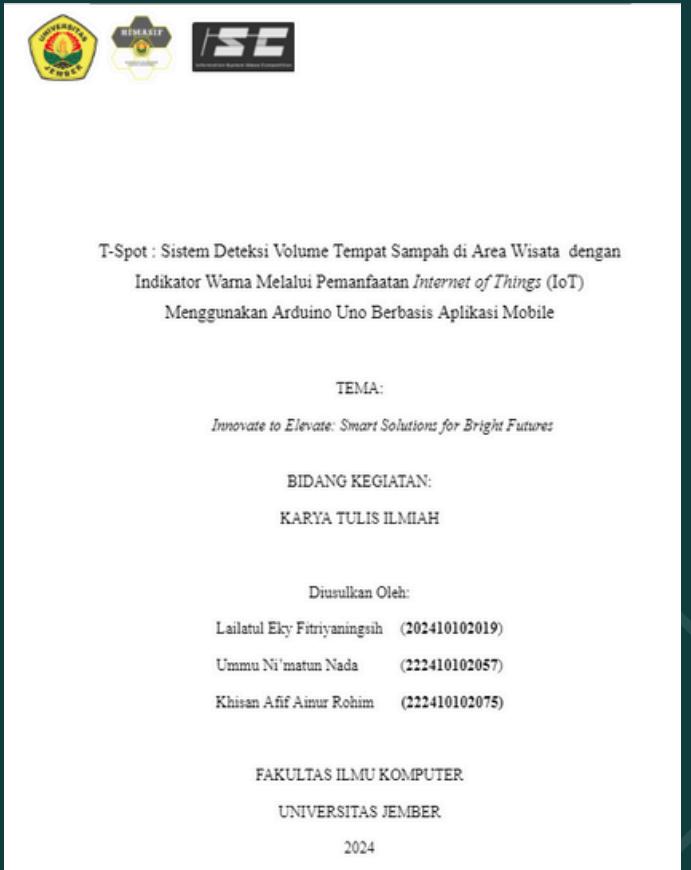


Lailatul Eky Fitriyaningsih

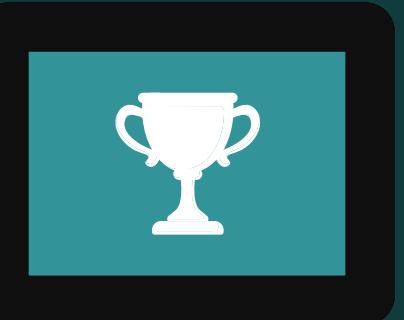
As a fourth-semester Information Technology student with a keen interest in data and systems analysis, I am actively pursuing opportunities to enhance my skills. Proficient in SQL, Python, data workflow, and visualization. Through hands-on projects, I've created efficient data structures, conducted insightful data analysis, optimized business processes, and developed user-centric system solutions. Additionally, I am also intrigued by user experience design, recognizing its significance in crafting intuitive and engaging interfaces that enhance user interaction with technology.



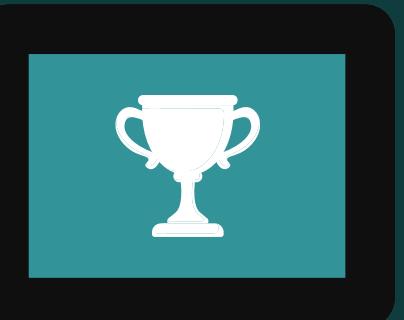
ACHIEVEMENT



2023 | 3rd Winner in Technology Innovative Challenge (TIC) 5.0



2024 | 1st Winner in Scientific Paper Competition in the Information System Ideas Competition (ISIC) 2024



SKILLS & ABILITIES

- **Programming Language**

SQL, Python, HTML, CSS, PHP



python™

- **Visualization Tool**

Looker Data Studio



Looker

- **Data Analysis**

Data Visualization, Data Storytelling, PHPMyAdmin,
Oracle Data Modeler



- **Design Tool**

Figma, Canva



ENTERPRISE
ARCHITECT

- **Project Management Tool**

Trello, Miro

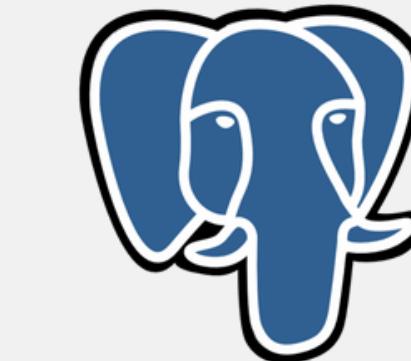


Trello

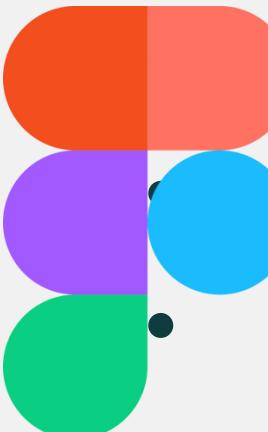
- **Microsoft Office**



- **Enterprise Architecture**



PostgreSQL



RELEVANT PROJECT DATA ANALYSIS



[HTTPS://GITHUB.COM/LAILATULEKYE](https://github.com/lailatulekye)

NORTHWIND DATABASE ANALYSIS USING SQL

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VIEW

```
71 -- 5. Buatlah query untuk membuat view yang berisi kolom-kolom:  
72 -- no_trx, tgl_trx, nama_brg, qty_jual, hrg_satuan, tot_jual  
73 -- query tersebut dari tabel barang dan tabel transaksi.  
74  
75 CREATE VIEW order_barang AS  
76 SELECT  
77     o."OrderID" AS no_trx,  
78     o."OrderDate" AS tgl_trx,  
79     p."ProductName" AS nama_brg,  
80     od."Quantity" AS qty_jual,  
81     od."UnitPrice" AS hrg_satuan,  
82     (od."Quantity" * od."UnitPrice") AS tot_jual  
83 FROM orders o  
84 JOIN order_details od ON o."OrderID" = od."OrderID"  
85 JOIN products p ON od."ProductID" = p."ProductID";  
86
```

Data Output							
	no_trx smallint	tgl_trx date	nama_brg character varying (40)	qty_jual smallint	hrg_satuan real	tot_jual double precision	
1	10248	1996-07-04	Queso Cabrales	12	14	168	
2	10248	1996-07-04	Singaporean Hokkien Fried Mee	10	9.8	98.00000190734863	
3	10248	1996-07-04	Mozzarella di Giovanni	5	34.8	173.99999618530273	
4	10249	1996-07-05	Tofu	9	18.6	167.40000343322754	
5	10249	1996-07-05	Manjimup Dried Apples	40	42.4	1696.0000610351562	
6	10250	1996-07-08	Jack's New England Clam Chow...	10	7.7	76.99999809265137	
7	10250	1996-07-08	Manjimup Dried Apples	35	42.4	1484.0000534057617	
8	10250	1996-07-08	Louisiana Fiery Hot Pepper Sauce	15	16.8	251.9999885559082	
9	10251	1996-07-08	Gustaf's Knäckebröd	6	16.8	100.79999542236328	
10	10251	1996-07-08	Ravioli Angelo	15	15.6	234.0000057220459	
11	10251	1996-07-08	Louisiana Fiery Hot Pepper Sauce	20	16.8	335.99998474121094	
12	10252	1996-07-09	Citrus Bergamot Marmalade	40	64.8	2592.0001220702125	

FUNCTION

```
184 -- FUNCTION --
185 -- Berdasarkan database northwind, Buatlah function
186 -- yang menghasilkan data produk dengan parameter namakategorinya
187 -- dan nama perusahaan suppliers, seperti contoh query di bawah ini
188
189 create function get_produk(kategori varchar(50), perusahaan varchar(50))
190 returns int
191 language plpgsql
192 as $$ 
193 declare
194     product_id integer;
195 begin
196     select p."ProductID" into product_id
197     from products p join suppliers s on
198         s."SupplierID" = p."SupplierID" join categories c
199         on c."CategoryID" = p."CategoryID"
200     where c."CategoryName" = kategori and s."CompanyName" = perusahaan
201     limit 1;
202
203     return product_id;
204
205 END;
206 $$
```

```
207  
208 select get_produk('Beverages', 'Exotic Liquids')
```

