

Web-based Ordering & Ingredient Estimating for Bakery Manufacturer

Test Plan

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Chapter One | Introduction

1.1 Objectives

The objectives of the test plan of Web-based Ordering & Ingredient Estimating for Bakery Manufacturer are used to create test plan of the unit testing. It makes sure that the defects are discovered and fixed all case in progress I. The user requirements system is covered by system testing. The unit testing covers all of implemented methods in Web-based Ordering & Ingredient Estimating for Bakery Manufacturer project.

1.2 Scope

The test plan describes the unit testing activities to find out the defect in the system and describes the system testing activities for testing a completely integrated system to check that it cover all of user's requirements.

1.3 Acronyms and Definitions

1.3.1 Acronyms

SRS	Software Requirement Specification
URS	User Requirement Specification
SDD	Software Design Document
UI	User Interface
UTC	Unit Test Case
STC	System Test Case

1.3.2 Definitions

Feature	Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of the product in the language of the product. Used for requirements analysis, design, coding, testing or maintenance. [IEEE90]
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IEEE	Institute for Electrical and Electronics Engineers. Biggest global interest group for engineers of different branches and computer scientists. [IEEE90]
Requirement	(1) A condition or capability needed by a user to solve a problem or achieve an objective. (2) A condition or capability that must be met or possessed by a system or system component to satisfy a contract, standard, specification, or other formally imposed document. (3) A documented representation of a condition or capability as in definition (1) or (2). [IEEE90]
Specification	Precise description of an activity or work product which reserves as basis or input for further activities or work product. A specification can comprise requirements to a product and how they will be solved. Different parts of a specification (e.g., what is to be done, how it will be done) must not be mixed. [IEEE90]
White box testing	A software testing method in which the internal structure/design/implementation of the item being tested is known to the tester. The tester chooses inputs to exercise paths through the code and determines the appropriate outputs. Programming know-how and the implementation knowledge is essential. White box testing is testing beyond the user interface and into the nitty-gritty of a system.
Unit testing	A level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unit of the software performs as designed.
System testing	A level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with specified requirements.
Null	Define values represent missing unknown data.

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Chapter Two| Test Plan and Test Procedure

2.1 Test Objectives

The objectives of testing Web-based Ordering & Ingredient Estimating for Bakery Manufacturer project are:

1. The defects are detected.
2. The defects are fixed.
3. Functionalities and user interface covered all requirements that user want.
4. All functionalities and features that are define and feature that are define in progress 1, must be follow in project plan

2.2 Scope of Testing

Web-based Ordering & Ingredient Estimating for Bakery Manufacturer will test by press button testing techniques that are unit testing in web application side.

2.3 Test Duration

Progress	Date and Duration
Progress I	Start: 1 July 2014 End: 29 July 2014 Duration: 21 Days

2.4 Test Responsibility

Item	Responsibility
Unit Test	Parinya Panyanak
System Test	Parinya Panyanak

2.5 Result of Testing

1. Actual Output: The actual output that are performed by each test case.

2. Pass/Fail criteria:

2.1 Pass: The result of actual result is same with expected result.

2.2 Fail: The result of actual result is not same with expected result.

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2.6 Test Environment

2.6.1 Hardware

- Computers
 - **Name:** Sony VAIO-VAIO
Processor: Intel® Pentium® Processor T4300 (2.10 GHz)
Memory: 2.00 GB
Graphics: Intel® Graphics Media Accelerator HD
Operating System: Window® 7 Home Basic (64-bit)
 - **Name:** Sony VAIO
Processor: Intel® Core (TM) I3-3120M (2.5 GHz)
Memory: 4.00 GB
Graphics: Radeon Graphics System
Operating System: Window® 8 Based Processor (64-bit)

2.6.2 Software

- Microsoft SQL Server Management Studio
- Microsoft Visual Studio Ultimate
- Selenium

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Chapter Three | Unit Testing of Web-based Ordering & Ingredient Estimating for Bakery Manufacturer

Class: AccountController

Unit Test Case-01 (UTC-01): public ActionResult Login (string returnUrl)

Description: This case used to check Login (string returnUrl) method that can return to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return to login page of AccountController	{ReturnURrl == null}	return View ("Login", "_PlainLayout");

Class: AccountController

Unit Test Case-02 (UTC-02): public ActionResult Login (LoginModel model, string returnUrl)

Description: This case used to check procedure of Login () method that can work correctly.

