SDS-01

SOFTWARE DESIGN DESCRIPTION

ANDROID MOBILE BASED SHOES AND CARE SYSTEM

for:

Shoes and Care Business

Prepared by:

Yusron Hanan Z.V.I	1301184476	Project Leader
Salsabilla Rinaldi	1301184463	Analyst
Muhammad Farhan A.	1301180466	Analyst
Raden Aria Gusti Aji	1301180503	Designer
Putra Dharma Bangsa	1301180523	Designer

Bachelor of Informatics – Faculty of Informatics (School of Computing)

Telkom University

Jalan Telekomunikasi Terusan Buah Batu, Bandung

Indonesia

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Silversity		Revision		Date:

Change List

Revision	Description
A	Sequence diagram (the should be same with use case scenario)
В	References should refer to SKPL
С	Component diagram, see the video of component diagram
D	Document coverage, write based our topic
E	
F	
G	

INDEX Date	-	A	В	С	D	Е	F	G
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Pages Changes List

Page	Revision	Page	Revision
8	Fix the document coverage based on our topic		
11-31	Sequence diagram change match with use case scenario		
8	Make reference from our SKPL		
10	Fix the component diagram based on the video		

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1. 1. Preliminary

1.1 Purpose of Writing Document

This document Software Design Description (SDD) is a document that aims to describe in detail the software to be built. This document is used by software developers as a reference for developing software at a later stage.

Users of this document are used by developers of software and stakeholders involved in this system. With the drafting of this SDD document, it is expected that the development of software will be more conceptual and not cause ambiguity during development.

1.2 Document Coverage

The software "ANDROID MOBILE BASED SHOES AND CARE SYSTEM" which will be developed in this paper discusses the process Shoes and Care treatment that can be manage through the apps. By the apps which will be developed, it will be able to solve problems and as a tools to help in handling Shoes and Care business.

1.3 Definitions and Abbreviations

ABBREVIATIONS	DEFINITIONS
SDD	(Software Design Description) Documents
	that describe and describe in detail the
	design of software to be built.
SRS	(Software Requirement Specification) is a
	specification of the software that will be
	developed.
DBMS	(Database Management System)is an
	organizing system of database processing
	systems on computers.
XML	(Extensible Markup Language) is a markup
	language that defines a set of rules for
	encoding documents in a format that is both
	human-readable and machine-readable.
SQLite	Relational database management system
	(RDBMS) contained in a C library. In
	contrast to many other database
	management systems, SQLite is not a
	client-server database engine.
JavaScript	Scripting language, which is a language that
	does not require a compiler to run it, but it is
	enough with an interpreter
Java	General-purpose programming language that
	is class-based, object-oriented, and designed
	to have as few implementation dependencies
	as possible.
Android Studio	The official integrated development
	environment (IDE) for Google's Android

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operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for
Android development.

1.4 References

1. Group-4 IF-42-INT.(2020).SRS Android Mobile Based Shoes and Care System

1.5 Systematic Discussion

This SDD document contains a description of the design of the Android Mobile Based Shoes and Care software that will be developed based on the SRS document. This SDD document will explain the details of software design so that it can be implemented. This document generally consists of four chapters with the following details:

A. Preliminary

Preliminary contains an explanation of the SDD document which includes the purpose of making this document, the scope of the problem solved by the software developed, the definitions and terms, references and efforts of the document.

B. Global Design Description

The description of the global design contains the design of the software that will be built including the design of the implementation environment, architectural description, and description of the components.

C. Detailed Design

The detailed design of this document contains the realization of use cases, designing class details, class diagram descriptions, algorithms / queries, statechart diagrams, interface design, and designing class persistence representations.

D. Usability Matrix

The usability matrix contains functional terms found in SRS documents.

2 Global Design Description

2.1 Design of the Implementation Environment

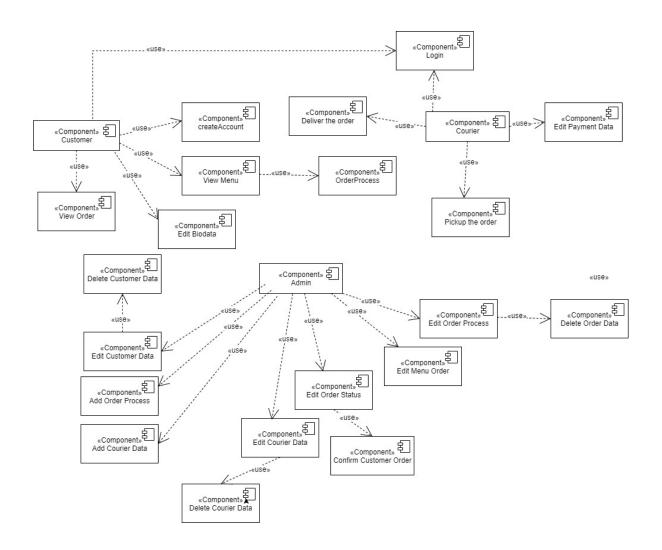
Design of Implementation for Shoes and Care application are:

- 1. Operation System : Android KitKat or above version
- 2. DBMS: SQLite
- 3. Development Tools: Android Studio, Github, NoxPlayer
- 4. Word Processor: MS Word Office 365
- 5. Programming Languages: Java, XML
- 6. Quad Core 1.2GHz CPU
- 7. 500MB storage free

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2.2 Architectural Description

Architectural Description Is a description of the architecture or component that will be applied to the software "Shoes and Care" to facilitate developers in developing or implementing this software.



Picture 1 Architectural Description

2.3 Component Description

Table 1 Component Description Table

No	Nama Komponen	Explanation
1	Shoes and Care	The software that will be developed

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2	Admin	The user of Shoes and Care application	
3	Courier	The user of Shoes and Care application	
4	Customer	The user of Shoes and Care application	
5	Login	The menu for login so the user can access the features	
		in the application based on each role	
6	Create Account	Menu to register for customer	
7	View Menu	Menu to view the Menu Order	
8	View Order	Menu to view the order data	
9	Order Process	Menu to make a new order	
10	Confirm Order	Menu to confirm a new order from customer	
11	Pick up The Order	Menu to manage the pickup time order	
12	Deliver The Order	Menu to manage the deliver time order	
13	Edit Payment Data	Menu to manage the payment and status paid or not of	
		the order	
14	Edit Biodata	Menu to edit customer personal data	
15	Edit Menu Order	Menu to edit the menu order data	
16	Edit order status	Menu to edit order status	
17	Add Order Process	Menu to add new order process	
18	Add Courier Data	Menu to add new courier	
19	Edit Order Process	Menu to edit order data	
20	Edit Courier Data	Menu to edit courier data	
21	Edit Customer Data	Menu to edit Customer data	
22	Delete Order Process	Menu to Delete order data	
23	Delete Courier Data	Menu to Delete courier data	
24	Delete Customer Data	Menu to Delete Customer data	

3 Detailed Design

3.1 Realization Use Case

3.1.1 Use Case Create Account Customer

3.1.1.1 Class Identification

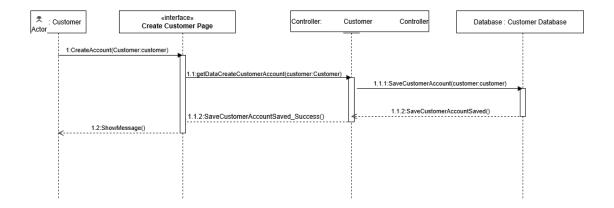
Table 3 Create Account Customer Class Identification Table

No	Design Class Name	Class Type
1.	Customer	Actor
2.	Create Customer Page	Boundary
3.	Customer Controller	Cotroller
4.	Customer	Database

3.1.1.2 Sequence Diagram

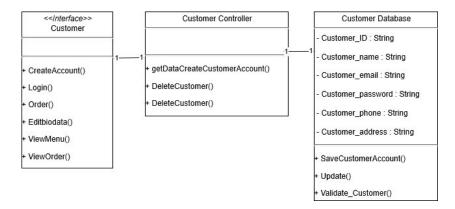
Picture 4 Sequence Diagram Create Account Customer

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3.1.1.3 Class Diagram

Picture 5 Class Diagram Create Account Customer.