Data Output Messages Notifications

≡+

	get_produk	integer
1		2

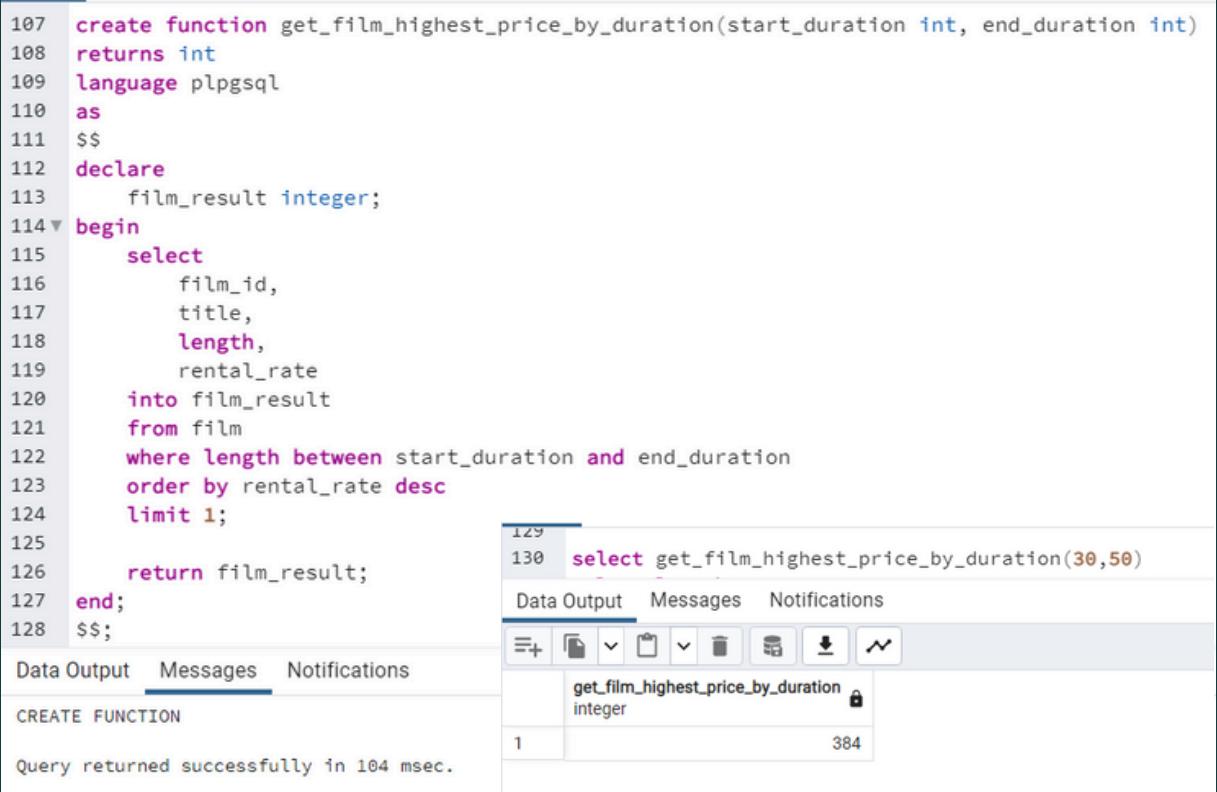
This is my personal project, I analyze the Northwind database, representing a fictitious company managing sales, orders, suppliers, employees, and products. Case studies include sales analysis, employee productivity, procurement, and shipment streamlining. I've also developed functions and views to facilitate data search and filtering, aiming to extract insights for informed decision-making across business operations.

DATAMART PROJECT USING SQL

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FUNCTION



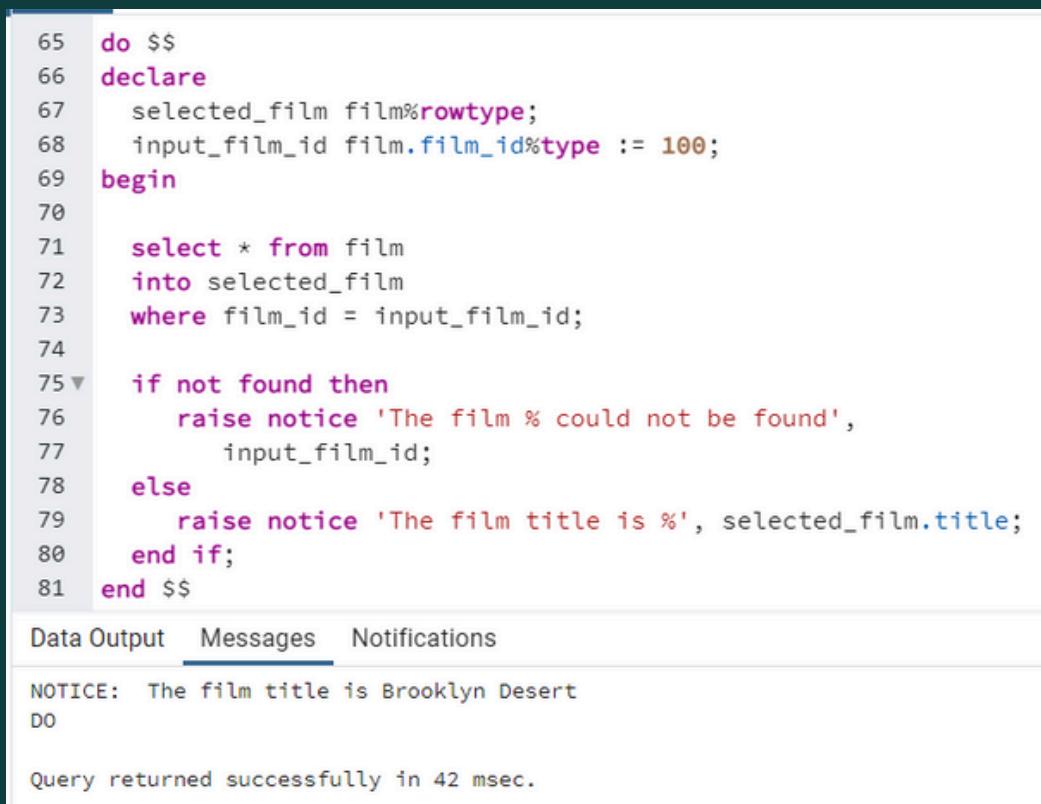
```
107 create function get_film_highest_price_by_duration(start_duration int, end_duration int)
108 returns int
109 language plpgsql
110 as
111 $$
112 declare
113     film_result integer;
114 begin
115     select
116         film_id,
117         title,
118         length,
119         rental_rate
120     into film_result
121     from film
122     where length between start_duration and end_duration
123     order by rental_rate desc
124     limit 1;
125
126     return film_result;
127 end;
128 $$;
```

CREATE FUNCTION

Query returned successfully in 104 msec.

In this project, I was asked to create a datamart from the dvdrental dataset providing several pieces of information such as rental income from films based on title, rating, and film category; searching for a film and generating feedback messages indicating whether the film was found or not; creating a function to retrieve film data with the highest rental price based on the film duration within a specific range.

DECLARE



```
65 do $$
66 declare
67     selected_film film%rowtype;
68     input_film_id film.film_id%type := 100;
69 begin
70
71     select * from film
72     into selected_film
73     where film_id = input_film_id;
74
75     if not found then
76         raise notice 'The film % could not be found',
77             input_film_id;
78     else
79         raise notice 'The film title is %', selected_film.title;
80     end if;
81 end $$;
```

