

cake shop project

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REVIEW 1

Problem Definition

1. **The Object Of The Project**

This project will aim at providing a convenient way to by cake online. This will be accessible to all customers who have a valid User Id and Password. This system provides the following facilities:

* Create new account
* Search the cake you want
* Add cake to cart
* Check out with shipping information
* View your orders history

Customer Request   
 Specification

1. **Functional Requirements**

Following is a list of functionalities of the system. More functionalities that you find appropriate can be added to this list.

* Customer must have a valid User Id and password to login to the system
* If a wrong password is given thrice in succession, that account will be locked and the customer will not be able to use it. When an invalid password is entered a warning is given to the user that his account is going to get locked.
* Customers can search cake by name.
* Customer can change the amount of cake they want to add to their cart.
* Customer can delete unwanted cake from cart.
* Customer can view the order and its order detail.

# Hardware/ Software Requirements

By adding new technologies such as ASP.NET 4.5, AJAX, Web Service and 3-tier architecture, the web site becomes more interactive with users, security and easily updated.

1. **System Requirement**

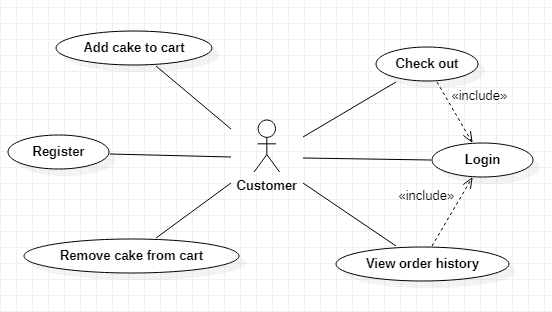
* **For Users**
  + **Hardware**
    - CPU: Intel Core i5 2.0 GHz or higher
    - RAM: 1024 MB or higher
  + **Software**
    - OS: Windows 7/XP Professional and above..
    - Browser: Internet Explorer 8.0 or higher
* **For Software Developers**
  + **Hardware**
    - CPU: Intel Core i5 2.0 GHz or higher
    - RAM: 2048 MB or higher
  + **Software**
    - OS: Windows 7 Professional and above…
    - Environment: Microsoft .NET Framework 3.5
    - Database Management System: Microsoft SQL Server 2014
    - IDE: Microsoft Visual Studio 2019

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| --- | --- | --- |
| **Date: Sep 10, 2012** | **Prepared by Project**  **Team Leader:** | **Approved by**  **Mr Ho Hoan Kiem** |
| **Signature** | **Anh** |  |

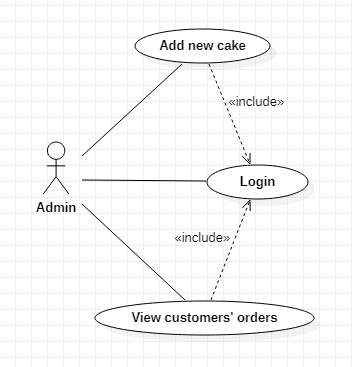
REVIEW 2

**USE CASE DIAGRAM**

**Customer :**

****

**Administrators :**

****

**USE CASE DESCRIPTION**

1. **Actor:**

* **Customers:** include all visitors that use this website. They are guests and members. ***Guest*** is the person that uses this website but doesn’t register. ***Member*** is the person that uses this website and register to become a member of us.
* **Website administrators:** The person(s) that manage and maintain this web site.

1. **Usecase:**

|  |  |
| --- | --- |
| **Usecase** | Register |
| **Short Description** | Register account to become a member of the web site. |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
| **Main flow** | \_Guest must provide mandatory information :   * Username * Password. * Confirm Password. * Phone * Address   \_Guest clicks on Register button.  \_System checks the information which guest provided  \_System create new account for guest that registers to this website.  \_Guest becomes a member of this website. |
| **Alternative flow(s)** | \_If the mandatory information that guest provided, is missed or not exactly, system notify the error. All cases are :   * Username has existed in Database. * Password is less than 6 characters or more than 30 characters. * Confirm Password and Password are not the same. * Any fields are blank.   \_If the information that guest provided, is invalid form, system notify the error. All cases are :   * Phone number has any character is not a digit. |

|  |  |
| --- | --- |
| **Usecase** | Login |
| **Short Description** | Log in website to use any function of member. |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
| **Main flow** | \_Guest inputs the login information :   * Username. * Password.   \_Guest clicks on the Login button.  \_System check the Username and Password.  \_If Username and Password are valid, system will move member to Homepage.  \_ If a wrong password is given thrice in succession, that account will notify and the customer will have to retry. |
| **Alternative flow(s)** | \_If Username field or Password field is invalid form or blank when guest clicks on the “Login” button, system will notify the error. |