3.1.2 Use Case Login

3.1.2.1 Class Identification

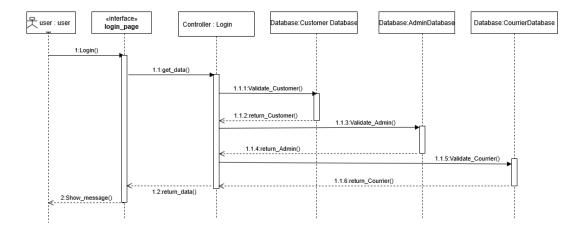
Table 3 Login Class Identification Table

No	Design Class Name	Class Type
1.	Customer, Admin, Courrier	Actor
2.	Login_page	Boundary
3.	Login	Controller
4.	Customer, Admin, Courrier	Database

3.1.2.2 Sequence Diagram

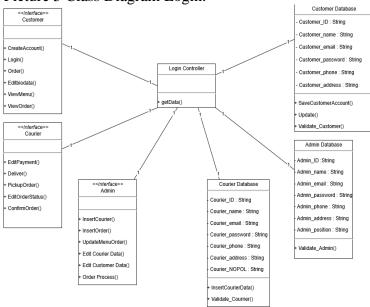
Picture 4 Sequence Diagram Login.

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3.1.2.3 Class Diagram

Picture 5 Class Diagram Login.



3.1.3 Use Case View Menu

3.1.3.1 Class Identification

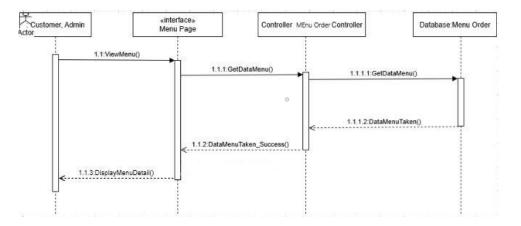
Table 3 View Menu Class Identification Table

No	Design Class Name	Class Type
1.	Customer, Admin	Actor
2.	Menu Page	Boundary
3.	MenuOrder Controller	Controller
4.	Menu Order	Database

3.1.3.2 Sequence Diagram

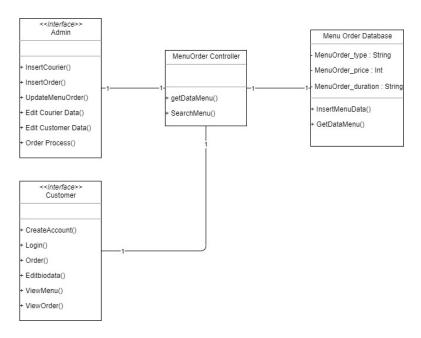
Picture 4 Sequence Diagram View Menu.

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3.1.3.3 Class Diagram

Picture 5 Class Diagram View Menu.



3.1.4 Use Case Order Process

3.1.4.1 Class Identification

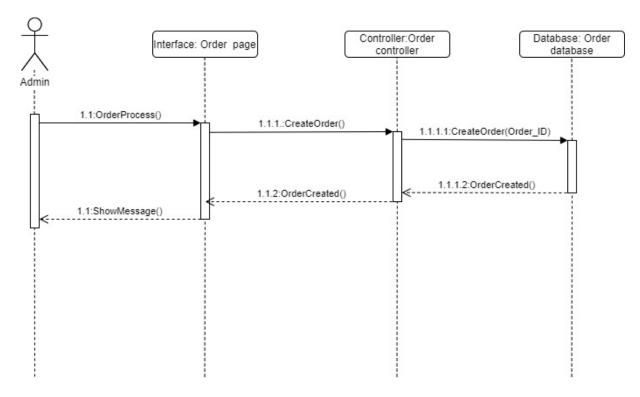
Table 3 Order Process Class Identification Table

No	Design Class Name	Class Type
1.	Customer	Actor
2.	Order Page	Boundary
3.	Order controller	Controller
4.	Order database	Database

3.1.4.2 Sequence Diagram

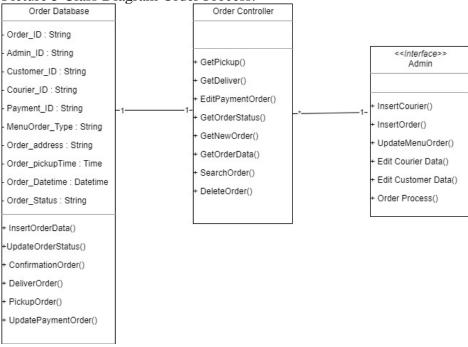
Picture 4 Sequence Diagram Order Process.

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3.1.4.3 Class Diagram

Picture 5 Class Diagram Order Process.



3.1.5 Use Case Edit Biodata

3.1.5.1 Class Identification

Table 3 Edit Biodata Identification Table

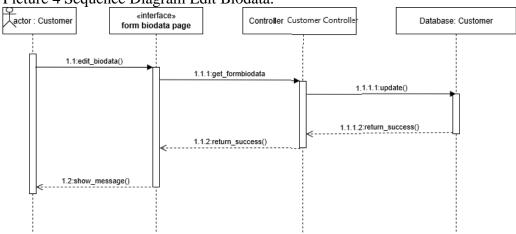
No	Design Class Name	Class Type
110	Design Class Ivalle	Class Type

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1.	Customer	Actor
2.	Form biodata Page	Boundary
3.	Customer Controller	Controller
4.	Customer	Database

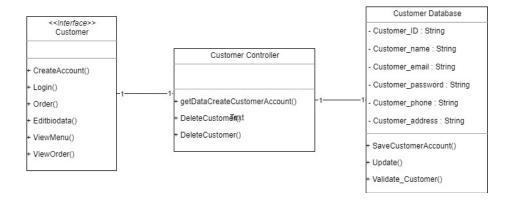
3.1.5.2 Sequence Diagram

Picture 4 Sequence Diagram Edit Biodata.



3.1.5.3 Class Diagram

Picture 5 Class Diagram Edit Biodata.



3.1.6 Use Case View Order

3.1.6.1 Class Identification

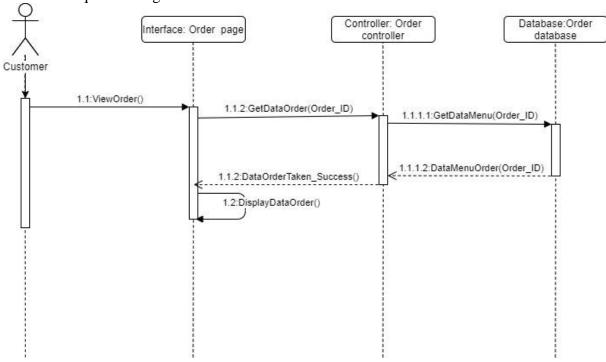
Table 3 View Order Class Identification Table

No	Design Class Name	Class Type
1.	Customer	Actor
2.	Order Page	Boundary
3.	Order Controller	Controller
4.	Order Database	Database

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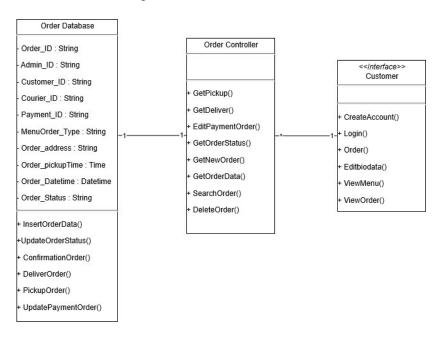
3.1.6.2 Sequence Diagram

Picture 4 Sequence Diagram View Order.



