



PORTFOLIO

Ibnu Hakim

Nurlan

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Hello,

I'm Ibnu Hakim Nurlan

As Student of Information System

I'm 7 th Semester Information System student from universitas Multimedia Nusantara, also i have a good basic skill in Data Analyst, Web Developing, Data Visualization, Database and Machine learning. It didn't stop there, I also took the ERP course. I have high interest in solving problem using Python Tools and making web design development especially backend develop.



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Education

2015-2021

SMAS DAAR EL QOLAM

- Medical Science CGPA 2.95
- Religious

2021-PRESENT

Universitas Multimedia Nusantara

- Information System
- CGPA : 3.06/4.00



msu management & science university			ACADEMIC TRANSCRIPT		
NAME	IBNU HAKIM NURLAN		PROGRAMME	FOUNDATION (BIOLOGICAL SCIENCE/HEALTH SCIENCE)	
PASSPORT NO.	C3781666		FACULTY	CENTRE FOR FUNDAMENTAL STUDIES	
MATRIC NO.	311012019070094		INTAKE	JULY 2019	
CITIZENSHIP	INDONESIAN		RESULT	COMPLETED	
GENDER	MALE		FINAL CGPA	2.95	
ADDRESS	JALAN RADEN SALEH GANG HAJI KADI RT 005/005, KARANG TENGAH, CILEDUG TANGERANG				
INDONESIA					
CODE	SUBJECT	CREDIT STATUS GRADE	CODE	SUBJECT	CREDIT STATUS GRADE
SEMESTER 1 - 201907			SEMESTER 3 - 202007		
FGS0044	BIOLOGY	4 N B+	FGS0054	BASIC GENETICS	4 N B+
FGS0064	CHEMISTRY I	4 N B	FGS0084	PHYSICS	4 N C
FHS0013	HEALTH SCIENCE	3 N B+	FMT0023	MATHEMATICS II	3 N A
FL0013	ENGLISH FOR GENERAL PROFICIENCY	3 N B	MPU0023U1F	MALAYSIAN STUDIES I	3 N C
			MPU0032U2F	THINKING SKILLS	3 N B
GPA: 3.17	CGPA: 3.17	RESULT: PASS	UCS0061	CO-CURRICULUM II	1 N B+
SEMESTER 2 - 202002			GPA: 2.81 CGPA: 2.95		
FBD0014	BASIC ANATOMY AND PHYSIOLOGY	4 N B	RESULT: PASS		
FC50063	INTRODUCTION TO COMPUTER SCIENCE	3 N A	TOTAL CREDIT HOURS REGISTERED : 50		
FGS0074	CHEMISTRY II	4 N B-	TOTAL CREDIT HOURS EXEMPTED : NIL		
FMT0013	MATHEMATICS I	3 N C+	TOTAL CREDIT HOURS OVERALL : 50		
MPW1143F	ISLAMIC STUDIES	3 N C+	REMARKS:		
UCS0051	CO-CURRICULUM I	1 N A	THE ABOVE STUDENT HAS FULFILLED ALL THE UNIVERSITY REQUIREMENTS TO BE AWARDED WITH FOUNDATION (BIOLOGICAL SCIENCE/HEALTH SCIENCE)		
GPA: 2.93	CGPA: 3.03	RESULT: PASS	ENDORSED BY UNIVERSITY SENATE ON 18 MARCH 2021		
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Experience

Warehouse Operations

Equipment Operator at obscura exhibition (Organization on UMN)

ISMI (Leadership on SMAS Daar-el Qolam

I served for a full year guiding my members to follow existing regulations



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Experience

Food Management Operations

At Career Development Centre Event on UMN duty

Operator

Operator of event career Development centre on UMN Duty



My Dummy Project

Project 1 (HTML, CSS, PHP)

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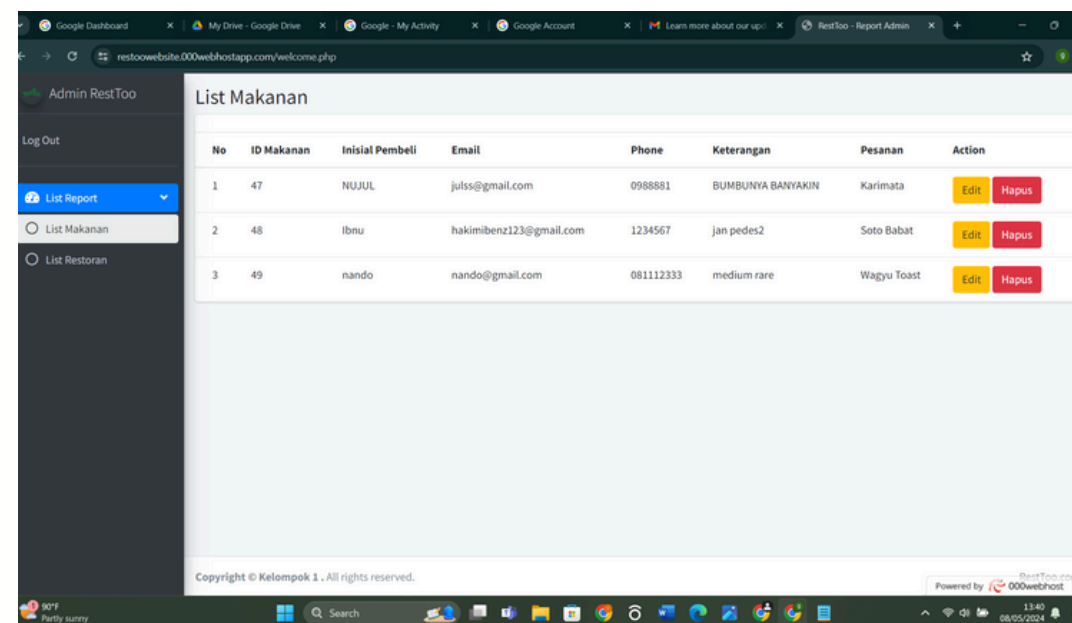
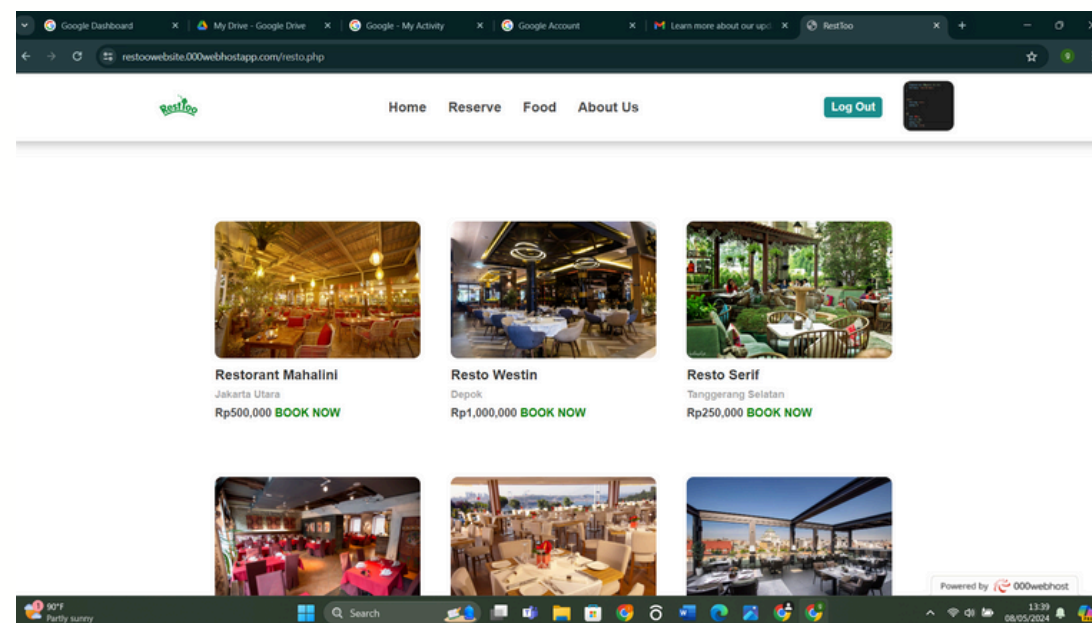
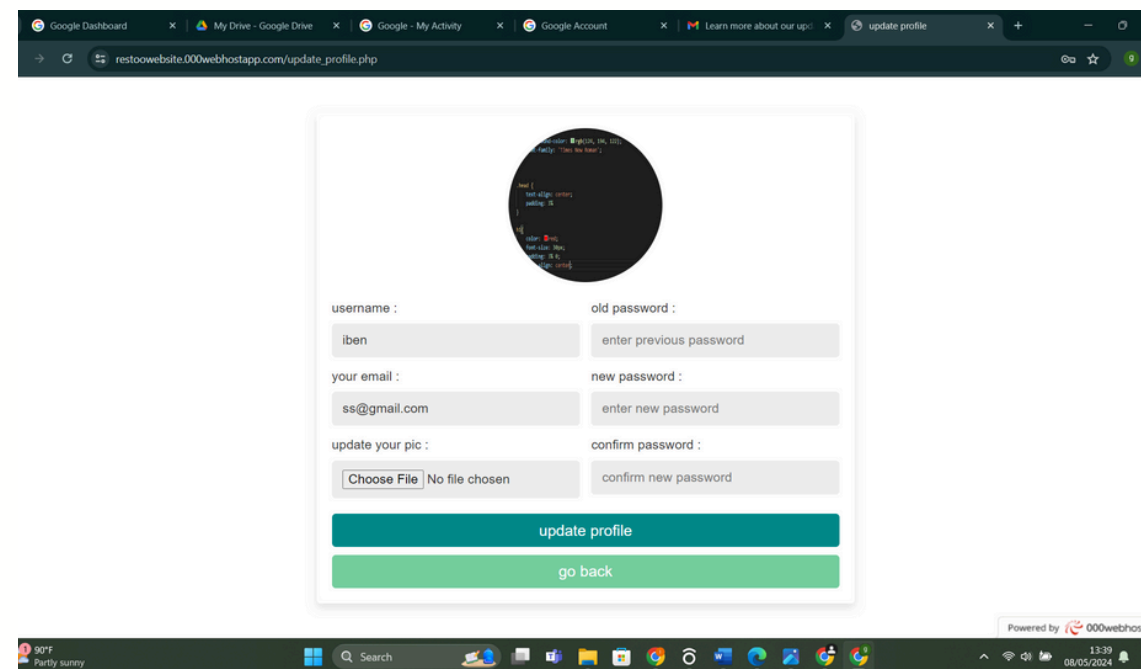
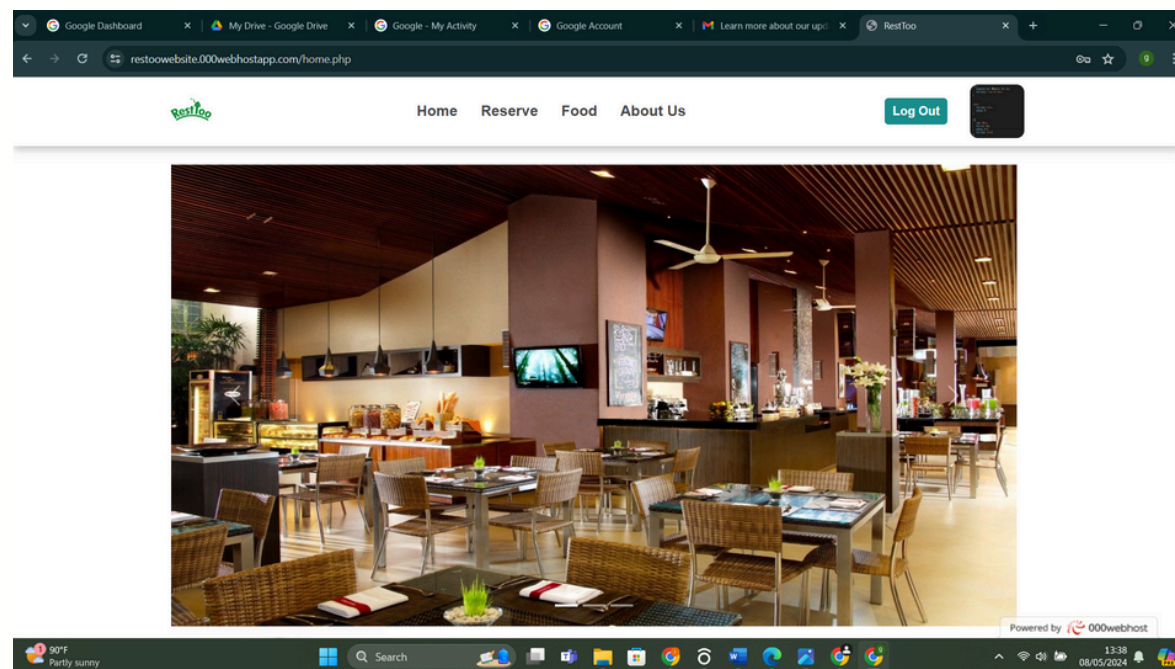
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This is Restoo Project that i've been made by our team



