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|  | **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.**

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**ONLINE MOBILE SERVICE**

|  |  |  |
| --- | --- | --- |
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| **Semester** | 3 | |
| **Batch No** | T1.1710.M0 | |
| **Group No** | 4 | |
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| 2. | TRAN THI HUYEN MY | Student1073133 |
| 3. | DO HUU MINH MAN | Student1053922 |

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Month ……… Year ………

**This is to certify that**

**have successfully designed & developed:**

eProject: Online Mobile Service

**Submitted by:**

Mrs. Le Mong Thuy

**Date of issue:** December 31st 2018

**Authorized Signature:**

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# REVIEW 01

REVIEW 01

## Acknowledgment

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairpersons at the Head Office of Aptech Worldwide, Aptech – Vietnam, and FPT – Aptech Center who have been organizing and looking after our studying course.

There are no words to show our appreciation for teachers of FPT Aptech Centre who have been organizing and looking after us during our studying course to finish this project. Our special thanks Mrs Le Mong Thuy who works day by day to teach and guide us ,e-Project Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

Group 4 – FPT Aptech.

## Introduction

With a fast and constantly changing pace of life, saving time is essential. For this reason we should use modern and equally friendly technology tools to help us in daily essential activities. In particular, communication and connection always hold an important position to develop life, let us help you. Our team had develop a mobile services website named KMobile with these features:

#### For KMobile’s customers:

* Provide an interactive GUI (Graphical User Interface) on the world wide web for the general customers.
* Convinient for all customers (member or non-member). They can online recharge the mobile.
* Especially, the members can paying the Post Paid bill of the mobile, special recharges and using any of the services.

#### For KMobile’s administrators:

* Provide an easy-to-use, intuitive Graphical User Interface (GUI) as part of the Clerk / Administrator's working desktop environment.
* Admin can manage the member’s information (phone number, address, transaction details done daily, …)
* Admin also can manage the database; add a new service, update a service or delete service.

## Requirement Specification

### Customer's Requirements

* The Home Page should display the name of the organisation and all the mandatary links required.
* Navigation link such as:
  + Online Recharge
  + My Account
  + Post Bill Payment
  + Feedback
  + Site Map
  + About Us
  + Contact Us
  + Customer Care
* When the user clicks on Online Recharge Tab
  + It must first ask the mobile number (10 digit validation) and then click on Proceed button.
  + Then it must show this links
    - Top Up :
      * It should list all the talk time available in the tabular fashion and user can select the appropriate one.
      * Once they select the required data they need to click on “SUBMIT BUTTON”.
      * Then it should ask to proceed with the Payment.
      * User has to complete the payment details.
      * Once the payment is done a transaction script must display on the screen which the user can take the print out or cancel as per the wish.
    - Special Recharge:
      * It should list all the Special Recharge available in the tabular fashion and user can select the appropriate one.
      * Once they select the required data they need to click on “SUBMIT BUTTON”.
      * Then it should ask to proceed with the Payment.
      * User has to complete the payment details.
      * Once the payment is done a transaction script must display on the screen which the user can take the print out or cancel as per the wish.
* My Account:
  + - It must allow the user to create the account where username must be there mobile number details.
    - User must able to activate services such as
      * Do not Disturb
      * Caller tunes
      * Online Recharge (same as above)
    - Edit Personal Details
* Post Bill Payment:
  + Here the user can enter the post paid mobile number and pay the bill online.
* Feed Back :
  + To take the feed back from the user
* Site Map:
* About Us:
  + Must display the About us message
* Contact Us:
  + Must display the Contact details of the entire Mobile centre.
* Customer Care:
  + Must display the customer care number.

### Functional Requirements

#### Admin login:

* To view the entire transaction details done daily.
* To view the details of the registed users.

#### User login:

* Online Recharge.
* View, update Account Information.
* Paying Post Paid bill.
* Select Special Recharge.
* View, print transaction script.
* Send feedback.

#### Guests Users:

* Register an account.
* Login if have account
* View the site details.
* Send feedback.
* Also can perform the activity of Online Recharge.

