

# TRAFIZ

## Technical Document



This document is a technical document specification for use by Trafiz project. It provides design overview and module specifications regarding technical implementation of the project.

*Created by PT Altermyth*

---

## Revision History

Revision Number	Revision Date	Summary of Changes
1.0	21 Sep 2018	Initial Documents – based on v17f.
1.1	27 Sep 2018	Based on v19: - Revise data type at the Database Table and Stored Procedure related to fishcatch, the amount (weight), change from integer(11) to float.
1.2	18 Oct 2018	Based on v21, revise structure and API to handle Scan by QR feature (adding fish by system, accepting delivery sheet as the data source): table trcatch and trfishcatch; upgrade api to addcatchv5, addfishcatchv4, and updatecatchv5.
1.2.22	13 Aug 2019	Add some stored procedure and API for pagination purpose. SP: getcatchbyidmssupplierv6, getdeliversheetbyidmssupplierv6. API: getv6bysup, getsheetv6

---

# Table of Contents

Document History.....	2
Table of Contents.....	3
1. INTRODUCTION ABOUT THE SYSTEM.....	4
1.1 System Overview .....	4
1.2 System Environment .....	5
2. ARCHITECTURE.....	6
2.1 High level application architechture .....	6
2.2 Logical Architecture .....	7
3. SPECIFICATIONS – SERVER & DATABASE .....	8
3.1 Server Configuration .....	8
3.2 Database Scheme.....	9
3.3 Database Tables .....	10
3.4 List of Stored Procedures and Functions .....	21
4. SPECIFICATIONS – MOBILE APP .....	44
4.1 Modules.....	44
4.2 File Structure.....	47
4.3 Local Database .....	50
4.4 Delivery Sheet Format .....	50
5. SPECIFICATIONS – WEB APP .....	52
5.1 Modules.....	52
5.2 File Structure.....	53
6. API LIST .....	57
7. EXTERNAL QUERY .....	72

---

# 1. INTRODUCTION ABOUT THE SYSTEM

---

## 1.1 System Overview

TRAFIZ is an application to collect fishing information (traceability) for a better Fishery Management that contains business driver to support the sustainable usage of the application.

The application is mainly a mobile application with supported functions at the Web, both as the server side, backend administration, and also few administrative functions for the user.

### Products / Output

#### 1.Mobile Application / Android.

The main interface for the User, consists mainly data entry and reporting functions.

#### 2.Web Application.

The web is used by both User and Administrator for administrative and reporting purpose. User can manage their Users and see some Reportings from the web. While Administrator using it to manage the User Management and handling the Master Database at large.

The web application (backend & API) is accessible through <https://trafiz.org/>

---

## 1.2 System Environment

The minimum environment to run the Application:

➤ **Mobile Application**

Mobile Platform : Android

Minimum Operating System : Jellybean

➤ **Web Application**

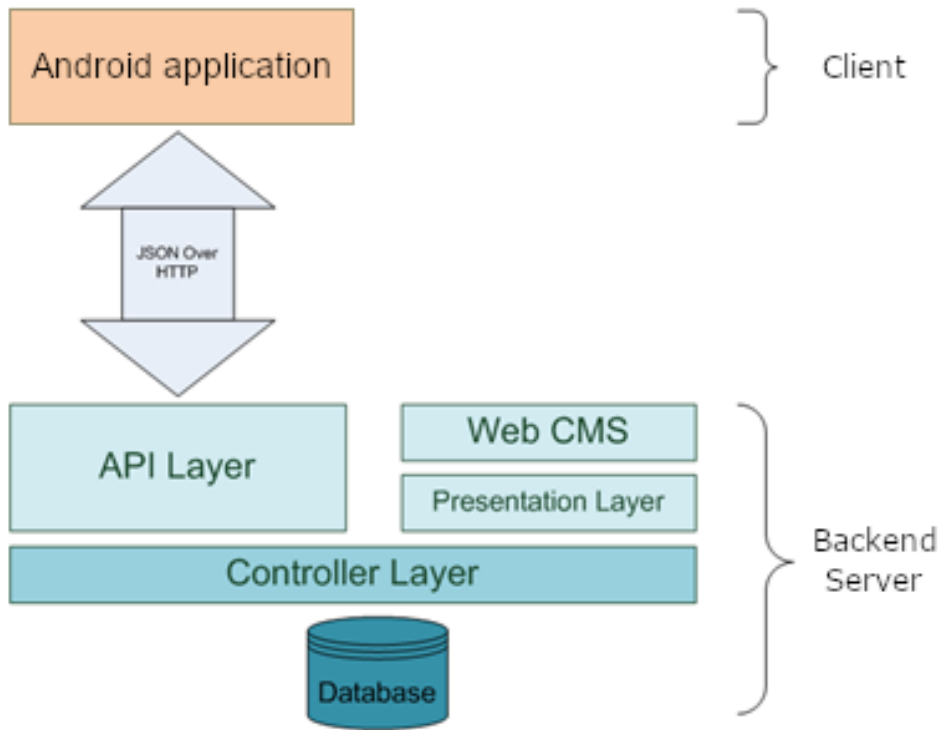
Any major browser with the latest version. Recommended to use Google Chrome.

---

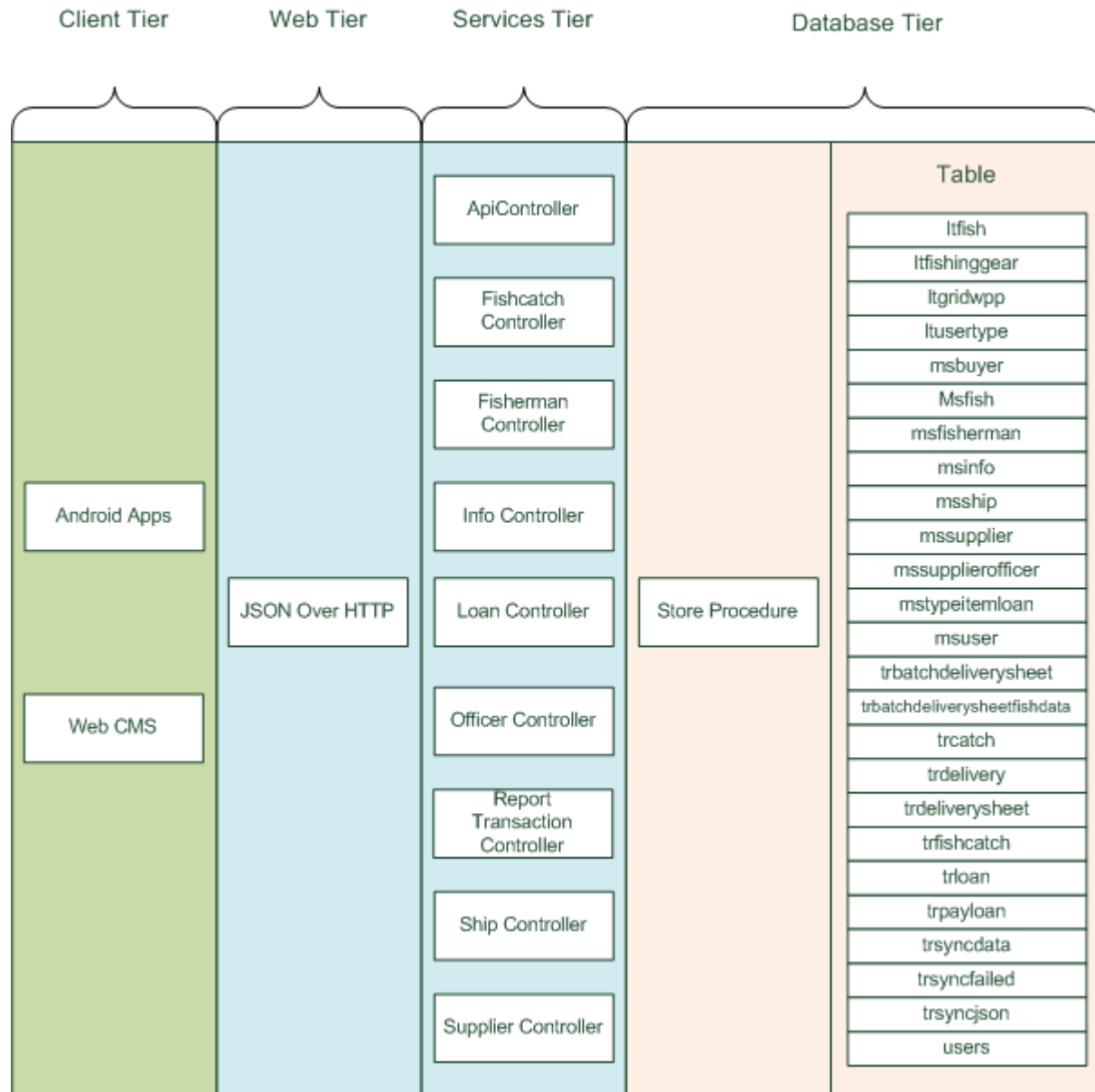
## 2. ARCHITECTURE

---

### 2.1 High level application architecture



## 2.2 Logical Architecture



---

## 3. SPECIFICATIONS – SERVER & DATABASE

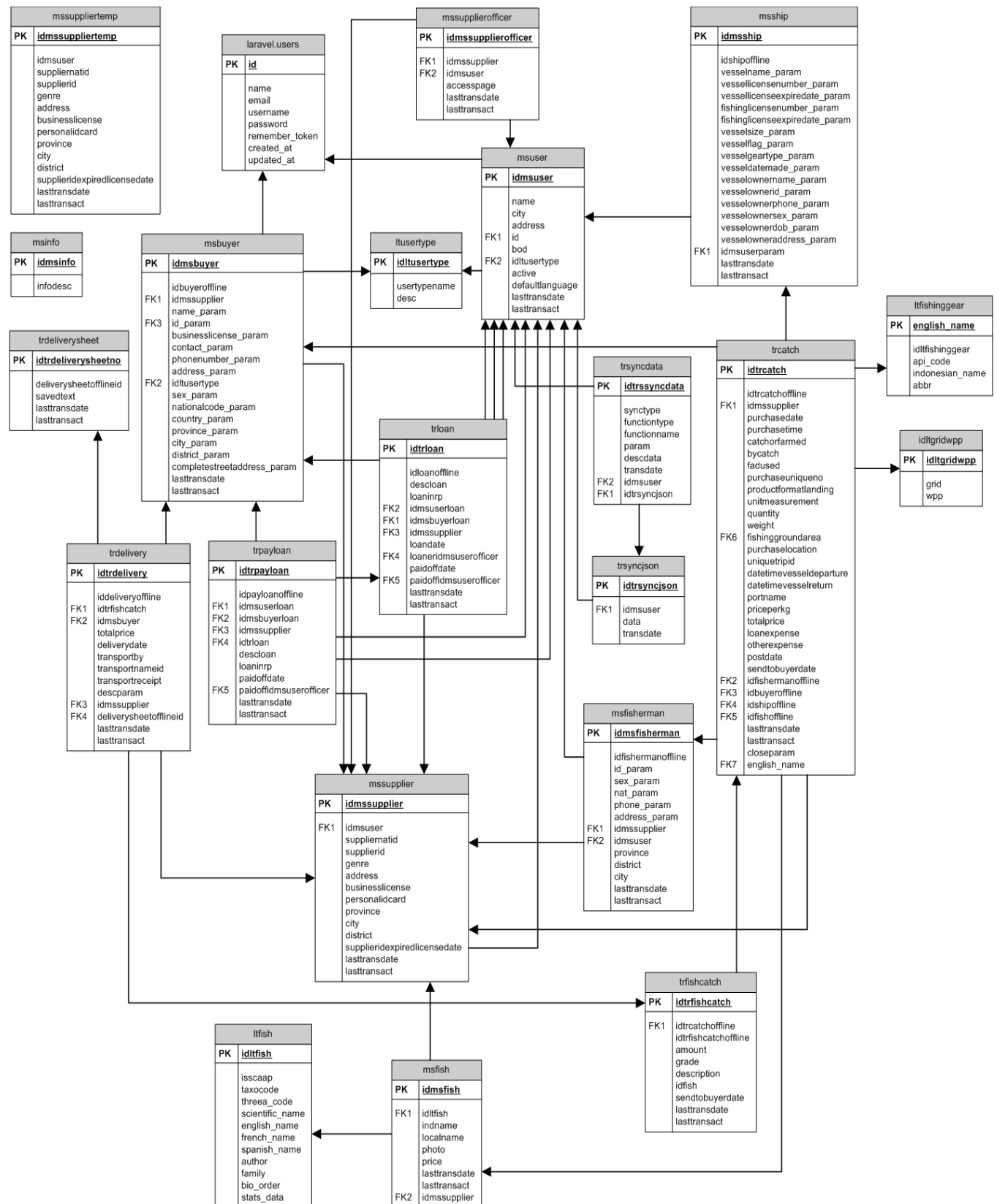
---

### 3.1 Server Configuration

- a. Hardware Server
  - I. Azure package: Standard B1s
  - II. CPU : 1 vcpus
  - III. RAM : 1 GB memory
- b. Application server
  - I. OS: Centos OS 7.2
  - II. Web server application: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.2.8
  - III. PHP Version: 7.2.8
  - IV. Web framework: Laravel version 5.6.20
  - V. phpinfo : <http://104.215.185.180/info.php>
- c. Database server
  - I. OS: Centos OS 7,2
  - II. Database client: libmysql - mysqlnd 5.0.12-dev – 20150407



