

## FPT ACADEMY INTERNATIONAL

## FPT – APTECH COMPUTER EDUCATION

Centre Name: ACE-HCMC-2-FPT.

Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.

# VEHICLE INSURANCE MANAGEMENT

Supervisor:	Hoang Duc Quang	
Semester:	3	
Batch No:	T1.1810.E0	
Group No:	2	
Order:	Full name	Roll No.
1.	Nguyen Huu Tung	Student1151428
2.	Bui Nguyen Hai	Student 1159262
3.	Truong Hoang Huy	Student1141480
4.	Nguyen Minh Thu	Student1122727

Month 01 Year 2020



This is to certify that

Mr. Nguyen Huu Tung

Mr. Bui Nguyen Hai

Mr. Truong Hoang Huy

Ms. Nguyen Minh Thu

Has successfully Designed & Developed

**eProject: Vehicle Insurance Management** 

Submitted by:

Nguyen Huu Tung

Date of Issue:

27 - Feb - 2020

Authorized Signature:



## **Table of Contents**

PROBLEM DEFINITION	4
CUSTOMER REQUIREMENT SPECIFICATION	5
Customer	5
Employee	6
Hardware	6
Software	6
Expected release date	6
List of deliverables	7
PROJECT PLAN	8
E-R DIAGRAM	9
ALGORITHMS	18
GUI STANDARDS DOCUMENT	21
INTERFACE DESIGN DOCUMENT	23
TASK SHEET	Error! Bookmark not defined.
PROJECT REVIEW AND MONITORING REPORT	Error! Bookmark not defined.
TRANG CHŮ	Error! Bookmark not defined.
Mô tả:	Error! Bookmark not defined.
Screenshot:	Error! Bookmark not defined.
SÅN PHÅM	Error! Bookmark not defined.
Mô tả:	Error! Bookmark not defined.
Screenshot	Error! Bookmark not defined.
LOGIN PAGE, INSERT NEW BOOK	Error! Bookmark not defined.
Mô tả:	Error! Bookmark not defined.
Screenshot	Error! Bookmark not defined.
UNIT TESTING CHECK LIST	Error! Bookmark not defined.
FINAL CHECK LIST	Error! Bookmark not defined.
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### PROBLEM DEFINITION

The objective of the system is to provide the facilities to all the people concerned with Vehicle Insurance. From the management point of view works can be done fast and more accurately as compared to existing manual system. From the customer's point of view, he can get immediate services without any kind of wasting of time whereas from the user's point of view all kinds of transitions can be done in very easy and efficient manner.

The system also provides many kinds of reports generation facility. Our main objectives for developing this project are giving below.

DATA SECURITY.

REDUCED PAPERWORK.

REDUCED MANPOWER.

INCREASED OPERATIONAL EFFICIENCY.

INCREASED ACCURACY AND RELIABLITY.

IMPORVE MORAL.

#### REDUCE OPRATIONAL TIME.

This project aims to develop a complete fully functional independent system with the intension of improving the productivity of the operations of company through speedy and accurate processing and efficient storage and retrieval of data.

The basic aim behind this project to provide a complete solution that manages the records of vehicle insurance company.



## **CUSTOMER REQUIREMENT SPECIFICATION**

This project is aimed to develop "Online Insurance Portal". It is web-based application, which is developed mainly for the agents of the insurance company to take the policy for his clients electronically. By the request from his clients, he processes and maintains the policy details through the system.

Online Insurance Portal System is an integrated insurance system which links up all the channels within the insurance industry. It is a revolutionized insurance solution that can facilitate online processing and services to the insurance partners, agents and customers through the Internet.

The site should have menu categorising required functionalities

- About us
- Types of insurance
- Testimonials
- Site map
- Contact us

There should be 2 logins as mentioned below:

#### Customer

User needs to register as customer by providing the necessary information in the registration form and provide the username and password

Customer can login with unique username and password.

He can change the password.

Can purchase the policy online: For purchasing the policy online, he has to fill in the application form which would capture all the required information about the vehicle. On successful payment, copy of policy would be generated which customer can save for the records.

Initiate the claim by filling the claim form.



## **Employee**

Employee will be admin who can login with admin username and password.

He can perform all the admin functions as maintaining the policy records, claim records, payment schedules etc

- Following reports needs to be generated
- Monthly sell of policies
- Vehicle wise analysis
- Claims report
- Policies due renewals
- Policies lapsed report

#### **Hardware**

- A minimum computer system that will help you access all the tools in the courses is a Pentium 166 or better.
- 128 Megabytes of RAM or better

#### **Software**

- Visual Studio.Net / ASP
- IIS Server
- .Net Framework
- Java Virtual Machine / J2EE Server
- Notepad / Java editor
- J2sdk 1.4.1\_02 (or later).
- EJB Dev Kit
- Java enable web server
- JSP / Servlets Dev. Kit

## **Expected release date**

Release date: 29 Feb 2020.



## List of deliverables

#### **Documentation**

- User manual
- Install guide
- Database script and database backup file
- Project dodument

#### Website

- Deployment website
- Source code



## **PROJECT PLAN**

After due consideration with the team members, we decided the important criteria should be developed:

- 1. Static pages will introduce:
  - Company information
  - Types of insurance
  - Testimonials
  - Site map
  - Contact us
- 2. Dynamic page with database includes 2 parts:
  - The sales page, including all products, will be sold.
  - The administration page, depending on the rights of the account will be displayed content.