3.1.6.3 Class Diagram

Picture 5 Class Diagram View Order



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3.1.7 Use Case Confirm Order

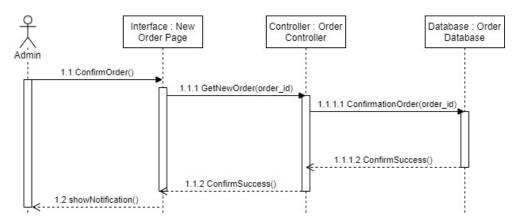
3.1.7.1 Class Identification

Table 3 Confirm Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	New Order Page	Boundary
3.	Order Controller	Controller
4.	Order	Database

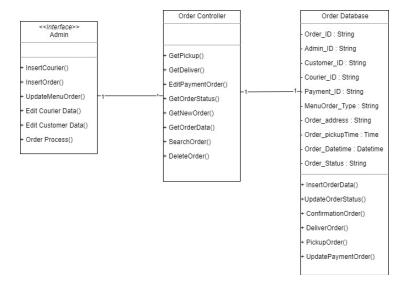
3.1.7.2 Sequence Diagram

Picture 4 Sequence Diagram Confirm Order.



3.1.7.3 Class Diagram

Picture 5 Class Diagram Confirm Order.



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3.1.8 Use Case Add Order

3.1.8.1 Class Identification

Table 3 Add Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	AddOrder Page	Boundary
3.	Order Controller	Controller
4.	Order	Database

3.1.8.2 Sequence Diagram

Picture 4 Sequence Diagram Edit Order Status.

AddOrder()

Interface: AddOrder Page

Controller: Order Controller

Database: Order Database

1.1 InsertOrder()

1.1.1 GetOrderData()

1.1.1.2 ConfirmSuccess()

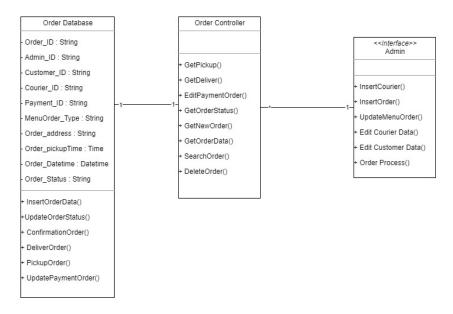
1.2 ShowNotification

1.2 ShowNotification

3.1.8.3 Class Diagram

Picture 5 Class Diagram Edit Payment.

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3.1.9 Use Case Add Courier

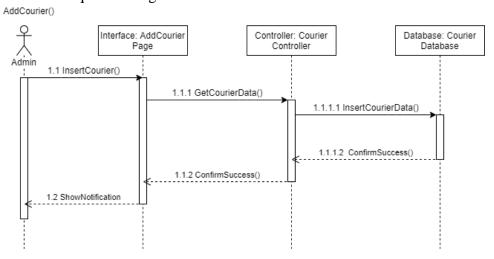
3.1.9.1 Class Identification

Table 3 Add Courier Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	AddCourier Page	Boundary
3.	Courier Controller	Controller
4.	Courier	Database

3.1.9.2 Sequence Diagram

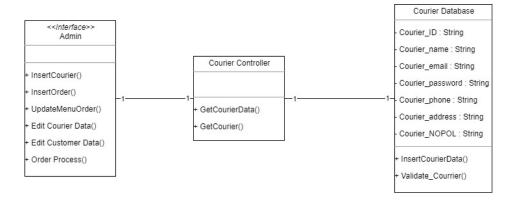
Picture 4 Sequence Diagram Edit Order Status.



3.1.9.3 Class Diagram

Picture 5 Class Diagram Edit Payment.

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3.1.10 Use Case Edit Courier Data

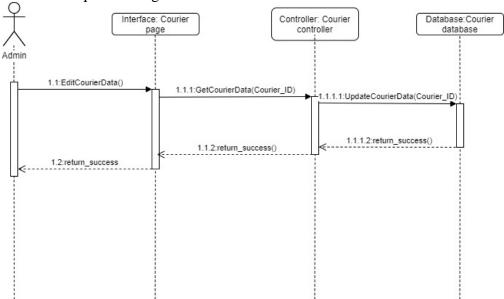
3.1.10.1 Class Identification

Table 3 Edit Courier Data Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	Courier Page	Boundary
3.	Courier Controller	Controller
4.	Courier Database	Database

3.1.10.2 Sequence Diagram

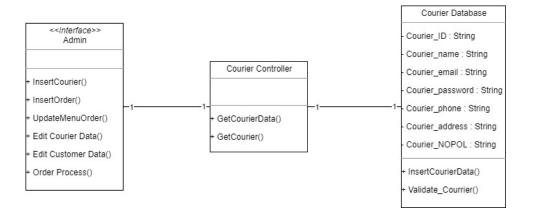
Picture 4 Sequence Diagram Edit Courier Data.



3.1.10.3 Class Diagram

Picture 5 Class Diagram Edit Courier Data.

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3.1.11 Use Case Edit Customer Data

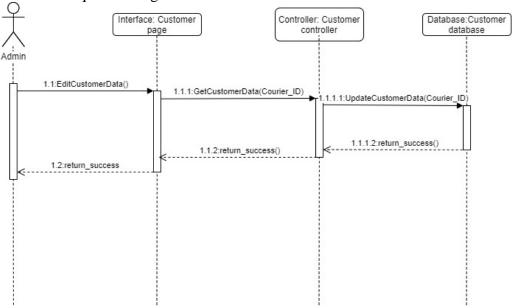
3.1.11.1 Class Identification

Table 3 Edit Customer Data Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	Customer page	Boundary
3.	Customer Controller	Controller
4.	Customer Database	Database

3.1.11.2 Sequence Diagram

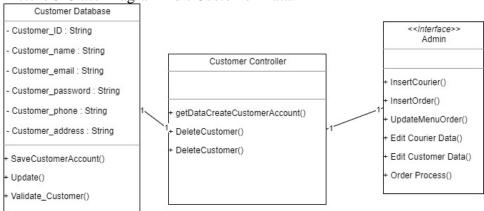
Picture 4 Sequence Diagram Edit Customer Data.



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3.1.11.3 Class Diagram

Picture 5 Class Diagram Edit Customer Data.



3.1.12 Use Case Edit Order

3.1.12.1 Class Identification

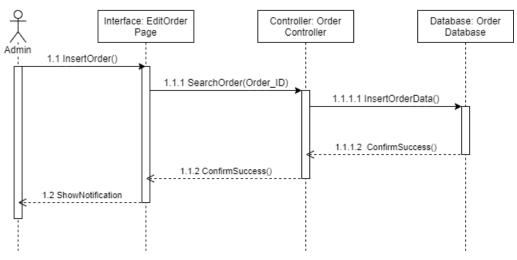
Table 3 Edit Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	EditOrder Page	Boundary
3.	Order Controller	Controller
4.	Order	Database

3.1.12.2 Sequence Diagram

Picture 4 Sequence Diagram Edit Order Status.