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Project 2 (HTML, CSS, PHP)

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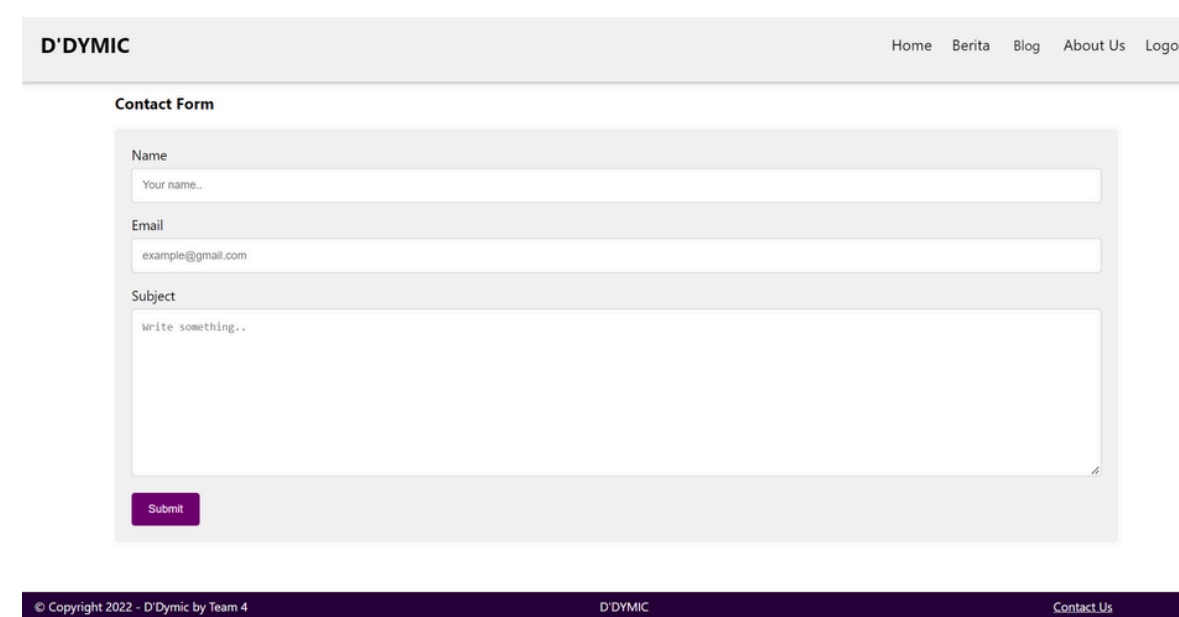
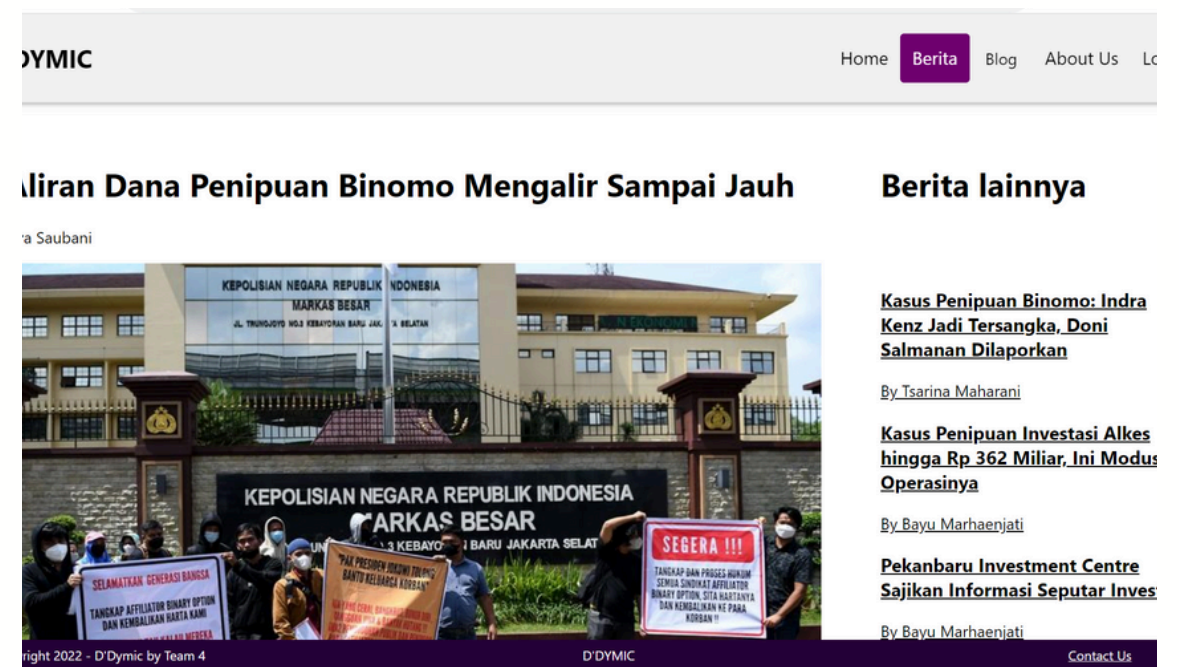
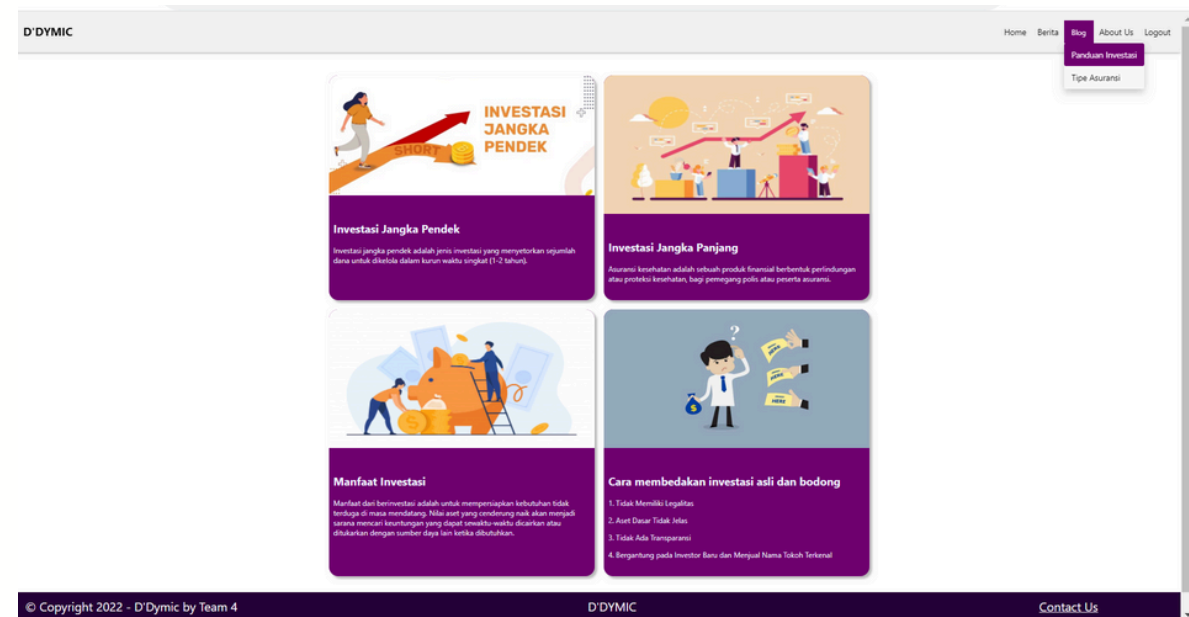
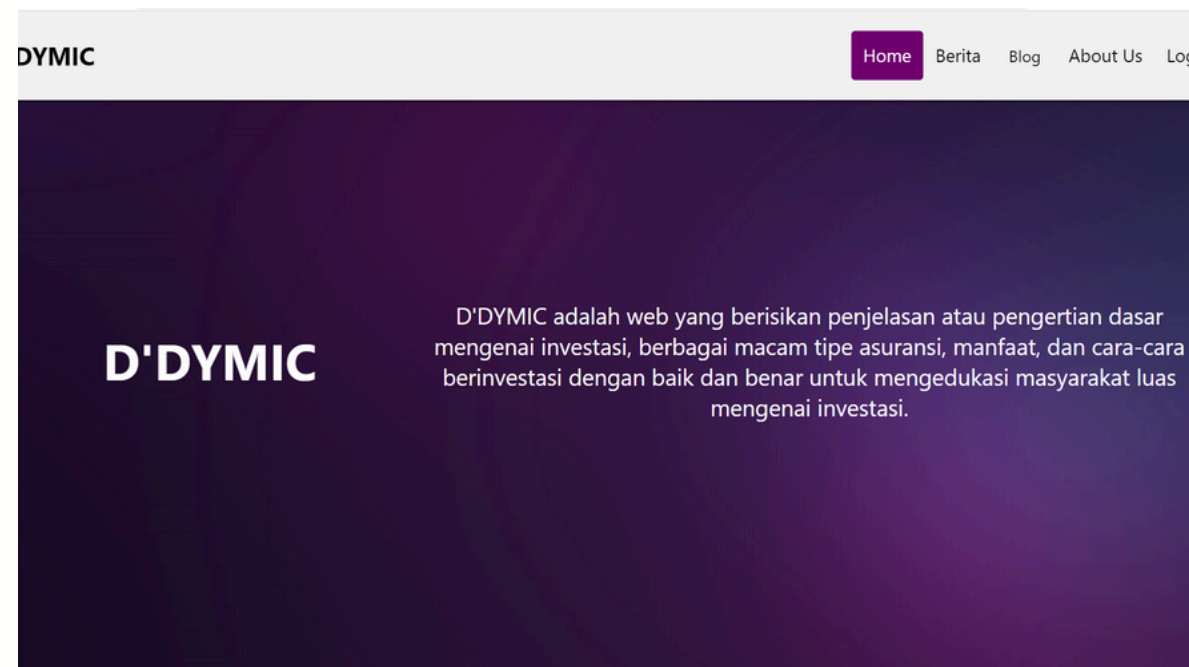
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This D'DYMIC is Project about news update on now and guides