# E-R DIAGRAM

# Database table design

Table name	Field name	Data type	Key
	CustomerID	Int	Primary key
	CustomerUsername	Varchar(20)	
	CustomerEmail	Varchar(50)	
Customer	CustomerPassword	Varchar(50)	
Customer	CustomerName	Varchar(50)	
	CustomerAdd	Varchar(150)	
	CustomerPhoneNo	Char(11)	
	CustomerIsValid	Bit	
	AddProveID	Int	Primary key
	AddProve	Varchar(50)	
CustomerAddProves	AddProveDes	Varchar(300)	
	AddProveRate	Int	
	AddProveStatus	Int	
	VehicleID	Int	Primary key
	VehicleOwnerName	Varchar(50)	
	VehicleBodyNo	Char(17)	
Vehicle	VehicleEngineNo	Char(10)	
	VehicleNo	Int	
	CustomerID	Int	Foreign key
	VehicleNameID	Int	Foreign key
	VehicleWarrantyID	Int	Primary key
	VehicleWarrantyName	Varchar(50)	
VehicleWarranties	VehicleWarrantyDes	Varchar(300)	
	VehicleWarrantyRate	Int	
	VehicleWarrantyStatus	Int	
ValaMa dale	VehicleModelID	Int	Primary key
VehModels	VehicleModel	Varchar(50)	
VehVersion	VehicleVersionID	Int	Primary key



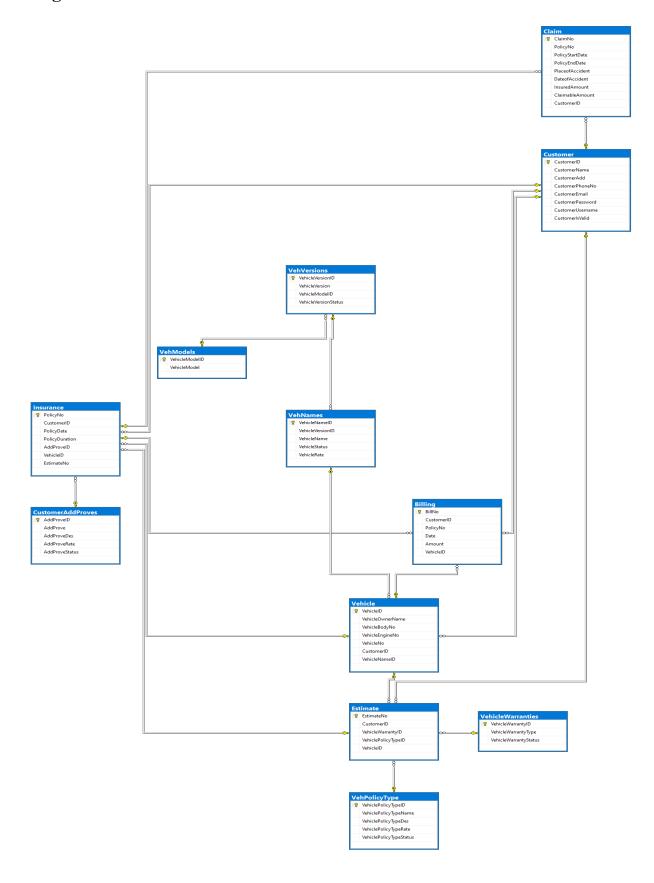
	VehicleVersion	Int	
	VehicleModelID	Int	Foreign key
	VehicleVersionStatus	Int	
	VehicleNameID	Int	Primary key
	VehicleName	Varchar(50)	
VehNames	VehicleRate	Decimal(18,2)	
	VehicleStatus	Int	
	VehicleVersionID	Int	Foreign key
	VehiclePolicyTypeID	Int	Primary key
VehPolicyType	VehiclePolicyType	Int	
	VehiclePolicyTypeStatus	Int	
	PolicyNo	Int	Primary key
	PolicyDate	Date	
	PolicyDuration	Varchar(50)	
Insurance	CustomerAddProve	Varchar(50)	
	CustomerID	Int	Foreign key
	VehicleID	Int	Foreign key
	EstimateNo	Int	Foreign key
	EstimateNo	Int	Primary key
	VehicleWarranty	Varchar(15)	
Estimate	VehiclePolicyType	Varchar(30)	
	CustomerID	Int	Foreign key
	VehicleID	Int	Foreign key
	BillNo	In	Primary key
	Date	Date	
Billing	Amount	Decimal(18,2)	
Billing	CustomerID	Int	Foreign key
	VehicleID	Int	Foreign key
	PolicyNo	Int	Foreign key
	ExpenseID	Int	Primary key
Expense	DateofExpense	Date	
	TypeofExpense	Varchar(50)	



	AmounttoExpense	Decimal(18,2)	
	ClaimNo	Int	Primary key
	PolicyStartDate	Datetime	
	PolicyEndDate	Datetime	
	PlaceofAccident	Varchar(20)	
Claim	DateofAccident	Datetime	
	InsuredAmount	Decimal(18,2)	
	ClaimableAmount	Decimal(18,2)	
	CustomerID	Int	Foreign key
	PolicyNo	Int	Foreign key