### Hardware / Software Requirements

* + - 1. **Server Requirements.**

**HARDWARE:**

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **CPU** | Processor type: *Pentium 166 or better.*  Processor speed: *2.0 GHz or faster.* |
| **OS** | *Microsoft Windows Server 2003 with IIS* |
| **Memory (RAM)** | Minimum: *512 MB.*  Recommended: *2 GB or more.* |
| **Hard Drive** | Minimum: *200 MB.*  Recommended: *50 GB or more.*  Maximum: *Operating system maximum* |

**SOFTWARE**

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **Microsoft .NET Framework** | *Version 4.7.2* |
| **RDBMS** | *Microsoft SQL Server 2017* |

* + - 1. **Client Requirements**

**HARDWARE:**

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **CPU** | Processor type: *Pentium III-compatible processor or faster*  Processor speed: *Recommended 1.0 GHz or faster* |
| **OS** | *All OS(Window ,Linux ,Android ,Mac OS …)* |
| **Memory (RAM)** | Minimum: *512 MB*  Recommended: *1 GB or more*  Maximum: *Operating system maximum* |
| **Hard Drive** | Minimum: *50 MB.*  Recommended: *20 GB or more.*  Maximum: *Operating system maximum* |

**SOFTWARE:**

|  |  |
| --- | --- |
| **Component** | **Requirement** |
| **Web Browser** | *IE 4.0 , Firefox 3.0, Chrome or Higher* |

### Development Software

* Microsoft SQL Server Management Studio 2017.
* Microsoft Visual Studio 2017.
* Microsoft Visio 2016.
* Git.

### Technology

* ASP.Net MVC 5.
* .Net Framework 4.7.2.
* WCF Service.
* Entity Framework 6.2.0.
* HTML 5, CSS 3, Javascript, Ajax, Bootstrap, Jquery.

## Task sheet Review 01

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project Ref.**  **No: *3*** | **Project Title:**  ***Online Mobile Service*** | **Date of Preparation of Activity Plan** | | | |
| **No.** | **Task** | **Actual Start Date** | **Actual Days** | **Team Member Names** | **Status** |
| 1 | Acknowledgment | Jan 1st, 2019 | 2 | All Members | Completed |
| 2 | Introduction | All Members | Completed |
| 3 | Requirement Specification | All Members | Completed |
| 4 | Task sheet | Anh Khoa | Completed |

|  |  |  |
| --- | --- | --- |
| **Date Complete** | **Prepare By: Group 4** | **Approved By: Faculty** |
| Date: Jan 3rd , 2019 | Team Leader  Nguyen Hoang Anh Khoa | Le Mong Thuy |

# REVIEW 02

REVIEW 02

## Data Flow Diagram

* 1. **Web User:**



**\*\*Funcition Online Recharge:**



**\*\*Funcition of Member:**



* 1. **Web Master:**



## Flow Diagram

* 1. **Web User:**



* 1. **Web Master:**



## Use Case.



* 1. **Web User:**
     + 1. **Guest:**



* + - 1. **Member:**



* 1. **Web Master:**
     + 1. **Super admin:**



* + - 1. **Admin:**



## Entity Relationship Diagram

* 1. **Entity – Attribute:**









* 1. **Entity Relationship:**



## Task sheet Review 02.

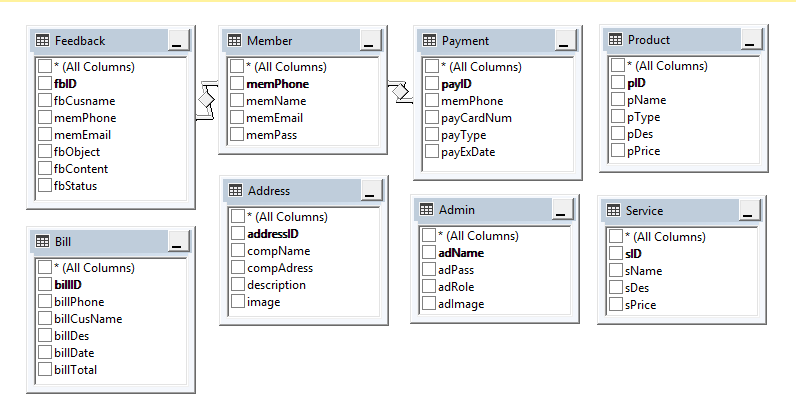
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project Ref.**  **No: *3*** | **Project Title:**  ***Online Mobile Service*** | **Date of Preparation of Activity Plan** | | | |
| **No.** | **Task** | **Actual Start Date** | **Actual Days** | **Team Member Names** | **Status** |
| 1 | Flow Diagram | Jan 3th, 2019 | 3 | Anh Khoa | Completed |
| 2 | Use Case | Huyen My | Completed |
| 3 | Data Flow Diagram | All Members | Completed |
| 4 | Entity Relationship Diagram | All Members | Completed |
| 5 | Task sheet | Anh Khoa | Completed |