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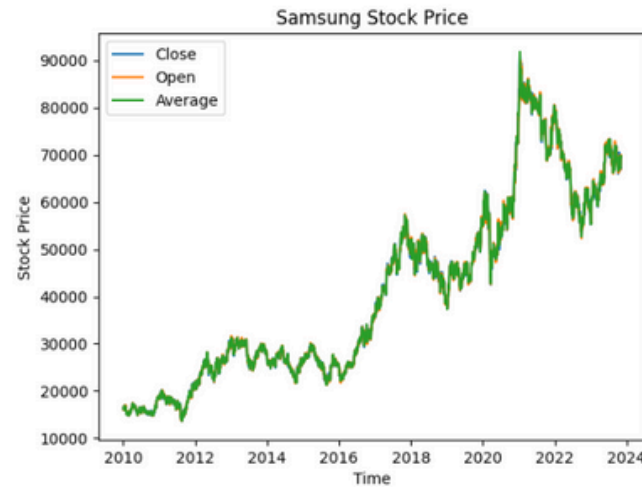
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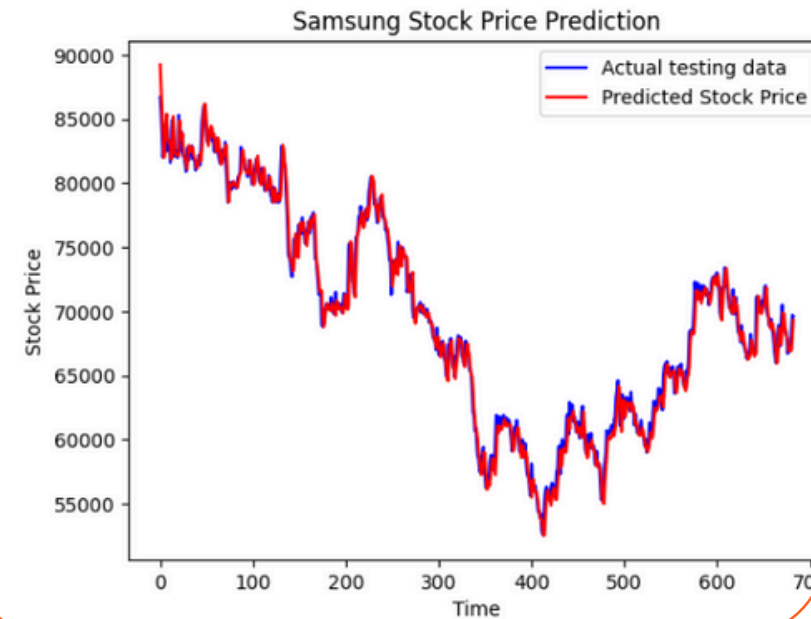
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```
plt.plot(samsung['Close'], label='Close')
plt.plot(samsung['Open'], label='Open')
plt.plot(samsung['Average'], label='Average')
plt.title('Samsung Stock Price')
plt.xlabel('Time')
plt.ylabel('Stock Price')
plt.legend()
plt.show()
```



```
[ ]: plt.plot(samsung['Low'], label='Low')
plt.plot(samsung['High'], label='High')
plt.title('Samsung Stock Price')
plt.xlabel('Time')
plt.ylabel('Stock Price')
plt.legend()
plt.show()
```

```
j: plt.plot(test_data, color='blue', label='Actual testing data')
plt.plot(predicted, color='red', label='Predicted Stock Price')
plt.title('Samsung Stock Price Prediction')
plt.xlabel('Time')
plt.ylabel('Stock Price')
plt.legend()
plt.show()
```



Project 3 Data Analysis

The project demonstrates the effectiveness of LSTM and RNN models in predicting stock prices by capturing temporal dependencies in the data. The model's performance can be further improved with more data, fine-tuning, and experimentation with different architectures and hyperparameters.

This concise summary highlights the key steps and methodologies used in the project, showcasing the application of deep learning techniques in financial time series prediction.

```
#Normalize data + splitting to train and test data
scaler = MinMaxScaler(feature_range=(0, 1))
samsung['Scaled Close'] = scaler.fit_transform(samsung['Close'].values.reshape(-1, 1))
train_size = int(len(samsung) * 0.8)
train_data = samsung['Scaled Close'][:train_size].values.reshape(-1, 1)
test_data = samsung['Scaled Close'][train_size:].values.reshape(-1, 1)
```

```
[ ]: # Define the time steps and create the input and output sequences
time_steps = 10
x_train, y_train = [], []
for i in range(time_steps, len(train_data)):
    x_train.append(train_data[i-time_steps:i, 0])
    y_train.append(train_data[i, 0])
x_train, y_train = np.array(x_train), np.array(y_train)
```

```
[ ]: # Reshape the input sequences to fit the LSTM model
x_train = np.reshape(x_train, (x_train.shape[0], x_train.shape[1], 1))
```

```
# Build the LSTM model
model = Sequential()
model.add(LSTM(units=50, return_sequences=True, input_shape=(x_train.shape[1], 1)))
model.add(LSTM(units=50))
model.add(Dense(units=1))
```

```
# Compile the model
model.compile(optimizer='adam', loss='mean_squared_error')
```

```
[ ]: # Train the model
model.fit(x_train, y_train, epochs=50, batch_size=32)
```

```
Epoch 1/50
85/85 [=====] - 6s 18ms/step - loss: 0.0082
Epoch 2/50
85/85 [=====] - 1s 15ms/step - loss: 3.3666e-04
Epoch 3/50
85/85 [=====] - 1s 11ms/step - loss: 3.1095e-04
Epoch 4/50
85/85 [=====] - 1s 11ms/step - loss: 3.0388e-04
Epoch 5/50
85/85 [=====] - 1s 11ms/step - loss: 3.1654e-04
Epoch 6/50
```

```
_train, y_train, epochs=50, batch_size=32, validation_data=
(x_train, y_train, epochs=50, batch_size=32, validation_data=
```

```
story_sgd.history['loss'])
n_history_sgd.history['val_loss'])
history_sgd.history['loss'])
stm_history_sgd.history['val_loss'])
```

```
oss:', rnn_avg_loss)
Loss:', rnn_avg_val_loss)
Loss:', lstm_avg_loss)
n Loss:', lstm_avg_val_loss)
```

```
00013864302163710818
0.000297646154940594
.000327493961667642
0.0006560418987646699
```

```
(x_train, y_train, epochs=50, batch_size=32, validation_data=
x_train, y_train, epochs=50, batch_size=32, validation_data=
```