# Diagram





# **USE CASE**

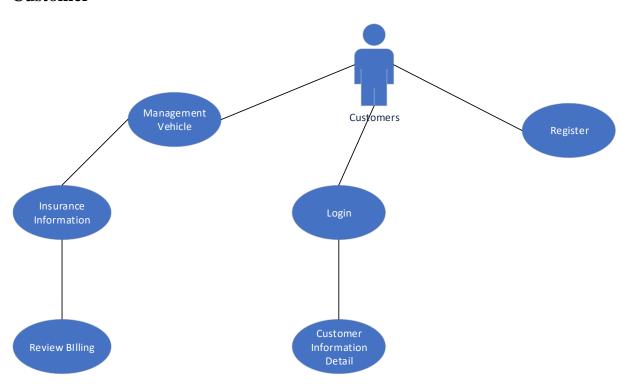
# Static page





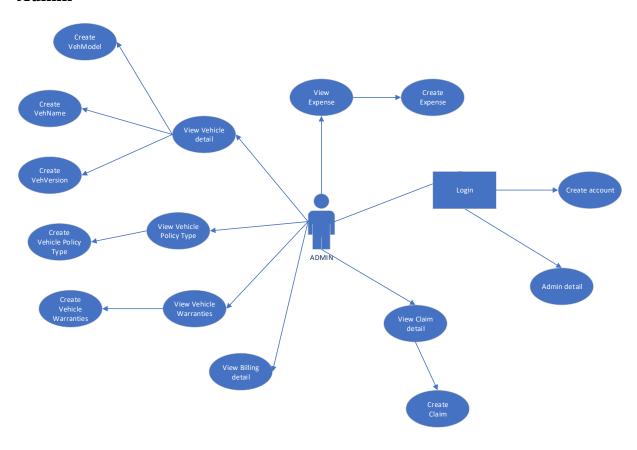


## Customer





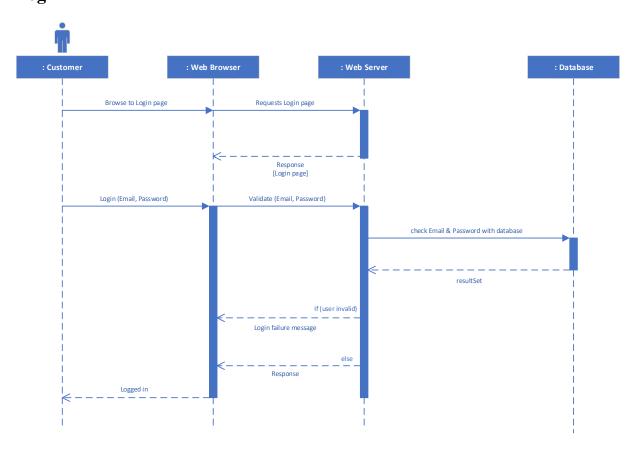
## Admin



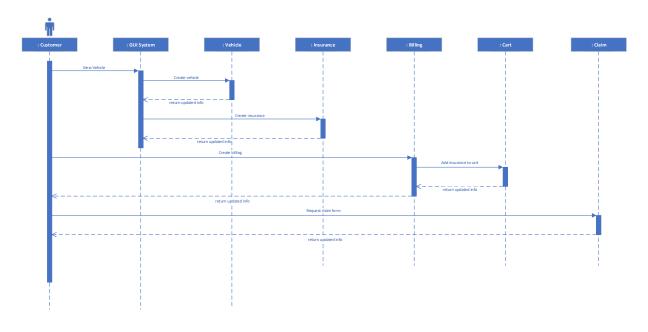


# **SEQUENCE DIAGRAM**

# Login

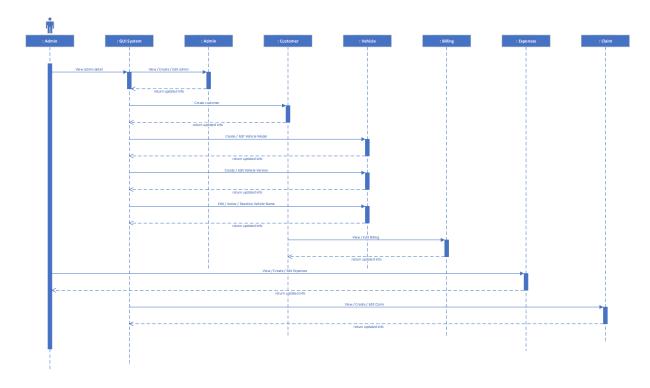


## Customer





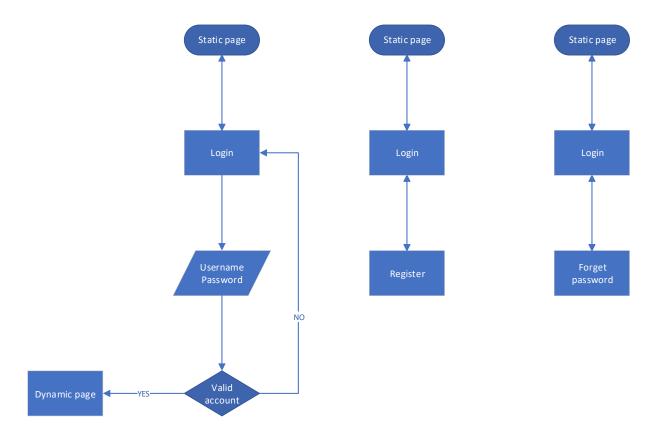
## Admin





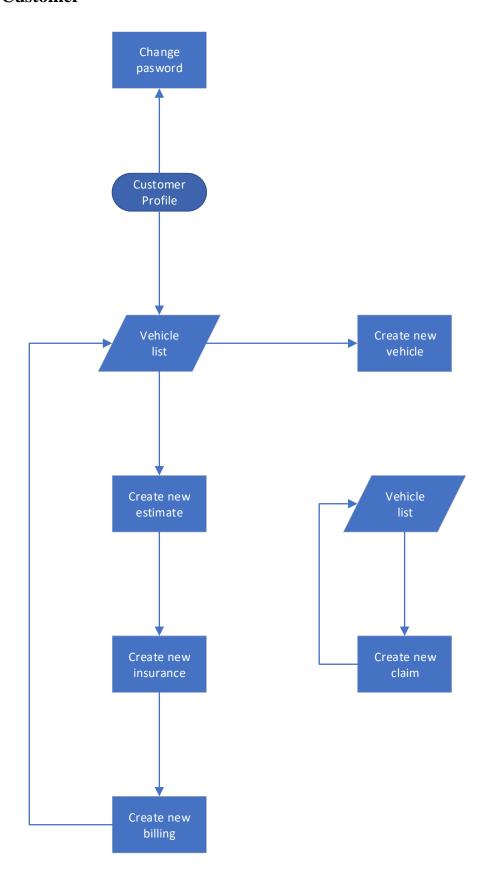