|  |  |  |
| --- | --- | --- |
| **Date Complete** | **Prepare By: Group 4** | **Approved By: Faculty** |
| Date: Jan 6th , 2019 | Team Leader  Nguyen Hoang Anh Khoa | Le Mong Thuy |

# REVIEW 03

REVIEW 03

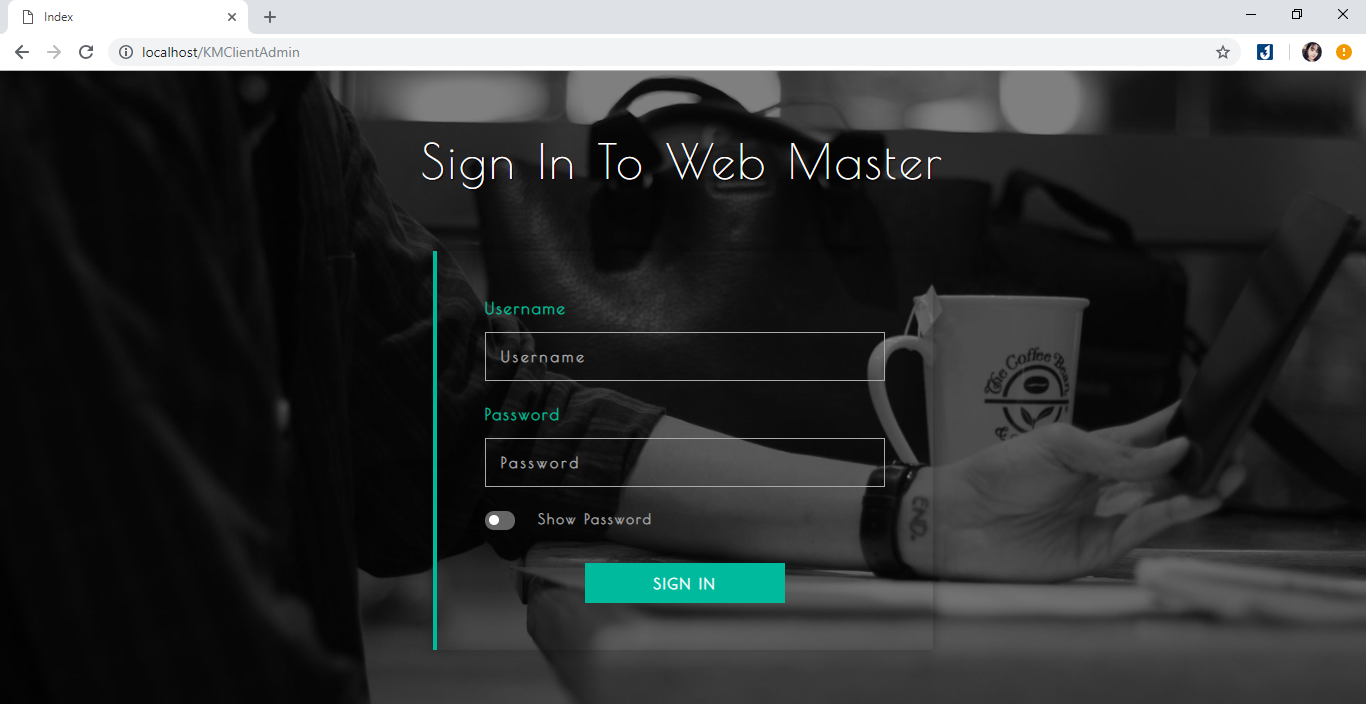
1. Database
   1. Database Diagram



* 1. Database Design

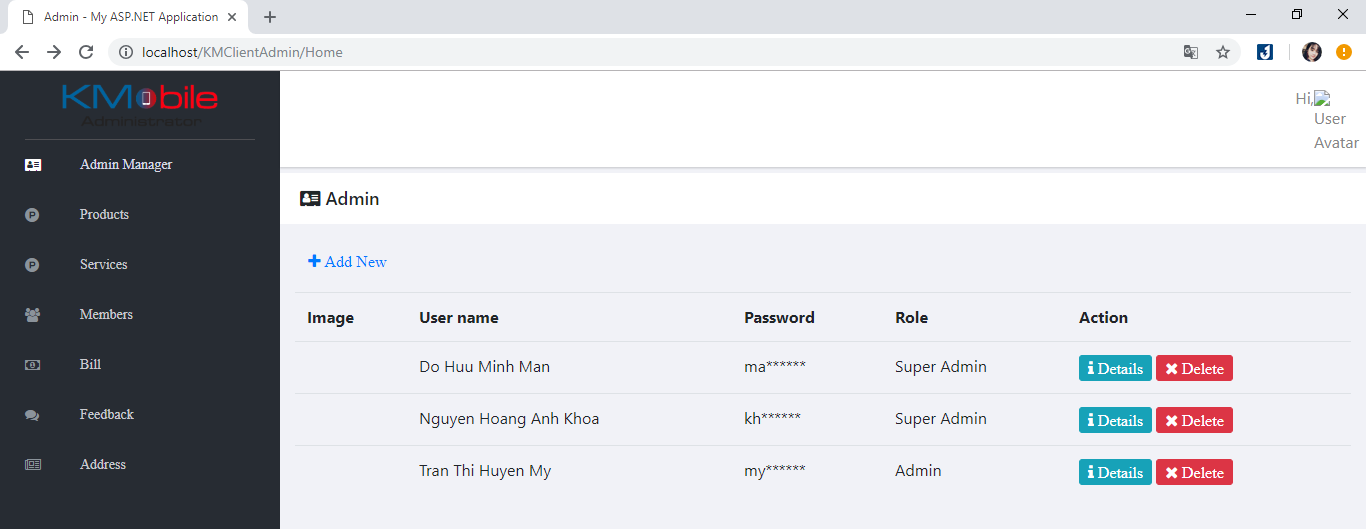
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Address** | | |  | **Admin** | | |
| **Column Name** | **Data Type** | **Nulls** |  | **Column Name** | **Data Type** | **Nulls** |
| **addressID** | **int** | **FALSE** |  | **adName** | **nvarchar(50)** | **FALSE** |
| compName | nvarchar(100) | FALSE |  | adPass | nvarchar(50) | FALSE |
| compAdress | nvarchar(100) | FALSE |  | adRole | bit | FALSE |
| description | nvarchar(200) | TRUE |  | adImage | nvarchar(MAX) | FALSE |
| image | nvarchar(MAX) | TRUE |  |  |  |  |
|  |  |  |  |  |  |  |
| **Bill** | | |  | **Feedback** | | |
| **Column Name** | **Data Type** | **Nulls** |  | **Column Name** | **Data Type** | **Nulls** |
| **billID** | **int** | **FALSE** |  | **fbID** | **int** | **FALSE** |
| billPhone | nvarchar(11) | FALSE |  | fbCusname | nvarchar(50) | FALSE |
| billCusName | nvarchar(50) | FALSE |  | memPhone | nvarchar(11) | FALSE |