```
story_adam.history['loss'])
n_history_adam.history['val_loss'])
istory_sgd.history['loss'])
n_history_sgd.history['val_loss'])
```



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Project 4 Data Visual

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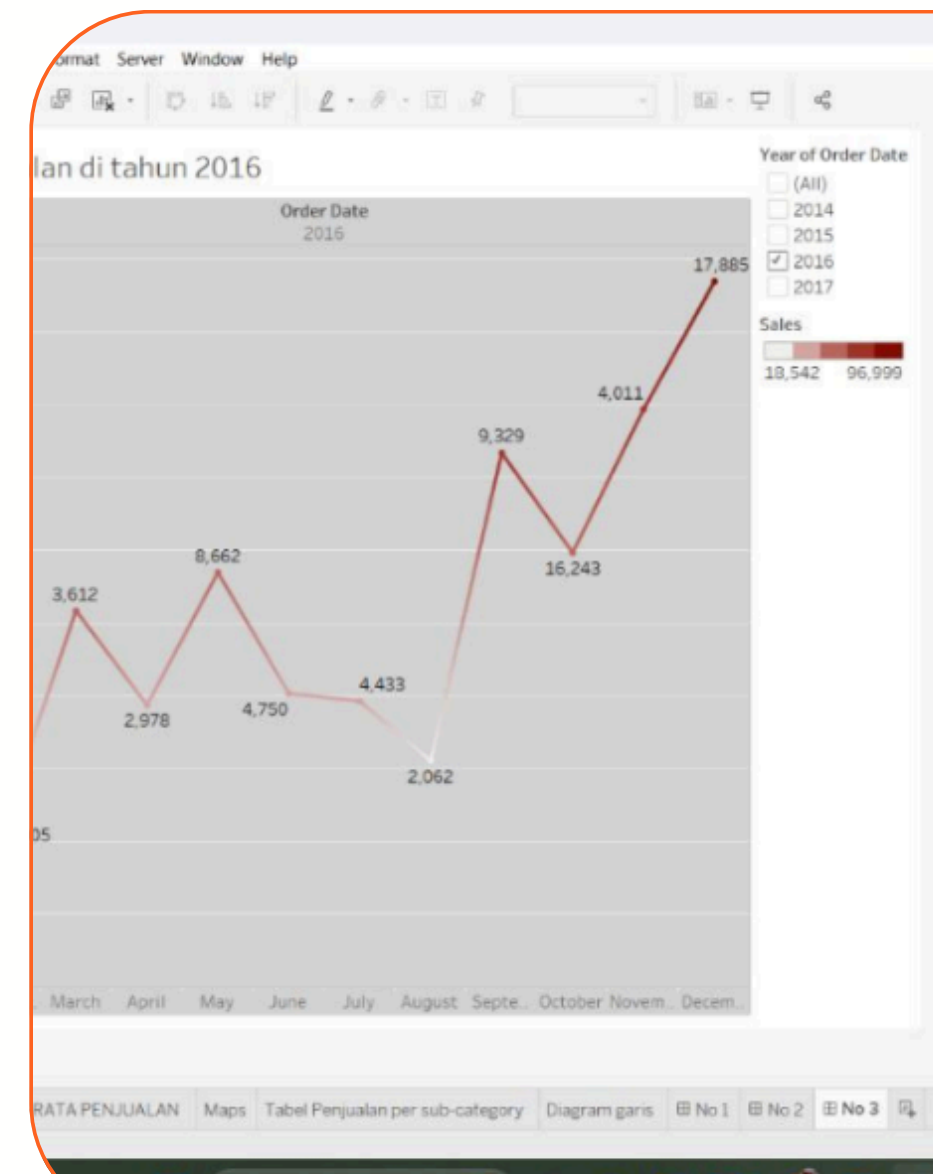
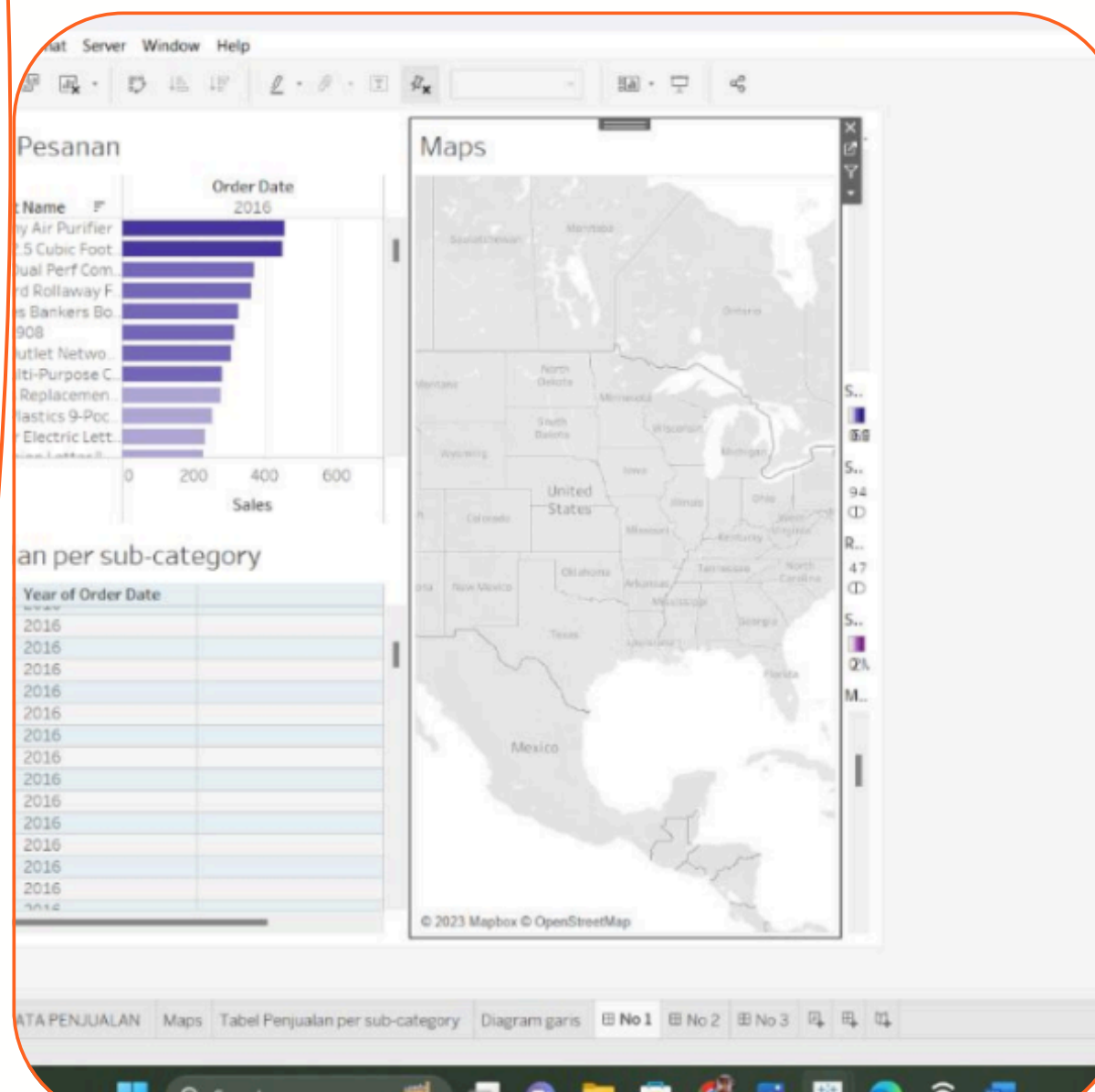
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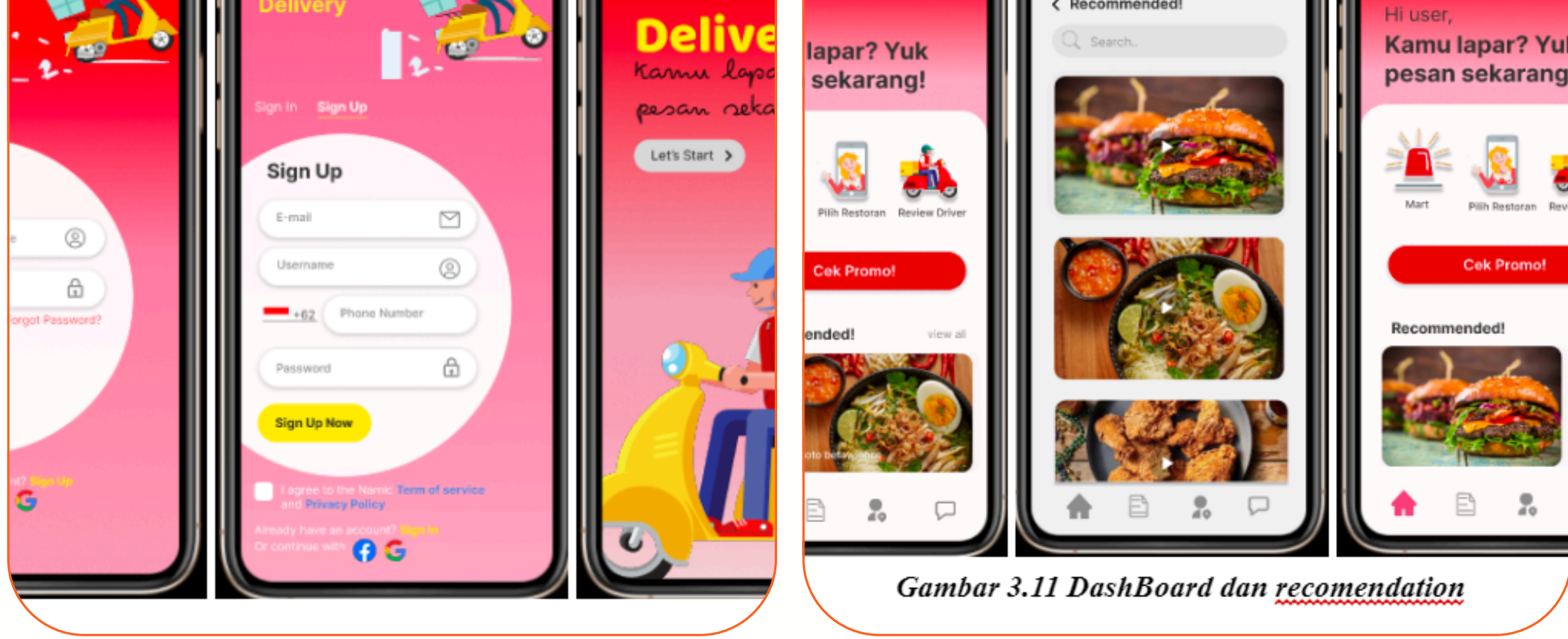
This visualization presents sales data for the year 2016. There are three visualizations, namely:
Total Order Quantity: This visualization shows sales per product by category. The product with the highest sales is White Dual Perf Com. Sales Table by Sub-category: This visualization displays detailed sales per sub-category for each region (CA, US). Maps: This visualization displays a map of the United States with colors indicating sales levels in each region. Overall, these visualizations depict sales trends in 2016 by category, sub-category, and region.

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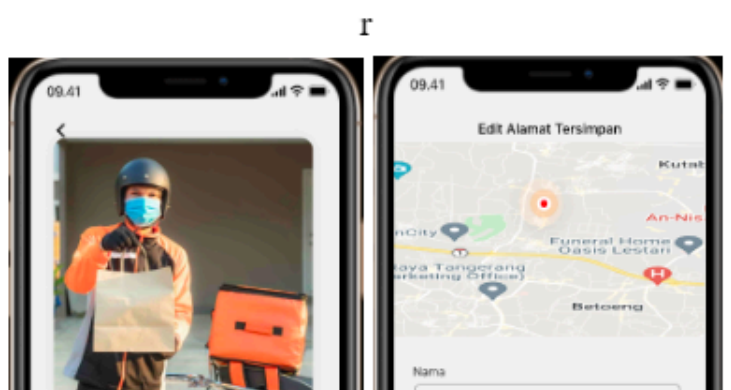
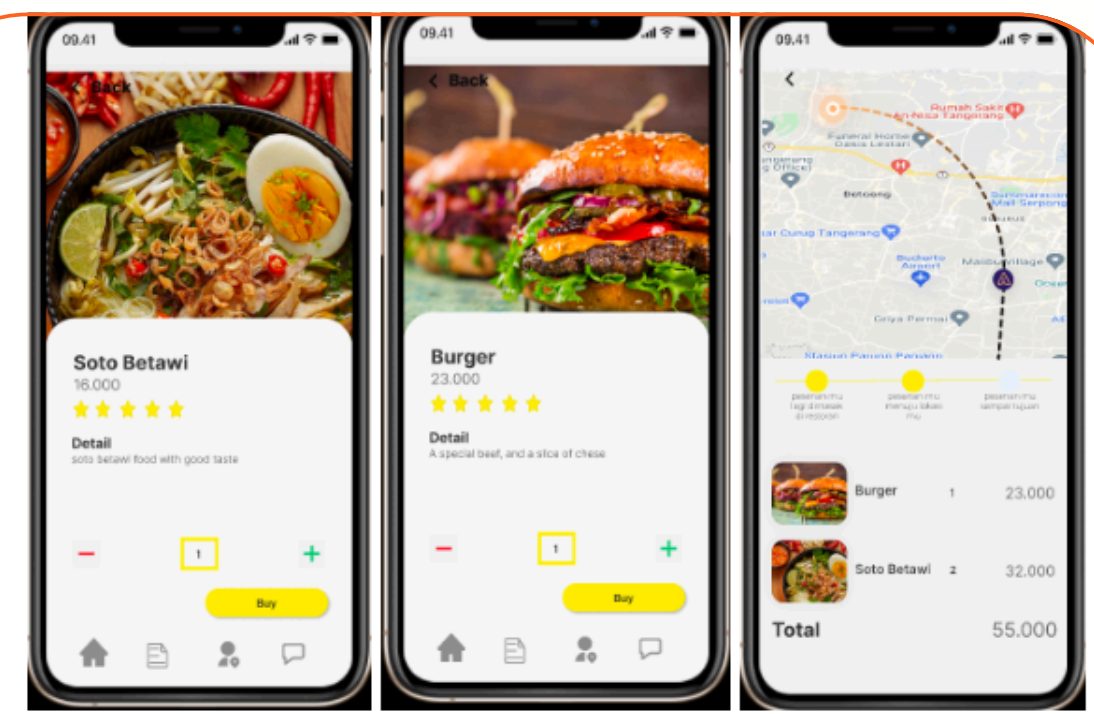
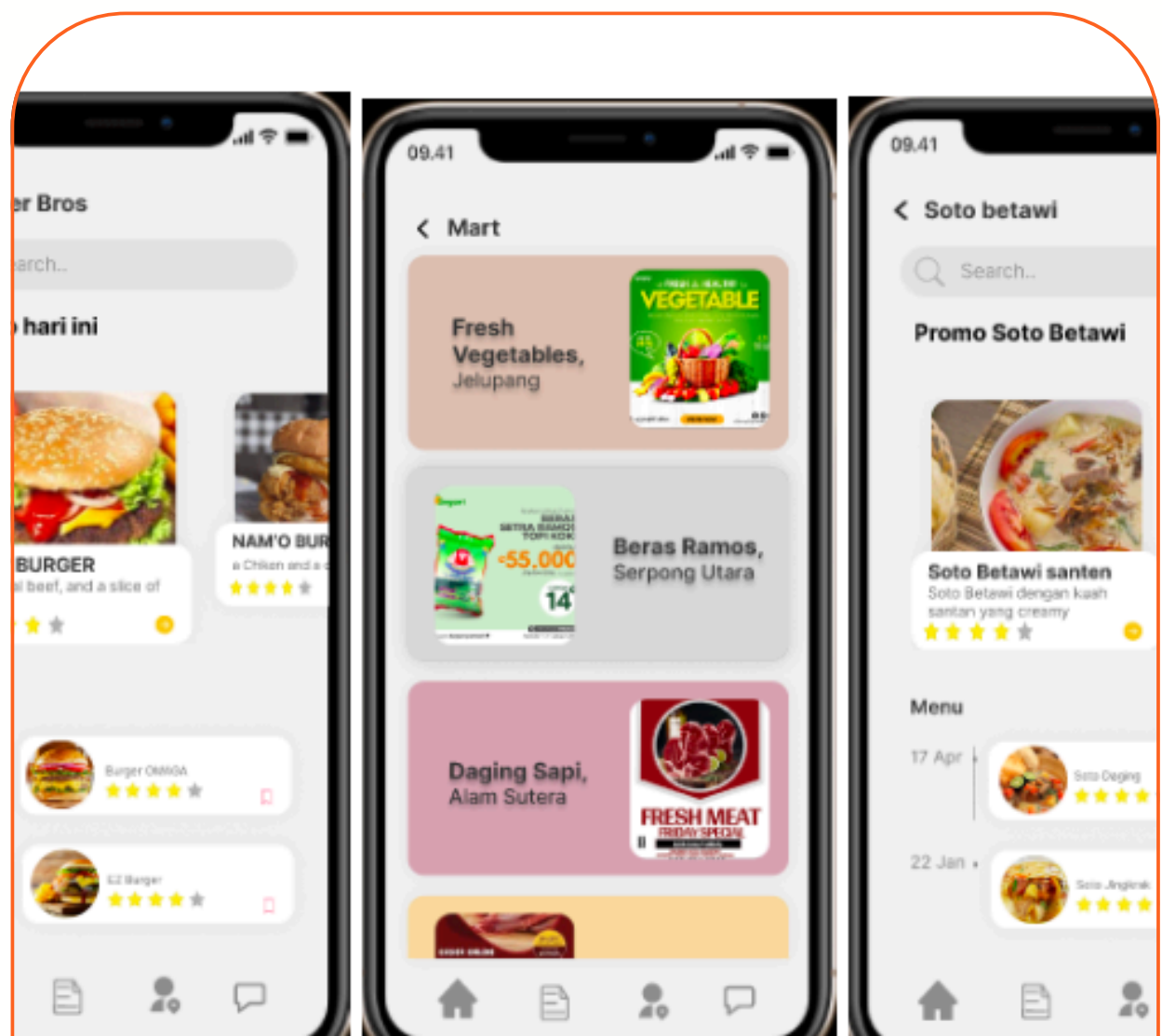
Project 5 Moke Up E- Bussiness(Delivery App and Kannon)

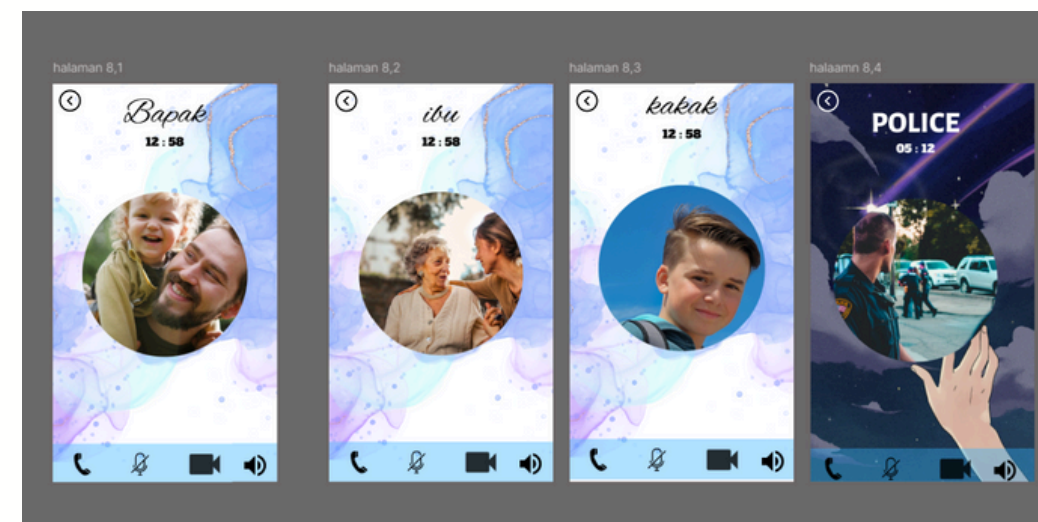
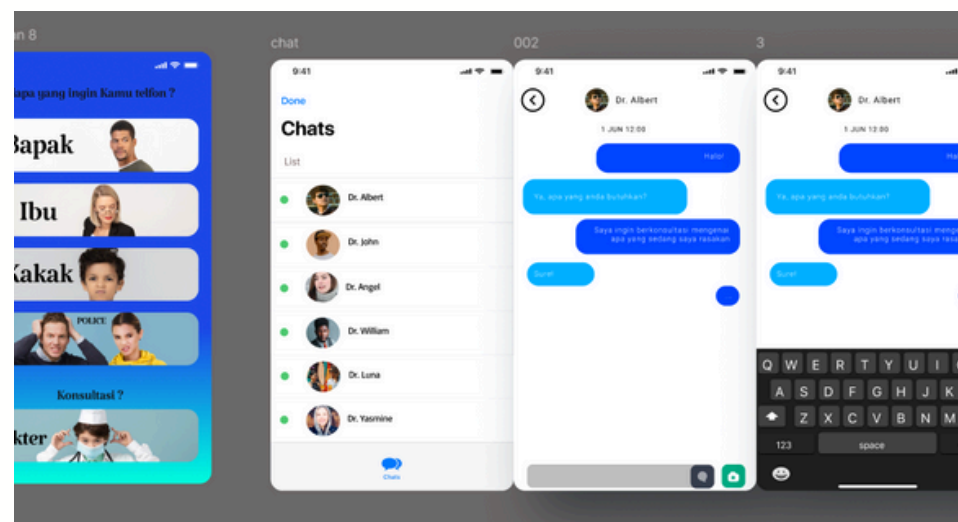
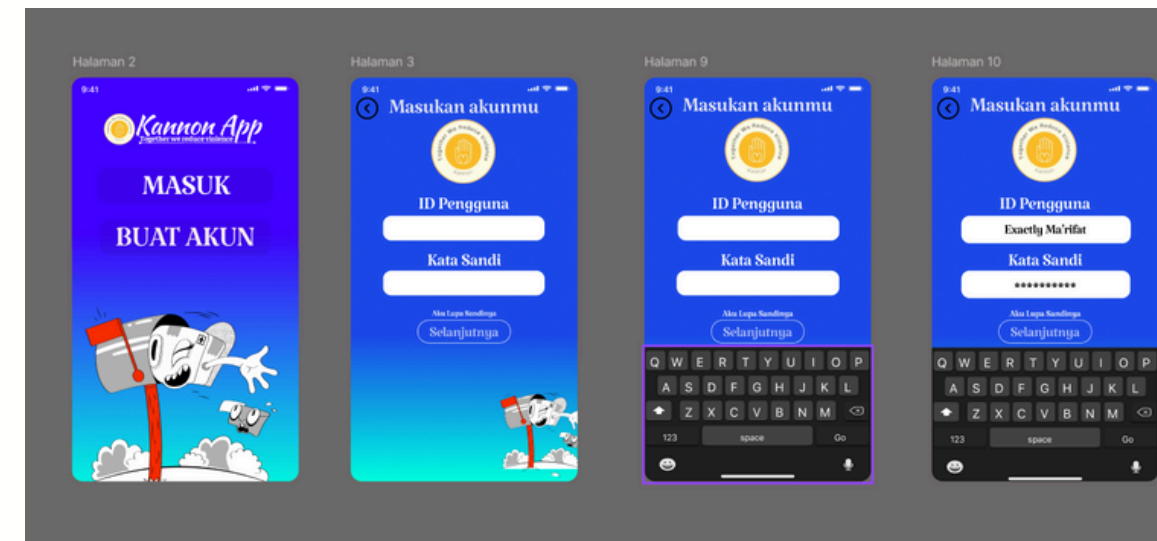
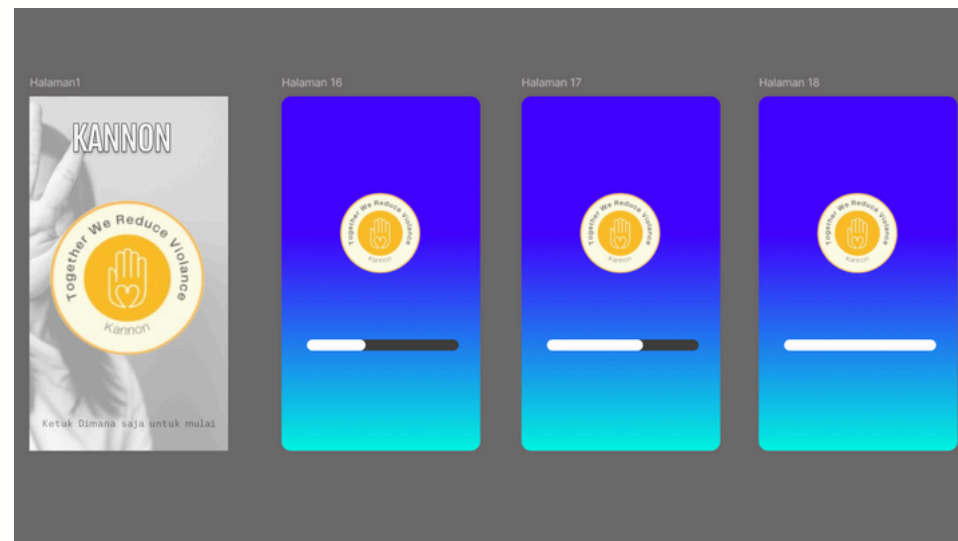
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Gambar 3.11 DashBoard dan recomendation

E-BUSINESS





Project Human computer interaction

pembuatan interface aplikasi
pencegahan kekerasan seksual dengan
nama kannon

Project 6 ERP Configuration

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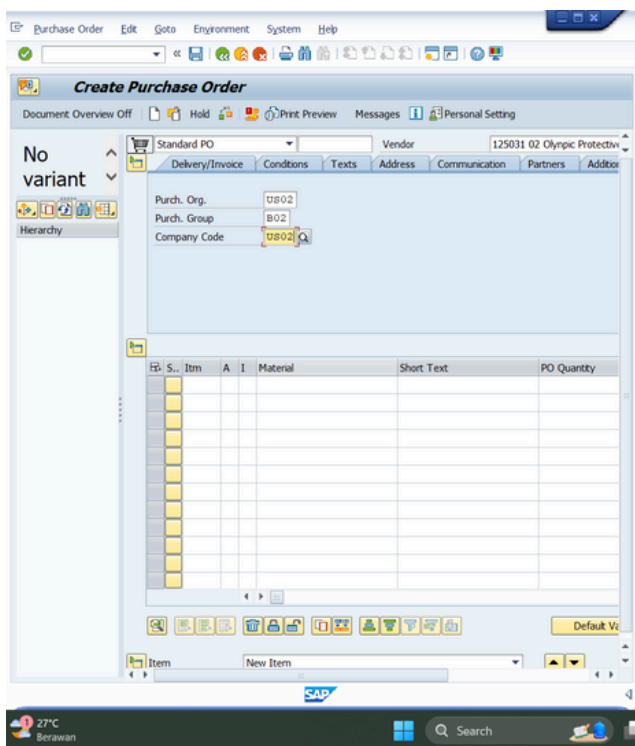
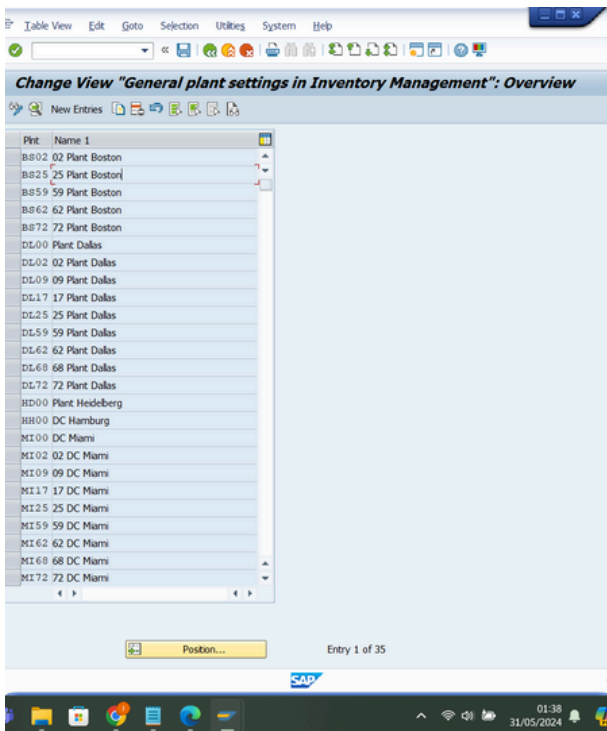
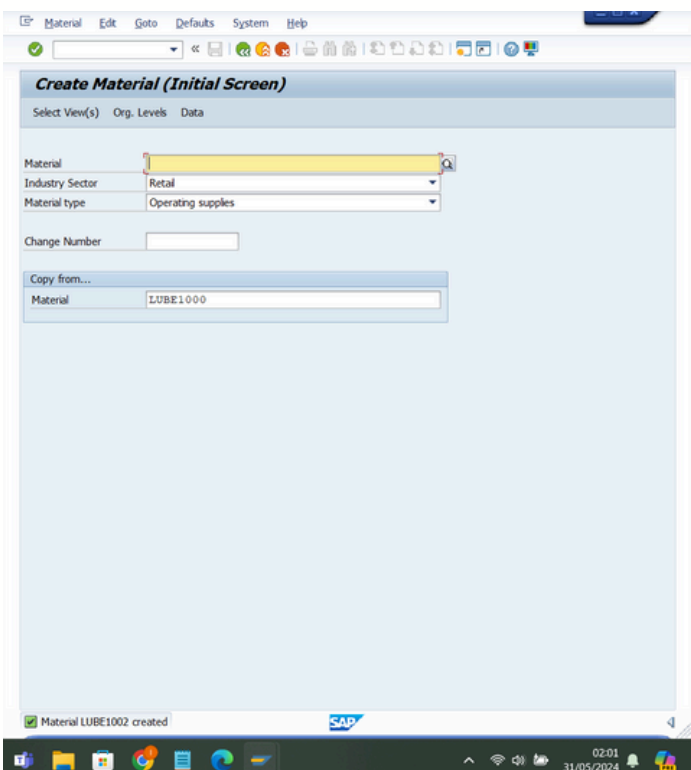
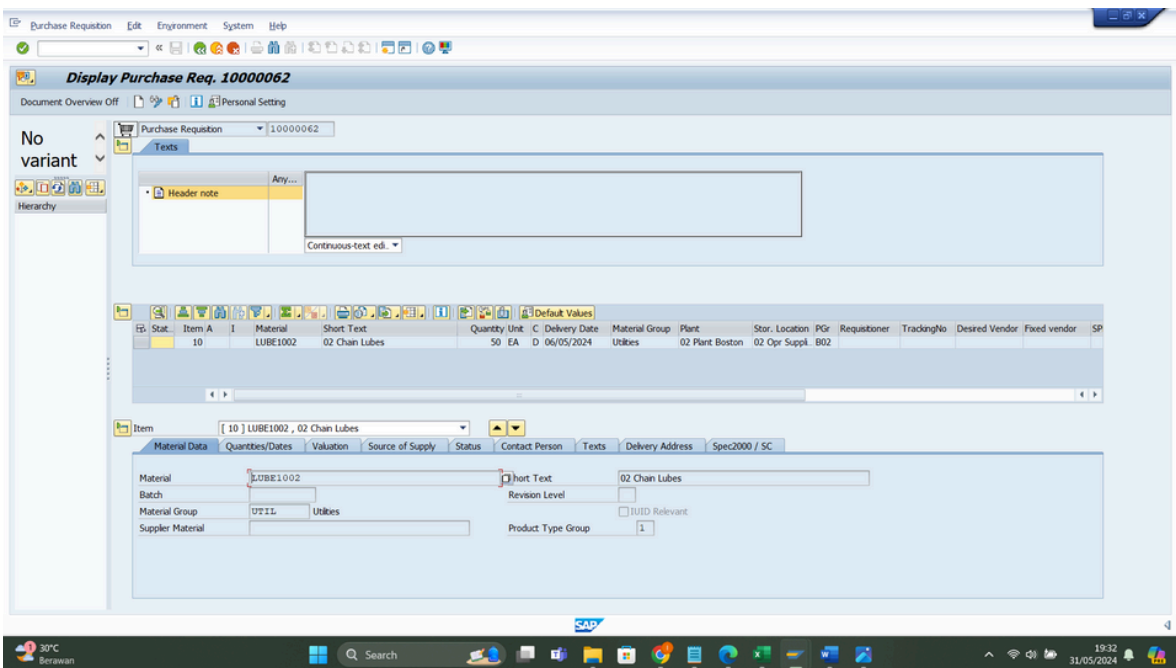
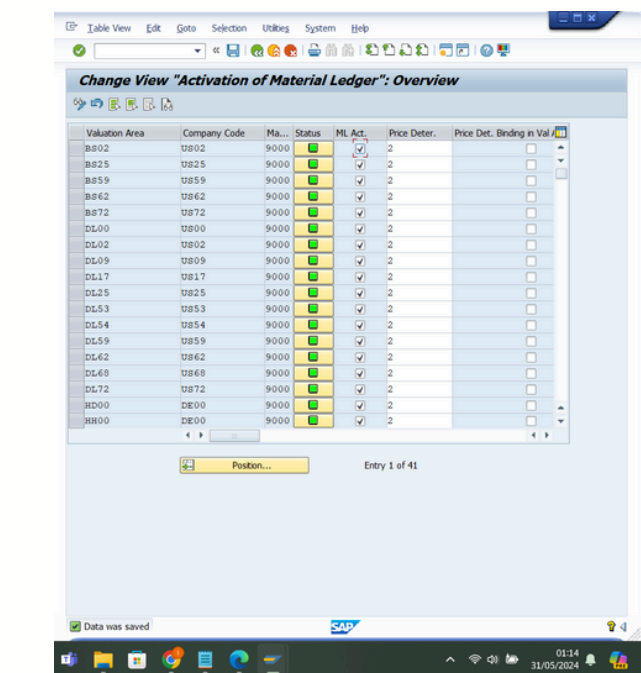
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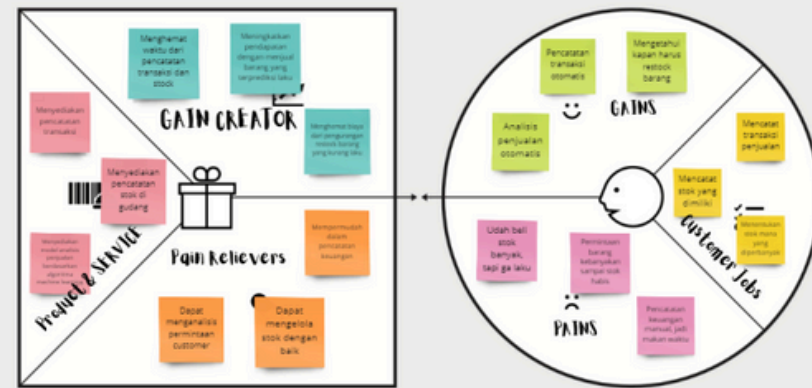
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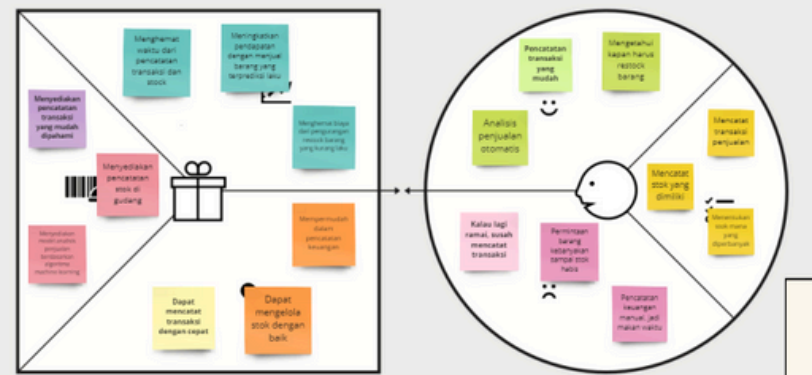
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Hipotesis Value Proposition Canvas



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Final Value Proposition Canvas



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Customer Segmentation

Demographic	Geographic
