

LOGISTICS CLUSTER

NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

Software Development | Asia Pacific College A.Y. 2017-2018

Project Title:

- NDRRMC – Logistics System

Project Team:

- | | | |
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Client Agency:

- NDRRMC | Office of Civil Defense – Logistics Cluster

Client Logo:



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ABSTRACT

The NDRRMC – Logistics System is a cloud-based application program that keeps track of the available supplies, equipment, and vehicles, along with the various vital locations that will be essential in times of disaster. The system would mainly benefit the Logistics cluster since they are the one who is responsible for the *transportation, warehousing, inventorying, and tracking of deployed items*.

INTRODUCTION

National Disaster Risk Reduction and Management Council, also known as NDRRMC, is a working group of various organization that is responsible for formulating effective response schemes before, during, and after the calamity or disaster to ensure the protection and preservation of life, property, and the environment of affected communities. The NDRRMC is divided into 12 clusters for better task distinction and dissemination. These clusters are the Camp Coordination and Camp Management, Education, Emergency Telecom, Food & Non-Food Items, International Humanitarian Relations, Law and Order, Logistics, Management of the Dead and the Missing, Protection (IDP), Psycho Spiritual Integration, Search, Rescue, and Retrieval, and Water, Sanitation, Health (WaSH). (Office of Civil Defense, 2015)

Given the responsibilities of the NDRRMC, they still seek ways to improve their services to provide the society better assistance since the council still commits several lapses that may possibly harm the society due to the lack of proper management and allocation of resources, as well as the lack of proper utilization of role players in the event of a disaster or calamity. Therefore, the project team decided to develop a system that would streamline the NDRRMC processes by providing a digitized inventory system for supplies, equipment, and vehicles that will be essential in the event of disaster.

PROJECT DESCRIPTION

The NDRRMC - Logistics System was developed using Yii2, a generic web programming framework that is used for developing web applications with the use of PHP. PHP or Hypertext Preprocessor is a widely-used open source scripting language that contains HTML, CSS, and PHP code in order to generate dynamic page content for the system. PHP scripts are executed on the Apache web server which is installed and running on the EC2 (Amazon Elastic Compute Cloud) server, which was used to host the system via cloud. Processes that runs in the EC2 instance are the MariaDB and phpMyAdmin. MariaDB is a database management system, and phpMyAdmin is the management tool for MySQL.

TARGET CLIENT

The users of the system will be the Regional Admin, Provincial Admin, City/Municipal Admin, and the 12 different clusters of NDRRMC. With this, requests will then go through approvals based on the hierarchy of authority, therefore, the NDRRMC-Logistics cluster, will no longer have the need to contact each and every single one of the requestor from time to time to keep them informed. This will improve the management and organization of the cluster which can result to guaranteed response time in the event of disasters which in return, could turn out to be a benefit to the citizens of affected communities.

BRIEF BACKGROUND

The NDRRMC – Logistics cluster, headed by the Office of Civil Defense, acts as the lead office for Response Cluster in disaster response operations. They take charge in providing efficient and effective logistical support among the concerned OCD authority personnel, other cluster members and logistics partners. As well as, establishing standard operating procedures on pre-disaster, during disaster, and post-disaster phase which involves inventory of available assets and resources, procurement and allocation of

assets and resources, receives and facilitates requests for logistical support, provides feedback to requesting DRRMCs and local government of affected areas, tracking of cargo to its destination, updates on road conditions, warehouses stocks and cargo capacities, and other logistics services. (Office of Civil Defense, 2015)

PROBLEM STATEMENT

The Logistics cluster handles tons of workload knowing their responsibilities as the lead agency for disaster response operations. Overall, the common problem that needs to be addressed in times of disaster response operations are the lack of coordination, cooperation and communication among different government agencies which leads to disorderly procurement and allocation of resources, duplication of requests, inaccurate inventory, unsystematic organization, missing cargo, and scarcity due to improper handling of supplies.

SITUATIONAL ANALYSIS

The NDRRMC is divided into 12 clusters, with each having their own set of tasks to accomplish. The main goal of this project is the Logistics cluster, which aims to harmonize the activities of all clusters and encourages regular data exchange among all stakeholders regarding with the *Transportation, Warehousing, Inventories, and the Tracking of deployed items*.

The main problem of the Logistics cluster that needs to be addressed is the info-sharing between the different clusters. Consequently, this problem induces additional problems pertaining to (1) transportation such as facility location and vehicle routing; (2) procurement, which is the requesting process of resources; (3) and deployment, which involves the LAN infrastructure reliability of the system. Leaving these problems unsolved will affect the mission of the NDRRMC as well as the welfare of the affected societies.

PROPOSED SOLUTION

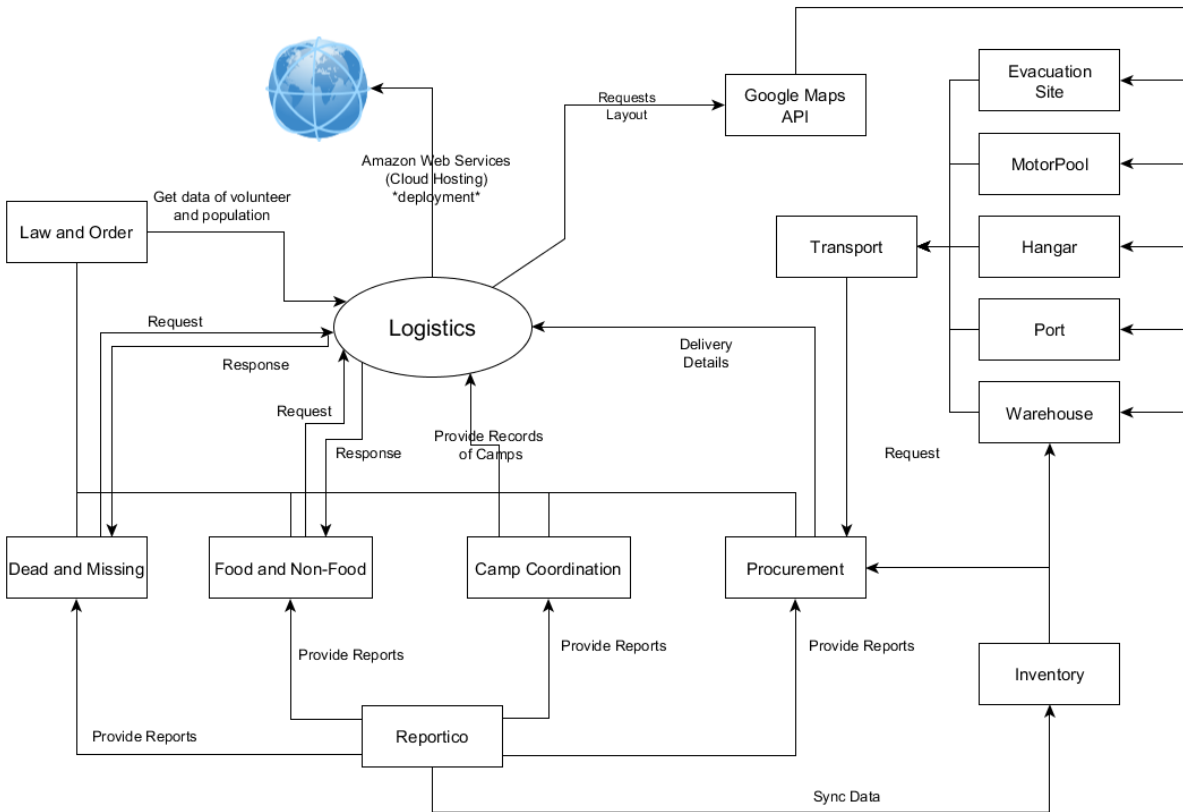
The proposed solution to the issues of NDRRMC are: (1) Condense the user list by ordering them based on the type of user for a simpler User Management, (2) Digitized inventory management that could keep track of the available resources and monitor the requests, (3) Centralize records of information of the resources and its suppliers, which can be viewed, edited, and deleted, (4) Deployment of the system to a Cloud Platform for more guaranteed runtime.