Test Cases:

No.	Description	Input	Expected output
1	Login with valid username and password	{ Username == " tung@dd.com ", Password == "123456", RememberMe == false}, {returnUrl == null}	RedirectToLocal (null);
2	Login with invalid username and password	{ Username == " tung@dd.com ", Password == "555555", RememberMe == false}, {returnUrl == null}	return View ("Login", "_PlainLayout", { Username == " tung@dd.com ", Password == "555555", RememberMe == false});

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Class: UserController

Unit Test Case-03 (UTC-03): public ActionResult Index ()

Description: This case used to check Index () method that can return to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return to Index page of User	-	return View ("Index", List<User>);

Class: UserController

Unit Test Case-04 (UTC-04): public ActionResult Details (int id)

Description: This case used to check Details (int id) method that can return to correct page and user.

Test Cases:

No.	Description	Input	Expected output
1	User is not null	{id == 2}	Return View ("Details", {Username == " tung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});
2	User is null	{id == 500}	return HttpNotFound();

Class: UserController

Unit Test Case-05 (UTC-05): public ActionResult UserProfile (string id)

Description: This case used to check UserProfile (string id) method that can return to correct page and user.

Test Cases:

No.	Description	Input	Expected output
1	User is not null	{username == " tung@dd.com "}	return View ("UserProfile", {Username == " tung@dd.com ", Password == "123456", firstName == "tung", lastName == "lastname", phoneNumber == "089133423", address == "xxxxxx"});

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2	User is null	{username == "nook@dd.com"}	return HttpNotFound ();
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Class: UserController

Unit Test Case-06 (UTC-06): public ActionResult Create ()

Description: This case used to check Create () method that can return to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return to create page of User	-	return View ("Create");

Class: UserController

Unit Test Case-07 (UTC-07): public ActionResult Create (User user)

Description: This case used to check Create (User user) method that can create new user to database.

Test Cases:

No.	Description	Input	Expected output
1	Test with input correct information	{Username == nontra@gmail.com , Userpassword == nontra789, firstName == Nontra, lastName == Mahachanont, phoneNumber == 0875885737, address == 42/1 m.6 Muang Chaingmai}	return RedirectToAction ("Details", { Username == nontra@gmail.com , Userpassword == nontra789, firstName == Nontra, lastName == Mahachanont, phoneNumber == 0875885737, address == 42/1 m.6 Muang Chaingmai});
2	Test with input incorrect information	{ Username == NestNontra, Password == nontra789, FirstName == Nontra, LastName == Mahachanont, PhoneNumber == 0875885737, Address == 42/1 m.6 Muang Chaingmai}	return View ();

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Class: UserController

Unit Test Case-08 (UTC-08): public ActionResult Edit (int id = 0)

Description: This test case used to check Edit (int id = 0) method that can return to correct page.

Test Cases:

No.	Description	Input	Expected output
1	User is not null	{id == 2}	return View ("Edit", {Username == " tung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});
2	User is null	{id == 500}	return HttpNotFound ();

Class: UserController

Unit Test Case-09 (UTC-09): public ActionResult Edit (User user)

Description: This case used to check Edit (User user) method that can update information to database.

Test Cases:

No.	Description	Input	Expected output
1	Test with input correct information	{Username == " tortung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});	return View ("Index")
2	Test with input incorrect information	return View ({Username == " tortung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});	return View ({Username == " tortung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});

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Class: UserController

Unit Test Case-10 (UTC-10): public ActionResultDelete (int id = 0)

Description: This case used to check Delete (int id = 0) method that can return correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return delete page of user that is selected	{id == 2}	return View ("Delete", {Username == " tung@gmail.com ", Password == "123456", firstName == "Parinya", lastName == "Panyanak", phoneNumber == "0863338313", address == "xxxxxx"});
2	Return delete page of user that is not selected	{id == 500}	return HttpNotFound ();

Class: UserController

Unit Test Case-11 (UTC-11): public ActionResultDeleteConfirmed (int id)

Description: This case used to check procedure of DeleteConfirmed (int id) method that can delete user form database.