- Pelaku UMKM (Kecil & Menengah) - Pengguna online shop - Memiliki turnover tinggi	- Seluruh wilayah Indonesia - Perkotaan atau daerah yang memiliki banyak UMKM
Behaviour	Psychography
- Aktif menggunakan teknologi - Mampu memahami teknologi baru	- Mengutamakan efisiensi dalam pencatatan transaksi dan stok - Mengutamakan keamanan data

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Product/Service

Pencatatan Transaksi harian yang mudah dipahami, Pencatatan stok, Analisis harga dan laba rugi dan penggunaan teknologi berdasarkan machine learning atau sub-Artificial Intelligence.

Pain Relievers

Aplikasi yang dapat mempercepat proses pencatatan dengan menggunakan software yang memudahkan pencatatan dan analisis data dan juga mengurangi kesalahan manusia dalam pencatatan, hal ini akan mengurangi kerugian karena kesalahan pencatatan.

Gain Creator

Pengelolaan Stok dan Transaksi yang maksimal dengan memantau stok barang secara terus menerus, UMKM dapat menghindari kekurangan atau kelebihan stok yang berdampak buruk pada arus kas, dengan ini UMKM juga dapat memprediksi permintaan pelanggan, dengan pencatatan transaksi yang akurat dan terstruktur.



Value Map
Deskripsi

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Customer Jobs

Functional Job
Customer Job untuk aplikasi Stockify termasuk kedalam kategori Functional Jobs karena memiliki tugas untuk menyelesaikan permasalahan terhadap pencatatan transaksi dan stok.

Customer Pains

Risiko, Hambatan, dan Hasil Negatif
Pain yang dialami oleh customer adalah pembelian stok berlebih namun barang tidak laku, kesulitan dalam mencatat transaksi ketika sedang ramai, dan permintaan barang yang berlebih sehingga stok tidak mencukupi.

Customer Gains

Required Gain
Dapat melakukan pencatatan transaksi dan stok barang.

Expected Gain
Pencatatan transaksi dan stok dapat dengan mudah digunakan oleh pelaku UMKM.

Desired Gain
Memberitahu kapan harus restock berdasarkan tren transaksi suatu produk.

Unexpected Gain
Menyediakan analisis penjualan secara otomatis.



Customer Profile
Deskripsi

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Project 7 Technopreneurship

Stockify is an application designed to record transactions and provide predictive tools for sales and stock inventory. It aims to assist SMEs (Small and Medium Enterprises) in effectively managing transaction records and inventory with an easy-to-understand interface.