## 3.2 Database Scheme



---

### 3.3 Database Tables

#### 1. Ltfish

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idltfishPrimary</i>	<i>int(11)</i>	<i>No</i>	<i>None</i>	<i>AUTO_INCREMENT</i>
<i>lsscaap</i>	<i>tinyint(4)</i>	<i>No</i>	<i>None</i>	
<i>taxocode</i>	<i>varchar(13)</i>	<i>No</i>	<i>None</i>	
<i>threea_code</i>	<i>char(3)</i>	<i>No</i>	<i>None</i>	
<i>scientific_name</i>	<i>varchar(38)</i>	<i>No</i>	<i>None</i>	
<i>indonesian_name</i>	<i>varchar(32)</i>	<i>No</i>	<i>None</i>	
<i>english_name</i>	<i>varchar(30)</i>	<i>No</i>	<i>None</i>	
<i>french_name</i>	<i>varchar(30)</i>	<i>No</i>	<i>None</i>	
<i>spanish_name</i>	<i>varchar(30)</i>	<i>No</i>	<i>None</i>	
<i>Author</i>	<i>varchar(55)</i>	<i>No</i>	<i>None</i>	
<i>Family</i>	<i>varchar(20)</i>	<i>No</i>	<i>None</i>	
<i>bio_order</i>	<i>varchar(30)</i>	<i>No</i>	<i>None</i>	
<i>stats_data</i>	<i>tinyint(1)</i>	<i>No</i>	<i>None</i>	
<i>lasttransdate</i>	<i>datetime</i>	<i>Yes</i>	<i>NULL</i>	
<i>lasttransact</i>	<i>varchar(1)</i>	<i>No</i>	<i>C</i>	

#### 2. Ltfishinggear

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idltfishinggear</i>	<i>int(11)</i>	<i>No</i>	<i>None</i>	<i>AUTO_INCREMENT</i>
<i>api_code</i>	<i>varchar(9)</i>	<i>No</i>	<i>None</i>	
<i>indonesian_name</i>	<i>varchar(48)</i>	<i>No</i>	<i>None</i>	
<i>english_name</i>	<i>varchar(64)</i>	<i>No</i>	<i>None</i>	
<i>abbr</i>	<i>varchar(4)</i>	<i>No</i>	<i>None</i>	

#### 3. Ltgridwpp

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idltgridwpp</i>	<i>int(11)</i>	<i>No</i>	<i>None</i>	<i>AUTO_INCREMENT</i>
<i>grid</i>	<i>char(3)</i>	<i>No</i>	<i>None</i>	

wpp	int(11)	No	None
-----	---------	----	------

#### 4. Ltusertype

Field	Type	Null	Default	Extra
idltusertype	int(11)	No	None	
usertypepname	varchar(32)	Yes	NULL	
desc	varchar(128)	Yes	NULL	

#### 5. Msbuyer

Field	Type	Null	Default	Extra
idmsbuyer	varchar(32)	No	None	
idbuyeroffline	varchar(128)	Yes	NULL	
idmssupplier	varchar(32)	Yes	NULL	
name_param	varchar(128)	No	None	
id_param	varchar(32)	Yes	NULL	
businesslicense_param	varchar(32)	Yes	NULL	
contact_param	varchar(32)	Yes	NULL	
phonenummer_param	varchar(20)	No	None	
address_param	text	Yes	NULL	
idltusertype	int(11)	Yes	NULL	
sex_param	varchar(1)	Yes	1	
nationalcode_param	varchar(16)	Yes	NULL	
country_param	varchar(2)	Yes	NULL	
province_param	varchar(32)	Yes	NULL	
city_param	varchar(32)	Yes	NULL	
district_param	varchar(32)	Yes	NULL	
completestreetaddress_param	text	Yes	NULL	
lasttransdate	datetime	Yes	NULL	
lasttransact	varchar(1)	Yes	C	
companyname	varchar(64)	Yes	NULL	
businesslicenseexpiredde	date	Yes	NULL	

#### 6. Msfish

Field	Type	Null	Default	Extra
idmsfish	varchar(32)	No	None	
idfishoffline	varchar(128)	No	None	
idltfish	int(11)	No	None	
indname	varchar(128)	No	None	

<i>localname</i>	<i>varchar(256)</i>	Yes	NULL
<i>photo</i>	<i>varchar(128)</i>	Yes	NULL
<i>idmssupplier</i>	<i>varchar(32)</i>	No	None
<i>price</i>	<i>double</i>	Yes	0
<i>lasttransdate</i>	<i>datetime</i>	No	None
<i>lasttransact</i>	<i>varchar(1)</i>	No	None

## 7. Msfisherman

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idmsfisherman</i>	<i>varchar(32)</i>	No	None	
<i>idfishermanoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>id_param</i>	<i>varchar(16)</i>	Yes	NULL	
<i>sex_param</i>	<i>varchar(1)</i>	Yes	0	
<i>nat_param</i>	<i>varchar(2)</i>	Yes	NULL	
<i>address_param</i>	<i>text</i>	Yes	NULL	
<i>phone_param</i>	<i>varchar(20)</i>	No	0	
<i>jobtitle_param</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuser</i>	<i>varchar(32)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	
<i>province</i>	<i>varchar(64)</i>	Yes	NULL	
<i>district</i>	<i>varchar(64)</i>	Yes	NULL	
<i>city</i>	<i>varchar(64)</i>	Yes	NULL	
<i>fishermanregnumber</i>	<i>varchar(64)</i>	Yes	NULL	
<i>country</i>	<i>varchar(64)</i>	Yes	NULL	

## 8. Msinfo

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idmsinfo</i>	<i>varchar(32)</i>	No	None	
<i>infodesc</i>	<i>text</i>	Yes	NULL	

## 9. Msship

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idmsship</i>	<i>varchar(32)</i>	No	None	
<i>idshipoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>vesselname_param</i>	<i>varchar(64)</i>	No	None	
<i>vessellicensenumbers_param</i>	<i>varchar(32)</i>	Yes	NULL	

Document: Technical Document

Subject: Trafiz – A Small Scale Supplier App

Page 12 of 72

<i>vessellicenseexpireddate_param</i>	date	Yes	NULL
<i>fishinglicensenumbers_param</i>	varchar(32)	Yes	NULL
<i>fishinglicenseexpireddate_param</i>	date	Yes	NULL
<i>vesselsize_param</i>	int(11)	Yes	NULL
<i>vesselflag_param</i>	varchar(2)	Yes	NULL
<i>vesselgeartype_param</i>	varchar(128)	Yes	NULL
<i>vesseldatemade_param</i>	date	Yes	NULL
<i>vesselownername_param</i>	varchar(128)	Yes	NULL
<i>vesselownerid_param</i>	varchar(32)	Yes	NULL
<i>vesselownerphone_param</i>	varchar(20)	Yes	NULL
<i>vesselownersex_param</i>	varchar(1)	Yes	NULL
<i>vesselownerdob_param</i>	date	Yes	NULL
<i>vesselowneraddress_param</i>	text	Yes	NULL
<i>idmsuserparam</i>	varchar(32)	Yes	NULL
<i>lasttransdate</i>	datetime	Yes	NULL
<i>lasttransact</i>	varchar(1)	Yes	NULL
<i>vesselownerprovince_param</i>	varchar(32)	Yes	NULL
<i>vesselownerdistrict_param</i>	varchar(32)	Yes	NULL
<i>vesselownercity_param</i>	varchar(32)	Yes	NULL
<i>vesselownercountry_param</i>	varchar(32)	Yes	NULL
<i>vessel_id</i>	varchar(128)	Yes	NULL

## 10. Mssupplier

Field	Type	Null	Default	Extra
<i>idmssupplier</i>	varchar(32)	No	None	
<i>idmsuser</i>	varchar(128)	Yes	NULL	
<i>suppliernatid</i>	varchar(3)	Yes	NULL	
<i>supplierid</i>	varchar(128)	Yes	NULL	
<i>lasttransdate</i>	datetime	Yes	NULL	
<i>lasttransact</i>	varchar(1)	Yes	NULL	
<i>genre</i>	varchar(1)	Yes	NULL	
<i>address</i>	varchar(128)	Yes	NULL	
<i>businesslicense</i>	varchar(128)	Yes	NULL	
<i>personalidcard</i>	varchar(64)	Yes	NULL	
<i>province</i>	varchar(64)	Yes	NULL	
<i>city</i>	varchar(64)	Yes	NULL	
<i>district</i>	varchar(64)	Yes	NULL	
<i>supplieridexpiredlicensedate</i>	date	Yes	NULL	

## 11. Mssupplierofficer

Field	Type	Null	Default	Extra
<i>idmssupplierofficer</i>	<i>varchar(32)</i>	No	None	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuser</i>	<i>varchar(32)</i>	Yes	NULL	
<i>accesspage</i>	<i>varchar(10)</i>	Yes	NULL	
<i>accessrole</i>	<i>varchar(32)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	

## 12. Mstypeitemloan

Field	Type	Null	Default	Extra
<i>idmstypeitemloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmstypeitemloanoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>typename</i>	<i>varchar(32)</i>	Yes	NULL	
<i>unit</i>	<i>varchar(32)</i>	Yes	NULL	
<i>priceperunit</i>	<i>float</i>	Yes	NULL	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	
<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL	

## 13. Msuser

Field	Type	Null	Default	Extra
<i>idmsuser</i>	<i>varchar(32)</i>	No	None	
<i>name</i>	<i>varchar(128)</i>	Yes	NULL	
<i>id</i>	<i>int(11)</i>	Yes	NULL	
<i>bod</i>	<i>datetime</i>	Yes	NULL	
<i>idltusertype</i>	<i>int(11)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	NULL	
<i>active</i>	<i>int(11)</i>	Yes	1	
<i>defaultlanguage</i>	<i>varchar(2)</i>	Yes	en	

## 14. Trbatchdeliversheet

Field	Type	Null	Default	Extra
idtrbatchdeliverysheet	varchar(32)	No	None	
deliverysheetno	varchar(128)	Yes	NULL	
nationalregistrationsuppliercode	varchar(32)	Yes	NULL	
suppliername	varchar(64)	Yes	NULL	
idmssupplier	varchar(32)	Yes	NULL	
deliverydate	date	Yes	NULL	
numberoffishorloin	int(11)	Yes	NULL	
totalweight	float	Yes	NULL	
sellprice	float	Yes	NULL	
notes	text	Yes	NULL	
lasttransdate	datetime	Yes	NULL	
lasttransact	varchar(1)	Yes	C	
idmsusercreator	varchar(32)	Yes	NULL	
idmsuserlasttrans	varchar(32)	Yes	NULL	

#### 15. Trbatchdeliverysheetfishdata

Field	Type	Null	Default	Extra
idtrbatchdeliverysheetfishdata	varchar(32)	No	None	
deliverysheetno	varchar(32)	Yes	NULL	
idtrfishcatch	varchar(32)	Yes	NULL	
idtrfishcatchoffline	varchar(64)	Yes	NULL	
amount	float	Yes	NULL	
grade	varchar(32)	Yes	NULL	
description	text	Yes	NULL	
idfish	varchar(32)	Yes	NULL	
idtrcatchoffline	varchar(128)	Yes	NULL	
fishnameeng	varchar(64)	Yes	NULL	
fishnameind	varchar(64)	Yes	NULL	
unitname	varchar(32)	Yes	NULL	
species	varchar(64)	Yes	NULL	
vesselname	varchar(32)	Yes	NULL	
vesselsize	float	Yes	NULL	
vesselregistrationno	varchar(32)	Yes	NULL	
expireddate	date	Yes	NULL	
vesselflag	varchar(3)	Yes	NULL	
fishingground	varchar(32)	Yes	NULL	
landingsite	varchar(32)	Yes	NULL	
geartype	varchar(64)	Yes	NULL	

catchdate	date	Yes	NULL
fishermannname	varchar(64)	Yes	NULL
landingdate	date	Yes	NULL
fadused	varchar(32)	Yes	NULL
sellprice	float	Yes	NULL
lasttransdate	datetime	Yes	NULL
lasttransact	varchar(1)	Yes	NULL
idmsusercreator	varchar(32)	Yes	NULL
idmsuserlasttrans	varchar(32)	Yes	NULL

## 16. Trcatch

Field	Type	Null	Default	Extra
idtrcatch	varchar(32)	No	None	
idtrcatchoffline	varchar(128)	Yes	NULL	
idmssupplier	varchar(32)	Yes	NULL	
idmsfisherman	varchar(32)	Yes	NULL	
idmsbuyersupplier	varchar(32)	Yes	NULL	
idmsship	varchar(32)	Yes	NULL	
idmsfish	varchar(32)	No	None	
purchasedate	date	No	None	
purchasetime	time	Yes	NULL	
catchorfarmed	varchar(10)	No	catch	
bycatch	varchar(1)	No	0	
fadused	varchar(1)	Yes	0	
purchaseunique	varchar(32)	Yes	NULL	
productformatlanding	varchar(10)	No	whole	
unitmeasurement	varchar(10)	Yes	whole	
quantity	float	No	None	
weight	float	No	None	
fishinggroundarea	varchar(10)	No	None	
purchaselocation	varchar(32)	Yes	NULL	
uniquetripid	varchar(32)	Yes	NULL	
datetimevesseldeparture	datetime	No	None	
datetimevesselreturn	datetime	No	None	
portname	varchar(32)	Yes	NULL	
priceperkg	double	Yes	NULL	
totalprice	double	Yes	NULL	
loanexpense	double	Yes	NULL	
otherexpense	double	Yes	NULL	