EXPECTED OUTCOME

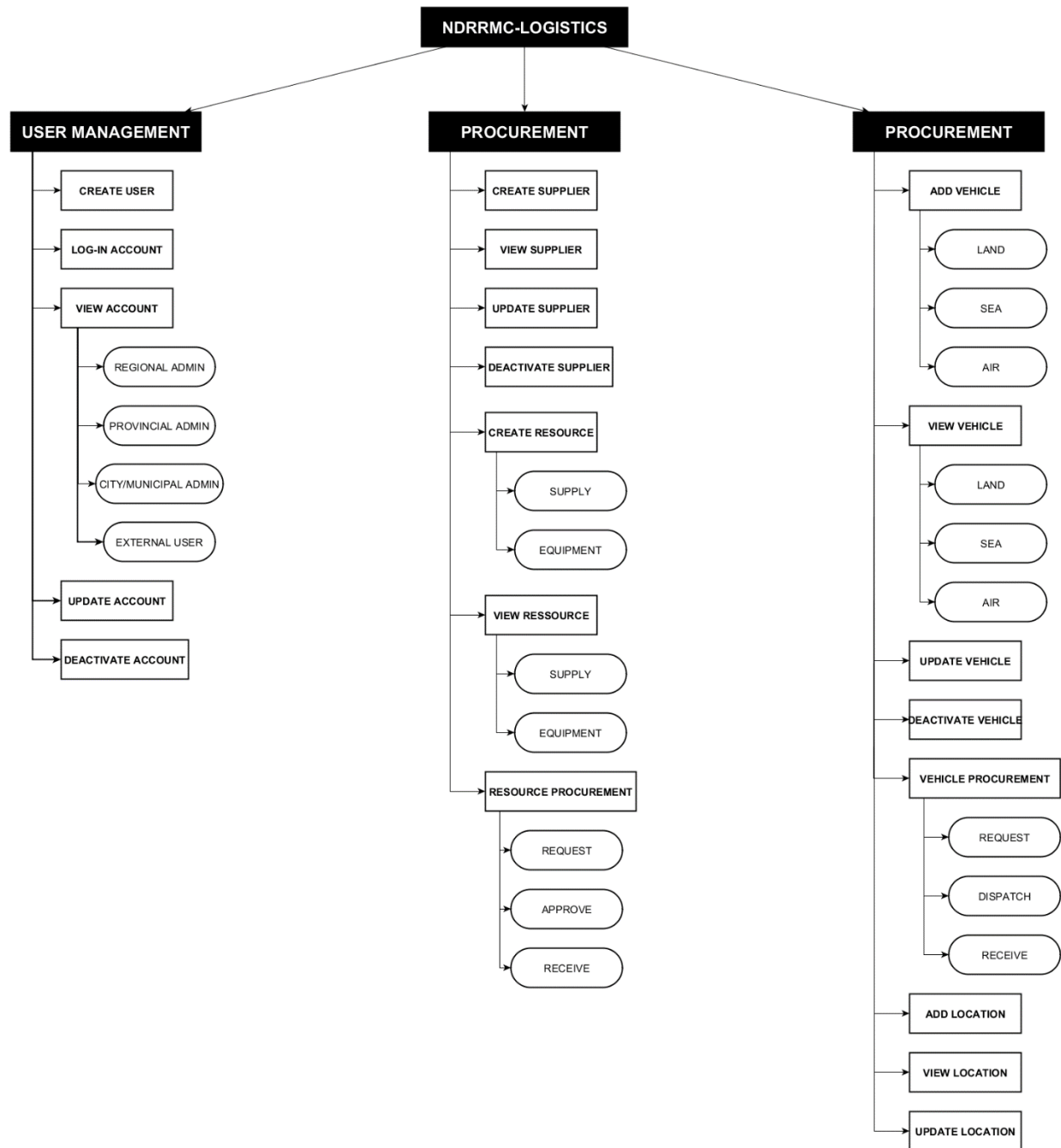
The outcome of the Logistics System may improve the response operation phase of NDRRMC given that this system will provide a methodical impact to the council. It will maximize effective logistical support since the system promotes regular info-sharing of relevant records of data between the local government and agencies. Besides, requesting of supplies, equipment, and vehicles that will be needed in times of disasters can be immediately accomplished in a short span of time by the system provides a digitized inventory system. Also, users can access the web application without difficulty as long as they have a stable internet connection.

SYSTEM DIAGRAMS & TABLES

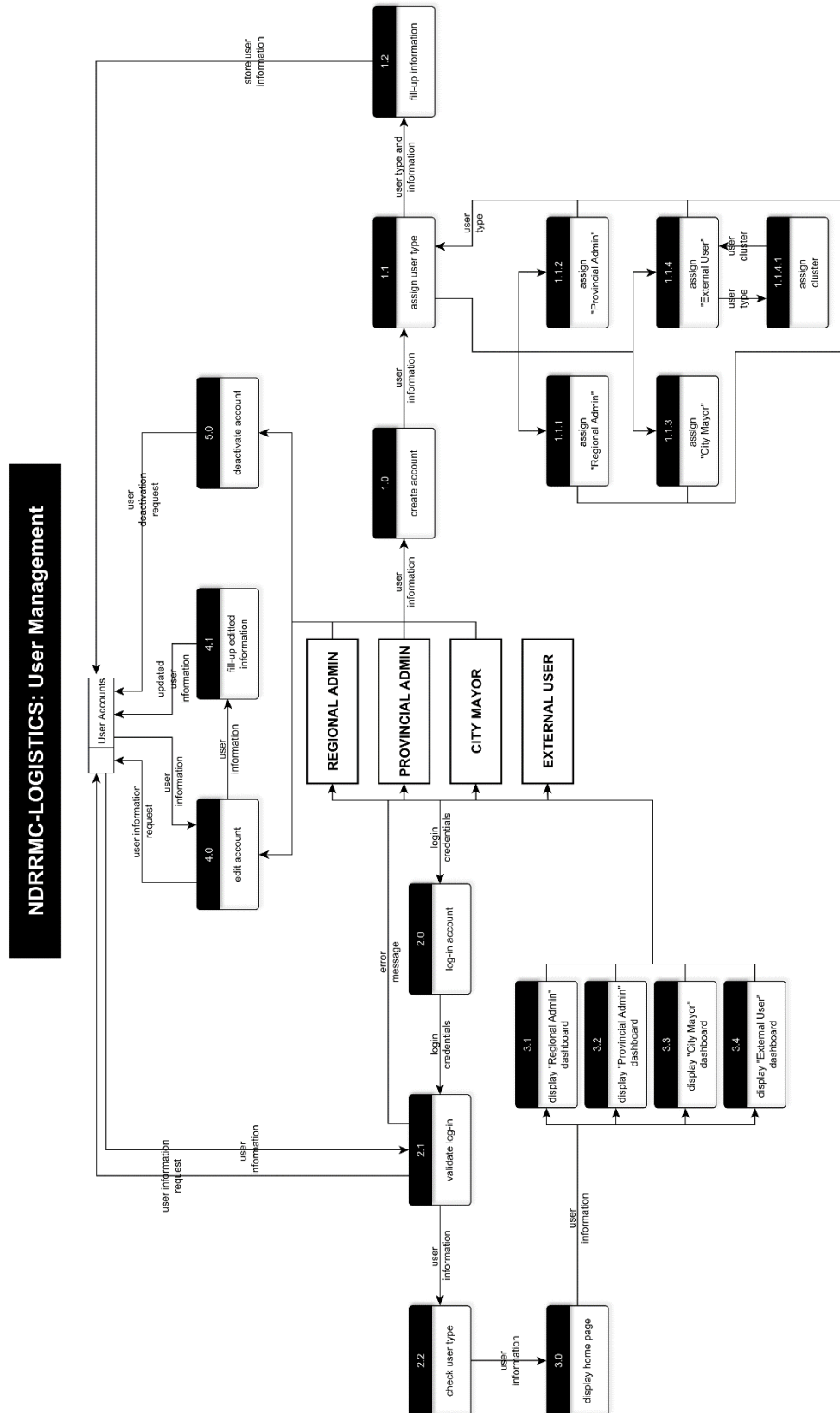
a. Context Level Diagram (Level 0 to Level 3 or 4)