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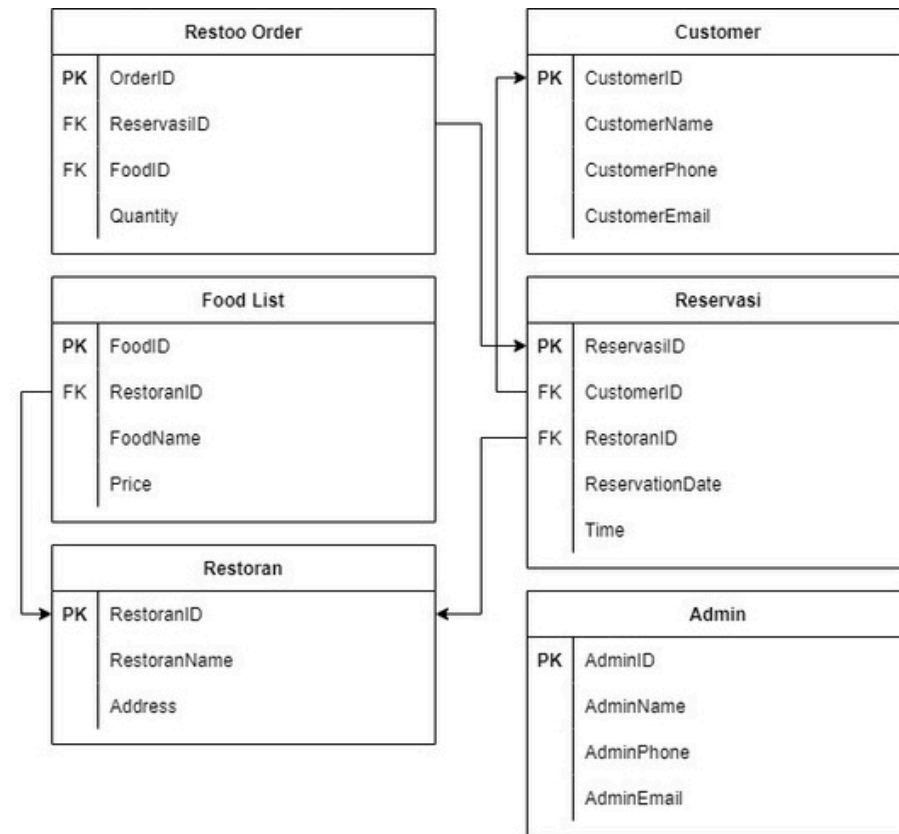
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phpMyAdmin interface showing a table structure and a query result.

Table structure: `SELECT * FROM 'detailed_reservations_with_order_count'`

Query result:

ReservasiID	booking_date	start	end	phone	RestoName	Location	RestoPrice	CustName	CustEmail	total_orders
29	2023-08-02	2	2	089637787946	Restorant Mahalini	Jakarta Utara	500000	ningbusu25	ixaben0@gmail.com	2
30	2023-08-09	3	1	5553421	Restorant Mahalini	Jakarta Utara	500000	ningbusu25	ixaben0@gmail.com	2
31	2023-08-03	2	2	123009	Resto Westburn	Jakarta Timur	200000	ningbusu25	ixaben0@gmail.com	4
32	2023-08-18	1	2	089637787946	Restorant Mahalini	Jakarta Utara	500000	ningbusu25	ixaben0@gmail.com	0
33	2024-10-16	3	2	089637787946	Restorant Mahalini	Jakarta Utara	500000	anya	arys123@gmail.com	2
34	0002-02-12	1	2	22	Restorant Mahalini	Jakarta Utara	500000	anya	arys123@gmail.com	0
35	2003-10-16	1	1	089637787946	Restorant Mahalini	Jakarta Utara	500000	anya	arys123@gmail.com	0

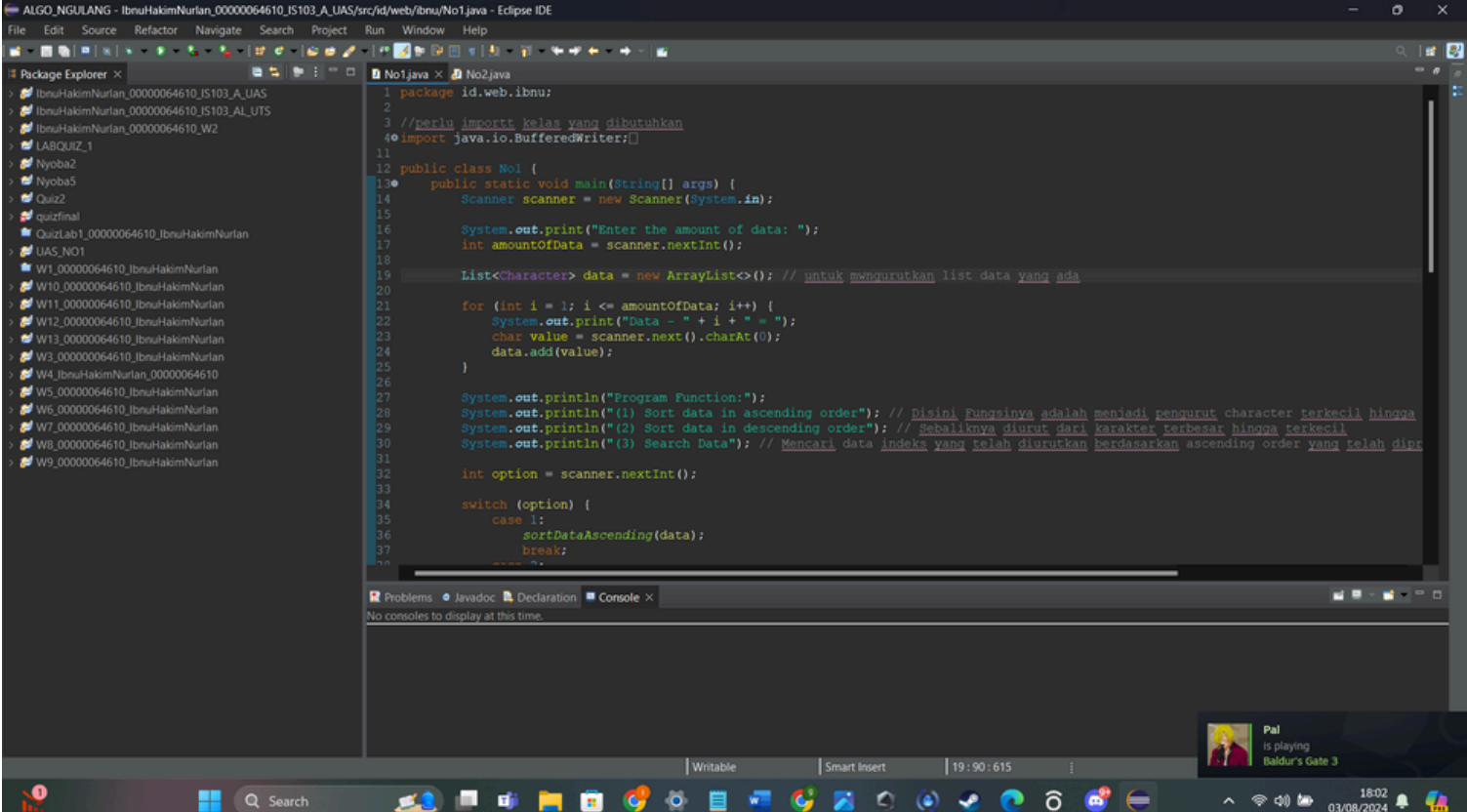
Project 8 Data Base

I use a database using MySQL and also PHP My Admin in creating a website that I created previously, then I also learned a lot about CRUD, View and also applied queries in database programming languages. I created this database when I was building the restaurant website on the website project that I explained earlier.

Database structure and table details:

- resttoo restoran**
 - id: int(11)
 - restoran: varchar(50)
 - lokasi: varchar(50)
 - tarif: int(11)
 - foto: varchar(50)
- resttoo customer**
 - id: int(11)
 - name: varchar(125)
 - email: varchar(125)
 - password: varchar(125)
 - image: varchar(125)
- resttoo orderfood**
 - id: int(11)
 - namapemesan: varchar(100)
 - email: varchar(100)
 - phone: varchar(20)
 - keterangan: varchar(100)
 - pesanan: varchar(100)
 - id_user: int(11)
- resttoo admin**
 - id: int(11)
 - username: varchar(100)
 - password: varchar(100)
 - email: varchar(100)
- resttoo foodlist**
 - id: int(11)
 - foodname: varchar(50)
 - lokasi: varchar(200)
 - tarif: bigint(20)
 - foto: varchar(100)
- resttoo pesanan**
 - id: int(11)
 - name: varchar(50)
 - email: varchar(50)
 - booking_date: varchar(50)
 - start: varchar(50)
 - end: varchar(50)
 - phone: varchar(50)
 - id_venue: varchar(50)
 - id_user: int(11)

Project 9 Java Project