<i>postdate</i>	<i>datetime</i>	Yes	NULL
<i>sendtobuyerdate</i>	<i>datetime</i>	Yes	NULL
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C
<i>idfishermanoffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>idbuyeroffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>idshipoffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>idfishoffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>closeparam</i>	<i>varchar(1)</i>	No	0
<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL
<i>idltfishinggear</i>	<i>int(11)</i>	Yes	NULL
<i>notes</i>	<i>text</i>	Yes	NULL
<i>fishermanname2</i>	<i>varchar(191)</i>	Yes	NULL
<i>fishermanid</i>	<i>varchar(32)</i>	Yes	NULL
<i>fishermanregnumber</i>	<i>varchar(32)</i>	Yes	NULL

## 17. Trdelivery

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idtrdelivery</i>	<i>varchar(32)</i>	No	None	
<i>iddeliveryoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idtrcatch</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idtrfishcatch</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsbuyer</i>	<i>varchar(32)</i>	Yes	NULL	
<i>totalprice</i>	<i>double</i>	Yes	NULL	
<i>deliverydate</i>	<i>datetime</i>	No	None	
<i>transportby</i>	<i>varchar(10)</i>	Yes	NULL	
<i>transportnameid</i>	<i>varchar(128)</i>	Yes	NULL	
<i>transportreceipt</i>	<i>varchar(64)</i>	Yes	NULL	
<i>descparam</i>	<i>text</i>	Yes	NULL	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>deliverysheetofflineid</i>	<i>text</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	
<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL	

## 18. Trdeliverysheet

	<i>Type</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
Document:	Technical Document				
Subject:	Trafiz – A Small Scale Supplier App				

<i>idtrdeliverysheetno</i>	<i>varchar(32)</i>	No	None
<i>deliverysheetofflineid</i>	<i>text</i>	Yes	NULL
<i>savedtext</i>	<i>text</i>	Yes	NULL
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL
<i>Lasttransact</i>	<i>varchar(1)</i>	Yes	NULL

## 19. Trfishcatch

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idtrfishcatch</i>	<i>varchar(32)</i>	No	None	
<i>idtrcatchoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idtrfishcatchoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>amount</i>	<i>float</i>	Yes	NULL	
<i>grade</i>	<i>varchar(5)</i>	Yes	NULL	
<i>description</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idfish</i>	<i>varchar(32)</i>	Yes	NULL	
<i>iddeliveryoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>sendtobuyerdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	
<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL	
<i>upline</i>	<i>varchar(128)</i>	Yes	NULL	

## 20. Trloan

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idtrloan</i>	<i>varchar(32)</i>	No	None	
<i>idloanoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>descloan</i>	<i>text</i>	Yes	NULL	
<i>loaninrp</i>	<i>double</i>	Yes	NULL	
<i>idmsuserloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsbuyerloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>loandate</i>	<i>datetime</i>	Yes	NULL	
<i>loaneridmsuserofficer</i>	<i>varchar(32)</i>	Yes	NULL	
<i>paidoffdate</i>	<i>datetime</i>	Yes	NULL	
<i>paidoffidmsuserofficer</i>	<i>varchar(32)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	

<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL
<i>idmstypeitemloanoffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>unit</i>	<i>varchar(32)</i>	Yes	NULL
<i>priceperunit</i>	<i>float</i>	Yes	NULL
<i>idfishermanoffline</i>	<i>varchar(128)</i>	Yes	NULL
<i>idbuyeroffline</i>	<i>varchar(128)</i>	Yes	NULL

## 21. Trpayloan

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idtrpayloan</i>	<i>varchar(32)</i>	No	None	
<i>idpayloanoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idmsuserloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsbuyerloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmssupplier</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idtrloan</i>	<i>varchar(32)</i>	Yes	NULL	
<i>descloan</i>	<i>text</i>	Yes	NULL	
<i>loaninrp</i>	<i>double</i>	Yes	NULL	
<i>paidoffdate</i>	<i>datetime</i>	Yes	NULL	
<i>paidoffidmsuserofficer</i>	<i>varchar(32)</i>	Yes	NULL	
<i>lasttransdate</i>	<i>datetime</i>	Yes	NULL	
<i>lasttransact</i>	<i>varchar(1)</i>	Yes	C	
<i>idmsusercreator</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idmsuserlasttrans</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idfishermanoffline</i>	<i>varchar(128)</i>	Yes	NULL	
<i>idbuyeroffline</i>	<i>varchar(128)</i>	Yes	NULL	

## 22. Trsyncdata (log from all of the sync information)

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Default</i>	<i>Extra</i>
<i>idtrssyncdata</i>	<i>varchar(32)</i>	No	None	
<i>synctype</i>	<i>varchar(7)</i>	Yes	NULL	
<i>functiontype</i>	<i>varchar(20)</i>	Yes	NULL	
<i>functionname</i>	<i>varchar(64)</i>	Yes	NULL	
<i>param</i>	<i>longtext</i>	Yes	NULL	
<i>descdata</i>	<i>longtext</i>	Yes	NULL	
<i>transdate</i>	<i>datetime</i>	Yes	NULL	
<i>idmsuser</i>	<i>varchar(32)</i>	Yes	NULL	
<i>idtrsyncjson</i>	<i>varchar(32)</i>	Yes	NULL	

### 23. Trsyncfailed (log from all of the failed transaction)

Field	Type	Null	Default	Extra
idtrsyncfailed	varchar(128)	No	None	
idmsuser	varchar(128)	Yes	NULL	
jsondata	longtext	Yes	NULL	
idtrsyncjson	varchar(128)	Yes	NULL	
functionname	varchar(128)	Yes	NULL	
functionindex	int(11)	No	0	
texterr	longtext	Yes	NULL	
lasttransdate	datetime	Yes	NULL	

### 24. Trsyncjson

Field	Type	Null	Default	Extra
idtrsyncjson	varchar(32)	No	None	
idmsuser	varchar(32)	Yes	NULL	
data	longtext	Yes	NULL	
transdate	datetime	Yes	NULL	

### 25. Users

Field	Type	Null	Default	Extra
id	int(10) UNSIGNED	No	None	AUTO_INCREMENT
Name	varchar(191)	No	None	
Email	varchar(191)	No	None	
Username	varchar(191)	No	None	
Phonenumber	varchar(191)	No	None	
Password	varchar(191)	No	None	
remember_token	varchar(100)	Yes	NULL	
created_at	timestamp	Yes	NULL	
updated_at	timestamp	Yes	NULL	

---

### 3.4 List of Stored Procedures and Functions

Stored procedures and functions will layer the access to the database. The list of the procedures below accompany the database structure.

Stored procedures and the parameters are listed as below:

1. acceptnewsupplier
  1. IN idmssuppliertyparam varchar(32)
  2. IN idparam int(11)
2. addcatchsupplier
  1. IN idtrcatchpostparam varchar(32)
  2. IN idmssupplierparam varchar(32)
  3. IN idmssuppliersellparam varchar(32)
  4. IN idmsshipparam varchar(32)
  5. IN idmsfishparam varchar(32)
  6. IN varianceparam varchar(32)
  7. IN dispatchnotephotoparam varchar(32)
  8. IN priceperkgparam double
  9. IN totalpriceparam double
  10. IN locationparam varchar(32)
  11. IN saildateparam datetime
  12. IN postdateparam datetime
3. addcatchv5
  1. IN idtrcatchofflineparam varchar(128)
  2. IN idmssupplierparam varchar(32)
  3. IN idfishermanofflineparam varchar(128)
  4. IN idbuyerofflineparam varchar(128)
  5. IN idshipofflineparam varchar(128)
  6. IN idfishofflineparam varchar(128)
  7. IN purchasedateparam date
  8. IN purchasetimeparam time
  9. IN catchorfarmedparam varchar(10)
  10. IN bycatchparam varchar(1)
  11. IN fadusedparam varchar(1)
  12. IN purchaseuniquenoparam varchar(32)
  13. IN productformatlandingparam varchar(10)
  14. IN unitmeasurementparam varchar(10)
  15. IN quantityparam float
  16. IN weightparam float

17. IN fishinggroundareaparam varchar(10)
  18. IN purchaselocationparam varchar(32)
  19. IN uniquetripidparam varchar(32)
  20. IN datetimedepartureparam datetime
  21. IN datetimedepartureparam datetime
  22. IN portnameparam varchar(32)
  23. IN priceperkgparam double
  24. IN totalpriceparam double
  25. IN loanexpenseparam double
  26. IN otherexpenseparam double
  27. IN postdateparam datetime
  28. IN idmsusercreatorparam varchar(32)
  29. IN fishermannnameparam VARCHAR(191)
  30. IN fishermanidparam VARCHAR(64)
  31. IN fishermanregnumberparam VARCHAR(64)
  32. IN closeparamparam VARCHAR(1)
4. addfishcatchv4
    1. IN idtrcatchofflineparam varchar(128)
    2. IN idtrfishcatchofflineparam varchar(128)
    3. IN amountparam int(11)
    4. IN gradeparam varchar(5)
    5. IN descparam varchar(128)
    6. IN idfishparam varchar(32)
    7. IN idmsusercreatorparam varchar(32)
    8. IN uplineparam varchar(128)
5. Addfishconfig
    1. IN idmssupplierparam varchar(32)
    2. IN nameparam varchar(64)
    3. IN idmsfishparam varchar(32)
    4. IN gradeparam varchar(10)
    5. IN unitparam varchar(10)
    6. IN handlingparam varchar(10)
6. Addfishpriceconfig
    1. IN idtrfishconfigparam varchar(32)
    2. IN idtrcatchparam varchar(32)
7. Addloginsuserqrqcode
    1. IN uniquecodeparam varchar(32)
8. addnewbuyerv3

1. IN idbuyerofflineparam varchar(128)
  2. IN idmssupplierparam varchar(32)
  3. IN name\_paramparam varchar(128)
  4. IN id\_paramparam varchar(32)
  5. IN businesslicense\_paramparam varchar(32)
  6. IN contact\_paramparam varchar(32)
  7. IN phonenumber\_paramparam varchar(20)
  8. IN address\_paramparam text
  9. IN idltusertypeparam int(11)
  10. IN sex\_paramparam int(11)
  11. IN nationalcode\_paramparam varchar(16)
  12. IN country\_paramparam varchar(2)
  13. IN province\_paramparam varchar(32)
  14. IN city\_paramparam varchar(32)
  15. IN district\_paramparam varchar(32)
  16. IN completestreetaddress\_paramparam text
  17. IN companynameparam varchar(64)
  18. IN businesslicenseexpireddateparam datetime
9. addnewdeliverybatchv2
1. IN iddeliveryofflineparam varchar(128)
  2. IN idtrcatchofflineparam varchar(128)
  3. IN totalpriceparam double
  4. IN descparamparam text
  5. IN sendtobuyerdateparam datetime
  6. IN deliverydateparam datetime
  7. IN transportbyparam varchar(10)
  8. IN transportnameidparam varchar(128)
  9. IN transportreceiptparam varchar(64)
  10. IN idmsbuyerparam varchar(32)
  11. IN idmssupplierparam varchar(32)
  12. IN deliverysheetofflineidparam text
10. addnewdeliveryv3
1. IN iddeliveryofflineparam varchar(128)
  2. IN idtrfishcatchofflineparam varchar(128)
  3. IN totalpriceparam double
  4. IN descparamparam text
  5. IN sendtobuyerdateparam datetime
  6. IN deliverydateparam datetime

7. IN transportbyparam varchar(10)
8. IN transportnameidparam varchar(128)
9. IN transportreceiptparam varchar(64)
10. IN idmsbuyerparam varchar(32)
11. IN idmssupplierparam varchar(32)
12. IN deliverysheetofflineidparam text
13. IN idmsusercreatorparam varchar(32)

#### 11. Addnewfish

1. IN idfishofflineparam varchar(128)
2. IN idltfishparam varchar(32)
3. IN indnameparam varchar(128)
4. IN localnameparam varchar(256)
5. IN photoparam varchar(256)
6. IN idmssupplierparam varchar(32)
7. IN priceparam double

#### 12. addnewfishermanv3

1. IN idfishermanofflineparam varchar(128)
2. IN nameparam varchar(128)
3. IN bodparam datetime
4. IN id\_paramparam varchar(32)
5. IN sex\_paramparam varchar(1)
6. IN nat\_paramparam varchar(2)
7. IN address\_paramparam text
8. IN phone\_paramparam varchar(20)
9. IN jobtitle\_paramparam varchar(32)
10. IN idmssupplierparam varchar(32)
11. IN provinceparam varchar(64)
12. IN districtparam varchar(64)
13. IN cityparam varchar(64)
14. IN fishermanregnumberparam varchar(64)
15. IN countryparam varchar(64)

#### 13. addnewloanv5

1. IN idloanofflineparam varchar(128)
2. IN descloanparam text
3. IN loaninrpparam double
4. IN idmsuserloanparam varchar(32)
5. IN idmsbuyerloanparam varchar(32)
6. IN idmssupplierparam varchar(32)



7. IN loandateparam datetime
8. IN loaneridmsuserofficerparam varchar(32)
9. IN idmsusercreatorparam varchar(32)
10. IN idmstypeitemloanofflineparam varchar(128)
11. IN unitparam varchar(32)
12. IN priceperunitparam float
13. IN idfishermanofflineparam varchar(128)
14. IN idbuyerofflineparam varchar(128)