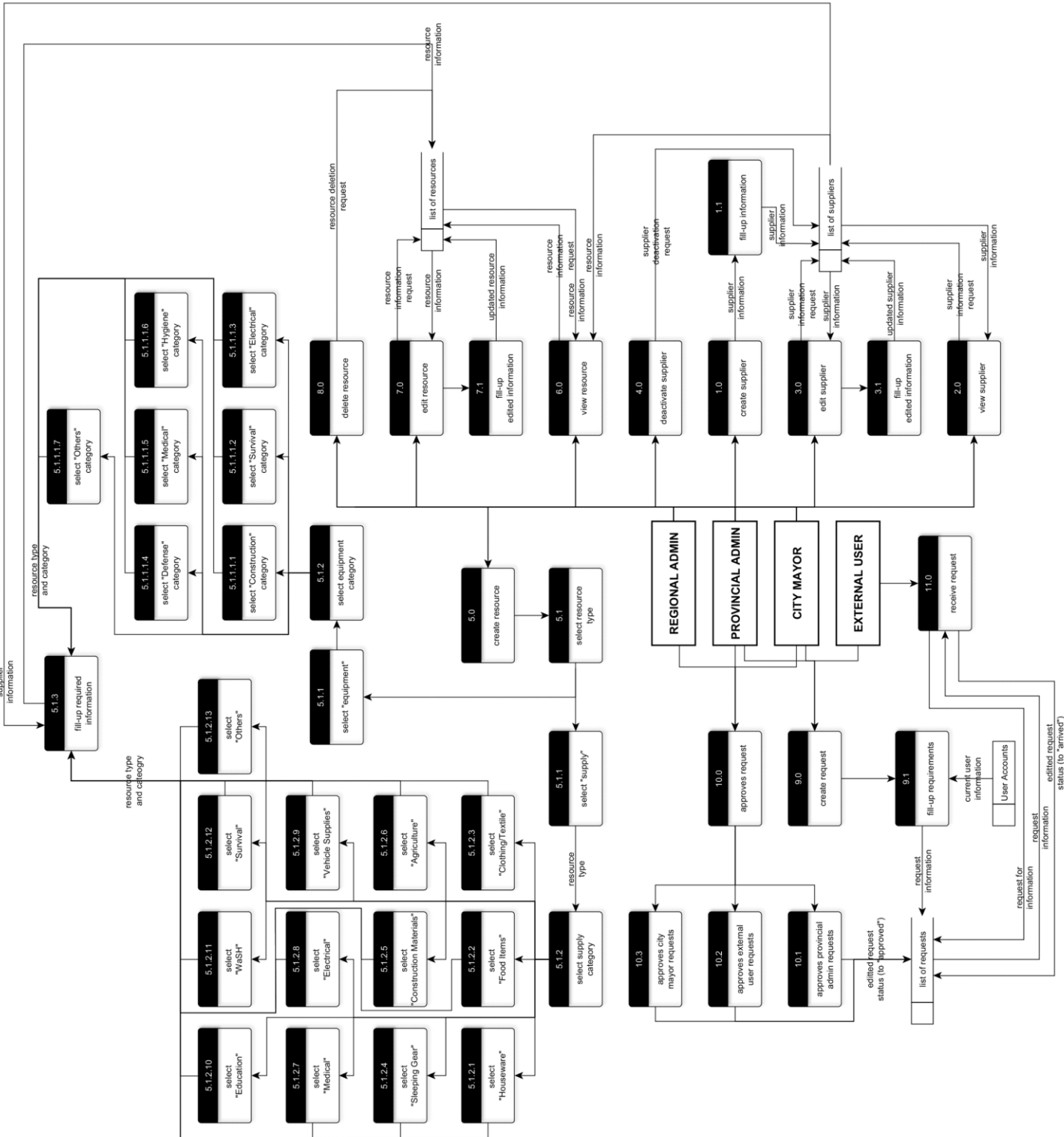


b. Organizational Chart of Program Modules

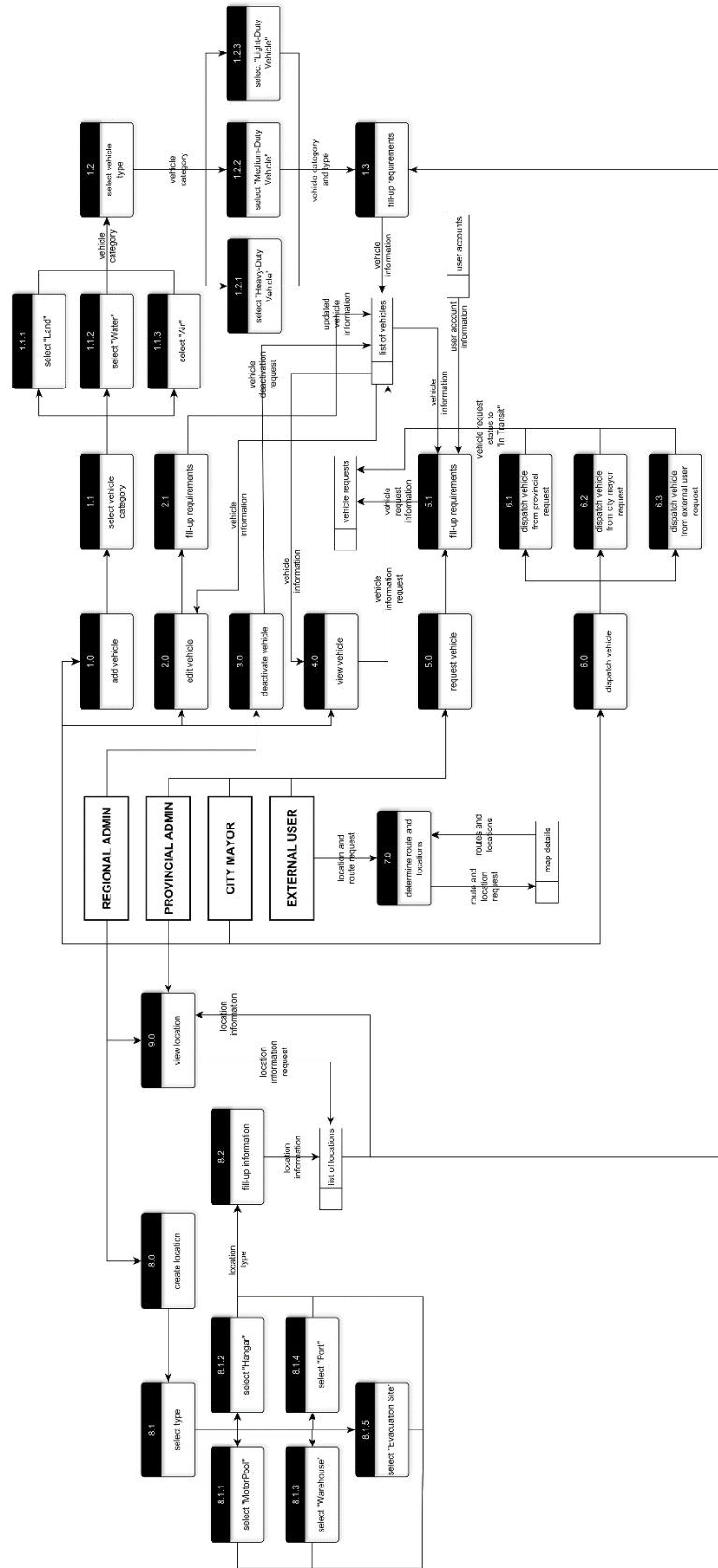


c. Data Flow Diagram

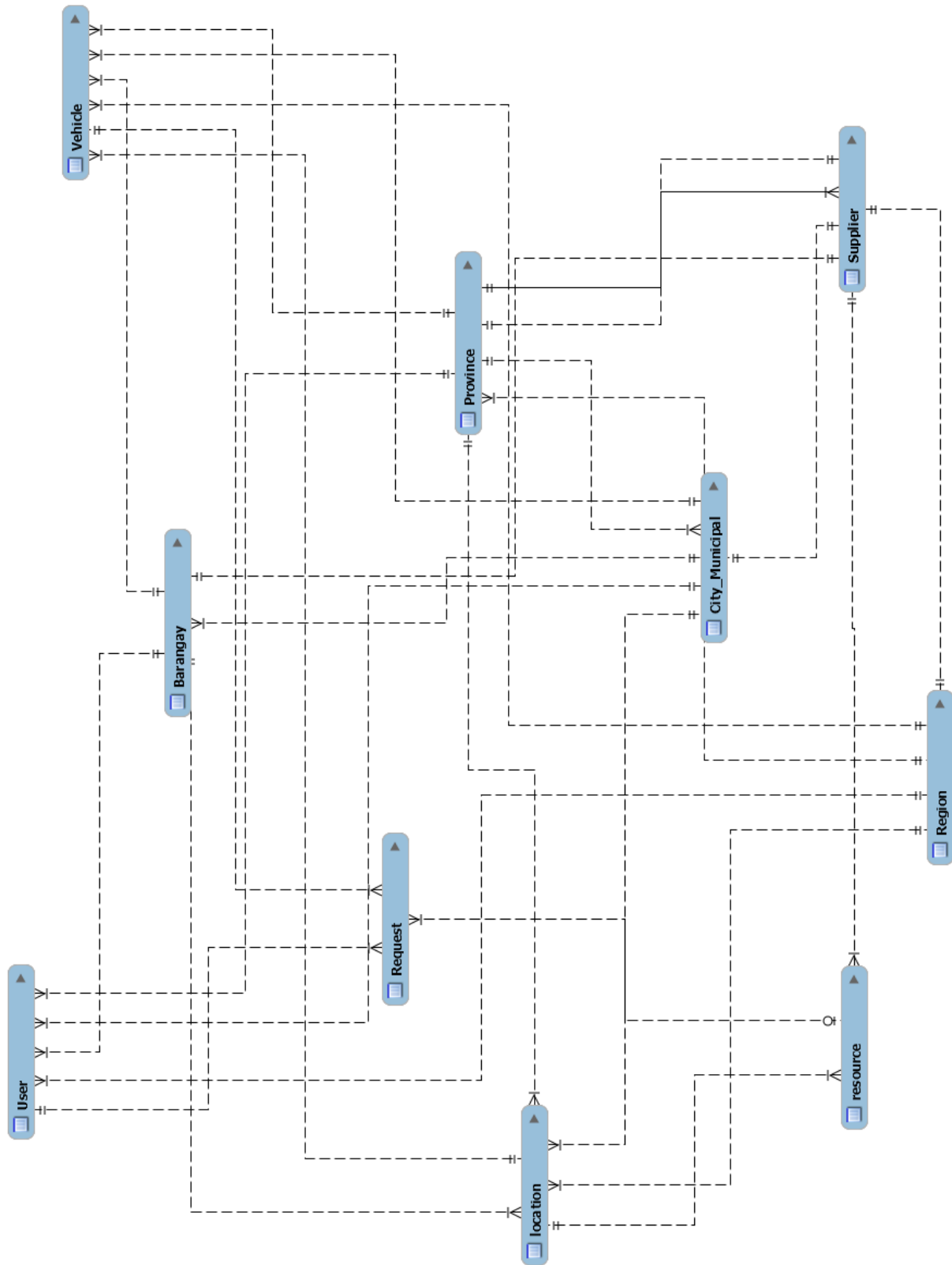




NDRMC-LOGISTICS: Transport (Vehicle Management & Request)



d. Entity Relationship Diagrams



e. Database structure / Data tables

User <ul style="list-style-type: none"> id INT username VARCHAR(45) password_hash VARCHAR(...) password_reset_token VA... email VARCHAR(60) status VARCHAR(45) created_at VARCHAR(45) updated_at VARCHAR(45) first_name VARCHAR(45) middle_name VARCHAR(45) last_name VARCHAR(45) contact VARCHAR(45) birth_date TIMESTAMP type ENUM(...) external_type VARCHAR(45) status ENUM(...) term INT region_id INT barangay_id INT province_id INT city_municipal_id INT Indexes	resource <ul style="list-style-type: none"> id INT(11) name VARCHAR(45) supply_type ENUM(...) quantity VARCHAR(11) date_delivered TIMESTA... date_received TIMESTA... details VARCHAR(45) supplier_name VARCHA... expiration_date VARCHA... remaining_supply VARC... supply_category ENUM(...) supplier_id INT location_id INT Indexes	Request <ul style="list-style-type: none"> id INT date_needed VARCHAR(45) date_requested VARCHA... reason TEXT quantity_needed VARCHA... priority VARCHAR(45) receipt VARCHAR(45) beneficiary VARCHAR(45) status