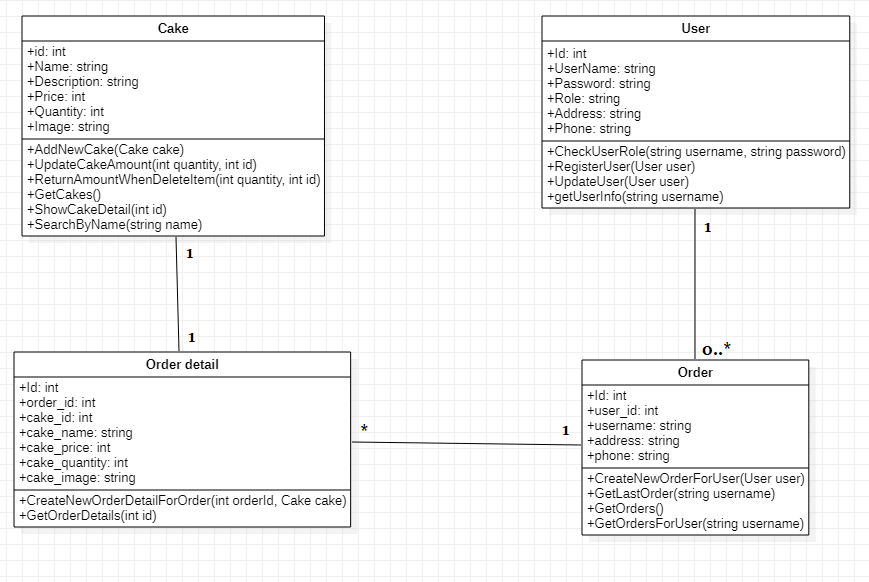
|  |  |
| --- | --- |
| **Usecase** | Check out |
| **Short Description** | Customers can checkout |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
| **Main flow** | \_Guest login to this website.  \_Customer click to view the cake’s information.  \_Customer input the number of cake  \_Customer click the checkout button. |
| **Alternative flow(s)** | \_If the cake’s quantity is down to 0, the system show the “Out of stock”  Message.  \_Customer can remove cake from cart  \_The checkout button is invisible if there are no cake in cart. |

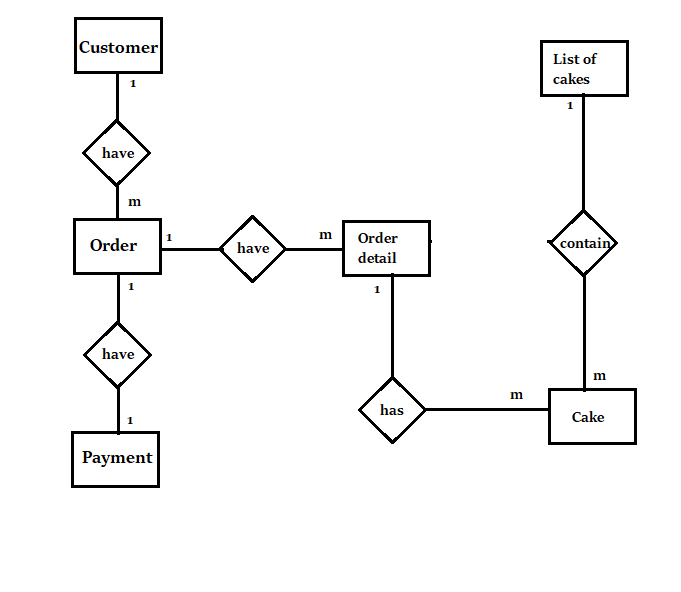
|  |  |
| --- | --- |
| **Usecase** | View Customer’s Orders |
| **Short Description** | Administrator view customer’s order. |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
|  |  |
|  |  |
| **Main flow** | Administrator clicks on the “View all orders” button.  \_Administrator choose the order that administrator wants to see information.  \_System shows the customer’s order to the administrator. |
| **Alternative flow(s)** | \_If server notifies any error when it’s processing, system must be write report into Log file. |

|  |  |
| --- | --- |
| **Usecase** | Administrator Add new cake |
| **Short Description** | Add new cake to the system |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
| **Main flow** | \_Admin can add new cake to the system by input the field.  \_System check this information is valid and save it on the server.  \_System show new cake on the main page. |
| **Alternative flow(s)** | \_If any information input are invalid, system will notify the error. |