Test Cases:

No.	Description	Input	Expected output
1	Delete with valid user id	{id == 2}	return View ("Index");
2	Delete with invalid user id	{id == 500}	return View (user);

Class: ProductController

Unit Test Case-12 (UTC-12): public ActionResultIndex()

Description: This case used to check Index () method that can go to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return to Index page of Product	-	Return View ("Index", List<Product>)

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Class: ProductController

Unit Test Case-13 (UTC-13): public ActionResultDetails (int id = 0)

Description: This case used to check Details (int id=0) method that can go to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return to Details page of product and valid product id	{id == 2}	return View ("Details", {Name == "Longgang cake", Price == 50, Category == cake Picture == \\UploadImages\\2images (4).jpg});
2	Return to Details page of product and Invalid user id	{id == 500}	return HttpNotFound ();

Class: ProductController

Unit Test Case-14 (UTC-14): public ActionResultCreate ()

Description: This case used to check Create () method that can return to correct page.

Test Cases:

No.	Description	input	Expected output
1	Return to create page of User	-	return View ("Create");

Class: ProductController

Unit Test Case-15 (UTC-15): public ActionResultCreate(Product product)

Description: This case used to check Create (Product product) method that can create new product to database.

Test Cases:

No.	Description	Input	Expected output
1	Test with input correct information	{Name == "Soft brownie", Price == 5, Category == brownie , Picture == \\UploadImages\\5ดาวน้โหลด. jpg }	return RedirectToAction ("Index");
2	Test with input incorrect information	{Name == "banana tart", Price == zxc, Category == "tart" Picture == \\UploadImages\\5ดาวน้โหลด. jpg}	return View({Name == "banana tart", Price == zxc, Category == "tart" Picture == \\UploadImages\\5ดาวน้โหลด.jpg});

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Class: ProductController

Unit Test Case-16 (UTC-16): public ActionResult Edit (int id = 0)

Description: This test case used to check Edit (int id = 0) method that can return to correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return Edit page of product that is selected	{id == 2}	return View ("Edit", " {Name == “Longgang cake”, Price == 50, Category == cake , Picture == \\UploadImages\\2images (4).jpg});
2	Return Edit page of product that is not selected	{id == 500}	return HttpNotFound();

Class: ProductController

Unit Test Case-17 (UTC-17): public ActionResult Edit (Product product)

Description: This case used to check Edit (Product product) method that can update information to database.

Test Cases:

No.	Description	Input	Expected output
1	Test with input correct information	{Name == “Coconut cake”, Price == 50, Category == cake , Picture == \\UploadImages\\2images (4).jpg}	return RedirectToAction ("Index", "Product", {Name == “Coconut cake”, Price == 50, Category == cake , Picture == \\UploadImages\\2images (4).jpg});
2	Test with input incorrect information	{", {Name == “Coconut cake”, Price == xyz, Category == cake , Picture == \\UploadImages\\2images (4).jpg}	return View ({", {Name == “Coconut cake”, Price == xyz, Category == cake , Picture == \\UploadImages\\2images (4).jpg});

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Class: ProductController

Unit Test Case-18 (UTC-18): public ActionResultDelete (int id = 0)

Description: This case used to check Delete (int id = 0) method that can return correct page.

Test Cases:

No.	Description	Input	Expected output
1	Return delete page of product that is selected	{id == 2}	return View ("Delete", {Name == "Longgang cake", Price == 50, Category == cake , Picture == \\UploadImages\\2images (4).jpg});
2	Return delete page of product that is not selected	{id == 500}	return HttpNotFound();

Class: ProductController

Unit Test Case-19 (UTC-19): public ActionResultDeleteConfirmed (int id)

Description: This case used to check procedure of DeleteConfirmed (int id) method that can delete product form database.