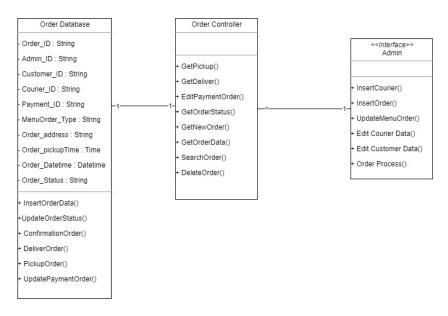
EditOrder()



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3.1.12.3 Class Diagram

Picture 5 Class Diagram Edit Payment.



3.1.13 Use Case Edit Menu Order

3.1.13.1 Class Identification

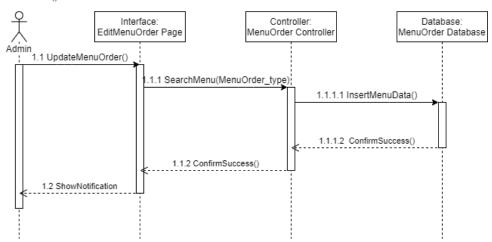
Table 3 Edit Menu Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	EditMenuOrder Page	Boundary
3.	MenuOrder Controller	Controller
4.	MenuOrder	Database

3.1.13.2 Sequence Diagram

Picture 4 Sequence Diagram Edit Menu Order.

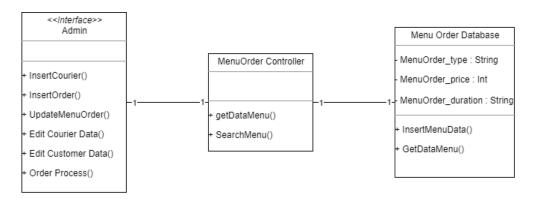
EditMenuOrder()



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3.1.13.3 Class Diagram

Picture 5 Class Diagram Edit Menu Order.



3.1.14 Use Case Edit Order Status

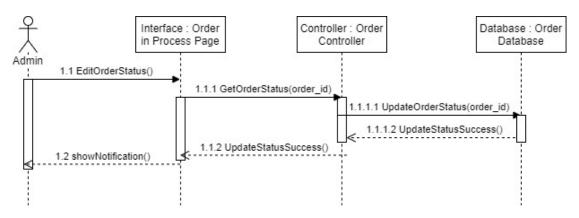
3.1.14.1 Class Identification

Table 3 Edit Order Status Class Identification Table

No	Design Class Name	Class Type
1.	Courier	Actor
2.	Order Payment Time Page	Boundary
3.	Order Controller	Controller
4.	Order	Database

3.1.14.2 Sequence Diagram

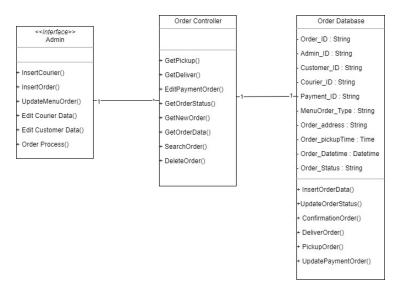
Picture 4 Sequence Diagram Edit Order Status.



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3.1.14.3 Class Diagram

Picture 5 Class Diagram Edit Order Status.



3.1.15 Use Case Delete Courier

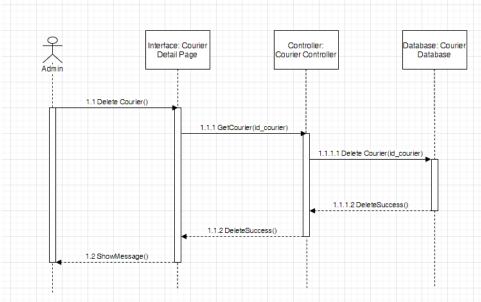
3.1.15.1 Class Identification

Table 3 Edit Menu Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	Courier Page	Boundary
3.	Courier Controller	Controller
4.	Courier Database	Database

3.1.15.2 Sequence Diagram

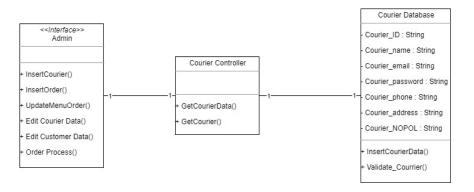
Picture 4 Sequence Diagram Delete Courier



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3.1.15.3 Class Diagram

Picture 5 Class Diagram Delete Courier



3.1.16 Use Case Delete Order

3.1.16.1 Class Identification

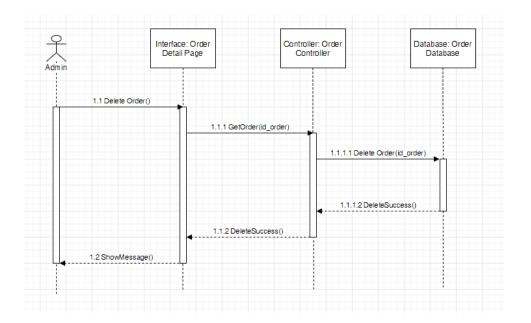
Table 3 Delete Order Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	Order Page	Boundary
3.	Order Controller	Controller
4.	Order Database	Database

3.1.16.2 Sequence Diagram

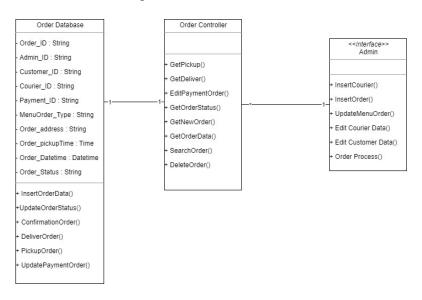
Picture 4 Sequence Diagram Delete Order

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3.1.16.3 Class Diagram

Picture 5 Class Diagram Delete Order



3.1.17 Use Case Delete Customer

3.1.17.1 Class Identification

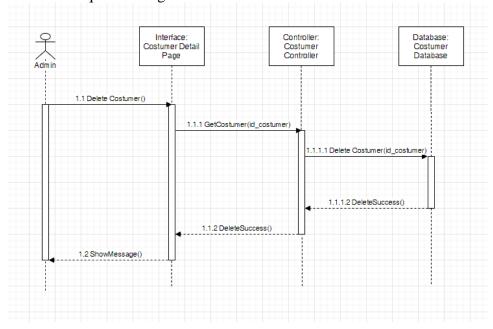
Table 3 Delete Customer Class Identification Table

No	Design Class Name	Class Type
1.	Admin	Actor
2.	Costumer Page	Boundary
3.	Costumer Controller	Controller
4.	Couier Database	Database

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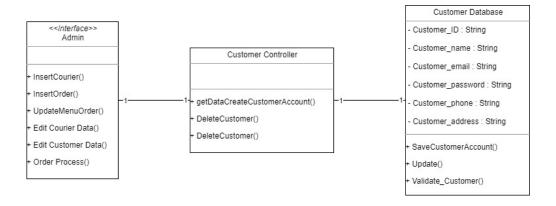
3.1.17.2 Sequence Diagram

Picture 4 Sequence Diagram Delete Customer



3.1.17.3 Class Diagram

Picture 5 Class Diagram Delete Costumer



3.1.18 Use Case Pick up The Order

3.1.18.1 Class Identification

Table 2 Pickup The Order Class Identification Table

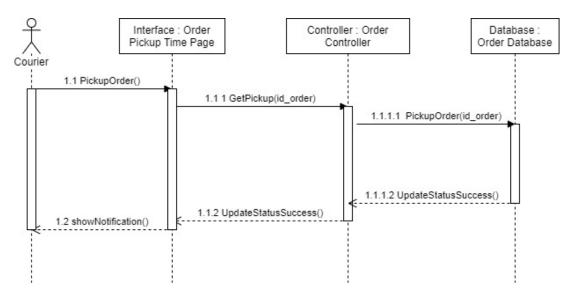
No	Design Class Name	Class Type
1.	Courier	Actor
2.	Order Pickup Time Page	Boundary
3.	Order Controller	Controller

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4	١.	Order	Database
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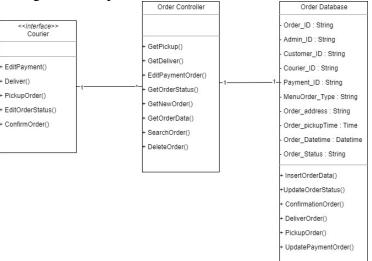
3.1.18.2 Sequence Diagram

Picture 3 Sequence Diagram Pick up The Order.