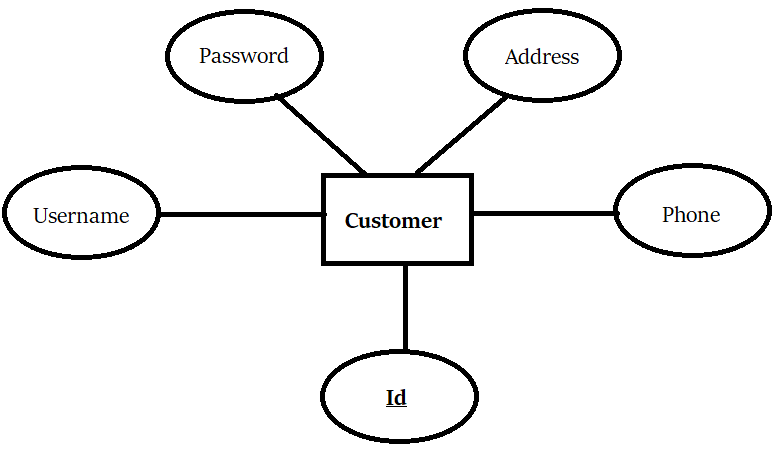
|  |  |
| --- | --- |
| **Usecase** | Search cakes |
| **Short Description** | Search all cake’s information in the system. |
| **Pre-Conditions** |  |
| **Post-Conditions** |  |
| **Main flow** | \_Customer inputs the information that wants to see in the search field.  \_Customer clicks on the “Search” button.  \_System shows the result to the customer. |
| **Alternative flow(s)** |  |

**CLASS DIAGRAM**

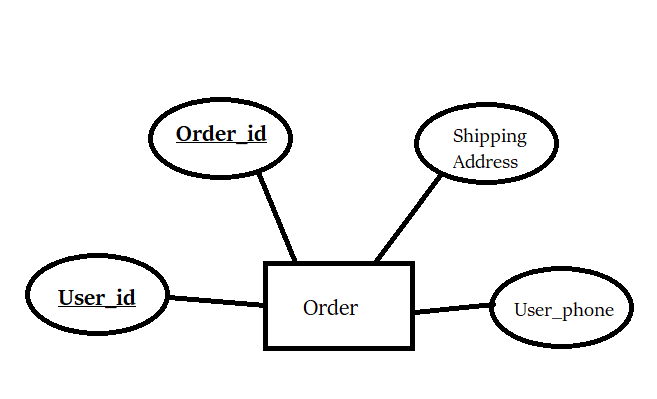
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**ENTITY RELATIONSHIP DIAGRAM (ERD)  
  
  
  
  
ENTITY DESCRIPTION**

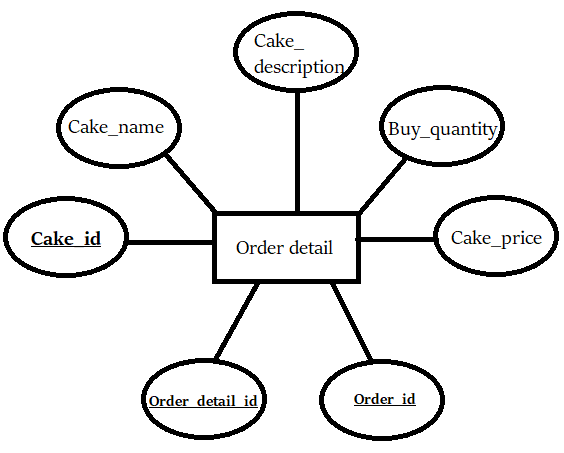
* 1. **Account Customer :**



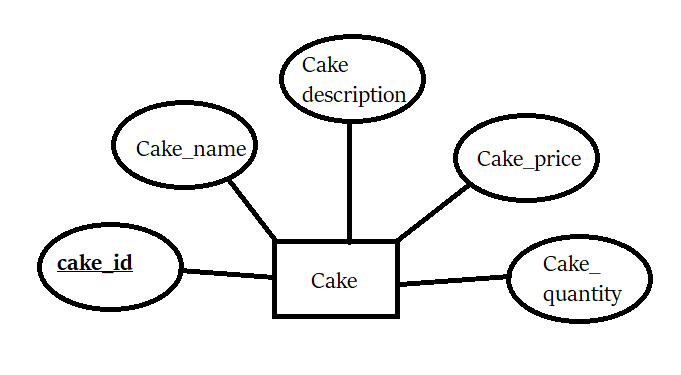
* 1. **Order:**



* 1. **Order detail:**



* 1. **Cake:**



**TABLE DESIGN**

1. **Account User:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**Id | int | Identity | Not Null | User ID |
| 2 | ✓Username | nvarchar | 255 | Not Null | User’s username |
| 3 | Password | nvarchar | 255 | Not Null | User’s password |
| 4 | role | nvarchar | 10 | Not Null | User’s role |
| 6 | address | nvarchar | 50 | Allow Null | User’s address |
| 7 | ✓phone | nvarchar | 50 | Allow Null | User’s contact number |