Data Output Messages Notifications

NOTICE: The film title is Brooklyn Desert

DO

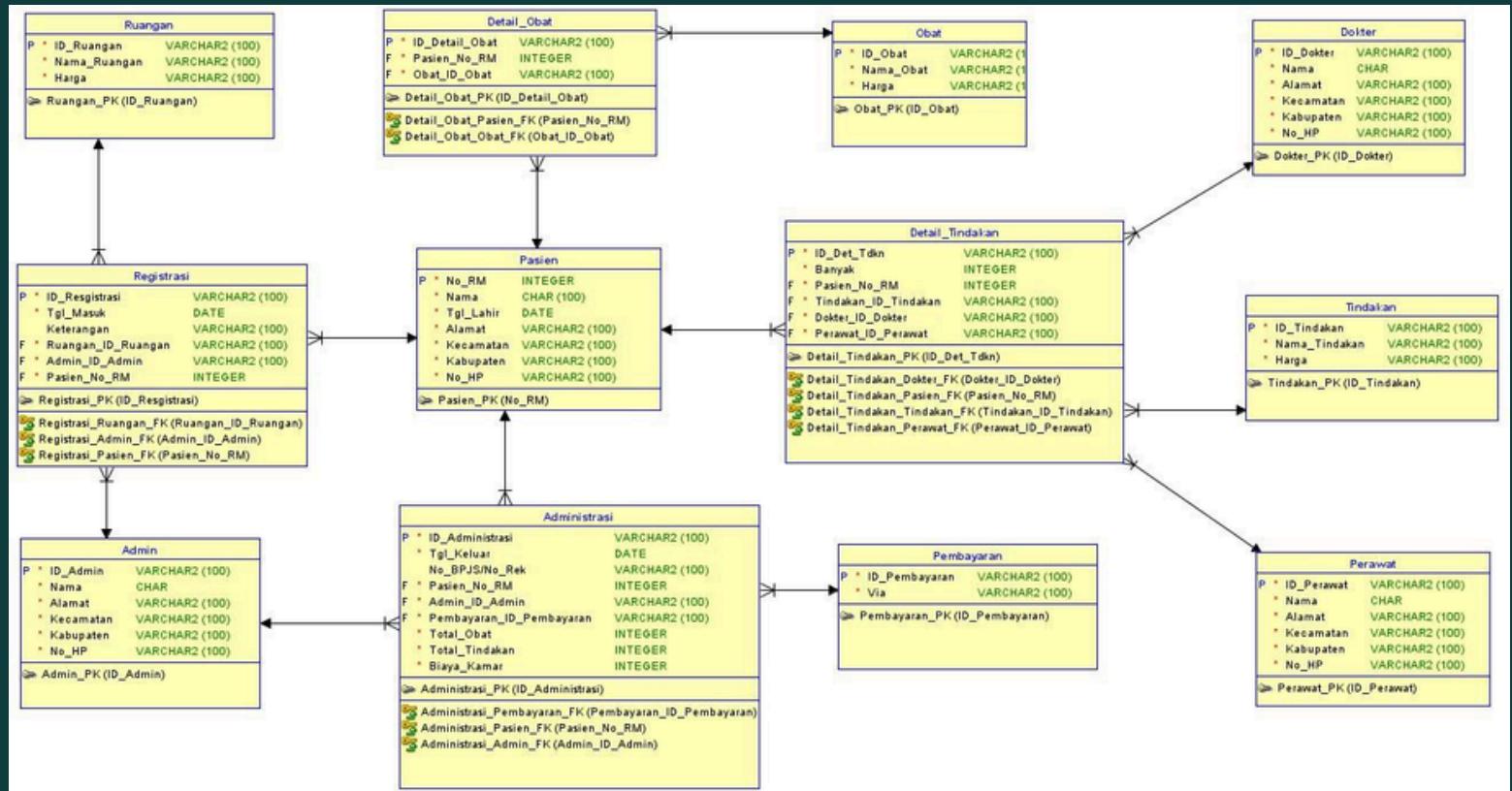
Query returned successfully in 42 msec.

```
1 select title, length from film
2 where length > (select avg(length) from film)
3
4 select title, description, replacement_cost
5 from film
6 where title in (select title from film
7 where replacement_cost between 20 and 25)
8
9 select title, description, replacement_cost
10 from film
11 where replacement_cost any (select
12 avg(replacement_cost) from film
13 join film category using (film_id)
14 join category using (category_id)
15 group by name)
```

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DATABASE KALISAT HOSPITAL SERVICES