3.1.18.3 Class Diagram

Picture 4 Class Diagram Pickup The Order.



3.1.19 Use Case Deliver The Order

3.1.19.1 Class Identification

Table 3 Pickup The Order Class Identification Table

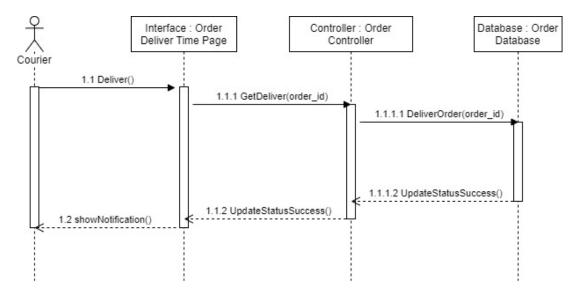
No	Design Class Name	Class Type			
1.	Courier	Actor			
2.	Order Deliver Time Page	Boundary			
3.	Order Controller	Controller			

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4. Order Database	4.	Order	Database
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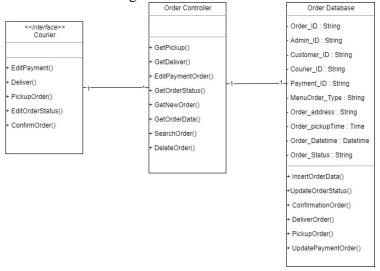
3.1.19.2 Sequence Diagram

Picture 4 Sequence Diagram Deliver The Order.



3.1.19.3 Class Diagram

Picture 5 Class Diagram Deliver The Order.



3.1.20 Use Case Edit Payment

3.1.20.1 Class Identification

Table 3 Edit Payment Class Identification Table

	· · · · · · · · · · · · · · · ·				
No	Design Class Name	Class Type			
1.	Courier	Actor			
2.	Order Payment Time Page	Boundary			
3.	Order Controller	Controller			

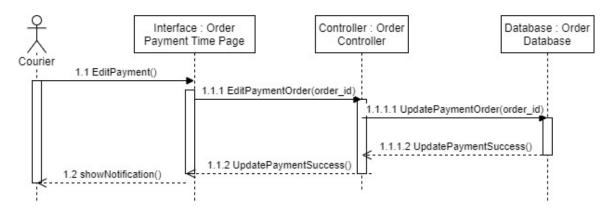
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4	١.	Order	Database
---	----	-------	----------

3.1.20.2 Sequence Diagram

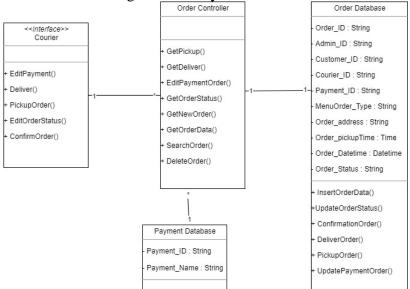
Picture 4 Sequence Diagram Edit Payment.

EditPayment()



3.1.20.3 Class Diagram

Picture 5 Class Diagram Edit Payment.



3.2 Design Class Detail

Table 3 Design Class Detail Table

No	Design Class Name	Name of Related Analysis Class
1.	Admin	Admin
2.	Customer	Customer
3.	Courier	Courier
4.	Customer Database	Database
5.	Admin Database	Database

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6.	Courier Database	Database
7.	Order Database	Database
8.	MenuOrder Database	Database
9.	Payment Database	Database
10.	Order Controller	Controller
11.	Courier Controller	Controller
12.	Menu Order Controller	Controller
13.	Customer Controller	Controller
14.	Login Controller	Controller

3.2.1 Admin Class

Admin Class Table

Operation Name	Visibility	Explanation
	(private, public)	
InsertCourier()	Public	Inserting courier data
InsertOrder()	Public	Inserting order data
UpdateMenuOrder()	Public	Inserting Menu Order that
		want to update and the update
OrderProcess()	Public	Inserting new Order to
		database
EditOrderStatus()	Public	Updating order status in
		database
ConfirmOrder()	Public	Updating status in database
		become 'accepted'
Add Order()	Public	Inserting new Order to
		database
Edit Order()	Public	Updating order data in
		database
Edit Courier Data()	Private	Updating courier data in
		database
Edit Customer Data()	Private	Updating customer data in
		database
Add Courier()	Private	Inserting new courier to
		database
Attribute Name	Visibility (private, public)	Туре

3.2.2 Customer Class

Customer Class Table

Operation Name	Visibility (private, public)	Explanation
CreateAccount()	Public	Creating Account and insert it into database

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Login()	Public	Check email and password
		that match in database for
		login
Order()	Public	Inserting new Order to
		database
Editbiodata()	Public	Updating customer personal
		data in database
ViewMenu()	Public	Display Menu Order from
		database
ViewOrder()	Public	Display Order Data from
		database
Attribute Name	Visibility	Type
	(private, public)	

3.2.3 Courier Class

Courier Class Table

Operation Name	Visibility	Explanation
	(private, public)	
EditPayment()	Public	Updating order status into
		"deliver" in database
Deliver()	Public	Updating order status into
		"deliver" in database
PickupOrder()	Public	Updating order status into
_		"pick up" in database
EditOrderStatus()	Public	Updating order status in
		database
ConfirmOrder()	Public	Updating order status into
		"accepted"
Attribute Name	Visibility	Type
	(private, public)	_

3.2.4 Customer Database Class

Courier Database Class Table

Operation Name	Visibility	Explanation
	(private, public)	
SaveCustomerAccount()	Public	Storing Customer account
		into table customer
Update()	Public	To update the biodata of
		customer in table customer
Validate_Customer()	Public	Checking if user exists in
		table customer
Attribute Name	Visibility	Type
	(private, public)	

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Customer_ID	Private	String
Customer_name	Private	String
Customer_email	Private	String
Customer_password	Private	String
Customer_phone	Private	String
Customer_address	Private	String

3.2.5 Admin Database Class

Admin Database Class Table

Operation Name	Visibility (private, public)	Explanation
Validate_Admin()	Public	Checking if user exists in table admin
Attribute Name	Visibility	Type
	(private, public)	
Admin_ID	Private	String
Admin_name	Private	String
Admin_email	Private	String
Admin_password	Private	String
Admin_phone	Private	String
Admin_address	Private	String
Admin_position	Private	String

3.2.6 Courier Database Class

Courier Database Class Table

Operation Name	Visibility	Explanation
	(private, public)	
InsertCourierData()	Public	Inserting courier data to the
		database
Validate_Courrier()	Public	Checking if user exists in
		table courrier
Attribute Name	Visibility	Type
	(private, public)	
Courier_ID	Private	String
Courier_name	Private	String
Courier_email	Private	String
Courier_password	Private	String
Courier_phone	Private	String
Courier_address	Private	String
Courier_NOPOL	Private	String