1. **Cake Information :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**Id | Int | Identity | Not Null | ID |
| 2 | Cake\_name | nvarchar | 255 | Not Null | Cake’s name |
| 3 | Cake\_description | nvarchar | MAX | Not Null | Cake’s description |
| 4 | Cake\_price | int |  | Not Null | Cake unit price |
| 5 | Cake\_quantity | int |  | Not Null | Cake quantity in stock |
| 6 | Cake\_image | nvarchar | MAX | Not Null | Cake\_image |

1. **Order :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**Order\_id | int | Identity | Not Null | Order’s id |
| 2 | User\_id | int | Identity | Not Null | Buyer’s id |
| 3 | username | nvarchar | 255 | Not Null | Buyer’s username |
| 4 | address | nvarchar | 255 | Not Null | Buyer’s address |
| 5 | phone | nvarchar | 255 | Not Null | Buyer’s contact number |

1. **Order detail:**

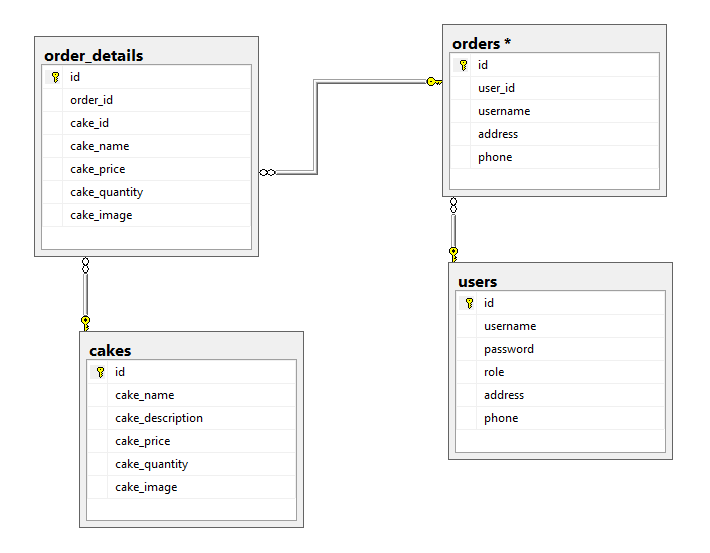
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**Order\_detail\_ID | int | Identity | Not Null | Order detail’s ID |
| 2 | Order\_detail | int | Identity | Not Null | Order’s id |
| 3 | Id | Int | Identity | Not Null | ID |
| 4 | Cake\_name | nvarchar | 255 | Not Null | Cake’s name |
| 5 | Cake\_description | nvarchar | MAX | Not Null | Cake’s description |
| 6 | Cake\_price | int |  | Not Null | Cake unit price |
| 7 | Cake\_quantity | int |  | Not Null | Cake quantity in stock |
| 6 | Cake\_image | nvarchar | MAX | Not Null | Cake\_image |

**Note**

**🗝** Primary key

✓ Unique constraint

**TABLE RELATIONSHIP DIAGRAM**

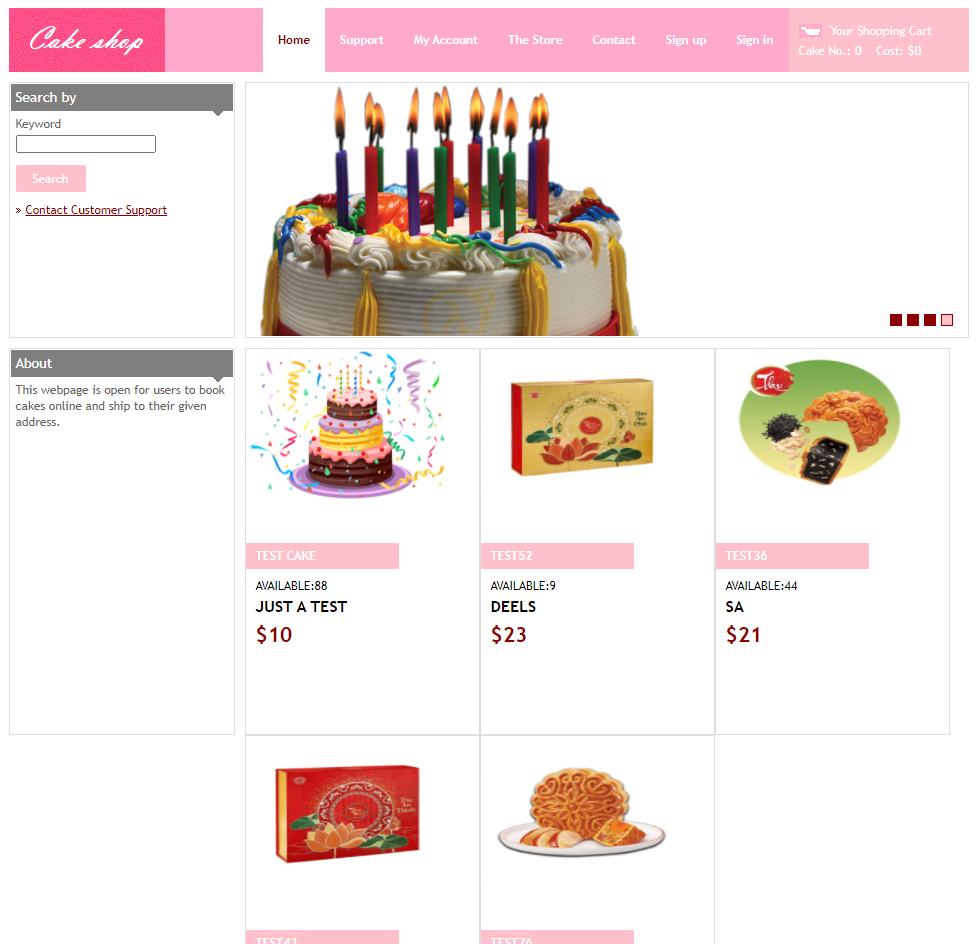
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| --- | --- | --- |
| **Date: Sep 20, 2012** | **Prepared by Project Group 4**  **Team Leader:** | **Approved by**  **Mr. Ho Hoan Kiem** |
| **Signature** |  |  |