ENUM(...) user_id INT resource_id INT(11) vehicle_id INT Indexes	Supplier <ul style="list-style-type: none"> id INT name VARCHAR(45) contact VARCHAR(45) email VARCHAR(150) contact_person VARCHA... website VARCHAR(150) barangay_id INT City_Municipal_id INT province_id INT region_id INT Indexes
City_Municipal <ul style="list-style-type: none"> id INT CityMunicipal VARCHAR(45) population INT province_id INT Indexes	Barangay <ul style="list-style-type: none"> id INT Barangay_Name VARCHAR(45) population INT city_municipal_id INT Indexes	Vehicle <ul style="list-style-type: none"> id INT name VARCHAR(45) vehicle_type VARCHAR(45) plate_number VARCHAR(45) type ENUM(...) type_star ENUM(...) classification ENUM(...) weight_limit INT fuel_capacity INT status ENUM(...) city_municipal_id INT barangay_id INT province_id INT region_id INT location_id INT Indexes	location <ul style="list-style-type: none"> id INT name VARCHAR(45) contact VARCHAR(45) email VARCHAR(45) type ENUM(...) capacity VARCHAR(45) status ENUM(...) province_id INT city_municipal_id INT region_id INT barangay_id INT Indexes
	Province <ul style="list-style-type: none"> id INT Province_Name VARCHAR(45) population INT region_id INT Indexes		Region <ul style="list-style-type: none"> id INT Region_Name VARCHAR(45) population INT Indexes