# **ALGORITHMS**

# Login



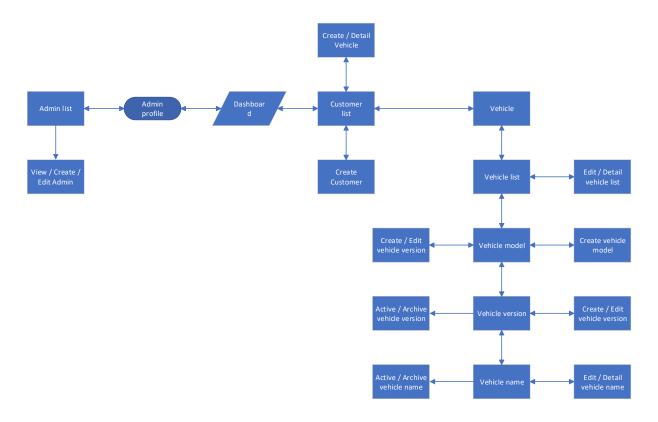


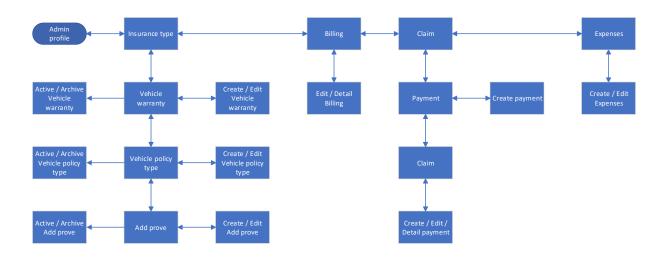
## Customer





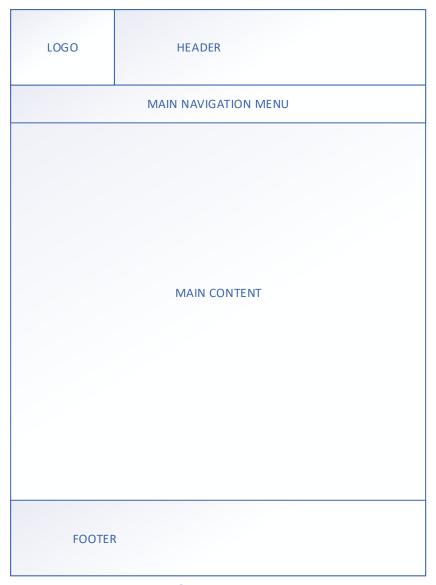
## Admin





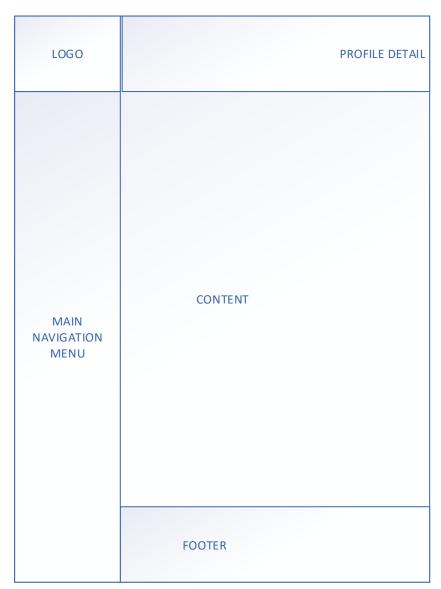


# **GUI STANDARDS DOCUMENT**



FRONT TEMPLATE



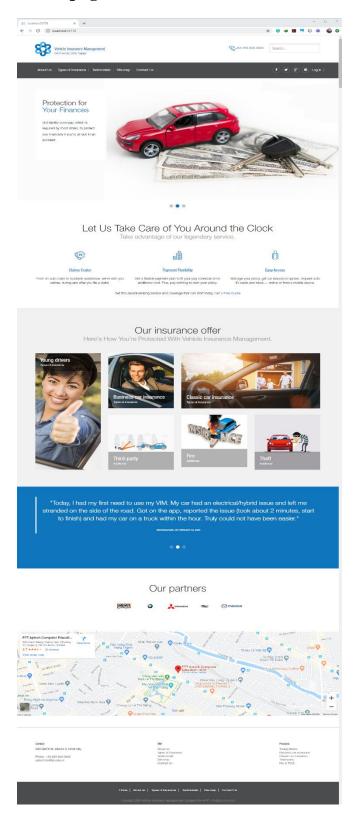


ADMIN TEMPLATE



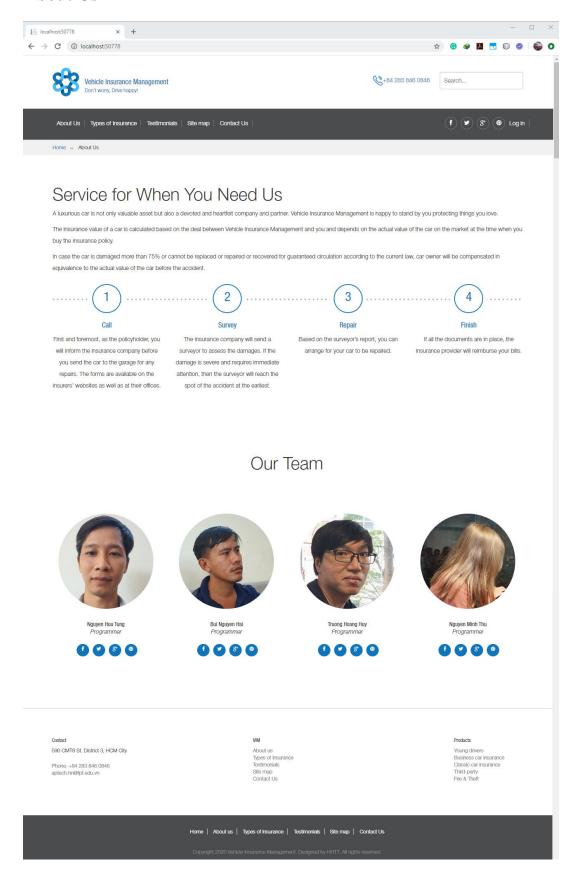