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```

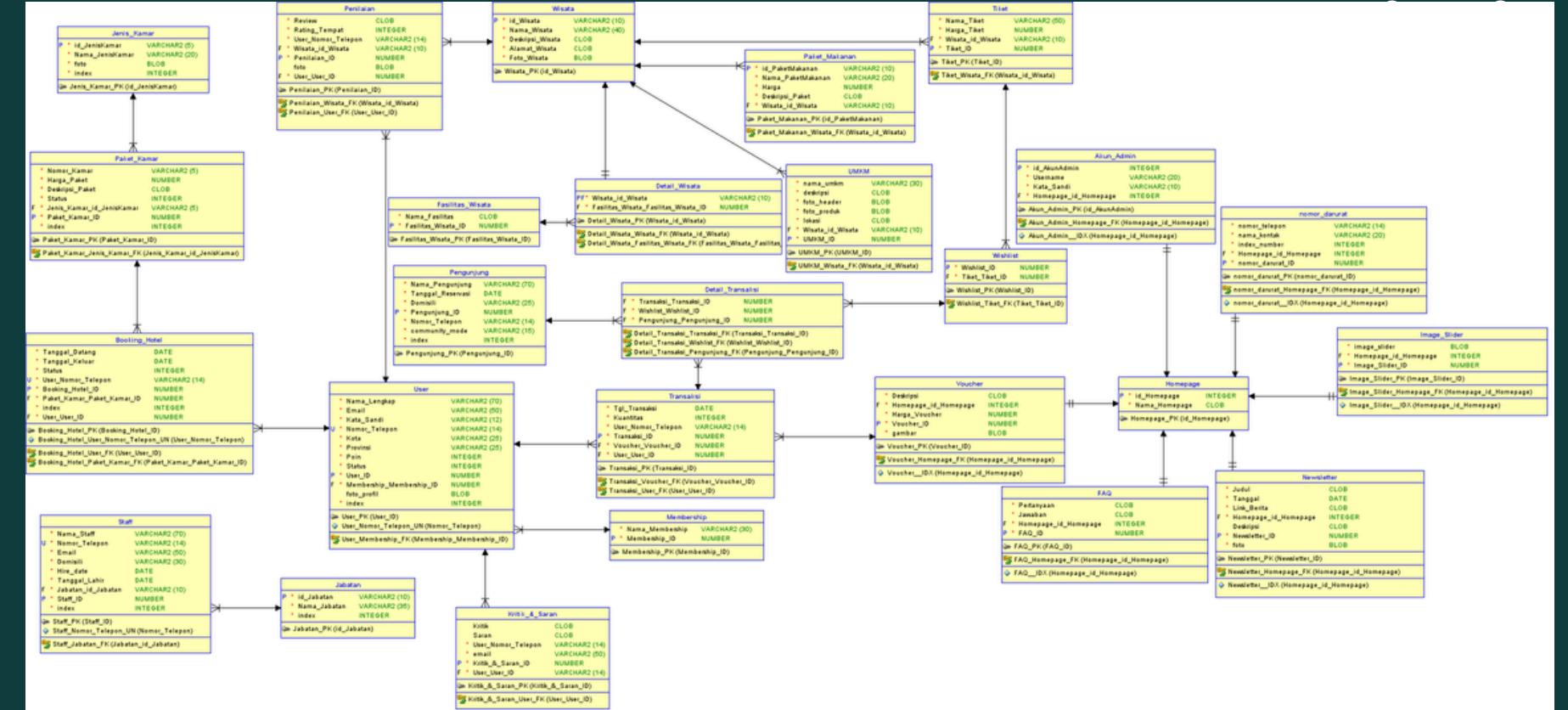
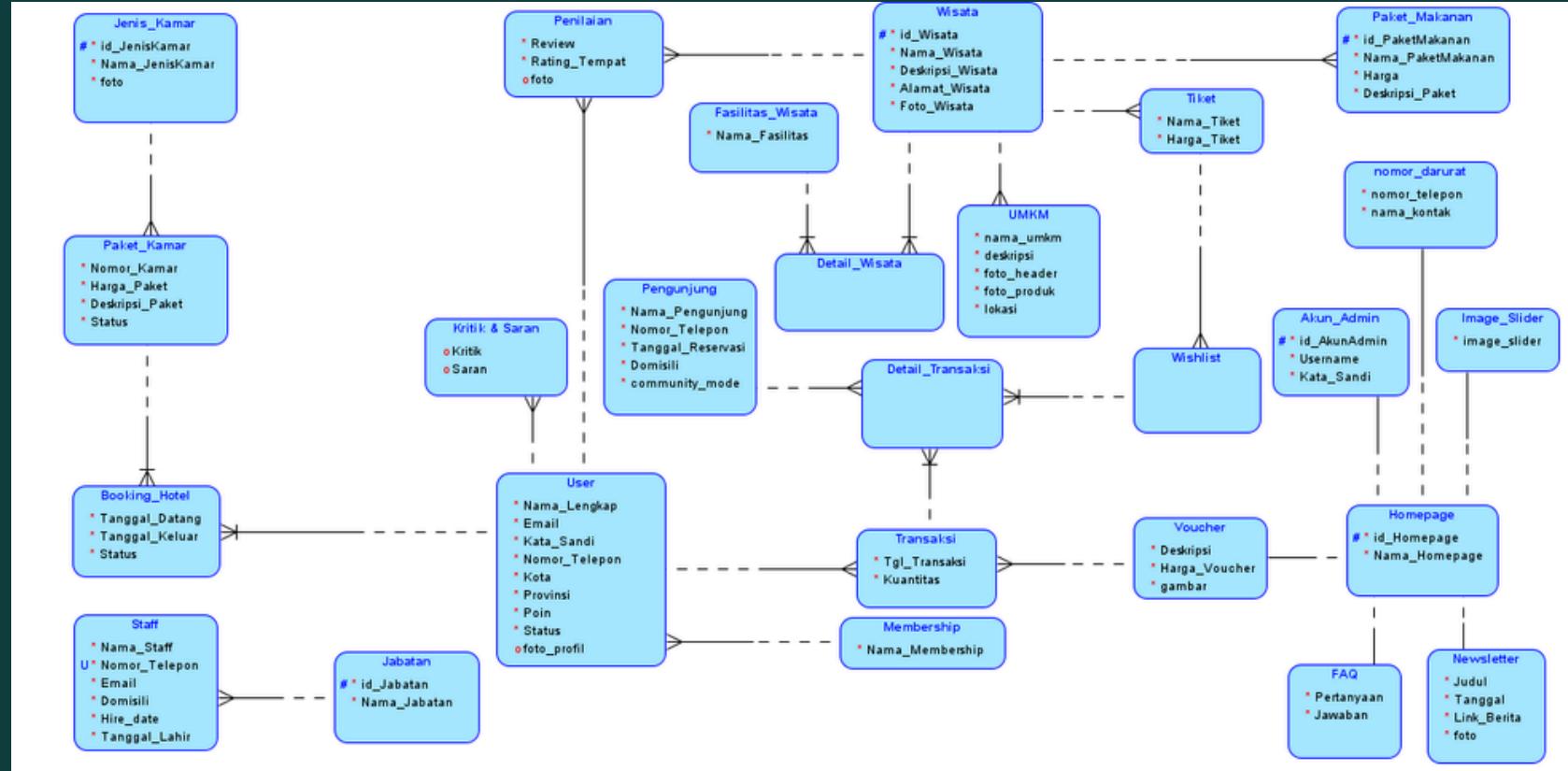
4
5 CREATE TABLE IF NOT EXISTS public.detail_tindakan
6 (
7     id_det_tdkn character varying(100) COLLATE pg_catalog."default" NOT NULL,
8     pasien_no_rm integer NOT NULL,
9     dokter_id_dokter character varying(100) COLLATE pg_catalog."default" NOT NULL,
10    perawat_id_perawat character varying(100) COLLATE pg_catalog."default" NOT NULL,
11    tindakan_id_tindakan character varying(100) COLLATE pg_catalog."default" NOT NULL,
12    banyak character varying(100) COLLATE pg_catalog."default" NOT NULL,
13    CONSTRAINT detail_tindakan_pkey PRIMARY KEY (id_det_tdkn),
14    CONSTRAINT detail_tindakan_dokter_fk FOREIGN KEY (dokter_id_dokter)
15        REFERENCES public.dokter (id_dokter) MATCH SIMPLE
16        ON UPDATE NO ACTION
17        ON DELETE NO ACTION,
18    CONSTRAINT detail_tindakan_pasien_fk FOREIGN KEY (pasien_no_rm)
19        REFERENCES public.pasien (no_rm) MATCH SIMPLE
20        ON UPDATE NO ACTION
21        ON DELETE NO ACTION,
22    CONSTRAINT detail_tindakan_perawat_fk FOREIGN KEY (perawat_id_perawat)
23        REFERENCES public.perawat (id_perawat) MATCH SIMPLE
24        ON UPDATE NO ACTION
25        ON DELETE NO ACTION,
26    CONSTRAINT detail_tindakan_tindakan_fk FOREIGN KEY (tindakan_id_tindakan)
27        REFERENCES public.tindakan (id_tindakan) MATCH SIMPLE
28        ON UPDATE NO ACTION
29        ON DELETE NO ACTION
30 )

```

Website-based system design and database aimed at facilitating and expediting the patient service process at Kalisat Hospital.

I created the workflow design, Entity-Relationship Diagram (ERD), using Oracle Data Modeler. Additionally, I also developed the SQL database for JT-App, which is available on my GitHub.

DATABASE JT-APP



JT-App is a desktop-based application designed to assist tourists in exploring tourist attractions in Jember, in collaboration with the Jember District Tourism Office. I created the workflow design, Entity-Relationship Diagram (ERD), using Oracle Data Modeler. Additionally, I also developed the SQL database for JT-App, which is available on my GitHub.

STATISTICAL ANALYSIS OF COVID-19

5.1 Rumus simpangan deviasi data kelompok

$$S = \sqrt{\frac{\sum f_i(x_i - \bar{x})^2}{n}}$$

S = Standar Deviasi

f_i = Frekuensi Kelompok

x_i = Nilai tengah *x* ke *i*

̄x = Nilai rata-rata data

n = Jumlah Data

Kelas Interval	Nilai Tengah (Xi)	Fixi	Frekuensi (f)	xi - x	(xi-x)^2	fi(xi-x)^2
12.751 - 55.396	34.073,50	2.657.733	78	-21.323	454.670.329	35.464.285.662
55.397 - 98.042	76.719,50	997.353,50	13	21.323	454.670.329	5.910.714.277
98.043 - 140.688	119.365,50	358.096,50	3	63.969	4.092.032.961	12.276.098.883
140.689 - 183.334	162.011,50	162.011,50	1	106.615	11.366.758.225	11.366.758.225
183.335 - 225.980	204.657,50	409.315	2	149.261	22.278.846.121	44.557.692.242
225.981 - 268.626	247.303,50	0	0	191.907	36.828.296.649	0
268.627 - 311.272	289.949,50	289.949,50	1	21.323	55.015.109.809	55.015.109.809
311.273 - 353.918	332.595,50	665.191	2	63.969	76.839.285.601	153.678.571.202
Jumlah	100	3.182.692.303				318.269.230.300

$$\text{Varian} = \frac{1}{n} \sum (X_i - \bar{X})^2$$

$$\text{Simpangan Baku (S)} = \sqrt{\text{varian}} = \sqrt{\frac{1}{n} \sum (X_i - \bar{X})^2}$$

Kelas Interval	fi	m	m * fi	$(m - \bar{X})^2$	$(m - \bar{X})^2 \cdot f$
12.751 - 55.396	78	34.073,50	2.657.773	454.670.329	35.464.285.662
55.397 - 98.042	13	76.719,50	997.353,50	454.670.329	5.910.714.277
98.043 - 140.688	3	119.365,50	358.096,50	4.092.032.961	12.276.098.883
140.689 - 183.334	1	162.011,50	162.011,50	11.366.758.225	11.366.758.225
183.335 - 225.980	2	204.657,50	409.315	22.278.846.121	44.557.692.242
225.981 - 268.626	0	247.303,50	0	36.828.296.649	0
268.627 - 311.272	1	289.949,50	289.949,50	55.015.109.809	55.015.109.809
311.273 - 353.918	2	332.595,50	665.191	76.839.285.601	153.678.571.202
Jumlah	100	1.466.676			318.269.230.300

$$\text{Varian} = \frac{1}{100} * 318.269.230.300 = 3.182.692.303$$

$$S = \sqrt{3.182.692.303} = 56.415,36$$

4.1 Tentukan nilai tengah *x* dan hitung rata rata

a. Untuk mencari nilai tengah kita jumlahkan nilai tiap sel kemudian bagi 2 dan untuk mencari $\sum f_i$ kalikan frekuensi dengan nilai tengah

b. Dari tabel diatas diperoleh frekuensi

$$\sum_{i=1}^k f_i = 100 \text{ dan } \sum_{i=1}^k f_i x_i = 5.539.650$$

c. Dari rumus diatas akan diperoleh rata rata dengan cara $5.539.650 \div 100 = 55.396,5$

4.2 Hitung Simpangan Rata Rata

34.073,50	55.396,50	-21.323	21.323	1.663.194
76.719,50	55.396,50	21.323	21.323	277.199
119.365,50	55.396,50	63.969	63.969	191.907
162.011,50	55.396,50	106.615	106.615	106.615
204.657,50	55.396,50	149.261	149.261	298.522
247.303,50	55.396,50	191.907	191.907	0
289.949,50	55.396,50	234.553	234.553	234.553
332.595,50	55.396,50	277.199	277.199	554.398
Jumlah		1.066.150		3.326.388

Analysis of data on the frequency distribution of the number of COVID-19 death cases in districts/cities in Indonesia.

In analyzing the data, I calculated the mean, median, mode, range, mean deviation, and standard deviation values.

SENTIMENT ANALYSIS OF KAMPUS MENGAJAR PROGRAM OPINIONS

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```
▼ CLEANSING

1 def remove_pattern(input_txt, pattern):
2     r = re.findall(pattern, input_txt)
3     for i in r:
4         input_txt = re.sub(i, '', input_txt)
5     return input_txt
6
7 def remove_tweet_special(text):
8     # hapus tab, baris baru dll
9     text = text.replace('\t', " ").replace('\n', " ").replace('\u', " ").replace('\\', "")
10    # hapus non ASCII (emoticon, dll)
11    text = text.encode('ascii', 'replace').decode('ascii')
12    # hapus mention, link, hashtag
13    text = ' '.join(re.sub("(@#[A-Za-z0-9]+)|(\w+:\/\/[\S+])", " ", text).split())
14    # hapus URL
15    return text.replace("http://", " ").replace("https://", " ")
16
17 df['TEXT'] = df['TEXT'].apply(remove_tweet_special)
18
19 #hapus angka
20 def remove_number(text):
21     return re.sub(r"\d+", "", text)
22
23 df['TEXT'] = df['TEXT'].apply(remove_number)
24
25 #hapus tanda baca
26 def remove_punctuation(text):
27     return text.translate(str.maketrans("", "", string.punctuation))
28
29 df['TEXT'] = df['TEXT'].apply(remove_punctuation)
30
```