```
1 package id.web.ibnu;
2
3 //perlu importt kelas yang dibutuhkan
4 import java.io.BufferedWriter;
5
6
7
8
9
10
11
12 public class Nol {
13     public static void main(String[] args) {
14         Scanner scanner = new Scanner(System.in);
15
16         System.out.print("Enter the amount of data: ");
17         int amountOfData = scanner.nextInt();
18
19         List<Character> data = new ArrayList<>(); // untuk menyimpan list data yang ada
20
21         for (int i = 1; i <= amountOfData; i++) {
22             System.out.print("Data - " + i + " = ");
23             char value = scanner.next().charAt(0);
24             data.add(value);
25         }
26
27         System.out.println("Program Function:");
28         System.out.println("(1) Sort data in ascending order"); // disini fungsinya adalah menjadi pengurut character terkecil hingga
29         System.out.println("(2) Sort data in descending order"); // Sebaliknya diurut dari karakter terbesar hingga terkecil
30         System.out.println("(3) Search Data"); // Mencari data indeks yang telah diurutkan berdasarkan ascending order yang telah diur
31
32         int option = scanner.nextInt();
33
34         switch (option) {
35             case 1:
36                 sortDataAscending(data);
37                 break;
38             case 2:
39                 sortDataDescending(data);
40                 break;
41             case 3:
42                 searchData(data);
43                 break;
44             default:
45                 System.out.println("Invalid option");
46                 break;
47         }
48     }
49
50     // Fungsi untuk mengurutkan data secara ascending
51     public static void sortDataAscending(List<Character> data) {
52         Collections.sort(data);
53     }
54
55     // Fungsi untuk mengurutkan data secara descending
56     public static void sortDataDescending(List<Character> data) {
57         Collections.sort(data, Collections.reverseOrder());
58     }
59
60     // Fungsi untuk mencari data berdasarkan indeks
61     public static void searchData(List<Character> data) {
62         Scanner scanner = new Scanner(System.in);
63         System.out.print("Enter the index to search: ");
64         int index = scanner.nextInt();
65
66         if (index < 0 || index > data.size() - 1) {
67             System.out.println("Invalid index");
68         } else {
69             System.out.println("Character at index " + index + " is: " + data.get(index));
70         }
71     }
72 }
```

1.Creating a program that can sort and search for characters entered by the user and can display the results in a TXT file.

Enter the amount of data: 5 Data - 1 = B
Data - 2 = A Data- 3 = D Data - 4 = C Data - 5 = E

2. Create a queue program for parking, the program menu is as follows:

- 1.Enqueue
- 2.Dequeue
- 3.View
- 4.Exit

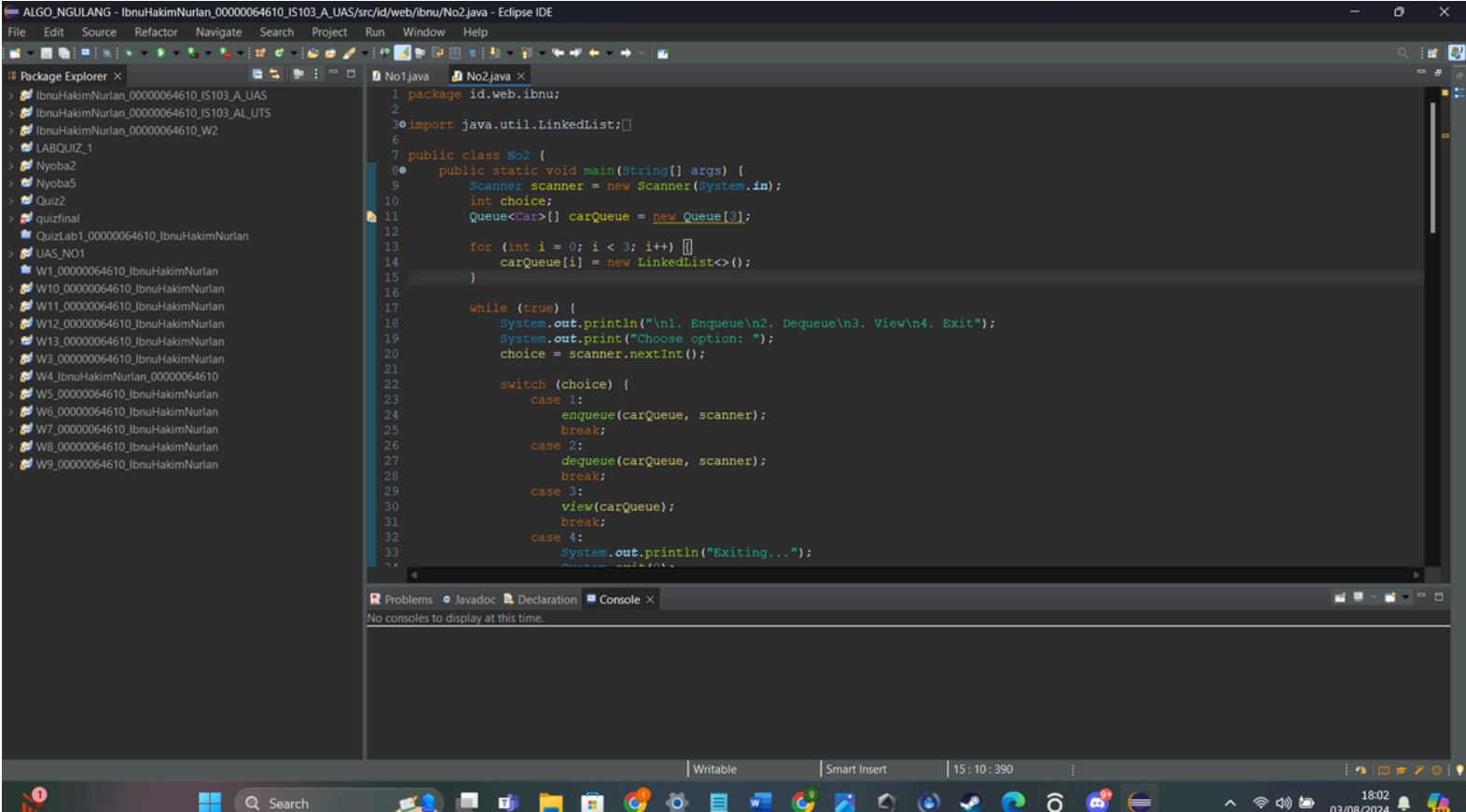
If number 1 or Enqueue is selected, you will be asked to input data as follows:

Enter the car plate:

Enter customer name:

Enter the parking location ID (A/B/C):

If number 2 or Dequeue is selected, it will remove the car from the parking lot. If number 3 or view is selected, it will display queue car data at each location. If number 4 or exit is selected, the program will stop.