f. Data Dictionary

Table: User							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
username	VARCHAR(45)	No	No	No			
password_hash	VARCHAR(255)	No	No	No			
password_reset_token	VARCHAR(255)	No	No	No			
email	VARCHAR(60)	No	No	No			
status	VARCHAR(45)	No	No	No			
created_at	VARCHAR(45)	No	No	No			
updated_at	VARCHAR(45)	No	No	No			
first_name	VARCHAR(45)	No	No	No			
middle_name	VARCHAR(45)	No	No	No			
last_name	VARCHAR(45)	No	No	No			
contact	VARCHAR(45)	No	No	No			
birth_date	TIMESTAMP	No	No	No			
type	ENUM('National Admin', 'Regional Admin', 'Municipal Admin', 'External User')	No	No	No			
external_type	VARCHAR(45)	No	No	No			
status	ENUM('Active', 'Inactive')	No	No	No			
term	INT	No	No	No			
region_id	INT	Yes	No	Yes			
barangay_id	INT	Yes	No	Yes			
province_id	INT	Yes	No	Yes			
city_municipal_id	INT	Yes	No	Yes			

Table: Barangay							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
Barangay_Name	VARCHAR(45)	No	No	No			
population	INT	No	No	No			
city_municipal_id	INT	Yes	No	Yes			

Table: City_Municipal							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
City/Municipal	VARCHAR(45)	No	No	No			
population	INT	No	No	No			
province_id	INT	Yes	No	Yes			

Table: Region							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
Region_Name	VARCHAR(45)	No	No	No			
population	INT	No	No	No			

Table: Province							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
Province_Name	VARCHAR(45)	No	No	No			
population	INT	No	No	No			
region_id	INT	Yes	No	Yes			

Table: Request							
Table Comments							
Columns							
Name	Data Type	Nullable	PK	FK	Default	Comment	
id	INT	Yes	Yes	No			
date_needed	VARCHAR(45)	No	No	No			
date_requested	VARCHAR(45)	No	No	No			
reason	TEXT	No	No	No			
quantity_needed	VARCHAR(45)	No	No	No			
priority	VARCHAR(45)	No	No	No			
receptient	VARCHAR(45)	No	No	No			
beneficiary	VARCHAR(45)	No	No	No			
status	ENUM('In Transit', 'Pending', 'Delivered', 'Confirmed')	No	No	No			
user_id	INT	Yes	No	Yes			
resource_id	INT(11)	No	No	Yes			
vehicle_id	INT	Yes	No	Yes			

Table: location						
Table Comments						
Columns						
Name	Data Type	Nullable	PK	FK	Default	Comment
id	INT	Yes	Yes	No		
name	VARCHAR(45)	No	No	No		
contact	VARCHAR(45)	No	No	No		
email	VARCHAR(45)	No	No	No		
type	ENUM('Hangar', 'Port', 'MotorPool', 'Warehouse')	No	No	No		
capacity	VARCHAR(45)	No	No	No		
status	ENUM('Active', 'Inactive')	No	No	No		
province_id	INT	Yes	No	Yes		
city_municipal_id	INT	Yes	No	Yes		
region_id	INT	Yes	No	Yes		
barangay_id	INT	Yes	No	Yes		

Table: Vehicle						
Table Comments						
Columns						
Name	Data Type	Nullable	PK	FK	Default	Comment
id	INT	Yes	Yes	No		
name	VARCHAR(45)	No	No	No		
vehicle_type	VARCHAR(45)	No	No	No		
plate_number	VARCHAR(45)	No	No	No		
type	ENUM('Light Vehicle', 'Medium Vehicle', 'Heavy Vehicle')	No	No	No		
type_star	ENUM('Sea', 'Air', 'Road')	No	No	No		
classification	ENUM('Rent', 'Owned')	No	No	No		
weight_limit	INT	No	No	No		
fuel_capacity	INT	No	No	No		
status	ENUM('In Transit', 'Available', 'Unavailable')	No	No	No		
city_municipal_id	INT	Yes	No	Yes		
barangay_id	INT	Yes	No	Yes		
province_id	INT	Yes	No	Yes		
region_id	INT	Yes	No	Yes		
location_id	INT	Yes	No	Yes		

Table: Supplier						
Table Comments						
Columns						
Name	Data Type	Nullable	PK	FK	Default	Comment
id	INT	Yes	Yes	No		
name	VARCHAR(45)	No	No	No		
contact	VARCHAR(45)	No	No	No		
email	VARCHAR(150)	No	No	No		
contact_person	VARCHAR(45)	No	No	No		
website	VARCHAR(150)	No	No	No		
barangay_id	INT	Yes	No	Yes		
City_Municipal_id	INT	Yes	No	Yes		
province_id	INT	Yes	No	Yes		
region_id	INT	Yes	No	Yes		

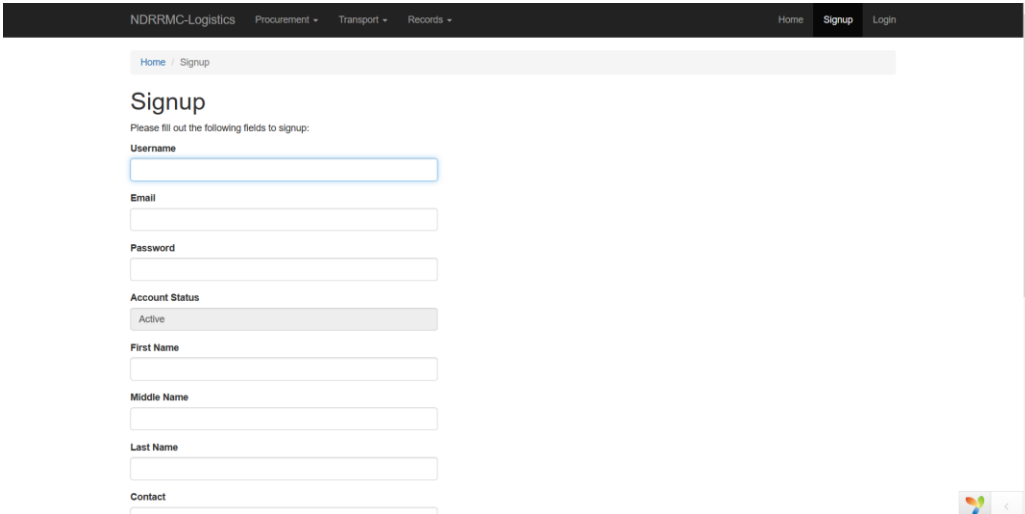
Table: resource						
Table Comments						
Columns						
Name	Data Type	Nullable	PK	FK	Default	Comment
id	INT(11)	Yes	Yes	No		
name	VARCHAR(45)	No	No	No		
supply_type	ENUM('Supply', 'Equipment')	No	No	No		
quantity	VARCHAR(11)	No	No	No		
date_delivered	TIMESTAMP	No	No	No		
date_received	TIMESTAMP	No	No	No		
details	VARCHAR(45)	No	No	No		
supplier_name	VARCHAR(45)	No	No	No		
expiration_date	VARCHAR(45)	No	No	No		
remaining_supply	VARCHAR(45)	No	No	No		
supply_category	ENUM('Agriculture', 'Clothing/Textile', 'Construction', 'Education', 'Electrical/Survival', 'Food Items', 'Houseware', 'Medical', 'Sleeping Gear', 'Vehicle Supplies', 'WaSH', 'Others')	No	No	No		
supplier_id	INT	Yes	No	Yes		
location_id	INT	Yes	No	Yes		