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3.2.7 Order Database Class

Order Database Class Table

Operation Name	Visibility	Explanation
_	(private, public)	_
InsertOrderData()	Public	Inserting order data to the
		database
UpdateOrderStatus()	Public	Update order status in
		database
ConfirmationOrder()	Public	Confirm order data in
		database
DeliverOrder()	Public	Update order status into
		"deliv" in database
PickupOrder()	Public	Update order status into
		"pick up" in database
UpdatePaymentOrder()	Public	Update payment method into
		the chosen method and status
		into "paid"
Attribute Name	Visibility	Type
	(private, public)	
Order_ID	Private	String
Admin_ID	Private	String
Customer_ID	Private	String
Courier_ID	Private	String
Payment_ID	Private	String
Order_address	Private	String
Order_pickupTime	Private	String
MenuOrder_Type	Private	String
Order_Datetime	Private	Datetime
Order_Status	Private	String

3.2.8 Menu Order Database Class

Menu Order Database Class Table

Operation Name	Visibility	Explanation
	(private, public)	
InsertMenuData()	Public	Inserting menu data to
		database
GetDataMenu()	Public	Getting data from table menu
		order
Attribute Name	Visibility	Type
	(private, public)	
MenuOrder_type	Private	String
MenuOrder_price	Private	Int
MenuOrder_duration	Private	String

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3.2.9 Payment Database Class

Payment Database Class Table

Operation Name	Visibility (private, public)	Explanation
Attribute Name	Visibility (private, public)	Туре
Payment_ID	Private	String
Payment_name	Private	String

3.2.10 Order Controller Class

Controller Class Table

Operation Name	Visibility	Explanation
	(private, public)	
GetPickup()	Public	Get order data in database
GetDeliver()	Public	Get order data in database
EditPaymentOrder()	Public	Update payment data in
		database
GetOrderStatus()	Public	Get order status in database
GetNewOrder()	Public	Get new order data
GetOrderData()	Public	Receive Order Data that
		already inputed
GetOrder(id_order)	Private	Getting Order data from
		Order Database
SearchOrder()	Public	Search order data that already
		inputed
Attribute Name	Visibility (private, public)	Туре

3.2.11 Courier Controller Class

Controller Class Table

Operation Name	Visibility (private, public)	Explanation
GetCourierData()	Public	Receive Courier Data that already inputed
GetCourier(id_courier)	Private	Getting Courier data from Courier Database
Attribute Name	Visibility (private, public)	Type

3.2.12 Customer Controller Class

Controller Class Table

Operation Name	Visibility	Explanation
	(private, public)	

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Attribute Name	Visibility (private, public)	Type
		Database
GetCostumer(id_costumer)	Private	Getting customer data from
get_formbiodata()	Public	data from customer biodata
		by user when login
getData()	Public	To get the data that inputed
unt(customer:Customer)		create account of customer
GetDataCreateCustomerAcco	Public	Get the customer data when

3.2.13 Menu Order Controller Class

Controller Class Table

Operation Name	Visibility	Explanation
	(private, public)	
GetDataMenu()	Public	Getting data from menu table
SearchMenu()	Public	Search menu order data that
		already inputed
Attribute Name	Visibility (private, public)	Type

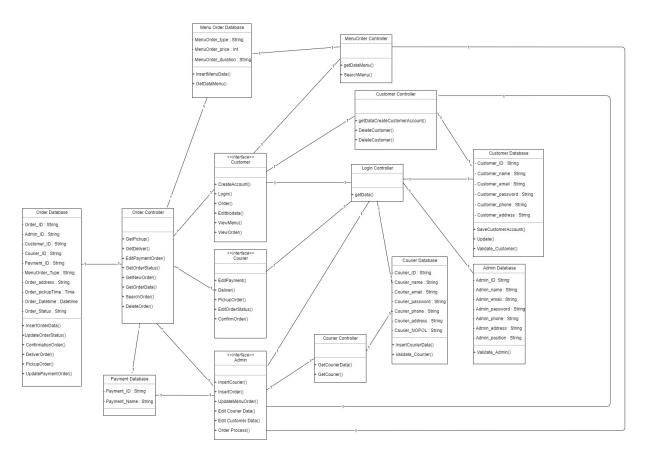
3.2.14 Login Controller Class

Controller Class Table

Operation Name	Visibility (private, public)	Explanation
get_data()	Private	Getting Costumer Data from Database
Attribute Name	Visibility (private, public)	Type

3.3 Overall Class Diagram

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3.4 Algorithm/Query

This section is filled to describe the algorithms for the methods of Class that is considered important. Skeleton code implementation is also possible conducted for classes defined in a particular programming language.

3.4.1 Algorithm for Admin, Customer, and Courier

Class Name : Admin, Customer, Courier

Operation Name : Login Algorithm : Algo-001

Email = input

Password = input

 $query 1 = select * from admin where admin_email = email and admin_password = password$

query2 = select * from courier where courier _email = email and courier _password =

password

query3 = select * from customer where customer_email = email and customer_password = password

If(query1 != null) then

Session = login_admin

Show homepage

Else if(query2 != null) then

Session = login_courier

Show homepage

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Else if(query3 != null) then

Session = login_customer

Show homepage

Else

Output('email or password is invalid')

Show login page

endif

Query :

No Query	Query	Description
Q-001	select * from admin where admin_email =	If email and password exist
	email and admin_password = password !=	in admin database will output
	null	true, false otherwise
Q-002	select * from courier where courier _email =	If email and password exist
	email and courier _password = password !=	in courier database will
	null	output true, false otherwise
Q-003	select * from customer where customer_email	If email and password exist
	= email and customer_password = password	in customer database will
	!= null	output true, false otherwise

3.4.2 Algorithm for Order

Class Name : Order

Operation Name : Order Process

Algorithm : Algo-002

Customer_ID = Session.id

Order_address = select customer_address from customer where customer_id = Session.id

Order_pickupTime = input MenuOrder_Type = input

Order_Datetime = timestamp

Order_Status = 'new order' (default)

Courier_ID = random_in(select courier_id from courier)

Insert into order (customer_id, order_address, order_pickupTime, menuOrder_Type, Order_dateTime, Order_Status, Courier ID) values(customer_id, order_address, order_pickupTime, menuOrder_Type, Order_dateTime, Order_Status, Courier ID)

If(affected_rows > 0) then

Output("Success")

Show Order page

Else

Output("Failed")

Show Order Page

Endif

Query :

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No Query	Query	Description
Q-004	select customer_address from customer where customer_id = Session.id	To get customer_address by customer_id that equal to Session.id from customer database
Q-005	select courier_id from courier	To get list of courier_id from courier database
Q-006	Insert into order (customer_id, order_address, order_pickupTime, menuOrder_Type,	To insert new order to order database
	Order_dateTime, Order_Status, Courier ID)	

3.4.3 Algorithm for Admin and Order

Class Name : Admin and Order

Operation Name : Edit Order Status

Algorithm : Algo-003

Order_id = input Admin_id = Session.id

Order_Status = input

Courier_id = input

If(courier_id == null) then

Update order set admin_id = Admin_id, order_status = Order_Status where order_id = Order id

Else

Update order set admin_id = Admin_id, order_status = Order_Status, courier_id = Courier_id where order_id = Order_id

endif

If(affected_rows > 0) then

Output("Success")

Show Order page

Else

Output("Failed")

Show Order Page

Endif

Query :