Hasil Akurasi, Presisi, Recall pada K-Fold 2

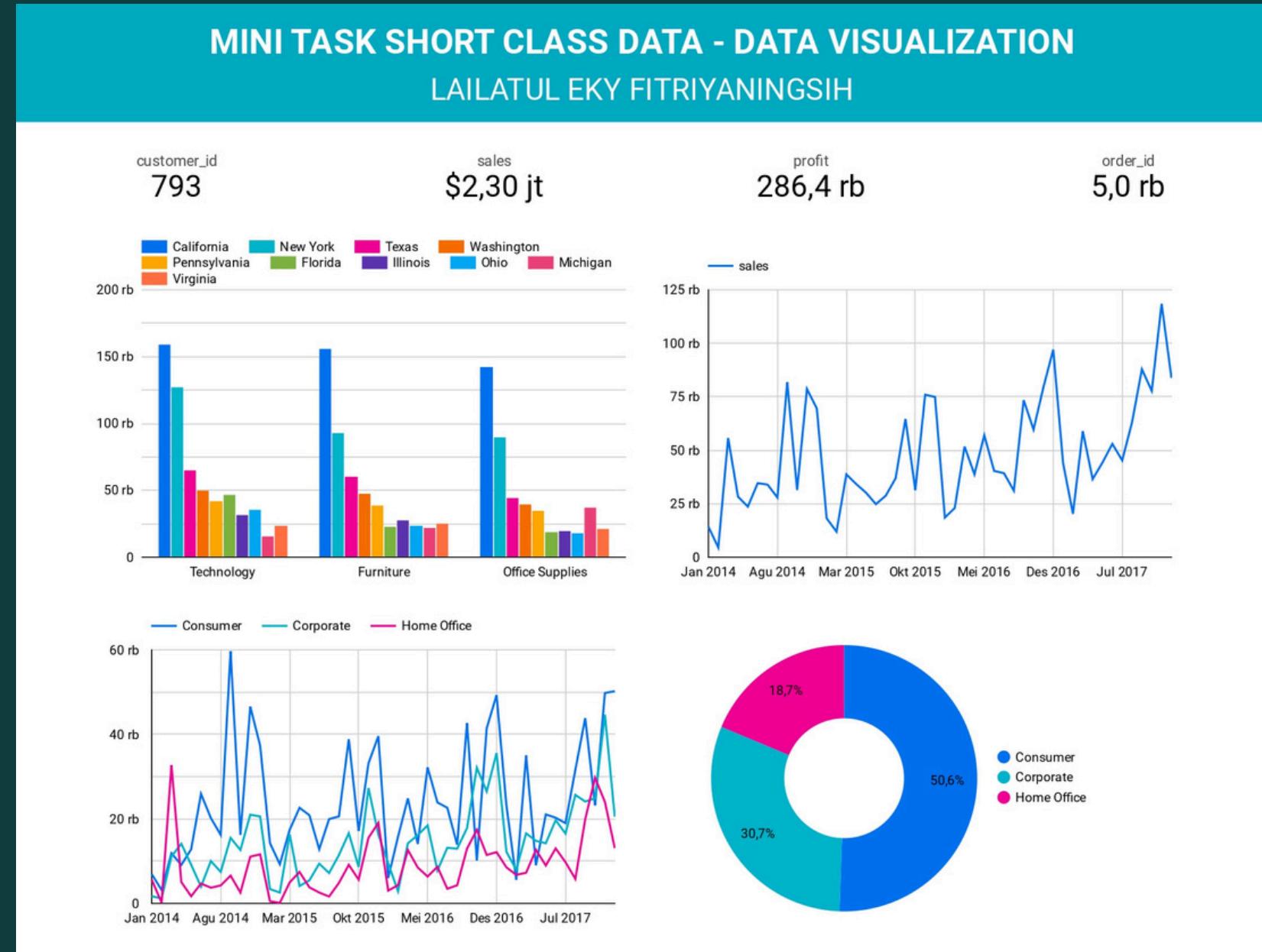
```
[ ] 1 import numpy as np
2 from sklearn.naive_bayes import MultinomialNB
3 from sklearn.model_selection import KFold, cross_val_predict
4 from sklearn.metrics import precision_score, recall_score, confusion_matrix, accuracy_score
5 from sklearn.multiclass import OneVsRestClassifier
6 from sklearn.feature_extraction.text import CountVectorizer
7 from sklearn.model_selection import cross_val_score
8
9 # Gantilah definisi variabel X_train, y_train, X, dan y dengan data Anda
10 X = df.script_text
11 y = df.SENTIMEN
12
13 # Inisialisasi objek KFold
14 kfold = KFold(n_splits=2, shuffle=True, random_state=42)
15 mnb = MultinomialNB()
16 clf = OneVsRestClassifier(mnb)
17
18 # Gunakan CountVectorizer untuk mengonversi teks menjadi vektor fitur
19 vectorizer = CountVectorizer()
20 X_vectorized = vectorizer.fit_transform(X)
21
22 # Lakukan prediksi dan peroleh label hasil prediksi
23 predicted = cross_val_predict(clf, X_vectorized, y, cv=kfold)
24
25 #Tampilkan hasil
26 precision_scores = []
27 recall_scores = []
28
29 # Tampilkan hasil
30 for fold, (train_index, test_index) in enumerate(kfold.split(X)):
31     X_train, X_test = X_vectorized[train_index], X_vectorized[test_index]
32     y_train, y_test = y.iloc[train_index], y.iloc[test_index]
```

```
Fold 1
Sentimen Aktual: [0 1 1 0 1 0 0 1 1 1 0 0 0 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 1 0 0 1
1 1 1 0 1 0 0 1 0 0 0 1 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 0 1 1 1 1 0 0 0
0 1 1 1 0 0 0 1 0 0 0 1 1 1 0 1 0 1 0 0 0 0 0 1 0 1 1 0 1 0 0 1 0 0 1 0 1 0 0 1
1 0 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 1 1 1 0 1 0 1 0 0 1 1 0 1 0 0 1 1 0 0 1 0 0 1
0 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1 1 0 0 1
1 1 1 1 1 0 0 0 1 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1
1 1 1 1 1 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 0 1 1 1 1 0 1 0 0 1
0 0 1 0 1 0 1 0 0 1 1 1 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1
0 0 0 0 1 0 0 0 0 1 1 1 0 0 1 0 1 0 0 1 0 0 0 0 1 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 1 1
Sentimen Prediksi: [1 1 1 0 1 1 1 1 0 1 1 0 0 0 0 0 0 1 1 1 1 1 0 0 0 1 0 1 1 0 0 0 1 1 1
1 1 1 1 0 0 0 1 0 0 1 1 1 1 0 0 0 1 1 1 1 1 0 0 1 0 0 1 1 1 1 0 0 0 1 0 0 0 1 0 0 0
0 1 1 1 0 1 1 0 0 0 1 0 1 0 0 0 1 0 1 0 1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1 1 1 0
0 0 1 0 0 0 0 0 0 1 0 1 1 0 1 0 0 1 1 0 0 0 0 0 0 0 1 1 1 1 1 0
0 1 1 0 1 1 1 1 0 1 0 1 1 0 1 0 0 0 0 1 0 0 1 0 1 0 1 0 0 0 1 1 1 0 1 0 0 1
1 1 0 0 1 1 1 1 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0
0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 1 1 1 1 1 0 0 1
1 1 1 1 1 0 0 0 1 0 1 1 0 1 0 1 1 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 0 1 0 1 1 1 0 1 0 1
1 1 1 1 1 0 0 0 1 0 0 1 1 1 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 0 1 0 0 0 1 0 0 0 1 0 1 0
1 0 1 0 1 0 0 0 1 1 1 1 1 1 0 0 1 1 1 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1
0 0 1 0 1 1 1 1 0 1 0 1 1 1 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1
Jumlah Sentimen Aktual: 400
Jumlah Sentimen Prediksi: 400
Confusion Matrix:
[[148 56]
 [ 47 149]]
True Positive (TP): 148
True Negative (TN): 149
False Positive (FP): 56
False Negative (FN): 47
Akurasi Fold 1: 0.7425
Presisi Fold 1: 0.7254901960784313
Recall Fold 1: 0.7589743589743589
```

My personal project to measure the accuracy, precision, and recall rates of the Multinomial Naïve Bayes method on opinions about the Kampus Mengajar program on the Twitter social network. I conduct data cleansing and preparation using Python, and analyze it using the Multinomial Naïve Bayes method.