| billDes | nvarchar(100) | FALSE |  | memEmail | nvarchar(MAX) | FALSE |
| billDate | datetime | FALSE |  | fbObject | bit | FALSE |
| billTotal | float | FALSE |  | fbContent | nvarchar(1000) | FALSE |
|  |  |  |  | fbStatus | bit | FALSE |
|  |  |  |  |  |  |  |
| **Member** | | |  | **Payment** | | |
| **Column Name** | **Data Type** | **Nulls** |  | **Column Name** | **Data Type** | **Nulls** |
| **memPhone** | **nvarchar(11)** | **FALSE** |  | **payID** | **int** | **FALSE** |
| memName | nvarchar(50) | FALSE |  | memPhone | nvarchar(11) | FALSE |
| memEmail | nvarchar(MAX) | FALSE |  | payCardNum | nvarchar(20) | FALSE |
| memPass | nvarchar(50) | FALSE |  | payType | nvarchar(20) | FALSE |
|  |  |  |  | payExDate | datetime | FALSE |
|  |  |  |  |  |  |  |
| **Product** | | |  | **Service** | | |
| **Column Name** | **Data Type** | **Nulls** |  | **Column Name** | **Data Type** | **Nulls** |
| **pID** | **int** | **FALSE** |  | **sID** | **int** | **FALSE** |
| pName | nvarchar(50) | FALSE |  | sName | nvarchar(50) | FALSE |
| pType | bit | FALSE |  | sDes | nvarchar(100) | FALSE |
| pDes | nvarchar(100) | FALSE |  | sPrice | float | FALSE |
| pPrice | float | FALSE |  |  |  |  |