Test Cases:

No.	Description	Input	Expected output
1	Delete with valid user id	{id == 2}	return View("Index");

Class: AccountController

Unit Test Case-20 (UTC-20): public ActionResultLogout ()

Description: This case used to check procedure of ActionResultLogout () method that can logout form the system.

No.	Description	Input	Expected output
1	Test with logout and go to index page	-	return RedirectToAction ("Index", "Home");

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Class: AccountController

Unit Test Case-21 (UTC-21): private ActionResult RedirectToLocal(string returnUrl)

Description: This case used to check procedure of ActionResult RedirectToLocal (string returnUrl) method that return to true url.

No.	Description	Input	Expected output
1	Return Url is null	{return Url == null}	return RedirectToAction ("Index", "Home");
2	Return Url is not null	{return Url == \Product\Index}	return Redirect (returnUrl);

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Chapter Four | System Testing of Web-based Ordering & Ingredient Estimating for Bakery Manufacturer

System Test Case-01 (STC-01): Admin can register to activate member to access the application by create new member information.


Description: This test case is a system testing for URS-01. Admin can register member information (username, password, first name, last name, phone number, address, user type, and profile picture) and add member information into database.

Prerequisite: User must login with admin account.

Test Script:

1. Admin clicks “User management” button.
2. Admin clicks “Create New” link.
3. Admin inputs new user information into the registration form.
4. Admin clicks “Save” button.

Test Cases:

No.	Description	Input	Expected output
1	Test with input all correctly information to the registration form and member information can add into database.	First name: “Nontra” Last name: “Mahachanont” Username: nontranest@gmail.com Password: aWefk2343 Phone Number: “0812345678” Address: “House No.197 Chroenrat Road, Watgate sub-district, Mueng Chiang Mai district, Chiang Mai province, 5000, Thailand” User Type: Admin 	Add new member information success and keep in the database. After that the system will redirect to details pages.
2	Test with do not inputs username information to the registration form.	Username:	Display error message “Username is required.” After that the system give admin input information again.

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No.	Description	Input	Expected output
3.	Test with do not inputs password information to the registration form.	Password:	Display error message “ Password is required. ” After that the system give admin input information again.
4.	Test with do not inputs first name information to the registration form.	First name: “ ”	Display error message “ First name is required. ” After that the system give admin input information again.
5	Test with do not inputs last name information to the registration form.	Last name: “ ”	Display error message “ Last name is required. ” After that the system give admin input information again.
6	Test with do not inputs phone number information to the registration form.	Phone Number: “ ”	Display error message “ Phone number is required. ” After that the system give admin input information again.
7	Test with do not inputs address information to the registration form.	Address: “ ”	Display error message “ Address is required. ” After that the system give admin input information again.
8	Test with invalid type of inputs information. To the registration form.	Username: go	Display error message “ Please input with Email. ” After that the system give user input information again.

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System Test Case-02 (STC-02): Admin and wholesaler authenticate the web application account by login.

Description: This test case is a system testing for URS-02. Admin and wholesaler can authentication to the web application account by login.

Prerequisite: User must have accounted.

Test Script:

1. Top right of page, user clicks “menu” list.
2. User selects “Login” link.
3. User fills username as “tung@dd.com” and password “123456”.
4. User clicks “Login” button to sign in to the system.

Test Cases:

No.	Description	Input	Expected output
1	Test with inputs correct both username and password to the login form.	Username = tung@dd.com Password = 123456	The system will redirect to Index page.
2	Test with inputs username is invalid with password in the database.	Username = tung@gmail.com Password = 147852369	Display error message “ The user name or password are incorrect. ” After that the system give user input information again.
3	Test with inputs username is not Email in login form.	Username = “No” Password = 123456	Display error message “ Please input with Email. ” After that the system give user input information again.
4	Test with do not inputs username information to login form.	Username = “ ” Password = 123456	Display error message “ Username is required. ” After that the system give user input information again.
5	Test with do not inputs password information to login form.	Username = tung@dd.com Password = “ ”	Display error message “ Password is required. ” After that the system give user input information again.
6	Test with login can reach and keep sign in date.	-	Login to the system success and keep sign in date in the database.