DATA VISUALIZATION SUPER STORE

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My personal project from class data visualization by MySkill. I analyzed the superstore database and visualized the data using Looker Studio to obtain valuable insights such as customer count, profit earned, customer distribution, and sales diagrams.

RELEVANT PROJECT SYSTEM ANALYSIS



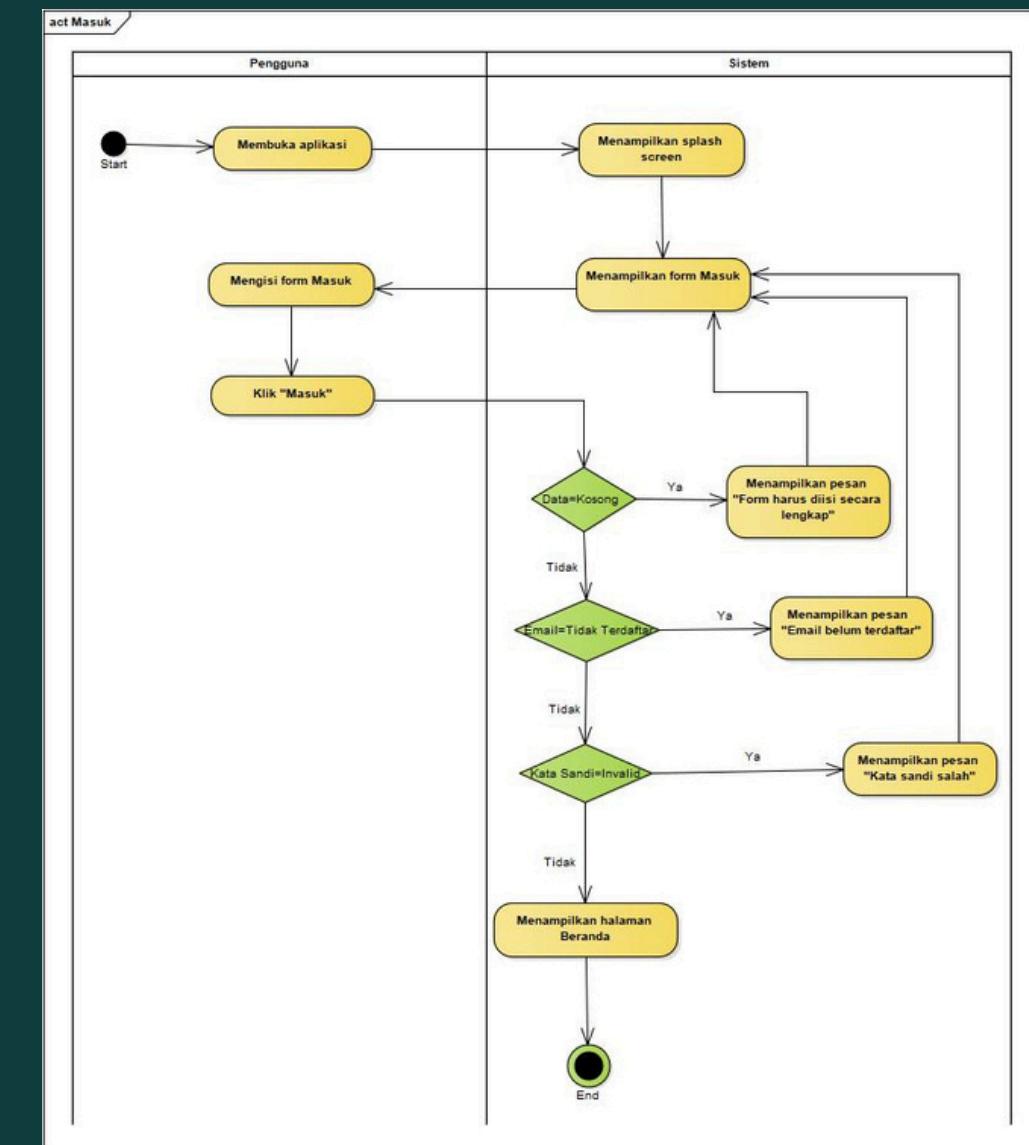
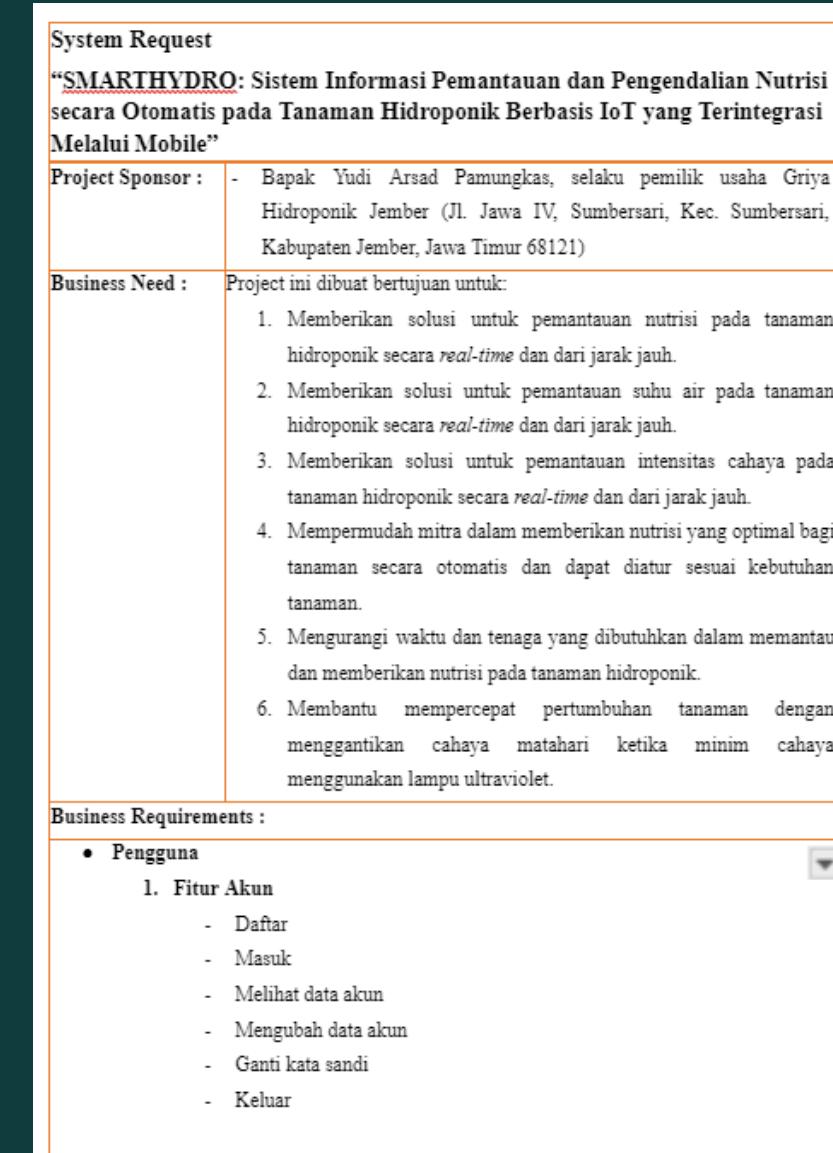
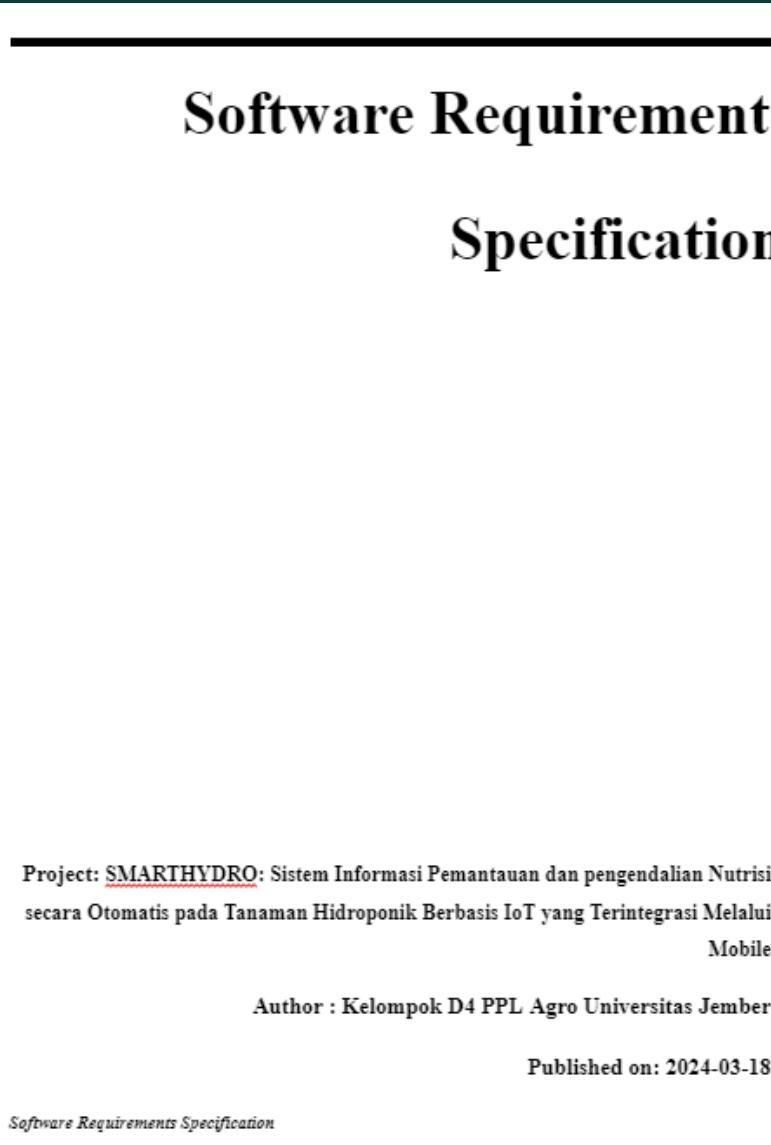
[HTTPS://GITHUB.COM/LAILATULEKYE](https://github.com/lailatulekye)