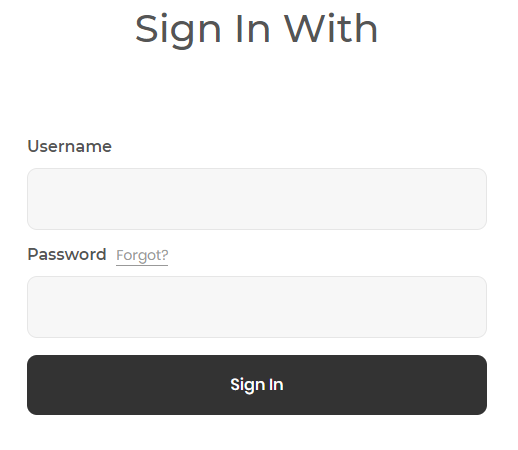
REVIEW 3

**INTERFACE DESIGN**

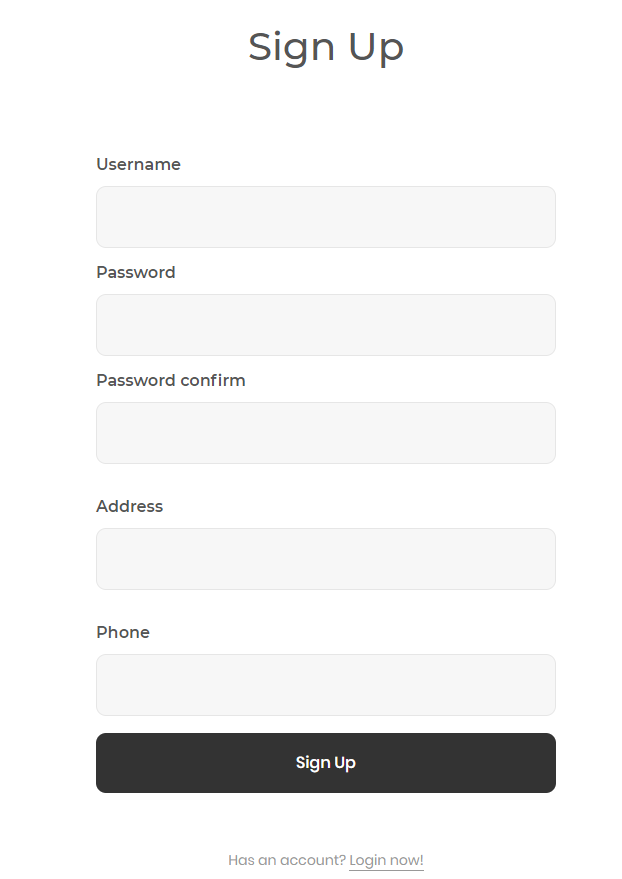
1. **Home Page**



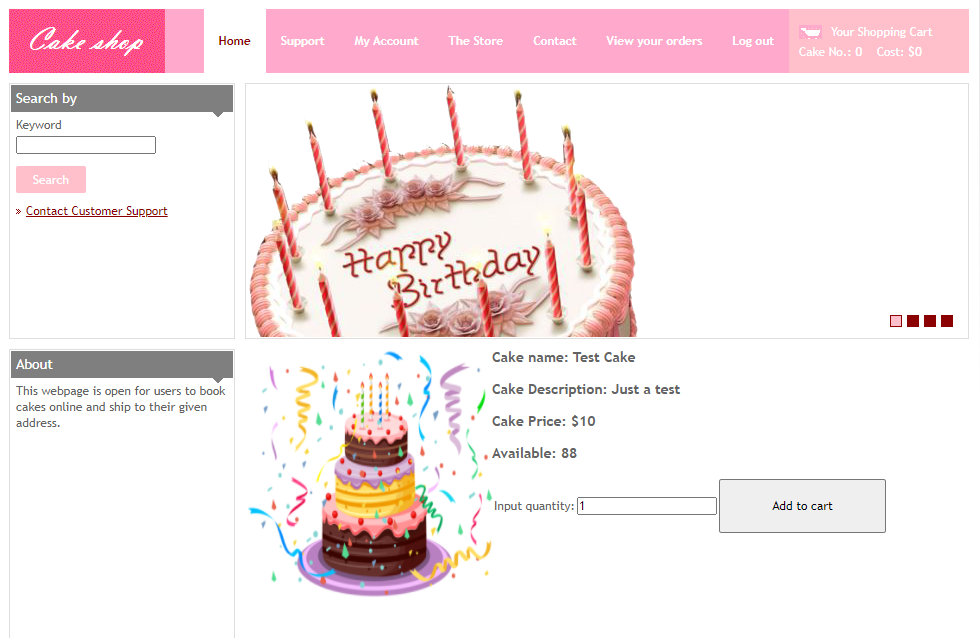
1. **Login:**



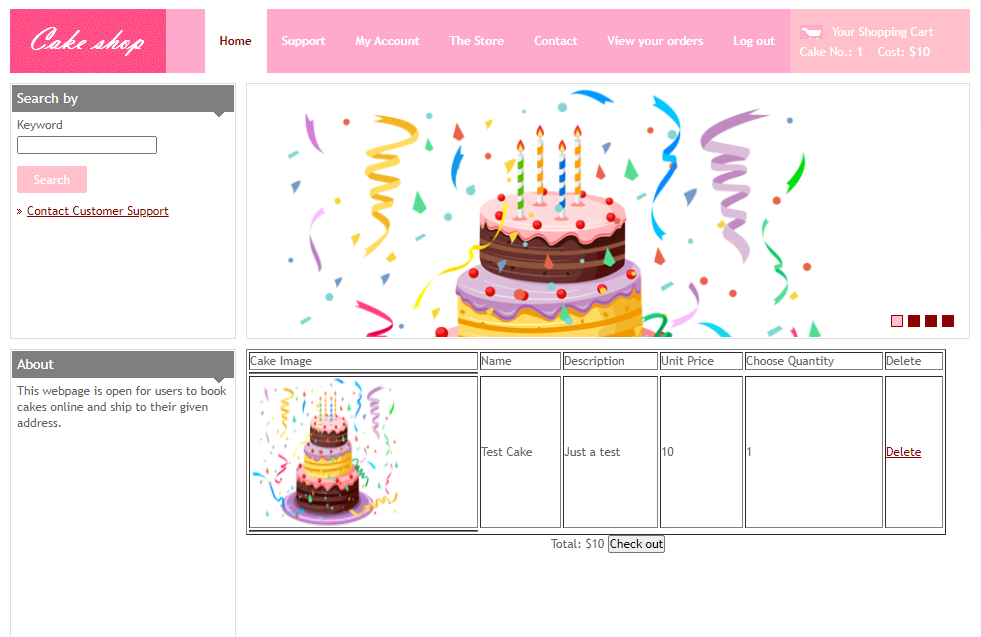
1. **Register new account:**