#### 14. Addnewlftfish

1. IN isscaapparam tinyint(4)
2. IN taxocodeparam varchar(13)
3. IN threea\_codeparam char(3)
4. IN scientific\_nameparam varchar(38)
5. IN english\_nameparam varchar(30)
6. IN french\_nameparam varchar(30)
7. IN spanish\_nameparam varchar(30)
8. IN authorparam varchar(55)
9. IN familyparam varchar(20)
10. IN bio\_orderparam varchar(30)
11. IN stats\_dataparam tinyint(1)

#### 15. addnewshipv3

1. IN idshipofflineparam varchar(128)
2. IN vesselname\_paramparam varchar(64)
3. IN vessellicensenumbers\_paramparam varchar(32)
4. IN vessellicenseexpireddate\_paramparam date
5. IN fishinglicensenumbers\_paramparam varchar(32)
6. IN fishinglicenseexpireddate\_paramparam date
7. IN vesselsize\_paramparam int(11)
8. IN vesselflag\_paramparam varchar(2)
9. IN vesselgeartype\_paramparam varchar(128)
10. IN vesseldatemade\_paramparam date
11. IN vesselownername\_paramparam varchar(128)
12. IN vesselownerid\_paramparam varchar(32)
13. IN vesselownerphone\_paramparam varchar(20)
14. IN vesselownersex\_paramparam varchar(1)
15. IN vesselownerdob\_paramparam date
16. IN vesselowneraddress\_paramparam text
17. IN idmsuserparamparam varchar(32)

18. IN vesselownerprovince\_param varchar(32)
19. IN vesselownerdistrict\_param varchar(32)
20. IN vesselownercity\_param varchar(32)
21. IN vesselownercountry\_param varchar(32)
22. IN vessel\_idparam varchar(128)

#### 16. Addnewsupplier

1. IN idparam varchar(32)
2. IN nameparam varchar(191)
3. IN idluserypeparam int(11)
4. IN langparam varchar(2)
5. IN activeparam int(11)
6. IN natidparam varchar(2)
7. IN supplieridparam varchar(128)
8. IN genreparam varchar(1)
9. IN addressparam varchar(128)
10. IN provinceparam varchar(64)
11. IN cityparam varchar(64)
12. IN districtparam varchar(64)
13. IN businesslicenseparam varchar(128)
14. IN personalidcardparam varchar(64)
15. IN supplieridexpiredlicensedateparam date

#### 17. Addnewsupplierofficer

1. IN idmssupplierparam varchar(32)
2. IN nameparam varchar(128)
3. IN cityparam varchar(32)
4. IN addressparam varchar(32)
5. IN idparam int(11)
6. IN bodparam datetime
7. IN idluserypeparam int(11)
8. IN langparam varchar(2)
9. IN accessparam varchar(10)
10. IN accessroleparam varchar(32)

#### 18. Addnewsupliertemp

1. IN nameparam varchar(128)
2. IN usernameparam varchar(128)
3. IN emailparam varchar(128)
4. IN phonenumberparam varchar(16)
5. IN supplieridparam varchar(10)

6. IN passwordparam varchar(128)
  7. IN natidparamparam varchar(2)
  8. IN langparam varchar(2)
  9. IN genreparam varchar(1)
  10. IN addressparam varchar(128)
  11. IN cityparam varchar(64)
  12. IN districtparam varchar(64)
  13. IN provinceparam varchar(64)
  14. IN businesslicenseparam varchar(64)
  15. IN personalidcardparam varchar(64)
  16. IN supplieridexpiredlicensedateparam date
19. Addnewtrbatchdeliverysheet
1. IN deliverysheetnoparam varchar(128)
  2. IN nationalregistrationsuppliercodeparam varchar(32)
  3. IN suppliernameparam varchar(64)
  4. IN idmssupplierparam varchar(32)
  5. IN deliverydateparam date
  6. IN numberoffishorloinparam int(11)
  7. IN totalweightparam float
  8. IN sellpriceparam float
  9. IN notesparam text
  10. IN idmsusercreatorparam varchar(32)
20. Addnewtrbatchdeliverysheetfishdata
1. IN deliverysheetnoparam varchar(32)
  2. IN idtrfishcatchparam varchar(32)
  3. IN idtrfishcatchofflineparam varchar(64)
  4. IN amountparam float
  5. IN gradeparam varchar(32)
  6. IN descriptionparam text
  7. IN idfishparam varchar(32)
  8. IN idtrcatchofflineparam varchar(128)
  9. IN fishnameengparam varchar(64)
  10. IN fishnameindparam varchar(64)
  11. IN unitnameparam varchar(32)
  12. IN speciesparam varchar(64)
  13. IN vesselnameparam varchar(32)
  14. IN vesselsizeparam float
  15. IN vesselregistrationnoparam varchar(32)

16. IN expireddateparam date
17. IN vesselflagparam varchar(3)
18. IN fishinggroundparam varchar(32)
19. IN landingsiteparam varchar(32)
20. IN geartypeparam varchar(64)
21. IN catchdateparam date
22. IN fishermannnameparam varchar(64)
23. IN landingdateparam date
24. IN fadusedparam varchar(32)
25. IN sellpriceparam float
26. IN idmsusercreatorparam varchar(32)

#### 21. Addnewtypeitemloan

1. IN idmstypeitemloanofflineparam varchar(128)
2. IN typenameparam varchar(32)
3. IN unitparam varchar(32)
4. IN priceperunitparam float
5. IN idmssupplierparam varchar(32)
6. IN idmsuserparam varchar(32)

#### 22. Addnewuser

1. IN nameparam varchar(128)
2. IN cityparam varchar(32)
3. IN addressparam varchar(32)
4. IN idparam int(11)
5. IN bodparam datetime
6. IN idltusertypeparam int(11)
7. IN langparam varchar(2)

#### 23. addpayloanv4

1. IN idpayloanofflineparam varchar(128)
2. IN idmsuserloanparam varchar(32)
3. IN idmsbuyerloanparam varchar(32)
4. IN idmssupplierparam varchar(32)
5. IN descparam text
6. IN rpparam double
7. IN paiddateparam datetime
8. IN paidoffidmsuserofficerparam varchar(32)
9. IN idmsusercreatorparam varchar(32)
10. IN idfishermanofflineparam varchar(128)
11. IN idbuyerofflineparam varchar(128)

24. Addshipcrew

1. IN idmsfishermanparam varchar(32)
2. IN idtrsailparam varchar(32)

25. Addsyncdata

1. IN synctypeparam varchar(7)
2. IN functiontypeparam varchar(20)
3. IN functionnameparam varchar(64)
4. IN paramparam longtext
5. IN descdataparam longtext
6. IN transdateparam datetime
7. IN idmsuserparam varchar(32)
8. IN idtrjsonparam varchar(32)

26. Addsyncjson

1. IN idmsuserparam varchar(32)
2. IN dataparam longtext

27. Addtrssyncfailed

1. IN idmsuserparam varchar(128)
2. IN jsonparam longtext
3. IN idtrsjsonparam varchar(128)
4. IN functionnameparam varchar(128)
5. IN texterrparam longtext
6. IN functionindexparam int(11)

28. cancelpayloanv3

1. IN idloanofflineparam varchar(128)
2. IN idmsusertrans varchar(32)

29. Createdeliverysheet

1. IN deliverysheetofflineidparam text
2. IN savedtextparam text

30. Deletebuyer

1. IN idbuyerofflineparam varchar(128)

31. deletecatchv3

1. IN idtrcatchofflineparam varchar(128)
2. IN idmsusercreatorparam varchar(32)

32. Deletedeliverysheet

1. IN deliverysheetofflineidparam text

33. deletedeliveryv3

1. IN iddeliveryofflineparam varchar(128)
2. IN idmsusercreatorparam varchar(32)

- 34. Deletefish
  - 1. IN idfishofflineparam varchar(128)
- 35. deletefishcatchv3
  - 1. IN idtrfishcatchofflineparam varchar(128)
  - 2. IN idmsusercreatorparam varchar(32)
- 36. Deletefishconfig
  - 1. IN idtrfishconfigparam varchar(32)
- 37. Deletefisherman
  - 1. IN idfishermanofflineparam varchar(128)
- 38. Deletefishpriceconfig
  - 1. IN idtrfishpriceconfigparam varchar(32)
- 39. deleteloanv3
  - 1. IN idparam varchar(128)
  - 2. IN idmsusertrans varchar(32)
- 40. Deleteltfish
  - 1. IN idltfishparam int(11)
- 41. Deleteofficer
  - 1. IN idparam varchar(32)
- 42. deletepayloanv3
  - 1. IN idparam varchar(128)
  - 2. IN idmsusertrans varchar(32)
- 43. Deleteship
  - 1. IN idshipofflineparam varchar(128)
- 44. Deletesupplier
  - 1. IN idparam varchar(32)
- 45. Deletesupplierofficer
  - 1. IN idparam varchar(32)
- 46. Deletetrbatchdeliverysheet
  - 1. IN idmsuserparam varchar(32)
  - 2. IN deliverysheetnoparam varchar(32)
- 47. Deletetrbatchdeliverysheetfishdata
  - 1. IN idmsuserparam varchar(32)
  - 2. IN deliverysheetnoparam varchar(32)
- 48. Deletetypeitemloan
  - 1. IN idmstypeitemloanofflineparam varchar(128)
  - 2. IN idmsuserparam varchar(32)
- 49. Getactivemsuser
  - 1. IN idparam int(11)

50. Getactivemsuserqrcode
1. IN idparam int(11)
  2. IN qrcodeid varchar(32)
51. Getactiveqrcode
1. IN idparam varchar(32)
52. getbuyerlistbyidmsuserv3
1. IN idparam varchar(32)
53. getcatchbyidmssupplierv3
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
54. getcatchbyidmssupplierv4
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
55. getcatchbyidmssupplierv6
1. IN idmssupplierparam varchar(32)
  2. IN monthparam1 int(11)
  3. IN yearparam1 int(11)
  4. IN monthparam2 int(11)
  5. IN yearparam2 int(11)
56. getcatchv2
1. IN monthparam int(11)
  2. IN yearparam int(11)
57. Getdashboarddata
1. IN idmssupplierparam varchar(32)
58. getdeliverybyidmssupplierv3
1. IN idmssupplierparam varchar(32)
59. Getdeliverysheet
1. IN deliverysheetofflineidparam text
60. getdeliverysheetbyiddeliveryv2
1. IN iddeliveryparam varchar(32)
61. Getdeliverysheetbyidmssupplier
1. IN idmssupplierparam varchar(32)
62. getdeliverysheetbyidmssupplierv6
1. IN idmssupplierparam varchar(32)

2. IN monthparam1 INT
  3. IN yearparam1 INT
  4. IN monthparam2 INT
  5. IN yearparam2 INT
63. getfishbyidmsuserv2
1. IN idparam varchar(32)
64. getfishbyidsupplierv2
1. IN idmssupplierparam varchar(32)
65. getfishermanbyidmsuserv2
1. IN idparam varchar(32)
66. Getfishermanbyidsupplier
1. IN idmssupplierparam varchar(32)
67. Getfishnamebyidtrcatch
1. IN idparam varchar(32)
68. Getfishnamebyidtrfishcatch
1. IN idparam varchar(32)
69. Getkdedetailfromidfish
1. IN idfishparam varchar(128)
70. Getloanernloanbyidmssupplier
1. IN idmssupplierparam varchar(32)
71. Getloanlist
1. IN monthparam int(11)
  2. IN yearparam int(11)
72. getloanlistbyidmssupplierv2
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
73. Getmsinfo
1. IN supportinfoparam varchar(32)
74. getpayloanbyidmssuppliernidmsbuyer
1. IN idmssupplierparam varchar(32)
  2. IN idmsbuyeraram varchar(32)
75. Getpayloanbyidmssuppliernidmsuser
1. IN idmssupplierparam varchar(32)
  2. IN idmsuserparam varchar(32)
76. Getpayloanlist
1. IN monthparam int(11)



2. IN yearparam int(11)
77. Getpayloanlistbyidmssupplier
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
78. Getpayloanlistbyidmsusersupplier
1. IN idmsusersupplierparam varchar(32)
  2. IN monthparam int(11)
  3. IN yearparam int(11)
79. Getprofilesupplierbyidmsuser
1. IN idmsuserparam varchar(32)
80. Getreportcatch
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
81. Getreportdelivery
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
82. Getreportloan
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
83. Getreportlog
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
84. Getreportpayload
1. IN idmssupplierparam varchar(32)
  2. IN dayparam int(11)
  3. IN monthparam int(11)
  4. IN yearparam int(11)
85. Getsailbymssupplier