SYSTEM ANALYSIS SMARTHYDRO

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Software Requirements Specification



SmartHydro is a mobile application designed as an automatic nutrient monitoring and controlling information system for internet of things-based hydroponic plants. I collaborated with cross-functional teams to gather user requirements and ensure alignment with project objectives. Conducting a comprehensive user needs analysis was the initial step in our software design project. I created UML design diagrams to illustrate the structure and interaction of the software system being developed.

RELEVANT PROJECT UI/UX DESIGN



[HTTPS://GITHUB.COM/LAILATULEKYE](https://github.com/lailatulekye)

SPROUTLINGS

Mobile application designed to provide nutritional interventions and child development support

Page

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The image displays five screenshots of the Sproutlings mobile application, showing various features for monitoring child growth and development.

- Home Screen:** Shows a banner with four babies, the app logo "Sproutlings" with the tagline "Tumbuh Sehat, Generasi Hebat", and three main categories: Gizi (Nutrition), Tumbuh Kembang (Growth), and Jejak Anak (Child Track).
- User Profile:** Displays the user profile for "Rheno Julius" (0 Tahun 7 Bulan). It shows two cards: "Status Gizi Obesitas" (20 April 2024) and "Perkembangan 5/16" (20 April 2024). Below is a call-to-action button: "Yuk pantau kesehatan gizi anak dengan aplikasi Sproutlings".
- Growth Analysis:** Shows detailed growth analysis for "Rheno Julius" (0 Tahun 7 Bulan). It includes height, weight, and head circumference measurements (7.5 kg, 33.6 cm, 24.8 cm, all normal) and a checklist for "Tumbuh Kembang Anak".
- Child Development:** Provides a checklist for children aged 0-3 months, listing milestones like "Menatap ke ibu", "Mengeluarkan suara o...o...", "Tersenyum", and "Menggerakkan tangan dan kaki".
- Child Track:** Shows a timeline for "Rheno Julius" from age 3 to 9 months. It includes a summary: "Hari ini Rheno semakin aktif dan lucu. Sudah bisa duduk sendiri dengan stabil, kadang-kadang mencoba merangkak. Tadi pagi, dia suka sekali main dengan mainan berbunyi-bunyi." A "Simpan" (Save) button is at the bottom.

VOLUNTREK

Website Based Volunteer Resource Information Platform at the University of Jember

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Gain Experience

Join ud and make a positive impact on the world

Ambil peran jadi relawan. Ubah niat baik jadi aksi baik hari ini!

JOIN WITH US

Why volunteer ?

Mengikuti kegiatan sukarela membawa sejumlah manfaat yang luas, tidak hanya bagi masyarakat yang dilayani, tetapi juga bagi diri sukarelawan sendiri.

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Social Connect

Temukan teman-teman sejulah dan bangun hubungan yang berarti selama perjalanan sukarelawan

Gain Experience

Kesempatan untuk mempelajari keterampilan baru dan mendapatkan pengalaman berharga

Contribute to positive Goals

Jadi agen perubahan dan lihat hasil langsung dari kontribusi kalian dalam membentuk dunia yang lebih baik

Contribute to positive Goals

terapkan skill dan bakat kalian untuk mendukung tujuan positif dan membuat perbedaan nyata di dunia

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04 Bagaimana cara mencari proyek atau kegiatan volunteer yang sesuai?