g. Screenshots per module

This system is composed of 3 major modules, namely *User Management*, *Procurement*, and *Transport*. For the User Management, it basically handles the different users that the system caters to: Regional Admin, Provincial Admin, City-Municipal Admin, and the External Users (which consists of the 12 different cluster groups of the NDRRMC). The Procurement Module the records needed to acquire resources. This module revolves around the Suppliers, Resources (which are divided into two categories; Supplies which are easily exhausted, and the Equipment, which lasts long as compared to supplies.), and the Requests of the aforementioned resources. Lastly, the Transport module which handles the delivery of items from one point to another, this tackles the records of Vehicles and the Locations.

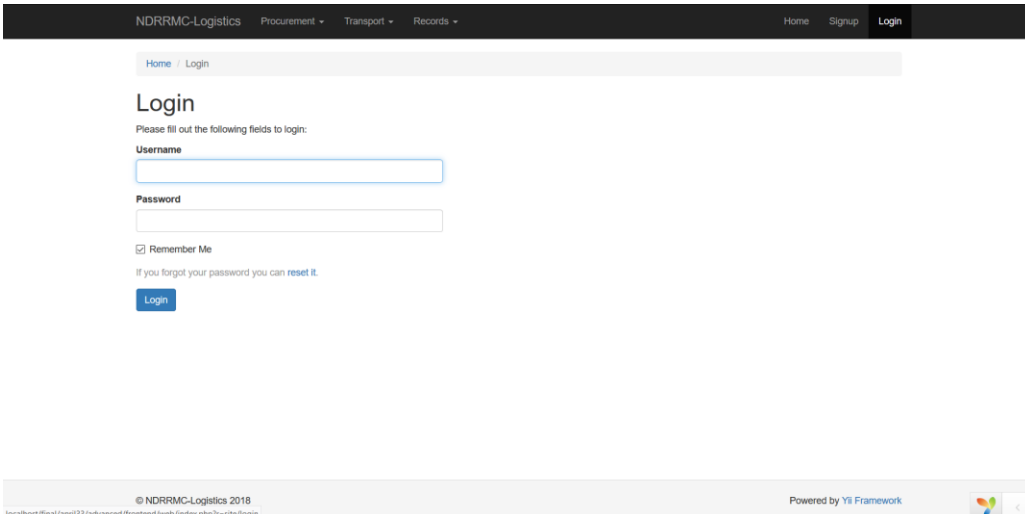
For the **User Management**, we have the following procedures:

a. Signing up of Users



The screenshot shows the 'Signup' page of the NDRRMC-Logistics system. The page has a dark header with navigation links: 'NDRRMC-Logistics', 'Procurement', 'Transport', 'Records', 'Home', 'Signup', and 'Login'. Below the header, there is a breadcrumb trail 'Home / Signup'. The main heading is 'Signup', followed by the instruction 'Please fill out the following fields to signup:'. The form includes input fields for 'Username', 'Email', 'Password', 'First Name', 'Middle Name', 'Last Name', and 'Contact'. There is also a section for 'Account Status' with a dropdown menu currently set to 'Active'. A small Google Assistant icon is visible in the bottom right corner of the form area.

b. Logging in of the User



The screenshot shows the 'Login' page of the NDRRMC-Logistics system. The page has a dark header with navigation links: 'NDRRMC-Logistics', 'Procurement', 'Transport', 'Records', 'Home', 'Signup', and 'Login'. Below the header, there is a breadcrumb trail 'Home / Login'. The main heading is 'Login', followed by the instruction 'Please fill out the following fields to login:'. The form includes input fields for 'Username' and 'Password'. There is a checkbox for 'Remember Me' and a link for 'reset it.' below the password field. A 'Login' button is at the bottom of the form. The footer contains copyright information '© NDRRMC-Logistics 2018', a local host URL, and a note 'Powered by YII Framework'.

c. Viewing of the Users

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Users

Users

Showing 1-6 of 6 items.

#	ID	Username	First Name	Last Name	Role	
1	4	sample	Sample	Sample	National Admin	
2	7	externaluser	External	XD	External User	
3	8	Example	Example	Example	National Admin	
4	9	mpjimenez	Marc Adrian	Jimenez	External User	
5	10	scolonel	Sherine Jane	Colonel	National Admin	
6	11	jfelacruz	Joey Bernadette	Dela Cruz	Regional Admin	

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NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Users / 9

9

Update
Delete

ID	9
Username	mpjimenez
Auth Key	Tf61gyes6WPCPZ1OUIOL212uN3h7vu4
Password Hash	\$2y\$13\$RoSU2Qxz50MLKEEmF46e3SNd/Avlq3cQh4x5g0mLRP0PcXIDm
Password Reset Token	(not set)
Email	mpjimenez@student.apc.edu.ph
Status	10
Created At	1524654295
Updated At	1524654295
Account Status	Active
First Name	Marc Adrian
Middle Name	Pabale
Last Name	Jimenez
Contact	+6392601989
Role	External User

d. Updating the User

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Users / 9 / Update

Update User: 9

Username	mpjimenez
Auth Key	Tf61gyes6WPCPZ1OUIOL212uN3h7vu4
Password Hash	\$2y\$13\$RoSU2Qxz50MLKEEmF46e3SNd/Avlq3cQh4x5g0mLRP0PcXIDm
Password Reset Token	
Email	mpjimenez@student.apc.edu.ph
Status	10
Created At	1524654295
Updated At	1524654295









For the **Procurement Module**, we have the following procedures

a. Creating of Suppliers

The screenshot shows the 'Create Supplier' form in the NDRRMC-Logistics system. The form is located under the 'Suppliers' menu. It contains the following fields: ID, Name, Contact, Email, Contact Person, Website, Region ID (a dropdown menu with 'Select Region'), and City Municipal ID (a dropdown menu with 'Select City/Municipal'). The form is titled 'Create Supplier' and has a breadcrumb trail: Home / Suppliers / Create Supplier.

b. Viewing Suppliers

The screenshot shows the 'Suppliers' list in the NDRRMC-Logistics system. The list is titled 'Suppliers' and has a 'Create Supplier' button. It shows a table with 4 items. The table has columns: #, ID, Name, Contact, Email, and a final column with icons. The data is as follows:

#	ID	Name	Contact	Email	
1	1	Procter & Gamble Distributing (Philis.), Inc.	+632 894 39 55	depadua.d@pg.com	 
2	2	Philippine Red Cross	02-790-2410 or 0917 834 8378 and 02-790-2382	communication@redcross.org.ph and fundgeneration@redcross.org.ph	 
3	3	GMA Foundation	(632) 982.7777	gmafi@gmanetwork.com	 
4	4	Monde Nissin	(02) 792-5700 / 792-5739 / 792-5766		 

Showing 1-4 of 4 items.