1. IN idmssupplierparam varchar(32)
86. getshipbyidmsuserv2
  1. IN idparam varchar(32)
87. Getsupplieraccept
  1. IN idparam varchar(32)
88. Getsupplierbyidmsuser
  1. IN idmsuserparam varchar(32)
  - ii. Getsupplierofficerbyidmsupplier
    1. IN idmssupplierparam varchar(32)
89. Gettypeitemloan
  1. IN idmssupplierparam varchar(32)
90. getvalidusername
  1. IN idparam varchar(191)
91. Loginsupplier
  1. IN param varchar(191)
  2. IN passwordparam varchar(191)
92. payloanv3
  1. IN idloanofflineparam varchar(128)
  2. IN paidoffdateparam datetime
  3. IN paidoffidmsuserofficerparam varchar(32)
  4. IN idmsusertransparam varchar(32)
93. Rejectnewsupplier
  1. IN idmssupplierrtempparam varchar(32)
94. Setbuyertofishcatch
  1. IN idtrfishcatchpostparam varchar(32)
  2. IN idmsbuyerparam varchar(32)
95. Tryloginqrcode
  1. IN qrcodeid varchar(32)
  2. IN emailparam varchar(128)
  3. IN passparam varchar(128)
96. updatebuyerv3
  1. IN idbuyerofflineparam varchar(128)
  2. IN idmssupplierparam varchar(32)
  3. IN name\_paramparam varchar(128)
  4. IN id\_paramparam varchar(32)
  5. IN businesslicense\_paramparam varchar(32)
  6. IN contact\_paramparam varchar(32)
  7. IN phonenumber\_paramparam varchar(20)

8. IN address\_paramparam text
9. IN idltusertypeparam int(11)
10. IN sex\_paramparam int(11)
11. IN nationalcode\_paramparam varchar(16)
12. IN country\_paramparam varchar(2)
13. IN province\_paramparam varchar(32)
14. IN city\_paramparam varchar(32)
15. IN district\_paramparam varchar(32)
16. IN completestreetaddress\_paramparam text
17. IN companynameparam varchar(64)
18. IN businesslicenseexpireddateparam datetime

#### 97. Updatecatchsupplier

1. IN idtrcatchparam varchar(32)
2. IN idtrcatchpostparam varchar(32)
3. IN idmssupplierparam varchar(32)
4. IN idmssuppliersellparam varchar(32)
5. IN idmsshipparam varchar(32)
6. IN idmsfishparam varchar(32)
7. IN varianceparam varchar(32)
8. IN dispatchnotephotoparam varchar(32)
9. IN priceperkgparam double
10. IN totalpriceparam double
11. IN locationparam varchar(32)
12. IN saildateparam datetime
13. IN postdateparam datetime

#### 98. updatecatchv5

1. IN idtrcatchofflineparam varchar(128)
2. IN idmssupplierparam varchar(32)
3. IN idfishermanofflineparam varchar(128)
4. IN idbuyerofflineparam varchar(128)
5. IN idshipofflineparam varchar(128)
6. IN idfishofflineparam varchar(128)
7. IN purchasedateparam date
8. IN purchasetimeparam time
9. IN catchorfarmedparam varchar(10)
10. IN bycatchparam varchar(1)
11. IN fadusedparam varchar(1)
12. IN purchaseuniquenoparam varchar(32)

13. IN productformatlandingparam varchar(10)
14. IN unitmeasurementparam varchar(10)
15. IN quantityparam float
16. IN weightparam float
17. IN fishinggroundareaparam varchar(10)
18. IN purchaselocationparam varchar(32)
19. IN uniquetripidparam varchar(32)
20. IN datetimevesseldepartureparam datetime
21. IN datetimevesselreturnparam datetime
22. IN portnameparam varchar(32)
23. IN priceperkgparam double
24. IN totalpriceparam double
25. IN loanexpenseparam double
26. IN otherexpenseparam double
27. IN postdateparam datetime
28. IN closeparams varchar(1)
29. IN idmsusercreatorparam varchar(32)
30. IN fishermannnameparam VARCHAR(191)
31. IN fishermanidparam VARCHAR(64)
32. IN fishermanregnumberparam VARCHAR(64)
33. updatecatchv4
34. IN idtrcatchofflineparam varchar(128)
35. IN idmssupplierparam varchar(32)
36. IN idfishermanofflineparam varchar(128)
37. IN idbuyerofflineparam varchar(128)
38. IN idshipofflineparam varchar(128)
39. IN idfishofflineparam varchar(128)
40. IN purchasedateparam date
41. IN purchasetimeparam time
42. IN catchorfarmedparam varchar(10)
43. IN bycatchparam varchar(1)
44. IN fadusedparam varchar(1)
45. IN purchaseuniquenoparam varchar(32)
46. IN productformatlandingparam varchar(10)
47. IN unitmeasurementparam varchar(10)
48. IN quantityparam float
49. IN weightparam float
50. IN fishinggroundareaparam varchar(10)

- 51. IN purchaselocationparam varchar(32)
  - 52. IN uniquetripidparam varchar(32)
  - 53. IN datetimedepartureparam datetime
  - 54. IN datetimedepartureparam datetime
  - 55. IN portnameparam varchar(32)
  - 56. IN priceperkgparam double
  - 57. IN totalpriceparam double
  - 58. IN loanexpenseparam double
  - 59. IN otherexpenseparam double
  - 60. IN postdateparam datetime
  - 61. IN closeparams varchar(1)
  - 62. IN idmsusercreatorparam varchar(32)
  - 63. IN notesparam text
99. updatedeliverybatchv2
- 1. IN iddeliveryofflineparam varchar(128)
  - 2. IN idtrcatchofflineparam varchar(128)
  - 3. IN totalpriceparam double
  - 4. IN descparamparam text
  - 5. IN sendtobuyerdateparam datetime
  - 6. IN deliverydateparam datetime
  - 7. IN transportbyparam varchar(10)
  - 8. IN transportnameidparam varchar(128)
  - 9. IN transportreceiptparam varchar(64)
  - 10. IN idmsbuyerparam varchar(32)
  - 11. IN deliverysheetofflineidparam text
100. updatedeliverypricev3
- 1. IN iddeliveryofflineparam varchar(128)
  - 2. IN totalpriceparam double
  - 3. IN idmsusercreatorparam varchar(32)
101. Updatedeliverysheet
- 1. IN deliverysheetofflineidparam text
  - 2. IN savedtextparam text
102. updatedeliveryv3
- 1. IN iddeliveryofflineparam varchar(128)
  - 2. IN totalpriceparam double
  - 3. IN descparamparam text
  - 4. IN settobuyerdateparam datetime
  - 5. IN idmsusercreatorparam varchar(32)

103. Updatefish
1. IN idfishofflineparam varchar(128)
  2. IN idltfishparam varchar(32)
  3. IN indnameparam varchar(128)
  4. IN localnameparam varchar(256)
  5. IN photoparam varchar(256)
  6. IN idmssupplierparam varchar(32)
  7. IN priceparam double
104. updatefishcatchv3
1. IN idtrfishcatchofflineparam varchar(128)
  2. IN amountparam float
  3. IN gradeparam varchar(5)
  4. IN descparam varchar(128)
  5. IN idmsusercreatorparam varchar(32)
105. Updatefishconfig
1. IN idtrfishconfigparam varchar(32)
  2. IN idmssupplierparam varchar(32)
  3. IN nameparam varchar(64)
  4. IN idmsfishparam varchar(32)
  5. IN gradeparam varchar(10)
  6. IN unitparam varchar(10)
  7. IN handlingparam varchar(10)
106. updatefishermanv3
1. IN idfishermanofflineparam varchar(128)
  2. IN nameparam varchar(128)
  3. IN bodparam datetime
  4. IN id\_paramparam varchar(16)
  5. IN sex\_paramparam varchar(1)
  6. IN nat\_paramparam varchar(2)
  7. IN address\_paramparam text
  8. IN phone\_paramparam varchar(20)
  9. IN jobtitle\_paramparam varchar(32)
  10. IN idmssupplierparam varchar(32)
  11. IN provinceparam varchar(64)
  12. IN districtparam varchar(64)
  13. IN cityparam varchar(64)
  14. IN fishermanregnumberparam varchar(64)
  15. IN countryparam varchar(64)

107. Updatefishpriceconfig
1. IN idtrfishpriceconfigparam varchar(32)
  2. IN idtrfishconfigparam varchar(32)
  3. IN idtrcatchparam varchar(32)
108. updateloanv5
1. IN idloanofflineparam varchar(128)
  2. IN descloanparam text
  3. IN loaninrpparam double
  4. IN idmsuserloanparam varchar(32)
  5. IN idmsbuyerloanparam varchar(32)
  6. IN idmssupplierparam varchar(32)
  7. IN loandateparam datetime
  8. IN loaneridmsuserofficerparam varchar(32)
  9. IN idmsusercreatorparam varchar(32)
  10. IN idmstypeitemloanofflineparam varchar(128)
  11. IN unitparam varchar(32)
  12. IN priceperunitparam float
  13. IN idfishermanofflineparam varchar(128)
  14. IN idbuyerofflineparam varchar(128)
109. Updateltfish
1. IN idltfishparam int(11)
  2. IN isscaapparam tinyint(4)
  3. IN taxocodeparam varchar(13)
  4. IN threea\_codeparam char(3)
  5. IN scientific\_nameparam varchar(38)
  6. IN english\_nameparam varchar(30)
  7. IN french\_nameparam varchar(30)
  8. IN spanish\_nameparam varchar(30)
  9. IN authorparam varchar(55)
  10. IN familyparam varchar(20)
  11. IN bio\_orderparam varchar(30)
  12. IN stats\_dataparam tinyint(1)
110. Updatemsinfo
1. IN supportinfoparam varchar(32)
  2. IN infodescparam text
111. Updateofficer
1. IN idparam varchar(32)
  2. IN nameparam varchar(191)

3. IN usernameparam varchar(191)
  4. IN emailparam varchar(191)
  5. IN phonenumparam varchar(191)
  6. IN passwordparam varchar(191)
  7. IN isadmintypeparam int(11)
  8. IN activeparam int(11)
  9. IN langparam varchar(2)
112. updatepayloanv4
1. IN idpayloanofflineparam varchar(128)
  2. IN idmsuserloanparam varchar(32)
  3. IN idmsbuyerloanparam varchar(32)
  4. IN idmssupplierparam varchar(32)
  5. IN descloanparam text
  6. IN loaninrpparam double
  7. IN paidoffdateparam varchar(32)
  8. IN paidoffidmsuserofficerparam varchar(32)
  9. IN idmsusertrans varchar(32)
  10. IN idfishermanofflineparam varchar(128)
  11. IN idbuyerofflineparam varchar(128)
113. updateshipv3
1. IN idshipofflineparam varchar(128)
  2. IN vesselname\_paramparam varchar(64)
  3. IN vessellicensenumbr\_paramparam varchar(32)
  4. IN vessellicenseexpireddate\_paramparam date
  5. IN fishinglicensenumbr\_paramparam varchar(32)
  6. IN fishinglicenseexpireddate\_paramparam date
  7. IN vesselsize\_paramparam int(11)
  8. IN vesselflag\_paramparam varchar(2)
  9. IN vesselgeartype\_paramparam varchar(128)
  10. IN vesseldatemade\_paramparam date
  11. IN vesselownername\_paramparam varchar(128)
  12. IN vesselownerid\_paramparam varchar(32)
  13. IN vesselownerphone\_paramparam varchar(20)
  14. IN vesselownersex\_paramparam varchar(1)
  15. IN vesselownerdob\_paramparam date
  16. IN vesselowneraddress\_paramparam text
  17. IN idmsuserparamparam varchar(32)
  18. IN vesselownerprovince\_paramparam varchar(32)



- 19. IN vesselownerdistrict\_paramparam varchar(32)
  - 20. IN vesselownercity\_paramparam varchar(32)
  - 21. IN vesselownercountry\_paramparam varchar(32)
  - 22. IN vessel\_idparam varchar(128)
114. Updatesupplier
- 1. IN idparam int(11)
  - 2. IN nameparam varchar(191)
  - 3. IN usernameparam varchar(191)
  - 4. IN emailparam varchar(191)
  - 5. IN phonenumparam varchar(191)
  - 6. IN passwordparam varchar(191)
  - 7. IN idltusertypeparam int(11)
  - 8. IN langparam varchar(2)
  - 9. IN activeparam int(11)
  - 10. IN natidparam varchar(2)
  - 11. IN supplieridparam varchar(128)
  - 12. IN genreparam varchar(1)
  - 13. IN addressparam varchar(128)
  - 14. IN provinceparam varchar(64)
  - 15. IN cityparam varchar(64)
  - 16. IN districtparam varchar(64)
  - 17. IN businesslicenseparam varchar(128)
  - 18. IN personalidcardparam varchar(64)
  - 19. IN supplieridexpiredlicensedateparam date
115. Updatesupplierofficer
- 1. IN idmssupplierparam varchar(32)
  - 2. IN idparam varchar(32)
  - 3. IN nameparam varchar(191)
  - 4. IN usernameparam varchar(191)
  - 5. IN emailparam varchar(191)
  - 6. IN phonenumparam varchar(191)
  - 7. IN passwordparam varchar(191)
  - 8. IN isadmintypeparam int(11)
  - 9. IN activeparam int(11)
  - 10. IN langparam varchar(2)
  - 11. IN accessparam varchar(10)
  - 12. IN accessroleparam varchar(32)
116. Updatetypeitemloan

1. IN idmstypeitemloanofflineparam varchar(128)
  2. IN typenameparam varchar(32)
  3. IN unitparam varchar(32)
  4. IN priceperunitparam float
  5. IN idmssupplierparam varchar(32)
  6. IN idmsuserparam varchar(32)
117. Updateuserspassword
1. IN idparam int(11)
  2. IN passwordparam varchar(191)

Stored functions and the parameters are listed as below:

118. createidfishv2
119. getdeliversheetbyiddelivery
  1. IN idparam varchar(32)
120. getfishnamebyidtrcatch
  1. IN idparam varchar(32)
121. getfishnamebyidtrfishcatch
  1. IN idparam varchar(32)
122. getidmsuserfisherman
  1. IN idparam varchar(32)
123. getidsupplierbossbyidmsuser
  1. IN idparam varchar(32)
124. getidtrcatchbyidtrfishcatch
  1. IN idparam varchar(32)
125. getloanbyidmssuppliernidmsbuyer
  1. IN idmssupplierparam varchar(32)
  2. IN idmsbuyerparam varchar(32)
126. getloanbyidmssuppliernidmsuser
  1. IN idmssupplierparam varchar(32)
  2. IN idmsuserparam varchar(32)
127. getnamebuyer
  1. IN idparam varchar(32)
128. getnamebuyeroffline
  1. IN idparam varchar(128)
129. getnamefisherman
  1. IN idparam varchar(32)
130. getnamefishermanoffline
  1. IN idparam varchar(128)

- 131. getnameship
  - 1. IN idparam varchar(32)
- 132. getnamesupplier
  - 1. IN idparam varchar(32)
- 133. getnameuser
  - 1. IN idparam varchar(32)
- 134. getnewidmssupplier
- 135. getnewidmsuser
- 136. getpayloanbyidmssuppliernidmsbuyer
  - 1. IN idmssupplierparam varchar(32)
  - 2. IN idmsbuyeraram varchar(32)
- 137. getpayloanbyidmssuppliernidmsuser
  - 1. IN idmssupplierparam varchar(32)
  - 2. IN idmsuserparam varchar(32)
- 138. gettypebuyer
  - 1. IN idparam varchar(32)
- 139. gettypeuser
  - 1. IN idparam varchar(32)
- 140. getuuid

---

## 4. SPECIFICATIONS – MOBILE APP

---

### 4.1 Modules

The Mobile Application is developed based on the React Native framework with modules as specified below:

#### 1. Framework Modules

For accelerated Android application development, we used these basic framework modules:

- axios version 0.18.0
- base32 version 0.0.6
- lodash version 4.17.10
- moment version 2.22.1
- normalizr version 3.2.4
- qs version 6.5.2
- react version 16.3.1
- react-native version 0.55.3
- react-native-bcrypt version 2.4.0
- react-native-camera version 1.1.2
- react-native-check-box version 2.1.0
- react-native-datepicker version 1.7.2
- react-native-html-to-pdf version 0.6.0
- react-native-maps version 0.21.0
- react-native-material-textfield version 0.12.0
- react-native-material-ui version 1.22.3
- react-native-print version 0.5.0
- react-native-qrcode version 0.2.6
- react-native-qrcode-scanner version 1.0.1
- react-native-scrollable-tab-view version 0.8.0
- react-native-sms version 1.5.2
- react-native-sqlite-storage version 3.3.5
- react-native-vector-icons version 4.6.0
- react-navigation version 2.0.1

- react-redux version 5.0.7
- redux version 4.0.0
- redux-storage version 4.1.2
- redux-storage-decorator-filter version 1.1.8
- redux-storage-engine-reactnativeasyncstorage version 1.0.5
- redux-thunk version 2.2.0

## 2. Apps Modules

Internally we created modules based on user interface screens, and here are the list:

- Buyer module
- Catch module
- Delivery module
- Fish module
- Fisherman module
- Loan module
- Maps module
- QR code generation module
- Report module
- Ship module
- Supplier module
- Login module
- Registration module
- Settings module
- Home module

## 3. Server Communication Modules

For server communication, we develop these modules:

- AppActions module
  - Responsible for Application Programming Interface calls and response management
- Json module
  - Responsible for API response parsing
- Local data module
  - Responsible for management of local data embedded withing the Android application in Sqlite database

#### 4. Others modules

Other modules in the app:

- Camera module
  - Responsible for retrieving image from device's camera and all camera related operation
- Language module
  - Responsible for multi language user interface management
- Map module
  - Responsible to retrieve grid & mdpi code for fishing location

---

## 4.2 File Structure

Modules above will be implemented in javascript files. Below is the overview of folder/files structure for project Trafiz with self-explanatory descriptions:

```
[start]
./src/
├── actions
│   └── AppActions.js
├── App.js
├── buyer
│   ├── Detail.js           // Create/edit/delete buyer page
│   └── List.js             // Buyer listing page
├── Camera.js               // Camera module
├── catch
│   ├── AddOneCatchList.js  // Fish input page
│   ├── CalcCatchListValue.js // Set fish buy price page
│   ├── CatchList.js       // Catch list page
│   ├── CreateData.js      // Create catch form page
│   ├── DuplicateCatch.js  // Duplicate catch form page
│   ├── EditData.js        // Edit catch form page
│   ├── EditOneCatchList.js // Edit fish in catch list page
│   ├── List.js            // List of catch page
│   ├── PreCalc.js         // Buy price calculator page
│   └── SelectPlayer.js    // Select source of catch page
├── delivery
│   ├── AddDelivery.js      // Add empty open batch delivery page
│   ├── CalcPrice.js        // Set sell price page
│   ├── CatchListClose.js  // Catch list for closed batch delivery page
│   ├── CatchList.js       // Catch list for open batch delivery page
│   ├── Close.js           // Close open batch delivery page
│   ├── DeliverySheet.js   // Delivery sheet / QRCode / Print page
│   ├── ListClose.js       // List of closed batch delivery page
│   ├── List.js            // Tabs page contain: list open & closed batch delivery
│   ├── ListOpen.js        // List of open batch delivery page
│   ├── PreCalc.js         // Sell price calculator page
│   └── Select.js          // Select delivery page. Called from catch page.
├── dictionary.js          // Multi language module
├── fish
│   ├── Detail.js          // Create/edit/delete fish page
│   ├── List.js            // Fish listing page
│   ├── ListSelect.js      // Fish select page. Called from catch page
│   └── Search.js          // Search fish from master database
├── fisherman
│   ├── Detail.js          // Create/edit/delete fisherman page
│   └── List.js            // Fisherman listing page
```

- |— Gears.js // Vessel gear type master database
- |— Home.js
- |— json
  - | |— country2prov.json // Country to province json database
  - | |— grid.json // Fishing location, grid & mdpi code json database
  - | |— prov2city.json // Province to city json database
- |— lib.js
- |— loan
  - | |— AddItem.js // Lend item page
  - | |— EditItem.js // Edit loaned item page
  - | |— ListCheckItems.js // Strike loaned item page
  - | |— ListItems.js // List loaned item page
  - | |— List.js // Borrower list page
  - | |— ListNew.js // Select fisherman/supplier as borrower page
  - | |— Pay.js // Pay loan page
  - | |— SelectType.js // Create/delete & list of loan item type
- |— Login.js
- |— logo.png
- |— Map.js // map module
- |— maps // contain map image resources
  - | |— fullmap.jpg
  - | |— m0-0.jpg
  - | |— m0-1.jpg
  - | |— m0-2.jpg
  - | |— m1-0.jpg
  - | |— m1-1.jpg
  - | |— m1-2.jpg
  - | |— m2-0.jpg
  - | |— m2-1.jpg
  - | |— m2-2.jpg
  - | |— m3-0.jpg
  - | |— m3-1.jpg
  - | |— m3-2.jpg
  - | |— m4-0.jpg
  - | |— m4-1.jpg
  - | |— m4-2.jpg
  - | |— m5-0.jpg
  - | |— m5-1.jpg
  - | |— m5-2.jpg
- |— myCtl.js
- |— MyPicker.js
- |— MySelect.js
- |— Navicon.js
- |— Navigation.js
- |— others
  - | |— ChangeLang.js // change language page
  - | |— ChangePin.js // change pin page



```

|   |─ EditProfile.js          // edit profile page
|   |─ Help.js                // help page
|   └─ Pause.js
|   └─ QRPage.js              // show qrcode module
|   └─ reducers
|       └─ AppReducer.js
|       └─ DataReducer.js
|       └─ index.js
|       └─ LoginReducer.js
|       └─ SettingReducer.js
|       └─ TaskReducer.js
|   └─ Register.js
|   └─ report
|       └─ BuyDetail.js        // expense/buy report detail page
|       └─ FishermanSupplierFilter.js // fisherman/supplier report filter page
|       └─ FishermanSupplierReport.js // fisherman/supplier report page
|       └─ FishermanSupplierTabs.js // fisherman/supplier report detail page
|       └─ List.js             // list report page
|       └─ LoanDetail.js       // loan report detail page
|       └─ Loan.js             // loan report page
|       └─ LoanTabs.js         // loan & payloan tabs page
|       └─ PayLoanDetail.js    // payloan detail page
|       └─ SaleDetail.js       // income report detail page
|       └─ SaleFilter.js       // fisherman/supplier filter page
|       └─ Sale.js             // income report page
|       └─ SaleTabs.js         // expense & income tabs page
|   └─ SettingPanel.js
|   └─ ship
|       └─ Detail.js           // create/edit/delete vessel page
|       └─ List.js             // vessel list page
|       └─ ListSelect.js       // select vessel page. called from catch.
|   └─ space.js
|   └─ Sqlite.js              // master fish sqlite module
|   └─ supplier
|       └─ Detail.js           // create/edit/delete supplier page
|       └─ List.js             // supplier list page
|   └─ SynchScreen.js         // synchronization page
[end]

```

---

## 4.3 Local Database

There are some local database to support the mobile side operation. The database and its structure can be found at:

1. Master fish database. Path is in [project]/www/ltfish.sqlite.
2. Vessel gear type database. Path is in [project]/src/Gears.js
3. Map grid/mdpi database. Path is in [project]/src/json/grid.json
4. Country/province/city database. Path is in [project]/src/json/country2prov.json and [project]/src/json/prov2city.json
5. Language database. Path is in [project]/src/dictionary.js

---

## 4.4 Delivery Sheet Format

Trafiz application will generate delivery sheet information in qrcode format and pdf print. Both will follow the same format with some additional data at print.

### QR Code / Master Format

Delivery sheet will be divided to three parts: header1, header2, and content. Please find below the format for the QR Code, which will be also applied for the print.

Header1 will contain supplier/general data, the format is like below:

```
deliverySheetNo;nationalRegistrationSupplierCode;deliveryDate
```

All data in deliverysheet will be grouped into same vessel information. Vessel information will be in header2. The format is like below:

```
#vesselName;vesselSize;vesselRegistrationNo;expiredDate;vesselFlag;fishingGround;gearType;landingSite;landingDate;fishermanName[enter character]
```

Header1 and header2 will be joined, followed by fish data as content. Content format is like below:

```
#idfish1,species1,grade1,unitName1,weight1#idfish2,species2,grade2,unitName2,weight2#idfishN,speciesN,gradeN,unitNameN,weightN[enter character]
```

The content will be repeated until max. 30 data fish, or max. 1024 character. If length is not enough, a new qrcode will be generated for remaining data with the same

structure (repeated Header 1 and Header 2, continued by the contents). All data is concatenated together, except specified by [enter character] separator.

### **Delivery Sheet Print Format**

For pdf print, the information structure, pagination (number of pages), and the number of contents per page, will follow the QR Code Format.

Except at the end of a page, there will be a footer that contain summary of fish grade and weight.

---

## 5. SPECIFICATIONS – WEB APP

---

### 5.1 Modules

The Web Application is built based on the Laravel with Bootstrap/jQuery as the main framework, supported with few other modules. Modules are specified below:

#### 1. Framework Modules

For web content management system, we used these third party modules:

- Laravel version 5.6.20 for PHP framework
- jQuery version 3.2.1 for scripting support
- Bootstrap version 3.1.1 for web layouting
- DataTables version 1.10.15 for data display and layouting
- AdminLTE version 2.4.0 for web layouting
- Moment version 2.18.1 for date and time display
- Font Awesome version 4.7.0 for icon and glyph display

#### 2. Apps

Internally we created the following modules for our CMS:

- Dashboard module
  - For web dashboard screen display
- Administrative Officer module
  - For administrative officer management
- Supplier module
  - For supplier / first buyer management
- Fish catch report module
  - For fish catch key data element report
- Transaction report module
  - For all transaction reporting
- Loan report module
  - For reporting regarding loan
- Report log module
  - Displays log of all client actions, used primarily for troubleshooting
- Support information module
  - For managing support information that should be displayed on the Android application
- Ship report module

- For all ship report
- Fisherman report module
  - For all fisherman related reporting
- Fish master data module
  - For displaying fish master data (ASFIS)
- Fish data module
  - For management of fish regional data that entered by Android application users
- Fish traceability module
  - For fish traceability information

---

## 5.2 File Structure

Below is the overview of web application folder/files structure with the self-explanatory descriptions:

[start]

./trafiz/

```

├── .env // setting environment
├── composer.json // Setup composer Requirement
├── app
│   ├── User.php // fillable Authentication
│   ├── Exceptions
│   │   ├── Handler.php // handler exception
│   ├── Http
│   │   ├── Controllers
│   │   │   ├── ApiController.php // API Controller
│   │   │   ├── FishCatchController.php // Fishcatch Controller
│   │   │   ├── FishController.php // Fish Database Controller
│   │   │   ├── FishermanController.php // fisherman controller
│   │   │   ├── HomeController.php // Dashboard controller
│   │   │   ├── InfoController.php // info controller
│   │   │   ├── LoanController.php // loan controller
│   │   │   ├── OfficerController.php // Officer Controller
│   │   │   ├── ReportTransactionController.php // Report Transaction Controller
│   │   │   ├── ShipController.php // Ship Controller
│   │   │   ├── SupplierController.php // Supplier Controller
│   │   │   ├── SyncController.php // Sync Controller
│   │   │   ├── WelcomeController.php // landing page Controller
│   │   │   └── ForgotPasswordController.php // Forgot Password Controller