# INTERFACE DESIGN DOCUMENT

# Home page



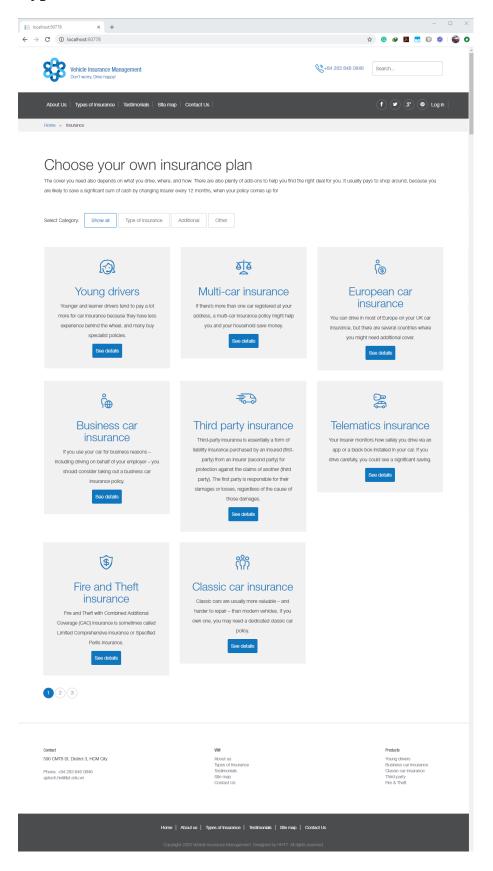


#### **About Us**



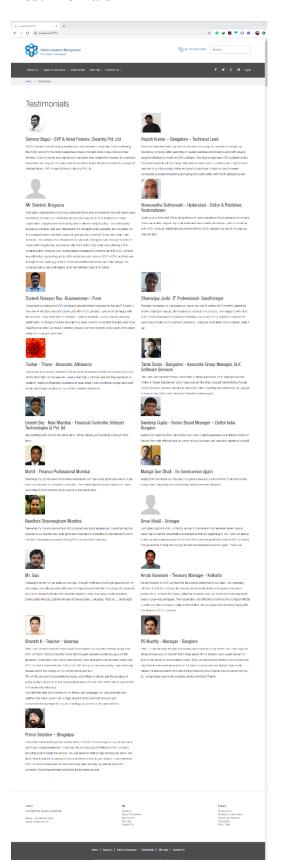


## **Types of Insurance**



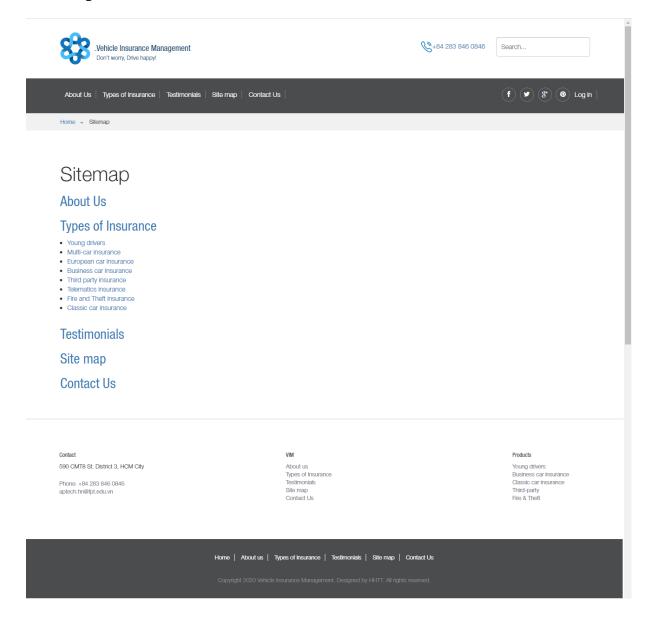


## **Testimonials**



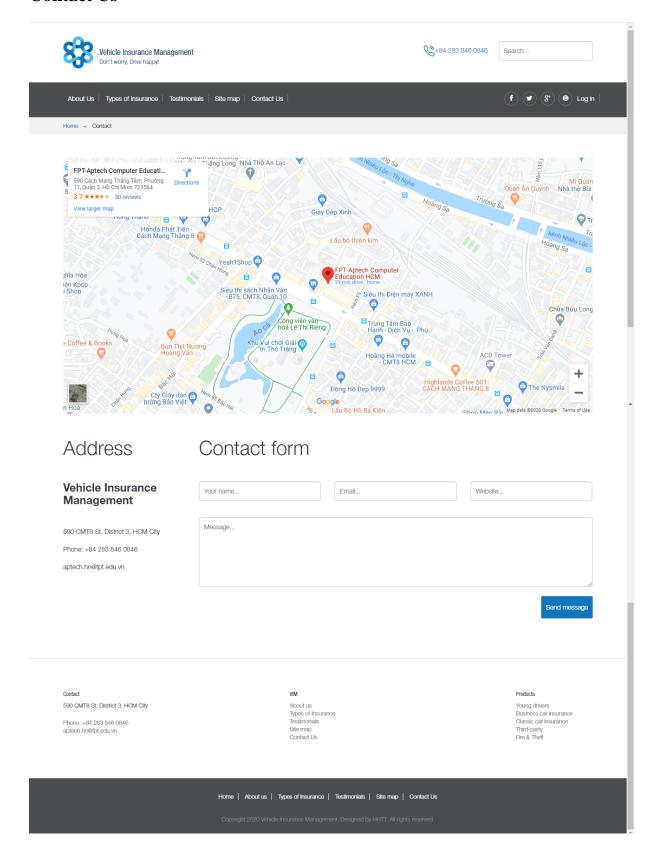


# Site map



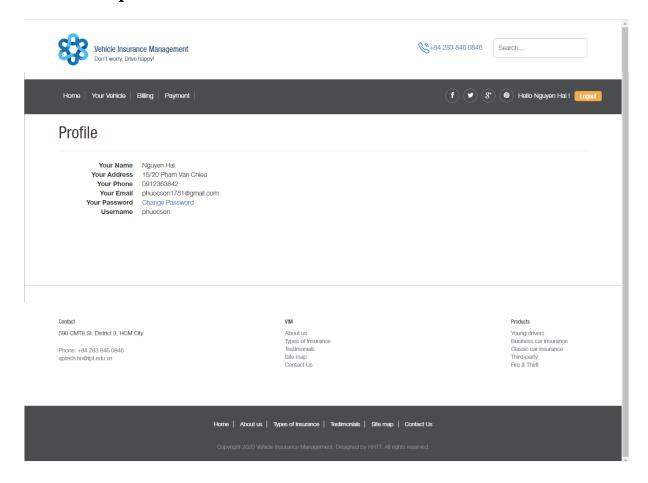


## **Contact Us**



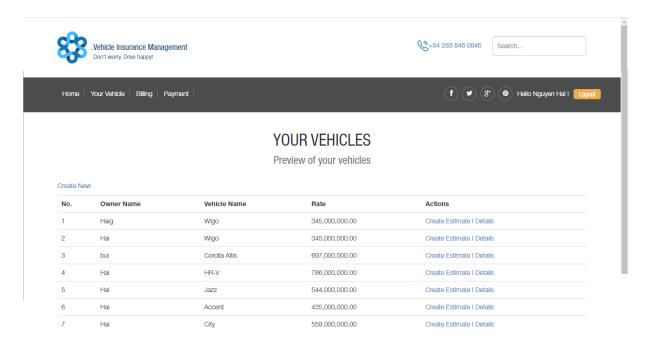


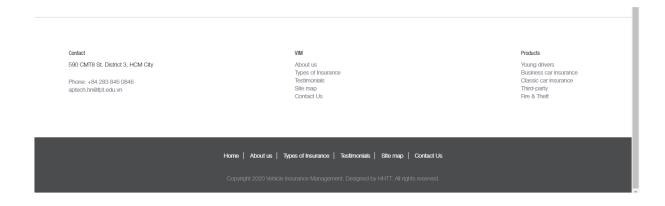