```
1 package id.web.ibnu;
2
3 import java.util.LinkedList;
4
5
6
7
8
9
10
11 public class No2 {
12     public static void main(String[] args) {
13         Scanner scanner = new Scanner(System.in);
14         int choice;
15         Queue<Car> carQueue = new Queue<>(3);
16
17         for (int i = 0; i < 3; i++) {
18             carQueue[i] = new LinkedList<>();
19         }
20
21         while (true) {
22             System.out.println("\n1. Enqueue\n2. Dequeue\n3. View\n4. Exit");
23             System.out.print("Choose option: ");
24             choice = scanner.nextInt();
25
26             switch (choice) {
27                 case 1:
28                     enqueue(carQueue, scanner);
29                     break;
30                 case 2:
31                     dequeue(carQueue, scanner);
32                     break;
33                 case 3:
34                     view(carQueue);
35                     break;
36                 case 4:
37                     System.out.println("Exiting...");
38                     return;
39             }
40         }
41     }
42
43     // Fungsi untuk enqueue
44     public static void enqueue(Queue<Car> carQueue, Scanner scanner) {
45         System.out.print("Enter car plate: ");
46         String carPlate = scanner.next();
47
48         System.out.print("Enter customer name: ");
49         String customerName = scanner.next();
50
51         System.out.print("Enter parking location ID (A/B/C): ");
52         String locationID = scanner.next();
53
54         Car car = new Car(carPlate, customerName, locationID);
55         carQueue.add(car);
56     }
57
58     // Fungsi untuk dequeue
59     public static void dequeue(Queue<Car> carQueue, Scanner scanner) {
60         System.out.print("Enter parking location ID (A/B/C): ");
61         String locationID = scanner.next();
62
63         Car car = carQueue.poll();
64         if (car != null) {
65             System.out.println("Car removed: " + car);
66         }
67     }
68
69     // Fungsi untuk view
70     public static void view(Queue<Car> carQueue) {
71         System.out.println("Queue car data:");
72         for (Car car : carQueue) {
73             System.out.println(car);
74         }
75     }
76 }
```

1

2

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Thank you

Contact Details

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