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NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Suppliers / Procter & Gamble Distributing (Phils.), Inc.

Procter & Gamble Distributing (Phils.), Inc.

Update
De-activate

ID	1
Name	Procter & Gamble Distributing (Phils.), Inc.
Contact	+632 894 39 55
Email	depadua.d@pg.com
Contact Person	Deirdre de Padua
Website	https://us.pg.com/
Region Name	National Capital Region
City/Municipal Name	Makati
Barangay Name	Bel-Air

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c. Updating Suppliers

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Suppliers / Procter & Gamble Distributing (Phils.), Inc. / Update

Update Supplier: Procter & Gamble Distributing (Phils.), Inc.

ID
1

Name
Procter & Gamble Distributing (Phils.), Inc.

Contact
+632 894 39 55

Email
depadua.d@pg.com

Contact Person
Deirdre de Padua

Website
https://us.pg.com/

Region ID
National Capital Region

City Municipal ID
Makati

d. Creating of Resources

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Resources / Create Resource

Create Resource

Name

Resource Type
Select Resource Type

Quantity

Date Delivered

Date Received

Details

Expiration Date

Supply Category
Select Supply Category

e. Viewing of Resources

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Resources

Resources

Create Resource

Showing 1-3 of 3 items.

#	ID	Name	Resource Type	Quantity	Date Delivered	
1	6	Shampoo (Head and Shoulder)	Supply	100	2018-04-17 10:50:58	
2	7	Bags of Blood Type A	Supply	50	2018-04-20 18:30:01	
3	8	Bags of Blood Type B	Supply	50	2018-04-19 19:30:50	

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NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Resources / Shampoo (Head and Shoulder)

Shampoo (Head and Shoulder)

UpdateDelete

ID	6
Name	Shampoo (Head and Shoulder)
Resource Type	Supply
Quantity	100
Date Delivered	2018-04-17 10:50:58
Date Received	2018-05-01 13:45:58
Details	
Expiration Date	2019-7-31 6-30-58
Remaining Supply	(not set)
Supply Category	WaSH
Supplier	Procter & Gamble Distributing (Philis.), Inc.

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f. Updating Resources

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Resources / Shampoo (Head and Shoulder) / Update

Update Resource: Shampoo (Head and Shoulder)

Name
Shampoo (Head and Shoulder)

Resource Type
Supply

Quantity
100

Date Delivered
2018-04-17 10:50:58

Date Received
2018-05-01 13:45:58

Details

Expiration Date
2019-7-31 6-30-58

Remaining Supply

g. Creating Requests

NDRRMC-LogisticsProcurementTransportRecordsHomeLogout (externaluser)

Home / Requests / Create Request

Create Request

Requestor

7

Username

externaluser

Resource

Select Resource

Vehicle

Select Vehicle

Date Needed

Date Requested

18-04-25 01:33:50

Reason

h. Viewing Requests



NDRRMC-LogisticsProcurementTransportRecordsHomeLogout (externaluser)

Home / Requests

Requests

Create Request

Showing 1-1 of 1 item.

#	ID	Date Needed	Date Requested	Reason	Quantity Needed	
1	1	2018-04-22 07:35:47	2018-04-20 09:14:47	For the Dengue Victims	10	 

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Powered by Y8 Framework

NDRRMC-LogisticsProcurementTransportRecordsHomeLogout (externaluser)

Home / Requests / 1

1

Update

Delete

ID	1
Date Needed	2018-04-22 07:35:47
Date Requested	2018-04-20 09:14:47
Reason	For the Dengue Victims
Quantity Needed	10
Priority	
Recipient	7
Beneficiary	Dengue Victims
Status	Pending
Requestor	user:user_username
Resource	6
Vehicle	1

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i. Updating Requests

The screenshot shows the 'Update Request: 1' form in the NDRRC-Logistics system. The form is located under the breadcrumb 'Home / Requests / 1 / Update'. It contains the following fields:

- Requestor:** A text input field with the value '7'.
- Username:** A text input field with the value 'externaluser'.
- Resource:** A dropdown menu with the selected value 'Shampoo (Head and Shoulder)'.
- Vehicle:** A dropdown menu with the selected value 'Toyota Vios 2018'.
- Date Needed:** A date and time picker showing '2018-04-22 07:35:47'.
- Date Requested:** A date and time picker showing '2018-04-20 09:14:47'.
- Reason:** A text input field with the value 'For the Dengue Victims'.

For the **Transport Module**, we have the following procedures:

a. Creating Locations

The screenshot shows the 'Create Location' form in the NDRRC-Logistics system. The form is located under the breadcrumb 'Home / Locations / Create Location'. It contains the following fields:

- Name:** A text input field.
- Contact:** A text input field.
- Email:** A text input field.
- Type:** A dropdown menu with the selected value 'Select Location Type'.
- Capacity:** A text input field.
- Status:** A dropdown menu with the selected value 'Active'.
- Region ID:** A dropdown menu with the selected value 'Select Region'.
- City Municipal ID:** A dropdown menu with the selected value 'Select City/Municipal'.

b. Viewing Locations





NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home
Locations

Locations

Create Location

Showing 1-2 of 2 items.

#	ID	Name	Contact	Email	Type	
1	1	ASCom (Army Support Command) - Fort Bonifacio	Sgt. Marcelo H. Del Pilar	mhdelpilar@army.com	MotorPool	 
2	2	Manila Ninoy Aquino International Airport	Angel Locsin	aod@miaa.gov.ph	Hangar	 

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NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home
Locations
ASCom (Army Support Command) - Fort Bonifacio

ASCom (Army Support Command) - Fort Bonifacio

UpdateDelete

ID	1
Name	ASCom (Army Support Command) - Fort Bonifacio
Contact	Sgt. Marcelo H. Del Pilar
Email	mhdelpilar@army.com
Type	MotorPool
Capacity	10 acres
Status	Active
Region	National Capital Region
City Municipal	Taguig
Barangay	Fort Bonifacio

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c. Updating Locations

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home
Locations
ASCom (Army Support Command) - Fort Bonifacio
Update

Update Location: ASCom (Army Support Command) - Fort Bonifacio

Name

ASCom (Army Support Command) - Fort Bonifacio

Contact

Sgt. Marcelo H. Del Pilar

Email

mhdelpilar@army.com

Type

MotorPool

Capacity

10 acres

Status



Active

Region ID

National Capital Region

City Municipal ID

Taguig

d. Creating Vehicles

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Vehicles / Create Vehicle

Create Vehicle

Name

Plate Number

Vehicle Type
Select Vehicle Type

Vehicle Category
Select Vehicle Category

Classification
Select Vehicle Classification

Status
Select Vehicle Status

Region ID
Select Region

City Municipal ID
Select City/Municipal

e. Viewing Vehicles

NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Vehicles

Vehicles

Create Vehicle

Showing 1-4 of 4 items.