1. GUI
   1. Web User
   2. Web Master
      1. Admin Login



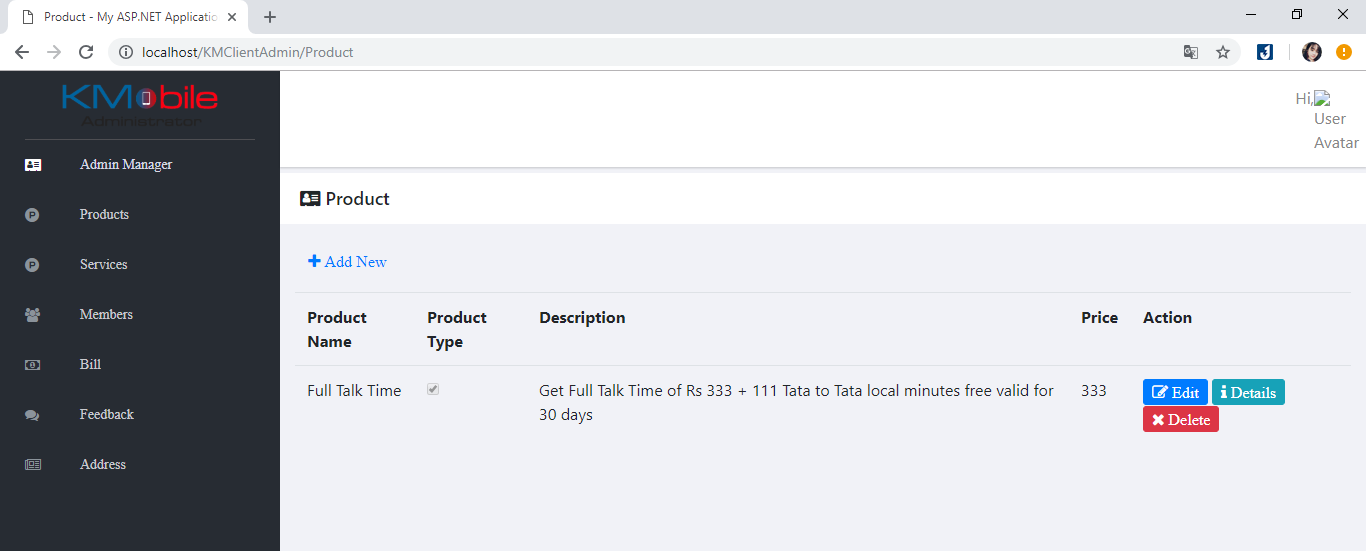
Login to the Web master.