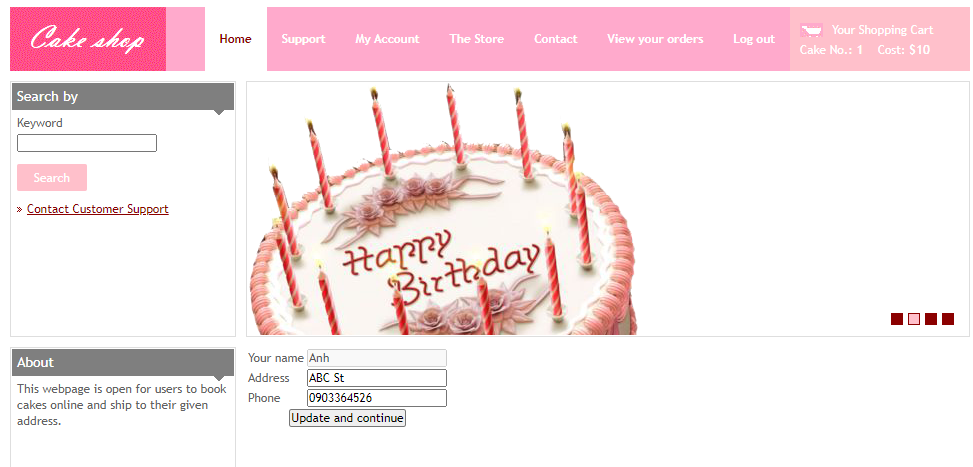
1. **Cake description page:**



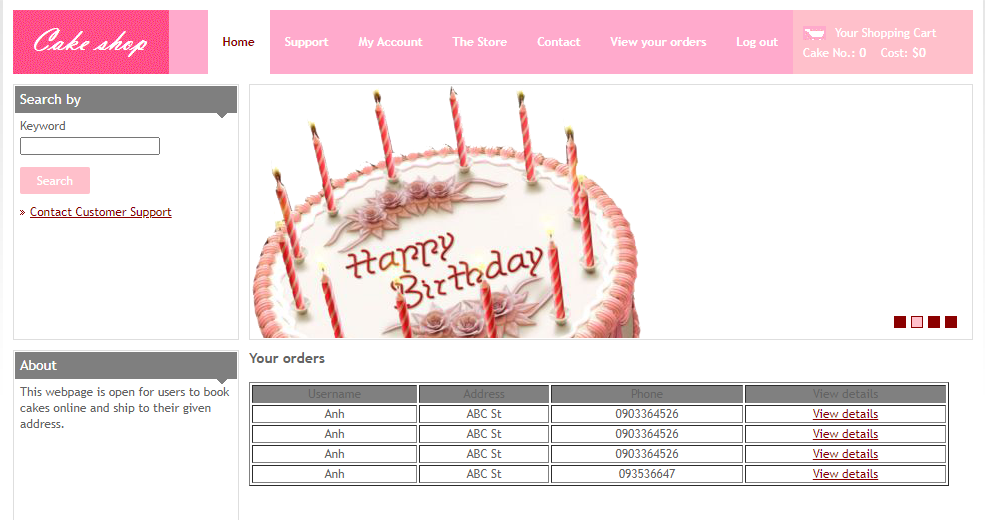
1. **Cart:**



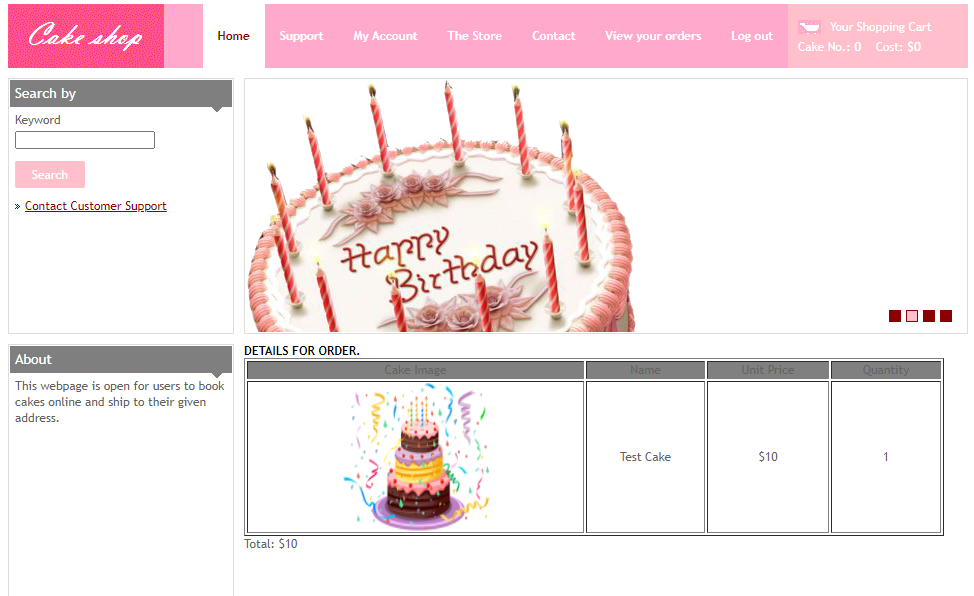
1. **Update info before check out:**



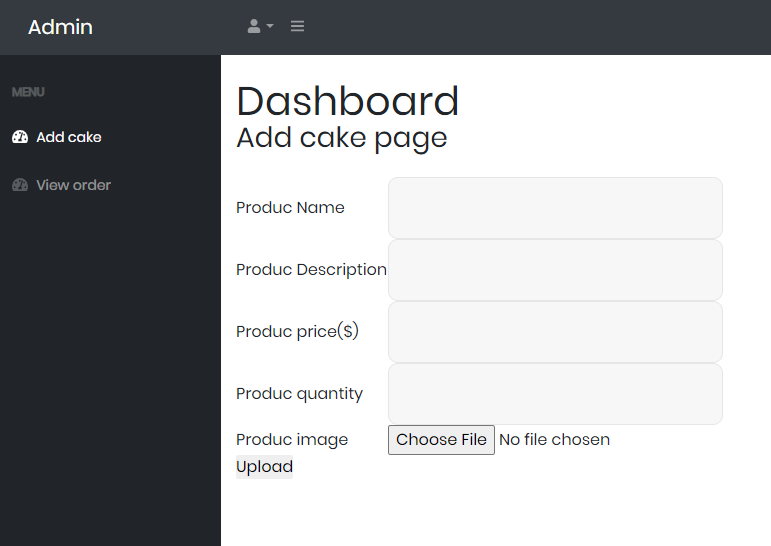
1. **User orders history:**