05 Bisakah saya menjadi volunteer atau sukarelawan secara virtual?

06 Apa manfaat menjadi volunteer atau sukarelawan di website ini?

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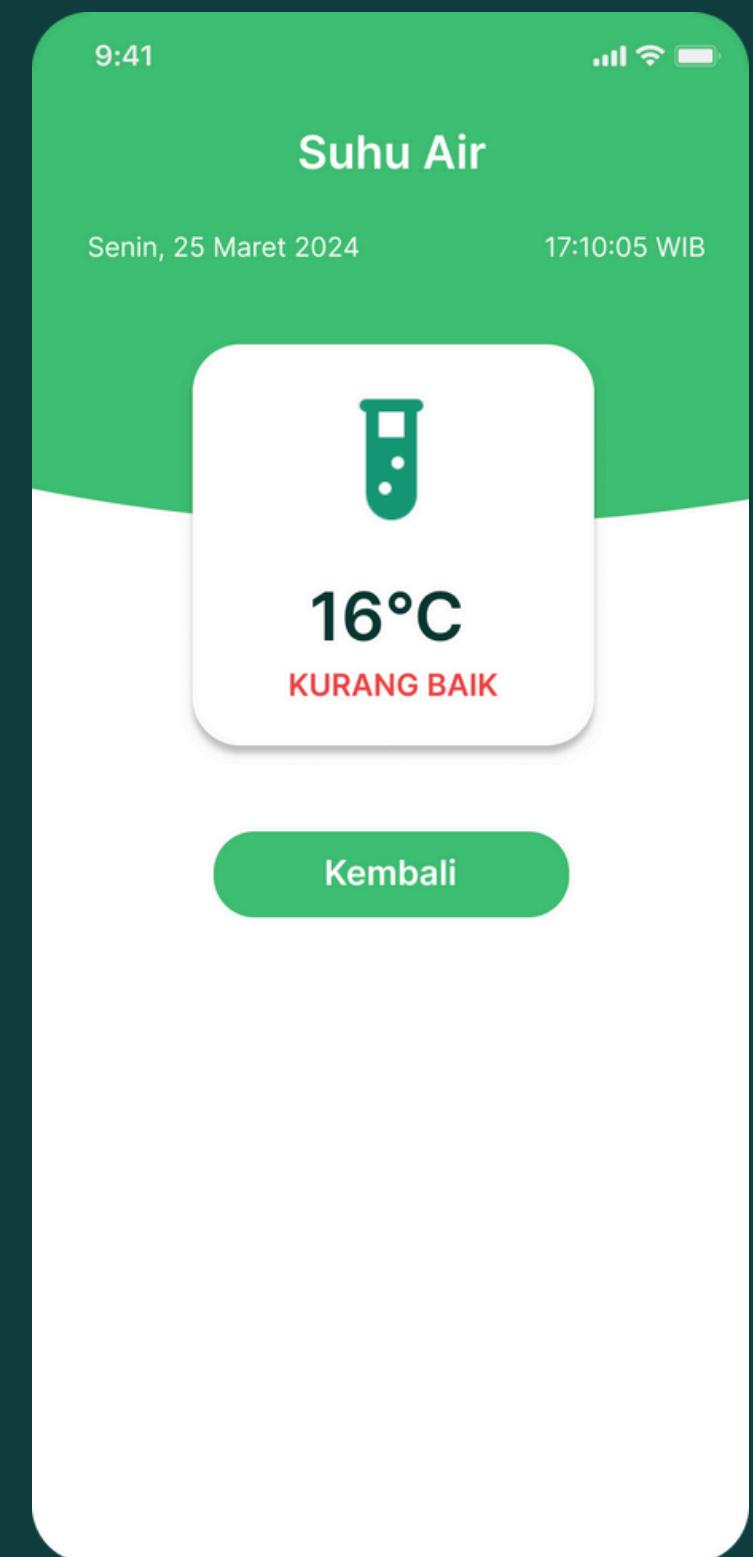
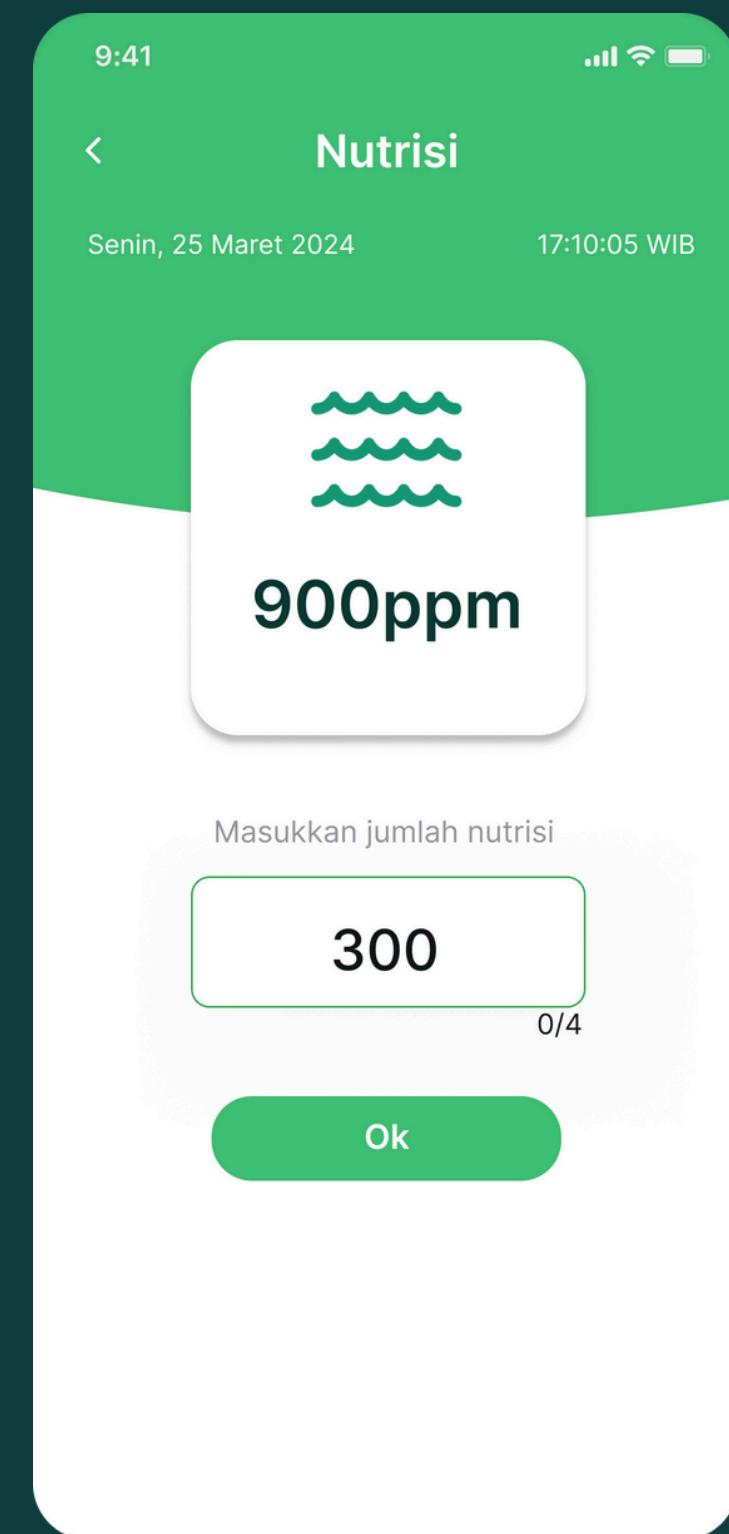
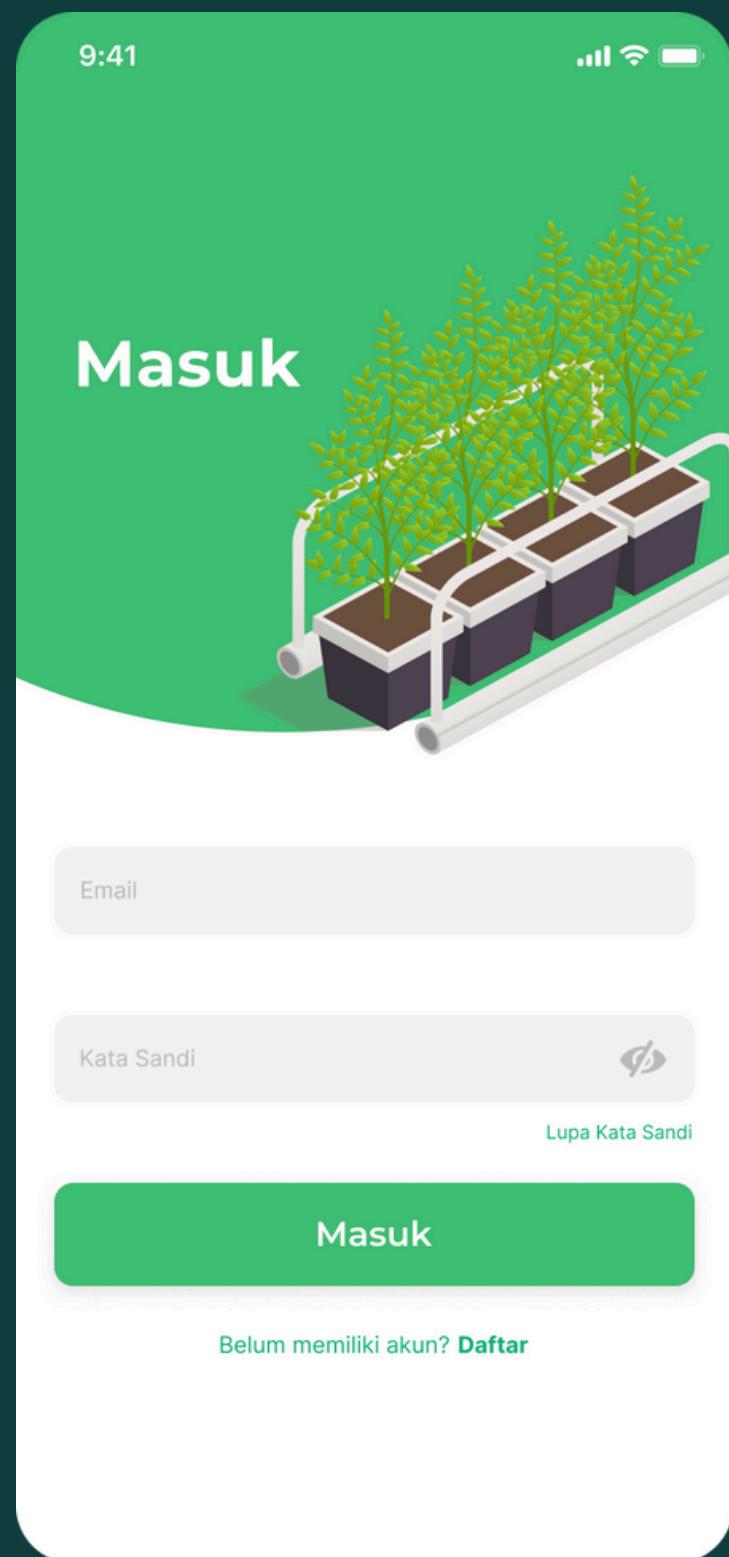
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SMARTHYDRO

Mobile application designed as an automatic nutrient monitoring and controlling information system for internet of things-based hydroponic plants

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