* + 1. Admin Manager ( Web Master Home)



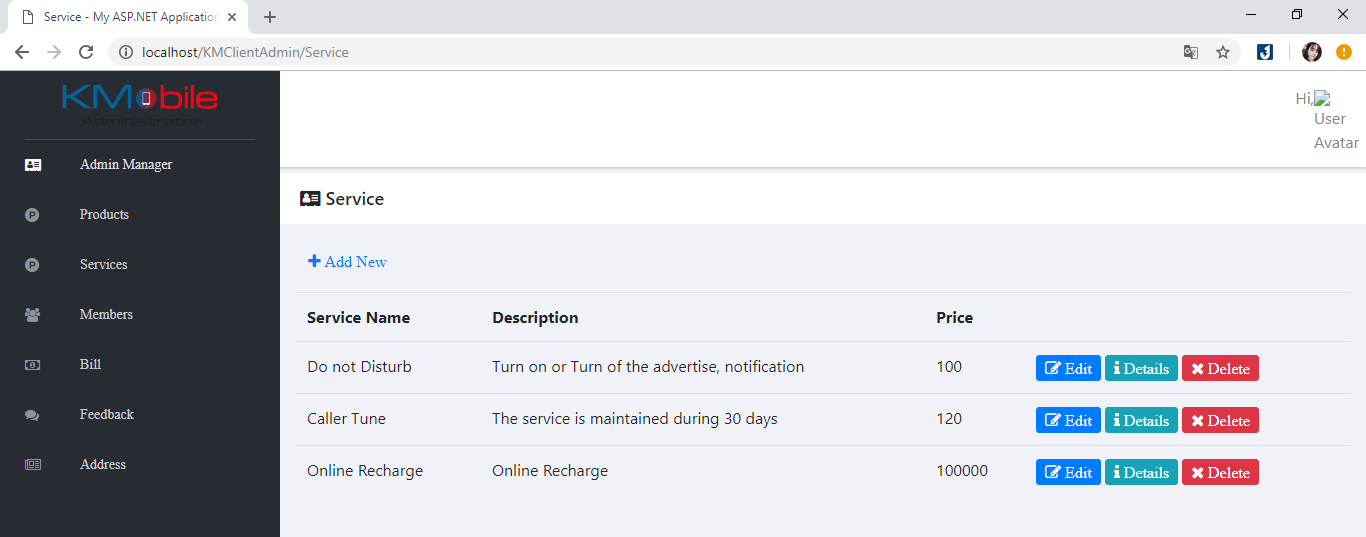
If user login is a Super Admin, they can do the Action “Delete” and “Add New” admin.

* + 1. Products



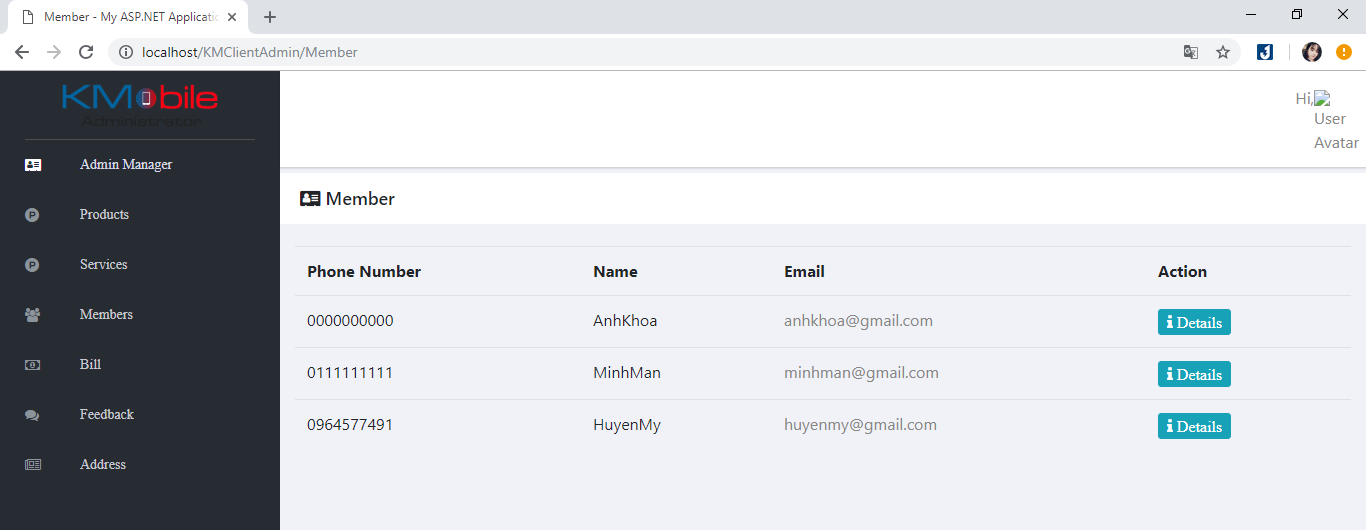
Admins can view the details of products, “Add New” a product, “Edit” or “Delete” a product.