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System Test Case-03 (STC-03): Admin and wholesaler authenticate the web application account by logout.

Description: This test case is a system testing for URS-02. Admin and wholesaler can authentication to the web application account by logout.

Prerequisite: User must login first.

Test Script:

1. Top right of page, user clicks “menu” list.
2. User selects “Logout” link.
3. User clicks “Logout” button to sign out from the system.

Test Cases:

No.	Description	Input	Expected Result
1	Test with logout can out from the system and return to home page.	-	Logout from the system success. After that the system redirect to Home page.

System Test Case-04 (STC-04): Admin can manage all member information by edit member.

Description: This test case is a system testing for URS-03. Admin can manage all member information by edit member information (username, password, first name, last name, phone number, address, user type, and profile picture) and update member information into database.

Prerequisite: User must login with admin account.

Test Script:

1. Admin clicks “User management” button.
2. Admin clicks “Edit” link.
3. Admin updates information into the member information form.
4. Admin clicks “Save” button.


Test Cases:

Admin search member information.

No.	Description	Input	Expected Result
1	Test with valid information in database	“Nontra”	Found information and display information of member.
2	Test with invalid information in database	“d”	Not found information of member and display the empty page.

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Admin updates member information.

No.	Description	Input	Expected output
1	Test with input all correctly information to the member profile form and member information can update into database.	First name: "Nontra" Last name: "Mahachanont" Username: nontranest@gmail.com Password: aWefk2343 Phone Number: "0812345678" Address: "House No.197 Chroenrat Road, Watgate sub-district, Mueng Chiang Mai district, Chiang Mai province, 5000, Thailand" User Type: Admin 	Update member information success and keep in the database. After that the system will redirect to index page of admin.
2	Test with invalid type of inputs information. To the member profile form.	Username: gone	Display error message "Please input with Email." After that the system give user input information again.

System Test Case-05 (STC-05): Admin can manage all member information by delete member.

Description: This test case is a system testing for URS-03. Admin can manage all member information by delete member and clear member information into database.

Prerequisite: User must login with admin account.

Test Script: 1. Admin clicks "User management" button.

2. Admin clicks "delete" link.

3. Admin views the user details.

4. To confirms, admin clicks "delete" button again.

Test Cases:

Admin delete member.

No.	Description	Expected output
1	Test with member account information can delete from the database.	Member information has been deleted and keeps in the database. After that the system will redirect to index page of admin.

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System Test Case-06 (STC-06): Wholesaler can update own information.


Description: This test case is a system testing for URS-04. Wholesaler can update own information (username, password, first name, last name, phone number, address, user type, and profile picture) and update own information into database.

Prerequisite: User must login with wholesaler account.

Test Script:

1. Top right of page, wholesaler clicks “menu” list.
2. Wholesaler selects “profile” button.
3. Wholesaler views own details.
4. Wholesaler clicks “Edit” button to go to edit page.
5. Wholesaler can update own information (STC-04).

Test Cases:

No.	Description	Input	Expected output
1	Test with input all correctly information to the member profile form and member information can update into database.	First name: “Nontra” Last name: “Mahachanont” Username: nontranest@gmail.com Password: aWefk2343 Phone Number: “0812345678” Address: “House No.197 Chroenrat Road, Watgate sub-district, Mueng Chiang Mai district, Chiang Mai province, 5000, Thailand” User Type: Admin 	Update member information success and keep in the database. After that the system will redirect to index page of wholesaler.
2	Test with invalid type of inputs information. To the member profile form.	Username: gone	Display error message “Please input with Email.” After that the system give user input information again.

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System Test Case-07 (STC-07): Admin can manage all bakery product information by create new product.

Description: This test case is a system testing for URS-05. Admin can manage all bakery product information by create new bakery product information (bakery product ID, bakery product name, details, price, category, and product picture) and add bakery product information into database.