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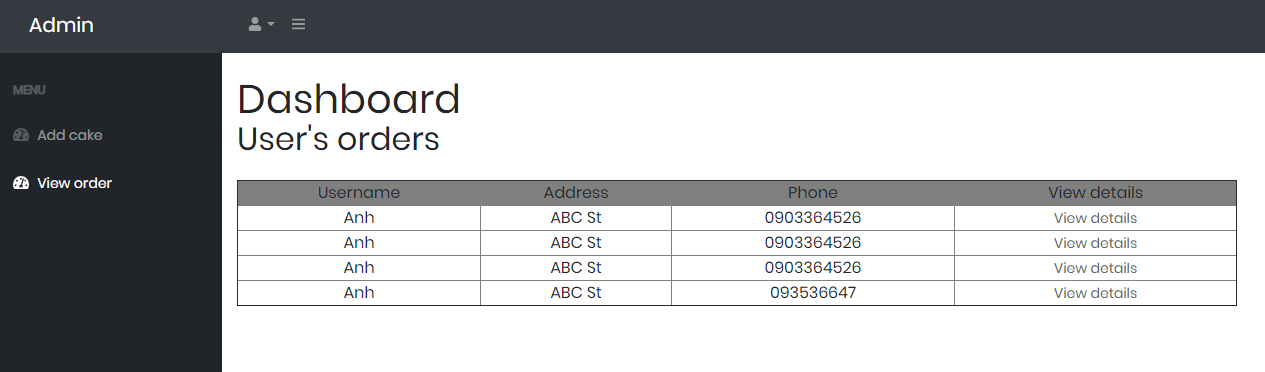
1. **User order’s detail:**

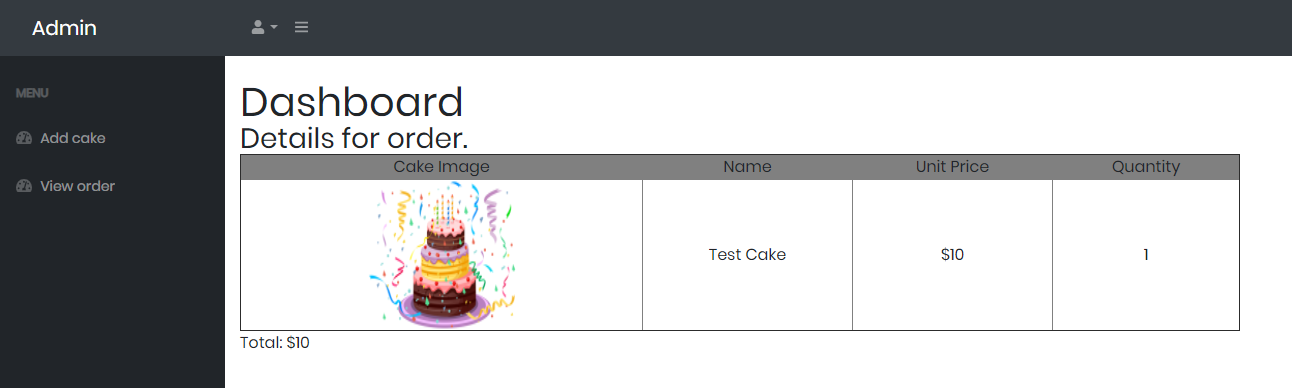
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1. **Admin’s add cake:**

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1. **Admin users’ order view:**



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|  |  |  |
| --- | --- | --- |
| **Date: Oct 10, 2012** | **Prepared by Project Group 4**  **Team Leader:** | **Approved by**  **Mr. Ho Hoan Kiem** |
| **Signature** |  |  |