* + 1. Services



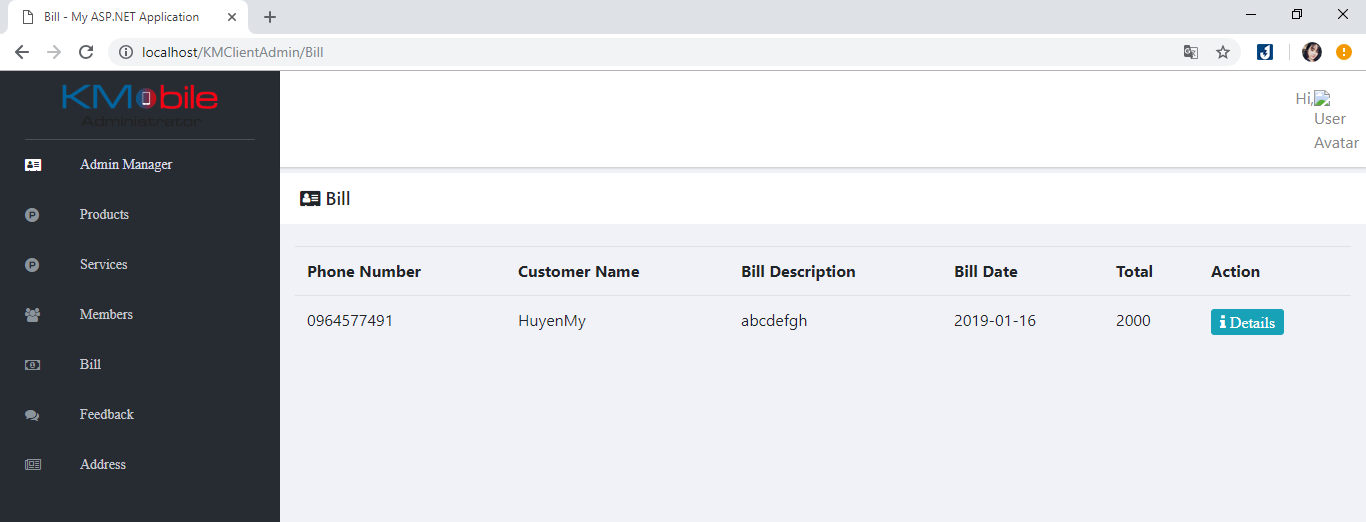
Admins can view the details of services, “Add New” a service, “Edit” or “Delete” a service.