# **Customer - profile**





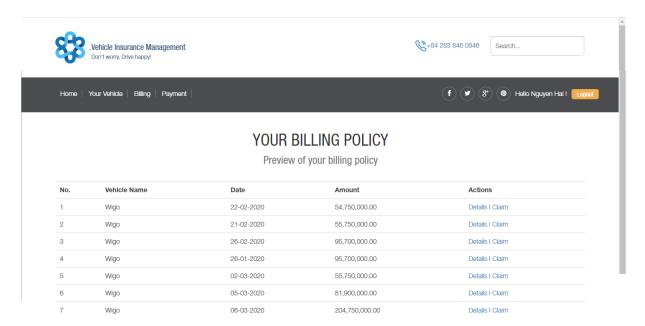
## **Customer – Your vehicle**

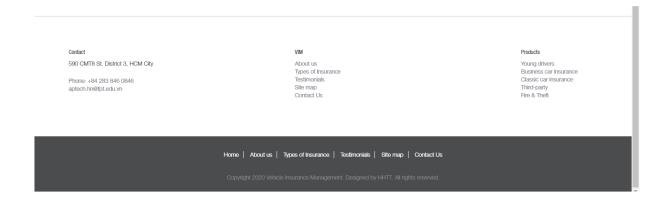






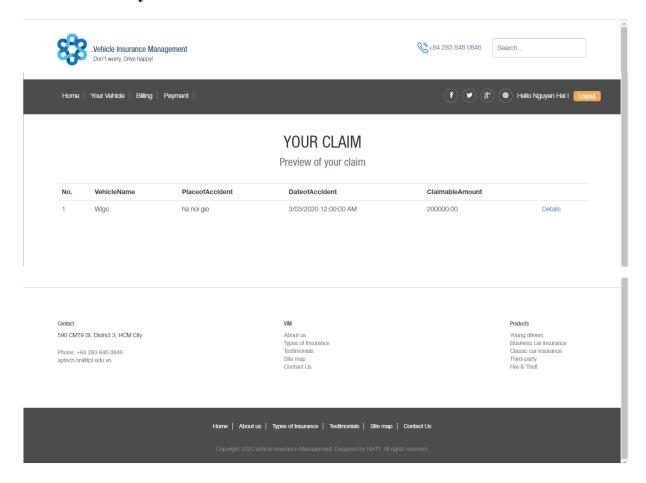
## **Customer - Billing**





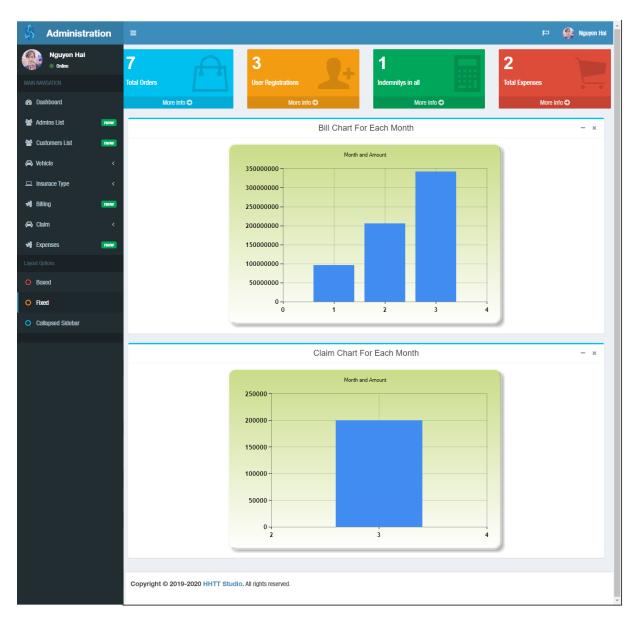


# **Customer - Payment**



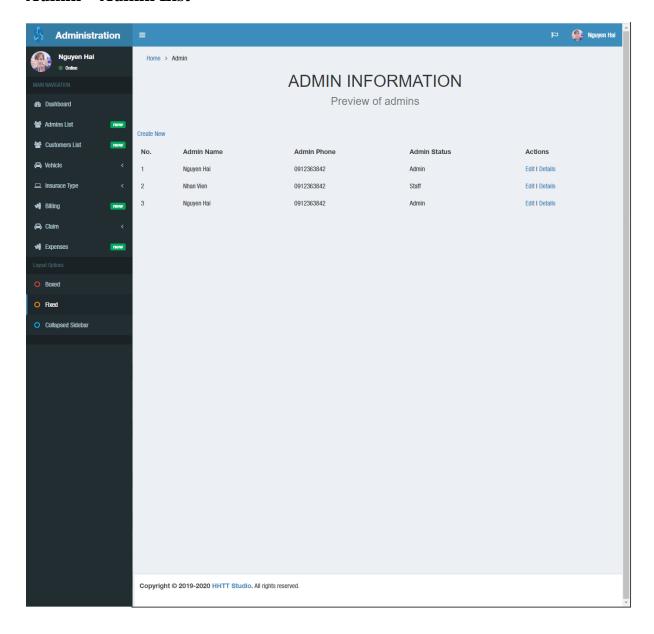


## Admin - Dashboard



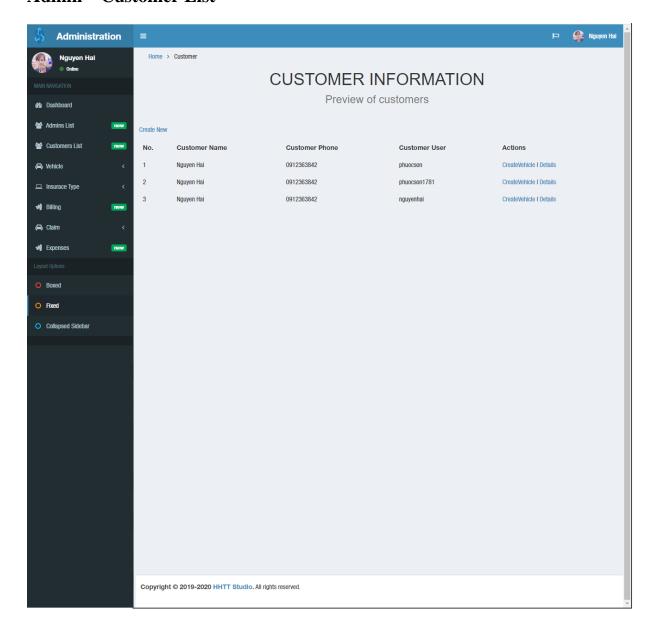


## Admin – Admin List





## **Admin – Customer List**





## Admin – Vehicle

VEHICLE INFORMATION  Preview of vehicles				
No.	Owner Name	Vehicle Name	<b>Customer Name</b>	Actions
1	Haig	Wigo	Nguyen Hai	Edit I Details
2	Hai	Wigo	Nguyen Hai	Edit I Details
3	bui	Corolla Altis	Nguyen Hai	Edit I Details
4	Hai	HR-V	Nguyen Hai	Edit I Details
5	Hai	Jazz	Nguyen Hai	Edit I Details
6	Hai	Accent	Nguyen Hai	Edit I Details
7	Hai	City	Nguyen Hai	Edit I Details