Prerequisite: User must login with admin account.

Test Script:

1. Admin clicks “Product management” button.
2. Admin clicks “Create new” link.
3. Admin inputs bakery product information to the bakery product information form.
4. Admin clicks “create” button to save product.

Test Cases:

Admin create bakery product information.

No.	Description	Input	Expected output
1	Test with input all correctly information to the bakery product form and new bakery product information can add into database.	Productname: “Brownie” Id: “56789” Information: A chocolate brownie is a flat or baked square. Price: 29.00 Category: “Bread” 	Add bakery product information success and keep in the database. After that the system will redirect to Product page.
2	Test with do not inputs name information to the bakery product form.	name = “ ”	Display error message “ Name is required. ” After that the system give user input information again.
3	Test with do not inputs price information to the bakery product form.	price = “ ”	Display error message “ Price is required. ” After that the system give user input information again.
4	Test with do not inputs category information to the bakery product form.	category =	Display error message “ Category is required. ” After that the system give user input information again.

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No.	Description	Input	Expected output
5	Test with do not inputs picture information to the bakery product form.	picture = “ ”	Display error message “ Picture is required. ” After that the system give user input information again.
6	Test with invalid type of inputs information. To the bakery product form.	Price: goods	Display error message “ Please input with number. ” After that the system give user input information again.

System Test Case-08 (STC-08): Admin can manage all bakery product information by edit product.

Description: This test case is a system testing for URS-05. Admin can manage all bakery product information by edit bakery product information (bakery product ID, bakery product name, details, price, category, and product picture) and update bakery product information into database.

Prerequisite: User must login with admin account.

Test Script: 1. Admin clicks “User management” button.

2. Admin clicks “Edit” link.

3. Admin inputs update information to bakery product form.

4. Admin clicks “save” button.


Test Cases:

Admin search bakery product information.

No.	Description	Input	Expected Result
1	Test with valid information in database	“Brownie”	Found information and display information of bakery product.
2	Test with invalid information in database	“Id”	Not found information of bakery product and display empty page.

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Admin updates bakery product information.

No.	Description	Input	Expected output
1	Test with input all correctly information to the bakery product form and bakery product information can update into database.	Productname: "Brownie" Id: "56789" Information: A chocolate brownie is a flat or baked square. Price: 29.00 Category: "Bread" 	Update bakery product information success and keep in the database. After that the system will redirect to Product page.
2	Test with invalid type of inputs information. To the bakery product form.	Price: goods	Display error message "Please input with number." After that the system give user input information again.

System Test Case-09 (STC-09): Admin can manage all bakery product information by delete product.

Description: This test case is a system testing for URS-05. Admin can manage all bakery product information by delete bakery product and clear bakery product information into database.

Prerequisite: User must login with admin account.

Test Script: 1. Admin clicks "Product management" button.

2. Admin clicks "delete" link.

3. Admin views the bakery product details.

4. To confirms, admin clicks "delete" button again.

Test Cases:

Admin delete bakery product.

No.	Description	Input	Expected Result
1	Test with bakery product information can delete from the database.	-	Bakery product information has been deleted and keeps in the database. After that the system will redirect to the product page.

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System Test Case-10 (STC-10): Admin and wholesaler can view all bakery product information by search keyword of bakery product.

Description: This test case is a system testing for URS-06. Admin and wholesaler can search all bakery product information (bakery product ID, bakery product name, details, price, and category) and view bakery product information from the database.

Prerequisite: User must login first.

Test Script:

1. User clicks “Product” button.
2. User inputs keyword of bakery product on search box.
3. User clicks “search” button to search the expected bakery product result.

Test Cases:

Admin and wholesaler search bakery product information.

No.	Description	Input	Expected output
1	Test with clicks bakery product button.	-	Display all bakery products on product page.
2	Test with search valid bakery product information in database.	Keyword = “Brownie”	Found information and display information of bakery product that math with keyword.
3	Test with search invalid bakery product information in database.	Keyword = “l[[[k”	Not found information of bakery product and display empty page.

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