* + 1. Members



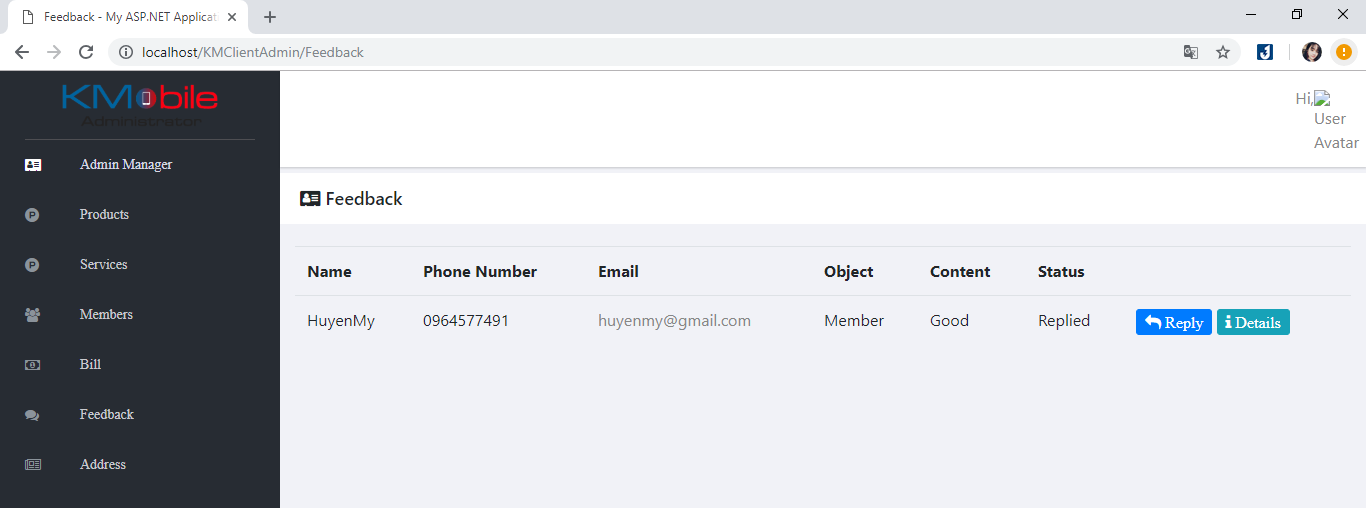
Admins can view details of Members except their password.

* + 1. Bill



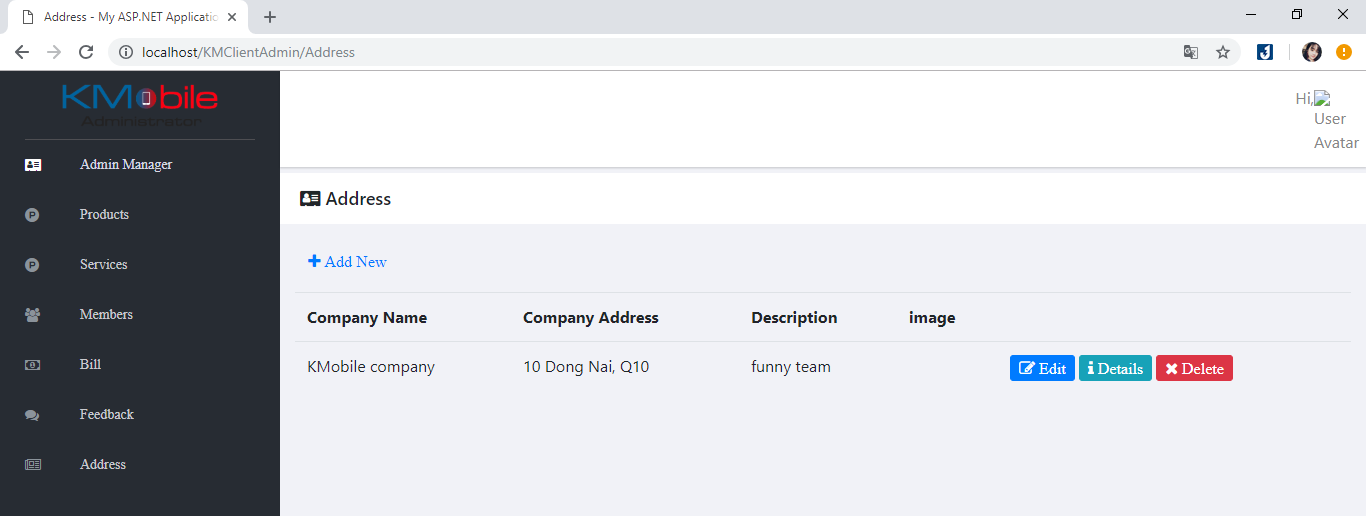
Admins can view the Bill details.

* + 1. Feedback



Admins can view and Reply the Details of the Feedback.

* + 1. Address



Admins can “Add New”, “Edit” or “Delete” a Company.