```

- | | | | — LoginController.php // Login Controller
- | | | | — RegisterController.php // Registration Controller
- | | | | — ResetPasswordController.php // Reset Password Controller
- | | | — Middleware
  - | | | | — RedirectIfAuthenticated.php // redirect middleware
  - | | | | — VerifyCsrfToken.php // whitelist url where you can access without login
- | | — lib
  - | | | — buyertable.php // database operation for buyer
  - | | | — buyfishtable.php // database operation for buy Fish
  - | | | — delivertable.php // database operation for Delivery
  - | | | — fishermantable.php // database operation for Fisherman
  - | | | — fishtable.php // database operation for Fish data
  - | | | — Helper.php // various Helper function
  - | | | — loantable.php // database operation for loan
  - | | | — officertable.php // database operation for officer
  - | | | — sailtable.php // database operation for sail
  - | | | — shiptable.php // database operation for ship
  - | | | — suppliertable.php // database operation for supplier
  - | | | — synctable.php // database operation for sync
  - | | | — usertable.php // database operation for User
- | — config
  - | | — app.php // class / plugin collection
  - | | — dompdf.php // PDF setup
  - | | — hashing.php // hashing method setup
  - | | — mail.php // mail & smtp setup
  - | | — session.php // session setup
- | — public
  - | | — favicon.ico
  - | | — index.php
  - | | — web.config
  - | | — img
    - | | | — bg.jpg
    - | | | — logo.png
    - | | | — logoSquare.png
  - | | — imgupload // image upload directory
- | — resources
  - | | — lang
    - | | | — en // translation for english

- | | | |— auth.php
- | | | |— menu.php
- | | | |— msg.php
- | | | |— pagination.php
- | | | |— passwords.php
- | | | |— validation.php
- | | |— id // translation for Bahasa Indonesia
- | | |— auth.php
- | | |— menu.php
- | | |— msg.php
- | | |— pagination.php
- | | |— password.php
- | | |— validation.php
- | |— views
  - | |— fishcatchreport.blade.php // view for fish catch report
  - | |— fishcatchreportprint.blade.php // view for fish catch report PDF
  - | |— fishermanreport.blade.php // view for Fisherman Report
  - | |— fishkdedetail.blade.php // view for KDE Detail
  - | |— fishmaster.blade.php // view for Fish Data master
  - | |— fishreport.blade.php // view for Fish Report
  - | |— home.blade.php // view for Home dashboard
  - | |— infotable.blade.php // view for information
  - | |— loanreport.blade.php // view for loan Report
  - | |— loanreportprint.blade.php // view for Loan Report PDF
  - | |— loanreportsupplier.blade.php // view for Loan Report for Supplier
  - | |— officer.blade.php // view for Officer
  - | |— regis.blade.php // view for Registration
  - | |— reportlog.blade.php // view for Report Log
  - | |— reporttransaction.blade.php // view for Report Transaction
  - | |— reporttransactionprint.blade.php // view for Report Transaction PDF
  - | |— shipreport.blade.php // view for Ship Report
  - | |— supplier.blade.php // view for Supplier
  - | |— supplieraccept.blade.php // view for Supplier registration from apps
  - | |— supplieredit.blade.php // view for Supplier Edit
  - | |— supplierofficer.blade.php // view for Supplier Helper
  - | |— welcome.blade.php // view for Landing Page
  - | |— layouts
    - | |— admin.blade.php // view for fishcatchreport

|                   └─ app.blade.php // view for fishcatchreport  
└─ routes  
    └─ web.php // routing website



---

## 6. API LIST

### 1) Login and Registration

---

1. loginsupplier [POST] = API for login from the Mobile App
  1. identity = fill with registered username or celular number
  2. password = fill with registered password
  
2. regisupplier2 [POST] = API for registering supplier from the Mobile App
  1. Name = Fill with full name
  2. Username = Fill with username
  3. Email = fill with active email
  4. Phonenummer = fill with active cellular number
  5. Supplierid = fill with national supplier id
  6. Password = fill with password
  7. Natidtype = fill with 2 character nationality (ex : ID, SG, US)
  8. Lang = fill language with 2 character (ex: ID, US, UK)
  9. Genre = fill with Genre code 0: woman; 1: man
  10. address = fill with address
  11. city = fill with city name
  12. district = fill with district name
  13. province = fill with province name
  14. businesslicense = fill with business license id
  15. natidcode = fill with Resident Identity Card Number
  16. supplieridexpireddate = fill with business license id expired date

### 2) Fisherman

---

1. addnewfishermanv2 = API for Register fisherman from Mobile Apps
  - (1) idfishermanofflineparam = fill with idfishermanoffline id
  - (2) nameparam = fill with fisherman name
  - (3) bodparam = fill with fisherman birth of date
  - (4) id\_paramparam = fill with Resident Identity Card Number
  - (5) sex\_paramparam = fill with Genre code 0: woman; 1: man

- (6) nat\_param = fill with 2 character nationality (ex : ID, SG, US)
  - (7) address\_param = fill with address
  - (8) phone\_param = fill with active cellular number
  - (9) jobtitle\_param = fill with job title
  - (10) idmssupplier\_param = fill with idmssupplier that fisherman registered
  - (11) province\_param = fill with province name
  - (12) district\_param = fill with district name
  - (13) city\_param = fill with city name
2. updatefishermanv2 = API for update Fisherman from mobile apps
- (1) idfishermanoffline\_param = fill with idfishermanoffline id
  - (2) name\_param = fill with fisherman name
  - (3) bod\_param = fill with fisherman date of birth
  - (4) id\_param = fill with Resident Identity Card Number
  - (5) sex\_param = fill with Genre code 0: woman; 1: man
  - (6) nat\_param = fill with 2 character nationality (ex : ID, SG, US)
  - (7) address\_param = fill with address
  - (8) phone\_param = fill with active cellular number
  - (9) jobtitle\_param = fill with job title
  - (10) idmssupplier\_param = fill with idmssupplier that fisherman registered
  - (11) province\_param = fill with province name
  - (12) district\_param = fill with district name
  - (13) city\_param = fill with city name
3. deletefisherman = API for delete Fisherman from mobile apps
- (1) idfishermanoffline\_param = fill with idfishermanoffline id
4. getfishermanbyidmsuser [GET] = API to get Fisherman data from mobile apps
- (1) GET['id'] = fill with supplier's idmsuser

### 3) Ship/Vessel

---

1. addnewship = API for Register ship vessel from Mobile Apps
  - (1) Idshipoffline = fill with idshipoffline id
  - (2) vesselname\_param = fill with ship name
  - (3) vessellicensenummer\_param = fill with ship license number
  - (4) vessellicenseexpireddate\_param = fill with ship license expired date
  - (5) fishinglicensenummer\_param = fill with fishing license number
  - (6) fishinglicenseexpireddate\_param = fill with fishing expired date
  - (7) vesselsize\_param = fill with ship size capacity
  - (8) vesselflag\_param = fill with ship flag 2 character (ex: ID, SG, US)
  - (9) vesselgeartype\_param = fill with ship gear type code
  - (10)vesseldatemade\_param = fill with ship date made
  - (11)vesselownername\_param = fill with ship owner name
  - (12)vesselownerid\_param = fill with ship owner Resident Identity Card Number
  - (13)vesselownerphone\_param = fill with ship owner phone
  - (14)vesselownersex\_param = fill with ship owner genre code 0: woman; 1: man
  - (15)vesselownerdob\_param = fill with ship owner date of birth
  - (16)vesselowneraddress\_param = fill with ship owner address
  - (17)idmsuserparam = fill with ship owner supplier's idmsuser
2. updateship = API for update Ship from mobile apps
  - (1) Idshipoffline = fill with idshipoffline
  - (2) vesselname\_param = fill with ship name
  - (3) vessellicensenummer\_param = fill with ship license number
  - (4) vessellicenseexpireddate\_param = fill with ship license expired date
  - (5) fishinglicensenummer\_param = fill with fishing license number
  - (6) fishinglicenseexpireddate\_param = fill with fishing expired date
  - (7) vesselsize\_param = fill with ship size capacity
  - (8) vesselflag\_param = fill with ship flag 2 character (ex: ID, SG, US)
  - (9) vesselgeartype\_param = fill with ship gear type code
  - (10)vesseldatemade\_param = fill with ship date made

- (11)vesselownername\_param = fill with ship owner name
- (12)vesselownerid\_param = fill with ship owner Resident Identity Card Number
- (13)vesselownerphone\_param = fill with ship owner phone
- (14)vesselownersex\_param = fill with ship owner genre code 0: woman; 1: man
- (15)vesselownerdob\_param = fill with ship owner date of birth
- (16)vesselowneraddress\_param = fill with ship owner address
- (17)idmsuserparam = fill with ship owner supplier's idmsuser

- 3. deleteship = API for delete ship from mobile apps
  - (1) idshipofflineparam = fill with idshipoffline
- 4. getshipbyidmsuser [GET] = API for get ship from mobile apps
  - (1) GET['id'] = fill with supplier's idmsuser

#### 4) Fish (types)

---

- 1. Addnewfish = API for add fish from mobile apps
  - (1) Idfishofflineparam = fill with idfishoffline
  - (2) Idltfishparam = fill with idltfish
  - (3) Indnameparam = fill with Indonesian fish name
  - (4) Photoparam = fill with photo location in server (you can get it from upload image return value)
  - (5) Localnameparam = fill with local fish name
  - (6) Idmssupplierparam = fill with idmssupplier
  - (7) Priceparam = fill with price number
- 2. Updatefish = API for update fish from mobile apps
  - (1) Idfishofflineparam = fill with idfishoffline
  - (2) Idltfishparam = fill with idltfish
  - (3) Indnameparam = fill with Indonesian fish name
  - (4) Photoparam = fill with photo location in server (you can get it from upload image return value)
  - (5) Localnameparam = fill with local fish name

- (6) Idmssupplierparam = fill with idmssupplier
- (7) Priceparam = fill with price number
- 3. Deletefish = API for delete fish from mobile apps
  - (1) Idfishofflineparam = fill with idfishoffline
- 4. getfishbyidmsuser [GET] = API for get fish from mobile apps
  - (1) GET['id'] = fill with supplier's idmsuser

## 5) Buyer

---

- 1. Addnewbuyer = API for register buyer from mobile apps
  - (1) Idbuyeroffline = fill with idbuyeroffline
  - (2) Idmssupplier = fill with idmssupplier
  - (3) name\_param = fill with buyer name
  - (4) id\_param = fill with Resident Identity Card Number
  - (5) businesslicense\_param = fill with Business license number
  - (6) contact\_param = fill with contact person name
  - (7) phonenumber\_param = fill with contact person phone number
  - (8) address\_param = fill with contact person address
  - (9) idtuser type = fill with 1: supplier; 4: buyer
  - (10)sex\_param = fill with Genre code 0: woman; 1: man
  - (11)nationalcode\_param = fill with national buyer code
  - (12)country\_param = fill with country name
  - (13)province\_param = fill with province name
  - (14)city\_param = fill with city name
  - (15)district\_param = fill with district name
  - (16)completestreetaddress\_param = fill with address
- 2. updatebuyer = API for update buyer from mobile apps
  - (1) Idbuyeroffline = fill with idbuyeroffline
  - (2) Idmssupplier = fill with idmssupplier
  - (3) name\_param = fill with buyer name

- (4) id\_param = fill with Resident Identity Card Number
  - (5) businesslicense\_param = fill with Business license number
  - (6) contact\_param = fill with contact person name
  - (7) phonenumber\_param = fill with contact person phone number
  - (8) address\_param = fill with contact person address
  - (9) idtuser\_type = fill with 1: supplier; 4: buyer
  - (10)sex\_param = fill with Genre code 0: woman; 1: man
  - (11)nationalcode\_param = fill with national buyer code
  - (12)country\_param = fill with country name
  - (13)province\_param = fill with province name
  - (14)city\_param = fill with city name
  - (15)district\_param = fill with district name
  - (16)completestreetaddress\_param = fill with address
- 3. deletebuyer = API for delete buyer from mobile apps
    - (1) idbuyerofflineparam = fill with idbuyeroffline
  - 4. getbuyerlistbyidmsuser [GET] = API for get buyer from mobile apps
    - (1) GET['id'] = fill with supplier's idmsuser

## 6) Loan

---

- 1. addnewloanv2 = API for add loan from mobile apps
  - (1) idloanofflineparam = fill with idloanoffline
  - (2) descparam = fill with loan description
  - (3) rpparam = fill with loan price
  - (4) idmsuserloanparam = fill with fisherman's idmsuser (if loaner is fisherman)
  - (5) idmsbuyerloanparam = fill with buyer's idmsbuyer (if loaner is buyer)
  - (6) idmssupplierparam = fill with idmssupplier
  - (7) loandateparam = fill with loan date
  - (8) loaneridmsuserofficerparam = fill with with supplier / helper idmsuser
- 2. updateloanv2 = API for update loan from mobile apps