Home > Vehicle Model

# Vehicle Model

Preview of Vehicle Model

Per	anta	Ne	
UIT	alt	Ne	W

No.	Vehicle Model	Actions
1	Toyota	CreateVersion I Edit
2	Ford	CreateVersion I Edit
3	Honda	CreateVersion I Edit
4	Hyundai	CreateVersion I Edit
5	Kia	CreateVersion I Edit
6	Mazda	CreateVersion I Edit
7	Mitsubishi	CreateVersion I Edit
8	Nissan	CreateVersion I Edit
9	Lexus	CreateVersion I Edit
10	Mercedes Benz	CreateVersion I Edit
11	BMW	CreateVersion I Edit
12	Audi	CreateVersion I Edit



Home	> Vehicle Version				
VEHICLE VERSION  Preview of Vehicle Version					
No.	Vehicle Version	Vehicle Model	Version Status	Actions	
1	2018	Toyota	Active	CreateVehicleName I Edit	
2	2019	Toyota	Active	CreateVehicleName I Edit	
3	2020	Toyota	Active	CreateVehicleName I Edit	
4	2018	Ford	Active	CreateVehicleName   Edit	
5	2019	Ford	Active	CreateVehicleName I Edit	
6	2020	Ford	Active	CreateVehicleName I Edit	
7	2018	Honda	Active	CreateVehicleName I Edit	
8	2019	Honda	Active	CreateVehicleName   Edit	
9	2020	Honda	Active	CreateVehicleName   Edit	
10	2018	Hyundai	Active	CreateVehicleName I Edit	
11	2019	Hyundai	Active	CreateVehicleName I Edit	
12	2020	Hyundai	Active	CreateVehicleName I Edit	
13	2018	Kia	Active	CreateVehicleName I Edit	



Home > Vehicle Name					
VEHICLE NAME Preview of Vehicle Name					
No.	Vehicle Name	Vehicle Rate	Vehicle Status	Actions	
1	Wigo	345,000,000.00	Active	Edit I Details	
2	Vios	490,000,000.00	Active	Edit I Details	
3	Corolla Altis	697,000,000.00	Active	Edit I Details	
4	Yaris	650,000,000.00	Active	Edit I Details	
5	Camry	1,029,000,000.00	Active	Edit I Details	
6	Fortuner	1,033,000,000.00	Active	Edit I Details	
7	Land Cruiser	4,030,000,000.00	Active	Edit I Details	
8	Innova	771,000,000.00	Active	Edit I Details	
9	Yaris	650,000,000.00	Active	Edit I Details	
10	Wigo	345,000,000.00	Active	Edit I Details	
11	Vios	490,000,000.00	Active	Edit I Details	
12	Corolla Altis	697,000,000.00	Active	Edit I Details	
13	Camry	1,029,000,000.00	Active	Edit I Details	
14	Fortuner	1,033,000,000.00	Active	Edit I Details	
15	Land Cruiser	4,030,000,000.00	Active	Edit I Details	
16	Innova	771,000,000.00	Active	Edit I Details	

# Admin – Insurance type

	/ehicle Warranty	VEHICLE WARRANTY  Preview of Vehicle Warranty	
Create New	Warrenty Time	Waysanhi Chahia	Actions
NO.	Warranty Type	Warranty Status	Actions
1	1	Active	Edit
2	2	Active	Edit
3	5	Active	Edit

Home > Vehicle Policy Type

## **VEHICLE POLICY TYPE**

Preview of Vehicle Policy Type

#### Create New

No.	Policy Type Name	Policy Rate	Status	Actions
1	Young drivers	13	Active	Edit I Details
2	Business car insurance	12	Active	Edit I Details
2	Claccio car incurance	11	Activo	Edit I Dotoile

Home > Customer Add Prove

## **CUSTOMER ADD PROVE**

Preview of customer add prove

#### Create New

No.	Add Prove	Rate	Status	Actions
1	Third-party	1,000,000.00	Active	Edit I Details
2	Fire	3,000,000.00	Active	Edit I Details
3	Theft	4,000,000.00	Active	Edit I Details



# Admin – Billing

Home > Billing Policy  BILLING POLICY  Preview of Billing Policy				
No.	Date	Customer Name	Amount	Actions
1	22-02-2020	Nguyen Hai	54,750,000.00	Edit I Details
2	21-02-2020	Nguyen Hai	55,750,000.00	Edit I Details
3	26-02-2020	Nguyen Hai	95,700,000.00	Edit I Details
4	26-01-2020	Nguyen Hai	95,700,000.00	Edit I Details
5	02-03-2020	Nguyen Hai	55,750,000.00	Edit I Details
6	05-03-2020	Nguyen Hai	81,900,000.00	Edit I Details
7	06-03-2020	Nguyen Hai	204,750,000.00	Edit I Details

## Admin – Claim

Home	CLAIMS PAYMENT INFORMATION  Preview of claims payment				
No.	Customer Name	Place of Accident	Date of Accident	Claim able Amount	Actions
1	Nguyen Hai	ha noi gio	03-03-2020	200,000.00	Edit I Details



CUSTOMER CLAIM INFORMATION

Preview of claim ask

No. Customer Name Date of Accident Place of Accident Status Actions

# Admin – Expenses

Home >	EXPENSES INFORMATION  Preview of expenses				
Create New	Create New				
No.	Date	Type of Expense	Amount		
1	01-03-2020	Staff	10,000,000.00	Edit	
2	01-03-2020	Buycar	10,000,000.00	Edit	