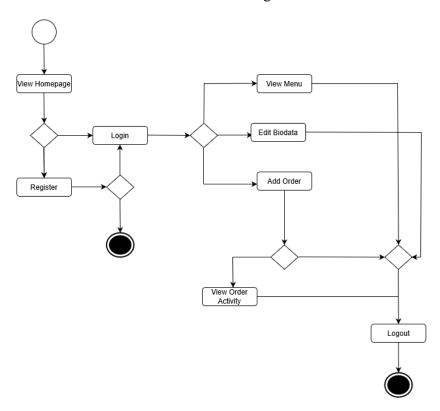
No Query	Query	Description
Q-007	Update order set admin_id = Admin_id,	To update admin_id and
	order_status = Order_Status where order_id =	order_status in order database
	Order_id	
Q-008	Update order set admin_id = Admin_id,	To update admin_id,
	order_status = Order_Status, courier_id =	courier_id and order_status in
	Courier_id where order_id = Order_id	order database

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3.5 Statechart Diagram

Customer:

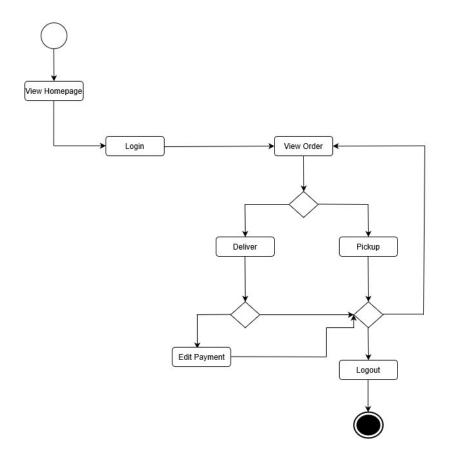
Picture 3.5.1 Customer Statechart Diagram



Courier:

Picture 3.5.2 Courier Statechart Diagram

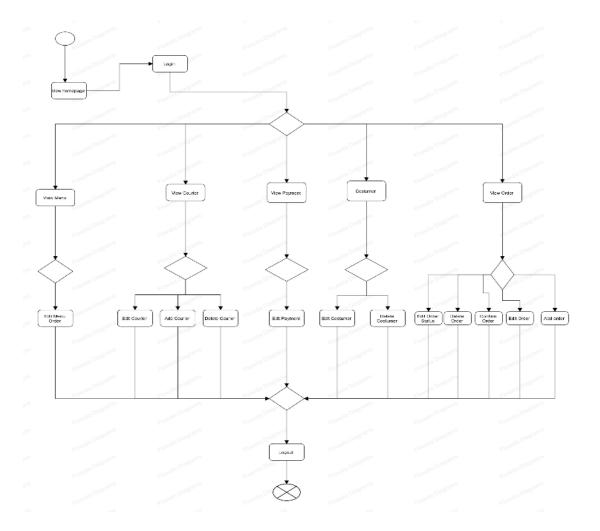
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Admin:

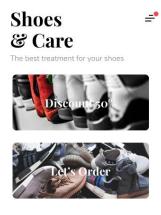
Picture 3.5.3 Admin Statechart Diagram



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3.6 Interface Design

Interface : Home Page



Customer of The Month

Salsabilla - 15 Orders Farhan - 10 Orders Aria - 9 Orders Yusron - 5 Orders

Table Navigation Table

Object_id	Type	Name	Explanation
Banner1	Panel	Banner 1	If clicked, redirect to Menu Order Page
	Button		
Banner 2	Panel	Banner 2	If clicked, redirect to Menu Order Page
	Button		

Interface : Menu Order Page

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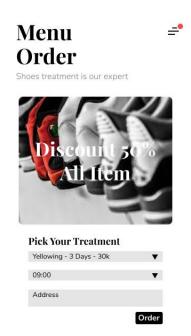


Table Navigation Table

Object_id	Type	Name	Explanation
BtnOrder	Button	Order	If clicked, it will redirect to confirmation
			order or to login (if don't login yet)
Menuorde	Dropwdow	Type Menu	If clicked, it will show multiple type
r_type	n	Order	menu order
Pickup_ti	Dropdown	Pickup Time	If clicked, it will show multiple pickup
me			time
Pickup_ad	Text Input	Pickup	To input the pickup address value
dress	_	Address	

Interface : Register Page

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Register

Farhan Audianto	
farhan@gmail.com	
+6282254678907	
Address	

	Submit

Already have an account? Login Here.

Table Navigation Table

Object_id	Type	Name	Explanation
BtnSubmit	Button	Submit	If clicked, it will add data
Name	Text Input	Name	To input the name value
Email	Text Input	Email	To input the email value
Phone	Text Input	Phone number	To input the phone number value
number			
Address	Text Input	Address	To input the address value
Password	Text Input	Password	To input the password value

Interface : Login Page

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Object_id	Type	Name	Explanation
BtnLogin	Button	Login	If clicked, it will call function login to
			check it
Email	Text Input	Email	To input the email value
Password	Text Input	Password	To input the password value

Do not have an account? Register Here.

Interface : My Account Page



Table Navigation Table

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Object_id	Type	Name	Explanation
BtnSave	Button	Save	If clicked, it will save the account data
Name	Text Input	Name	To input the name value
Email	Text Input	Email	To input the email value
Phone	Text Input	Phone number	To input the phone number value
number			
Address	Text Input	Address	To input the address value
Password	Text Input	Password	To input the password value

Interface : My Order Page



Table Navigation Table

Object_id	Type	Name	Explanation
Pagination	Pagination	Pagination	To make a pagination of completed order
			list
Banner 1	Panel	Banner 1	If clicked, redirect to Menu Order
	Button		
Detail	Button	Detail	If clicked, redirect to order detail

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Interface : Order Detail Page



Order ID #202023

▼ Customer Data

Yusron Hanan Cempaka Stree 2B Sumberkolak +6282251461910

▼ Order Detail

Type: Yellowing - 3 Days
Price: Rp. 30.000
Datetime: 17/04/2020 at 06:13 Pickup Time : 09:00 by Courier #210 Deliver Time : 12:10 by Courier #212 Payment Method : Cash

Status : Completed

Table Navigation Table

Object_id	Type	Name	Explanation

: Order List Page for Courier Interface

Order List



▼ Pickup Time

Yusron - Cempaka Street 2B Salsa - PBB Blok E No 12 Aria - Setiyabudi Street No 19

◀ 1234 ▶

◀ 1234 ▶

▼ Deliver Time

#202003171 - Buah Batu Street 8 #202002162 - Sukapura No 2E2

#202002162 - Sukabirus H17

Table Navigation Table

Object_id	Type	Name	Explanation
Pagination	Pagination	Pagination	To make a pagination of completed order
			list

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Detail	Button	Detail	If clicked, redirect to order detail
--------	--------	--------	--------------------------------------

Interface : Order Detail Page for Courier and Admin



Table Navigation Table

Object_id	Type	Name	Explanation
Edit	Button	Edit	If clicked, redirect to edit order form

Interface : Edit Order Page (For Courier)



Table Navigation Table

Object id	Type	Name	Explanation

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Payment_	Dropdown	Login	Dropdown input of payment name
name			
Status	Dropdown	Email	Dropdown input of order status
BtnSave	Button	Save	If clicked, it will save the data

Interface : Customer List Page for Admin





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Table Navigation Table

Object_id	Type	Name	Explanation
CustomerTab	Table	Customer	Display information about Customer
le		Table	Data
Pagination	Pagination	Pagination	To make a pagination of completed order
			list

Interface : Courier List Page for Admin

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Object_id	Type	Name	Explanation
CourierTable	Table	Courier Table	Display information about Courier Data
btnAdd	Button	Add	If clicked, redirect to add form page
Pagination	Pagination	Pagination	To make a pagination of completed order
		_	list