- (1) idloanofflineparam = fill with idloanoffline
  - (2) descparam = fill with loan description
  - (3) rpparam = fill with loan price
  - (4) idmsuserloanparam = fill with fisherman's idmsuser (if loaner is fisherman)
  - (5) idmsbuyerloanparam = fill with buyer's idmsbuyer (if loaner is buyer)
  - (6) idmssupplierparam = fill with idmssupplier
  - (7) loandateparam = fill with loan date
  - (8) loaneridmsuserofficerparam = fill with with supplier / helper idmsuser
3. deleteloanv2 = API for delete loan from mobile apps
    - (1) idloanofflineparam = fill with idloanoffline
  4. getloanlistbyidmssupplier = API for get loan from mobile apps
    - (1) GET['id'] = fill with idmssupplier
    - (2) GET['m'] = fill with month (-1 for all month in 1 year)
    - (3) GET['y'] = fill with year

## 7) Pay Loan

---

1. payloanv2 = API for payloan (strike) from mobile apps
  - (1) idloanofflineparam = fill with idloanoffline
  - (2) paidoffdateparam = fill with paid off date
  - (3) paidoffidmsuserofficerparam = fill with with supplier / helper idmsuser
2. cancelpayloanv2 = API for cancel payloan (strike) from mobile apps
  - (1) idloanofflineparam = fill with idloanoffline
3. addpayloanv2 = API for add payloan info from mobile apps
  - (1) idpayloanofflineparam = fill with idpayloanoffline
  - (2) idmsuserloanparam = fill with fisherman's idmsuser (if loaner is fisherman)
  - (3) idmsbuyerloanparam = fill with buyer's idmsbuyer (if loaner is buyer)
  - (4) idmssupplierparam = fill with idmsupplier
  - (5) descparam = fill with description
  - (6) rpparam = fill with pay price

- (7) paiddateparam = fill with paid date
  - (8) paidoffidmsuserofficerparam = fill with with supplier / helper idmsuser
4. updatepayloanv2 = API for update payloan info from mobile apps
- (1) idpayloanofflineparam = fill with idpayloanoffline
  - (2) idmsuserloanparam = fill with fisherman's idmsuser (if loaner is fisherman)
  - (3) idmsbuyerloanparam = fill with buyer's idmsbuyer (if loaner is buyer)
  - (4) idmssupplierparam = fill with idmsupplier
  - (5) descparam = fill with description
  - (6) rpparam = fill with pay price
  - (7) paiddateparam = fill with paid date
  - (8) paidoffidmsuserofficerparam = fill with with supplier / helper idmsuser
5. deletepayloanv2= API for delete payloan info from mobile apps
- (1) idpayloanofflineparam = fill with idpayloanoffline
6. getpayloanlistbyidmssupplier [GET] = API for get payloan info from mobile apps
- (1) GET['id'] = fill with idmssupplier
  - (2) GET['m'] = fill with month (-1 for all month in 1 year)
  - (3) GET['y'] = fill with year
7. getloanernloanbyidmssupplier [GET] = API for get loan and payloan info from mobile apps
- (1) GET['id'] = fill with idmssupplier

## 8) Catch (Batch)

---

1. addcatchv4 = API for add catch from mobile apps
- (1) idtrcatchofflineparam = fill with idtrcatchoffline
  - (2) idmssupplierparam = fill with idmssupplier
  - (3) idfishermanofflineparam = fill with idfishermanoffline (if catch by fisherman)
  - (4) idbuyerofflineparam = fill with idbuyeroffline (if buy by buyer)
  - (5) idshipofflineparam = fill with idshipoffline
  - (6) idfishofflineparam = fill with idfishoffline



- (7) purchasedateparam = fill with purchase date
- (8) purchasetimeparam = fill with purchase time
- (9) catchorfarmedparam = fill with 0:catch;1:farmed fish
- (10)bycatchparam = fill with with 0:no bycatch; 1: bycatch
- (11)fadusedparam = fill with 0:no fad user; 1:fad used
- (12)purchaseuniquenoparam = fill with purchase unique number
- (13)productformatlandingparam = fill with product format landing
- (14)unitmeasurementparam = fill with unit measurement
- (15)quantityparam = fill with quantity
- (16)weightparam = fill with weight
- (17)fishinggroundareaparam = fill with fishing ground area code
- (18)purchaselocationparam = fill with purchase location
- (19)uniquetripidparam = fill with unique trip id
- (20)datetimevesseldepartureparam = fill with datetime vessel departure
- (21)datetimevesselreturnparam = fill with datetime vessel return
- (22)portnameparam = fill with portname
- (23)priceperkgparam = fill with price per kg
- (24)totalpriceparam = fill with total price
- (25)loanexpenseparam = fill with loan expense price
- (26)otherexpenseparam = fill with other expense price
- (27)postdateparam = fill with post date
- (28)idmsusercreatorparam = fill with supplier's idmsuser
- (29)notesparam = fill with notes

## 2. updatecatchv4= API for update catch from mobile apps

- (1) idtrcatchofflineparam = fill with idtrcatchoffline
- (2) idmssupplierparam = fill with idmssupplier
- (3) idfishermanofflineparam = fill with idfishermanoffline (if catch by fisherman)
- (4) idbuyerofflineparam = fill with idbuyeroffline (if buy by buyer)
- (5) idshipofflineparam = fill with idshipoffline
- (6) idfishofflineparam = fill with idfishoffline
- (7) purchasedateparam = fill with purchase date
- (8) purchasetimeparam = fill with purchase time

- (9) catchorfarmedparam = fill with 0:catch;1:farmed fish
- (10)bycatchparam = fill with 0:no bycatch; 1: bycatch
- (11)fadusedparam = fill with 0:no fad user; 1:fad used
- (12)purchaseuniquenoparam = fill with purchase unique number
- (13)productformatlandingparam = fill with product format landing
- (14)unitmeasurementparam = fill with unit measurement
- (15)quantityparam = fill with quantity
- (16)weightparam = fill with weight
- (17)fishinggroundareaparam = fill with fishing ground area code
- (18)purchaselocationparam = fill with purchase location
- (19)uniquetripidparam = fill with unique trip id
- (20)datetimevesseldepartureparam = fill with datetime vessel departure
- (21)datetimevesselreturnparam = fill with datetime vessel return
- (22)portnameparam = fill with portname
- (23)priceperkgparam = fill with price per kg
- (24)totalpriceparam = fill with total price
- (25)loanexpenseparam = fill with loan expense price
- (26)otherexpenseparam = fill with other expense price
- (27)postdateparam = fill with post date
- (28)closeparam = fill with 0: open; 1:close
- (29)idmsusercreatorparam = fill with supplier's idmsuser
- (30)notesparam = fill with notes

3. deletecatch = API for delete catch from mobile apps

- (1) idtrcatchofflineparam = fill with idtrcatchoffline

4. getcatchv2 [GET] = API for get all catch

- (1) GET['m'] = fill with month (-1 for all month in 1 year)
- (2) GET['y'] = fill with year

5. getcatchbyidmssupplierv2 = API for get all catch

- (1) GET['id'] = fill with idmssupplier

6. getv6bysup [GET] = API for get all catch only for last month until now
  - (1) GET['id'] = fill with idmssupplier

## 9) Catch (Detail per fish)

---

1. Addfishcatchv3 = API for add fish catch from mobile apps
  - (1) idtrcatchofflineparam = fill with idtrcatchoffline
  - (2) idtrfishcatchofflineparam = fill with idtrfishcatchoffline
  - (3) amountparam = fill with amount
  - (4) gradeparam = fill with grade
  - (5) descparam = fill with description
  - (6) idfishparam = fill with idfish
2. updatefishcatchv3 = API for update fish catch from mobile apps
  - (1) idtrfishcatchofflineparam = fill with idtrfishcatchoffline
  - (2) amountparam = fill with amount
  - (3) gradeparam = fill with grade
  - (4) descparam = fill with description
3. deletefishcatch = API for delete fish catch from mobile apps
  - (1) idtrcatchofflineparam = fill with idtrcatchoffline
4. setbuyertofishcatch = API for set buyer to fish catch from mobile apps
  - (1) idtrfishcatchpostparam = fill with idtrcatch
  - (2) idmsbuyerparam = fill with idmsbuyer

## 10) Delivery

---

1. addnewdeliveryv3 = API for add delivery from mobile apps
  - (1) iddeliveryoffline = fill with iddeliveryoffline
  - (2) idtrfishcatchoffline = fill with idtrfishcatchoffline
  - (3) totalprice = fill with totalprice
  - (4) desc = fill with description
  - (5) sendtobuyerdate = fill with sendtobuyerdate

- (6) deliverydate = fill with deliverydate
- (7) transportby = fill with transport by (air, land, ship)
- (8) transportnameid = fill with transport name
- (9) transportreceiptphoto = fill with transport receipt photo
- (10)idmsbuyer = fill with idmsbuyer
- (11)idmssupplier = fill with idmssupplier
- (12)deliverysheetofflineid = fill with deliverysheetofflineid

2. updatedeliveryv3 = API for update delivery from mobile apps

- (1) iddeliveryoffline = fill with iddeliveryoffline
- (2) idtrfishcatchoffline = fill with idtrfishcatchoffline
- (3) totalprice = fill with totalprice
- (4) desc = fill with description
- (5) sendtobuyerdate = fill with sendtobuyerdate
- (6) deliverydate = fill with deliverydate
- (7) transportby = fill with transport by (air, land, ship)
- (8) transportnameid = fill with transport name
- (9) transportreceiptphoto = fill with transport receipt photo
- (10)idmsbuyer = fill with idmsbuyer
- (11)deliverysheetofflineid = fill with deliverysheetofflineid

3. deletedeliveryv3 = API for delete delivery from mobile apps

- (1) iddeliveryoffline = fill with iddeliveryoffline

4. addnewdeliverybatch = API for add delivery batch from mobile apps
  - (1) iddeliveryoffline = fill with iddeliveryoffline
  - (2) idtrcatchoffline = fill with idtrcatchoffline
  - (3) totalprice = fill with total price
  - (4) desc = fill with description
  - (5) sendtobuyerdate = fill with sendtobuyerdate
  - (6) deliverydate = fill with deliverydate
  - (7) transportby = fill with transport by (air, land, ship)
  - (8) transportnameid = fill with transport name
  - (9) transportreceiptphoto = fill with transport receipt photo
  - (10) idmsbuyer = fill with idmsbuyer
  - (11) idmssupplier = fill with idmssupplier
  - (12) deliveriesheetofflineid = fill with deliveriesheetofflineid
  
5. updatedeliverybatch = API for update delivery batch from mobile apps
  - (1) iddeliveryoffline = fill with iddeliveryoffline
  - (2) idtrcatchoffline = fill with idtrcatchoffline
  - (3) totalprice = fill with total price
  - (4) desc = fill with description
  - (5) sendtobuyerdate = fill with sendtobuyerdate
  - (6) deliverydate = fill with deliverydate
  - (7) transportby = fill with transport by (air, land, ship)
  - (8) transportnameid = fill with transport name
  - (9) transportreceiptphoto = fill with transport receipt photo
  - (10) idmsbuyer = fill with idmsbuyer
  - (11) deliveriesheetofflineid = fill with deliveriesheetofflineid
  
6. getdeliverybyidmssupplier = API for get delivery from mobile apps
  - (1) GET['id'] = idmssuplier
  
7. createdeliverysheetv2 = API for create delivery sheet from mobile apps
  - (1) deliveriesheetofflineidparam = fill with deliveriesheetofflineid
  - (2) savedtextparam = fill with saved text param

- (3) idmssupplierparam = fill with idmssupplier
- 8. updatedeliverysheetv2 = API for update delivery sheet from mobile apps
  - (1) deliverysheetofflineidparam = fill with deliverysheetofflineid
  - (2) savedtextparam = fill with saved text param
  - (3) idmssupplierparam = fill with idmssupplier
- 9. deletedeliverysheetv2 = API for delete delivery sheet from mobile apps
  - (1) deliverysheetofflineidparam = fill with deliverysheetofflineid
- 10. getdeliverysheet = API for get all delivery sheet
  - (1) GET['id'] = fill with deliverysheetofflineid
- 11. Getdeliverysheetbyidmssupplier = API for get delivery sheet by idmssupplier
  - (1) GET['id'] = fill with idmssupplier
- 12. Getdeliverysheetbyiddelivery = API for get delivery sheet by iddelivery
  - (1) GET['id'] = fill with iddelivery
- 13. getsheetv6 = API for get delivery sheet by last two months
  - (1) GET['id'] = fill with idmssupplier

## 11) Others

---

- 1. getmsinfo [GET] = API to get "further information contact" information.
  - (1) GET['id'] = fill with idmsinfo
- 2. syncdatav2 [POST] = API to receive sync-ed offline data. This API should send a batch of commands that will be executed by the server.
  - (1) jsonParam = fill with json text param
  - (2) senderParam = fill with sender idmsuer
- 3. uploadimage [POST] = API to upload image from mobile apps

(1) photoparam = fill with file upload

---

## 7. EXTERNAL QUERY

Data can be queried from the external system, such as TraceTale (buyer). Currently the opened data is just for Delivery Sheet.

### 1) Delivery Sheet

---

To get the delivery sheet as data (specificly used for TraceTale communication).

[https://trafiz.org/\\_api/dsheet?id=<delivery\\_sheet\\_number>](https://trafiz.org/_api/dsheet?id=<delivery_sheet_number>)

The output format is the same as read by the QR Code. See 4.4. Delivery Sheet Format.