#	ID	Name	Plate Number	Vehicle Type	Vehicle Category	
1	1	Toyota Vios 2018	UQO-123	Light Vehicle	Road	
2	2	Mitsubishi L300 2018	BDB-251	Medium Vehicle	Road	
3	3	Boeing 777	PH-ZTK	Heavy Vehicle	Air	
4	4	C-130 Hercules	PH-KVB	Heavy Vehicle	Air	

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NDRRC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Vehicles / Toyota Vios 2018

Toyota Vios 2018

Update
Delete

ID	1
Name	Toyota Vios 2018
Plate Number	UQO-123
Vehicle Type	Light Vehicle
Vehicle Category	Road
Classification	Owned
Status	Available
Region ID	Ilocos Region
City Municipal ID	Bacarra
Barangay ID	Buyon

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f. Updating Vehicles

NDRRMC-Logistics
Procurement
Transport
Records
Home
Logout (externaluser)

Home / Vehicles / Toyota Vios 2018 / Update

Update Vehicle: Toyota Vios 2018

Name

Toyota Vios 2018

Plate Number

UQC-123

Vehicle Type

Light Vehicle

Vehicle Category

Road

Classification

Owned

Status

Available

Region ID

Ilocos Region

City Municipal ID

Bacarra

This system is also capable of creating SQL Reports through the Reportico Module

Log Off	Admin Home Page	Create Report	Configure Project
---------	-----------------	---------------	-------------------

Sample Reports

- Sample Ilocos Region - City Municipal List
- Sample Owned Vehicle Report
- Sample Region List
- Sample Vehicle Reports

Sample Region List	
Id	Region Name
1	National Capital Region
2	Ilocos Region
3	Cordillera Administrative Region
4	Cagayan Valley
5	Central Luzon
6	CALABARZON
7	Southwestern Tagalog Region
8	Bicol Region
9	Western Visayas
10	Central Visayas
11	Eastern Visayas
12	Zamboanga Peninsula
13	Northern Mindanao
14	Davao Region
15	SOCOTSKSARGEN
16	Caraga Region
17	Autonomous Region in Muslim Mindanao

localhost/final/april33/advanced/frontend/web/index.php?r=reportico/reportico/ajax&execute_mode=PREPARE&reportico_session_name=NS

SOURCE CODE LISTINGS

- This code checks the credentials of the user for it to be authenticated to log-in to the system.

```
public function actionLogin()
{
    if (!Yii::$app->user->isGuest) {
        return $this->goHome();
    }

    $model = new LoginForm();
    if ($model->load(Yii::$app->request->post()) && $model->login()) {
        return $this->goBack();
    } else {
        $model->password = '';

        return $this->render('login', [
            'model' => $model,
        ]);
    }
}
```

- This code exits the web-session and removes the user details.

```
public function actionLogout()
{
    Yii::$app->user->logout();

    return $this->goHome();
}
```

- This code redirects the user to the Home Page after signing up.

```
public function actionSignup()
{
    $model = new SignupForm();
    if ($model->load(Yii::$app->request->post())) {
        if ($user = $model->signup()) {
            if (Yii::$app->getUser()->login($user)) {
                return $this->goHome();
            }
        }
    }

    return $this->render('signup', [
        'model' => $model,
    ]);
}
```

- This is the code for the Region Dropdown which is connected to the City-Municipal Dropdown field. This code alters the items displayed on the City-Municipal dropdown field depending on the chosen

Region, it works by checking the database of the region and the city-municipal.

```
<?= $form->field($model, 'region_id')->dropDownList(ArrayHelper::map(Region::find()->all(), 'id', 'Region_Name'),  
    [  
        'prompt' => 'Select Region',  
        'style' => 'width:250px',  
        'onChange' => '  
            $.post("index.php?r=city-municipal/lists&id='.".$(this).val(), function( data) {  
                $( "select#signupform-city_municipal_id" ).html( data );  
            });'  
    ]  
) ?>
```

- This is the code for the City-Municipal Dropdown which is connected to the Barangay Dropdown field. This code alters the items displayed on the Barangay dropdown field depending on the chosen City-Municipal, it works by checking the database of the city-municipal and barangay.

```
<?= $form->field($model, 'city_municipal_id')->dropDownList(ArrayHelper::map(CityMunicipal::find()->all(), 'id', 'CityMunicipal'  
    [  
        'prompt' => 'Select City/Municipal',  
        'style' => 'width:250px',  
        'onChange' => '  
            $.post("index.php?r=barangay/lists&id='.".$(this).val(), function( data) {  
                $( "select#signupform-barangay_id" ).html( data );  
            });'  
    ]  
) ?>
```

- This is the code that calls the DateTimePicker widget that helps the user to easily change the date through an interactive calendar.

```
<?= $form->field($model, 'date_needed')->widget(DateTimePicker::className(), [  
    'pluginOptions' => [  
        'autoclose' => false,  
        'todayHighlight' => true,  
        'format' => 'yyyy-m-d h-i-s',  
        'clearBtn' => true  
    ]  
]); ?>
```

- This code checks the current user of the web session to be used for the requesting of resources and vehicles.

```
<?= $form->field($model, 'user_id')->textInput(  
    [  
        'value' => Yii::$app->user->getId(),  
        'readonly' => true  
    ]  
) ?>
```

- This code checks all the suppliers in the database and displays their name in a dropdown list.

```
<?= $form->field($model, 'supplier_id')->dropDownList(ArrayHelper::map(Supplier::find()->all(), 'id', 'name'),
    [
        'prompt' => 'Select Supplier',
        'style' => 'width:400px',
    ]
) ?>
```

- This code checks all the locations in the database and displays their names in a dropdown list.

```
<?= $form->field($model, 'location_id')->dropDownList(ArrayHelper::map(Location::find()->all(), 'id', 'name'),
    [
        'prompt' => 'Select Location',
        'style' => 'width:400px',
    ]
) ?>
```

- This code checks all the resources in the database and displays their names in a dropdown list.

```
<?= $form->field($model, 'resource_id')->dropDownList(ArrayHelper::map(Resource::find()->all(), 'id', 'name'),
    [
        'prompt' => 'Select Supplier',
        'style' => 'width:400px',
    ]
) ?>
```

- This code filters the actions that the current user can perform while using the system.

```
public function behaviors()
{
    return [
        'verbs' => [
            'class' => VerbFilter::className(),
            'actions' => [
                'delete' => ['POST'],
            ],
        ],
        'access' => [
            'class' => \yii\filters\AccessControl::className(),
            'only' => ['index', 'create', 'update', 'view'],
            'rules' => [
                // allow authenticated users
                [
                    'allow' => true,
                    'roles' => ['@'],
                    'matchCallback' => function($rules, $action) {
                        $action = Yii::$app->controller->action->id;
                        $controller = Yii::$app->controller->id;
                        $route = "$controller/$action";
                        $post = Yii::$app->request->post();

                        if ( \Yii::$app->user->can($route) ) {
                            return true;
                        }
                    }
                ]
            ]
        ]
    ];
}
```

- This code gets the username of the current user to be used for the AccesControl feature of the system.

```
class User extends \yii\web\User
{
    public function getUsername()
    {
        return \Yii::$app->user->identity->username;
    }
}
```

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