Interface : Order List Page for Admin

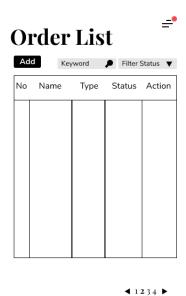


Table Navigation Table

Object_id	Type	Name	Explanation
OrderTable	Table	Order Table	Display information about Order Data

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btnAdd	Button	Add	If clicked, redirect to add form page
Pagination	Pagination	Pagination	To make a pagination of completed order list
keyword	Text Input	Keyword	To input keyword value
Filter_status	Dropdown	Filter Status	Dropdown value of Order Status

Interface : Menu Order List Page for Admin



Table Navigation Table

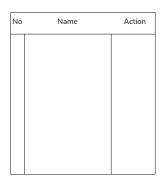
		~	
Object_id	Type	Name	Explanation
MenuOrderTa	Table	Menu Order	Display information about Menu Order
ble		Table	Data

Interface : Payment Method List Page for Admin

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Object_id	Type	Name	Explanation
PaymentMetho	Table	Payment	Display information about Payment
dTable		Method Table	Method Data

Interface : Edit Payment Method Page for Admin



Table Navigation Table

1 401	ie i ia i ganon	1 4010	
Object_id	Type	Name	Explanation
BtnSave	Button	Save	If clicked, it will save the data
PaymentN	Text Input	Payment	To input the payment name value
ame		Name	

Interface : Edit Menu Order Page for Admin

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Edit Men ^{ID #03}	u Order	<u>-</u> -
Yellowin	g	
3	Days	
30.000		
	Save	

Object_id	Type	Name	Explanation
BtnSave	Button	Save	If clicked, it will save the data
Type	Text Input	Type	To input the type value
Duration	Text Input	Duration	To Input the duration value
Price	Text Input	Price	To Input the price value

Interface : Edit Customer Page for Admin



Table Navigation Table

Object_id	Type	Name	Explanation
BtnSave	Button	Save	If clicked, it will save the data
Name	Text Input	Name	To input the name value
Email	Text Input	Email	To input the email value

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Phone	Text Input	Phone number	To input the phone number value
number			
Address	Text Input	Address	To input the address value
Password	Text Input	Password	To input the password value
BtnDelete	Button	Delete	If clicked, it will Delete the data

Interface : Add Courier Page for Admin



Table Navigation Table

Object_id	Type	Name	Explanation
BtnAdd	Button	Add	If clicked, it will Add the data
Name	Text Input	Name	To input the name value
Email	Text Input	Email	To input the email value
Phone	Text Input	Phone number	To input the phone number value
number			
Address	Text Input	Address	To input the address value
Nopol	Text Input	Nopol	To input the police license value
Password	Text Input	Password	To input the password value

Interface : Edit Courier Page for Admin

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Object_id	Type	Name	Explanation
BtnSave	Button	Save	If clicked, it will save the data
Name	Text Input	Name	To input the name value
Email	Text Input	Email	To input the email value
Phone	Text Input	Phone number	To input the phone number value
number			
Address	Text Input	Address	To input the address value
Nopol	Text Input	Nopol	To input the police license value
Password	Text Input	Password	To input the password value
BtnDelete	Button	Delete	If clicked, it will Delete the data

Interface : Add Order Page for Admin

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Object_id	Type	Name	Explanation
BtnAdd	Button	Add	If clicked, it will add the data
Menuorder_t	Dropwdow	Type Menu	If clicked, it will show multiple type
ype	n	Order	menu order
Pickup_time	Dropdown	Pickup Time	If clicked, it will show multiple pickup
			time
Pickup_addr	Text Input	Pickup	To input the pickup address value
ess		Address	
Id_customer	Text Input	ID Customer	To input the id customer value
Pickup_cour	Dropdown	Pickup Courier	If clicked, it will show multiple pickup
ier			courier

Interface : Edit Order Page for Admin



Table Navigation Table

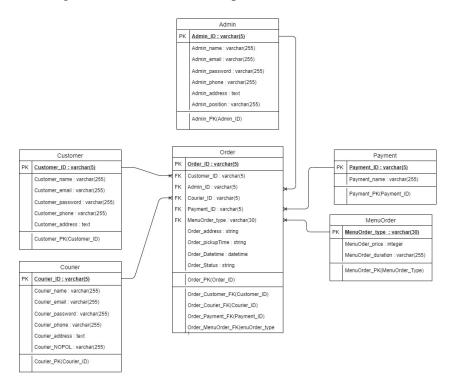
Object_id Type	Name	Explanation
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BtnSave	Button	Save	If clicked, it will save the data
Menuorder_t	Dropwdow	Type Menu	If clicked, it will show multiple type
ype	n	Order	menu order
Pickup_time	Dropdown	Pickup Time	If clicked, it will show multiple pickup
			time
Pickup_addr	Text Input	Pickup	To input the pickup address value
ess		Address	
Id_customer	Text Input	ID Customer	To input the id customer value
Pickup_cour	Dropdown	Pickup Courier	If clicked, it will show multiple pickup
ier			courier
Datetime	Date	Datetime	To input the datetime value
Deliver_tim	Dropdown	Deliver Time	If clicked, it will show multiple Deliver
e			time
Deliver	Dropdown	Deliver	If clicked, it will show multiple Deliver
_courier		Courier	courier
Payment_me	Dropdown	Payment	If clicked, it will show multiple Payment
thod		Method	Method
Order_Statu	Dropdown	Order Status	If clicked, it will show multiple Order
S			Status
BtnDelete	Button	Delete	If clicked, it will Delete the data

3.7 Design of Class Persistence Representation

Picture 50 Design of Class Persistence Representation



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4 Usability Matrix

Table 6 Usability Matrix Table

Number	Requirement Code	Function	Description
1.	FR-01	Create Account	This function is used
			by user to make
			account to access the
			application.
2.	FR-02	Login	This function is used
			by the user to log in to
			the application.
3.	FR-03	View Menu	This function is used
			by the user to view and
			choose the list
			treatment of the
			application
4.	FR-04	Order Process	This function is used
			by the user to order the
			shoes treatment
5.	FR-05	Edit Biodata	This function is used
			by the user to edit the
			personal data that user
			want
6.	FR-06	View Order	This function is used
			by the user to view the
			user's order
7.	FR-07	Confirm User	This function is used
		Order	by the user to confirm
			the order
8.	FR-08	Add Order Process	This function is used
			by the user to add the
			new order process in
_			offline store
9.	FR-09	Add Courier Data	This function is used
			by the user to add the
			data for the courier for
			courier log in to the
4.0	TD 10		application
10.	FR-10	Edit Courier Data	This function is used
			by the user to edit the
1.1	ED 11	Elit II D	data fot the courier
11.	FR-11	Edit User Data	This function is used
			by the user to edit the
			current data that user
12	ED 12	Edit Order Process	Want This function is used
12.	FR-12	Edit Order Process	This function is used
			by the user to edit the
12	ED 12	Edit Menu Order	Current order process This function is used
13.	FR-13	Edit Menu Order	
			by the user to edit or
			update list of Shoes
1.4	ED 14	Edit Onder Status	treatment This function is used
14.	FR-14	Edit Order Status	This function is used
			by the user to edit the
			order status

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15.	FR-15	Delete Courier Data	This function is used by the user to delete the courier
16.	FR-16	Delete Order Process	This function is used by the user to delete the order
17.	FR-17	Delete User Data	This function is used by the user to delete the data
18.	FR-18	Pickup The Order	This function is used by the user to change the order activities status in to "Process/Pickup"
19.	FR-19	Deliver The Order	This function is used by the user to change the order activities status in to "Delivered"
20.	FR-20	Edit Payment Data	This function is used by the user to edit the payment method

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