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Content

[Chapter 1 | Introduction 3](#_Toc433198799)

[1.1 Purpose 3](#_Toc433198800)

[1.2 Scope 3](#_Toc433198801)

[1.3 Objective 3](#_Toc433198802)

[1.4 Key Definition 3](#_Toc433198803)

[Chapter 2 | Test plan and Test procedure 5](#_Toc433198804)

[2.1 Test Objectives 5](#_Toc433198805)

[2.2 The scope of testing 5](#_Toc433198806)

[2.3 Test Responsibility 5](#_Toc433198807)

[2.4 Test Strategy 5](#_Toc433198808)

[2.5 Result of testing 5](#_Toc433198809)

[2.6 Test Environment 5](#_Toc433198810)

[2.6.1 Hardware 5](#_Toc433198811)

[2.6.2 Software 6](#_Toc433198812)

[Chapter 3 | Unit testing 7](#_Toc433198813)

# Chapter 1 | Introduction

This test approach document describes the appropriate strategies, process, workflows and methodologies used to plan, organize, execute and manage testing of promotion provider.

## 1.1 Purpose

The purpose of Test Plan document describes the test plan for the promotion provider. In this document consists of the test cases, which have to test in each progress period. The system testing covers the URS to ensure that the failures are discovered and fixed in the system.

## 1.2 Scope

Test plan explains the unit testing activities to detect the failures of implemented methods in system. Also explains the system testing activities to verify consistency between test and URS.

## 1.3 Objective

The objective of test plan of Promotion Provider is to ensure all failures are discovered and fixed. Project can satisfy all of user’s requirements and all of functions are consistently and reliability

## 1.4 Key Definition

* IEEE Institute for Electrical and Electronics Engineers. Biggest global   
   interest group for engineers of different branches and for 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]
* Feature Transformation of input parameters to output parameters based on   
   a specified algorithm. It describes the functionality of a product in   
   the language of the product. Used for requirements analysis, design,   
   coding, testing or maintenance.[IEEE90]
* Use Case (1) Concept to describe a system based on usage of system   
   resources by its environment. Characterized by an objective set of   
   interactions within and at the borders of that system. (2) Notation   
   from UML for describing a scenario (Usage approach, operational   
   scenario) from the perspective of its users. [IEEE90]
* Web A computer software application that is coded in a browser   
  Application supported and reliant on a common web browser to render the   
   application executable.
* Software The application of a systematic, disciplined, quantifiable approach to   
  Engineering the development, operation, and maintenance of software; that is,   
   the application of engineering to software.” [IEEE90]
* Specification Precise description of an activity or work product which serves 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]

# Chapter 2 | Test plan and Test procedure

## 2.1 Test Objectives

The objectives of testing Promotion provider are:

1. All failures are discovered
2. All failures are fixed
3. All functions are covered requirements

## 2.2 The scope of testing

Promotion provider will test unit testing. Then, it will record the test result in test record

## 2.3 Test Responsibility

|  |  |
| --- | --- |
| Item | Responsibility |
| Unit test | Tanawat |
| Unit test record | Tanawat |

## 2.4 Test Strategy

Promotion provider tests strategy will be follow by:

1. Design test case for each method
2. Prepare test data for each method
3. Determine expected result for each method
4. Perform testing on individual method
5. Record result of testing
6. Store test file in project repository

## 2.5 Result of testing

In the test record, the result will separate into two part, which are:

1. Actual output: the actual output those are perform by each test case.
2. Pass/Fail criteria:
   1. Pass: the result of actual result is same like expected result
   2. Fail: the result of actual result is not same like expected result

## 2.6 Test Environment

### 2.6.1 Hardware

1. **Laptop**
   * + MacBook Pro (15-inch, Late 2011)
     + Processor 2.2 GHz Intel Corei7
     + Memory 8 GB 1600 MHz DDR3
     + OS X Yosemite
2. **Mobile**
   * + iPhone 4s

### 2.6.2 Software

* PhpStrom 7.3.1
* Terminal 2.5.3 (343.7)
* Google Chrome 43.0.2357.132

# Chapter 3 | Unit testing

**Class:** AccountDAOImpl

***Unit Test Case 1 (UTC01):***

doLogin(email:String, password:String): AccountInfo

**Description:**

This test case is for evaluating the result of procedure when user log in to system. System  
will find matching email and password in database then return matched as AccountInfo object.

**Test Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Email** | **Password** | **Remark** |
| 1 | admin1@gmail.com | 1234 | - |
| 2 | admin1@gmail.com | 1111 | Invalid password |
| 3 | test@wap.com | test | Invalid email and password |
| 4 | admin1 | 1234 | Invalid email |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Able to log in because matched email and password in database | Email : admin1@gmail.com, Password: 1234 | Object(AccountInfo)[accountId: 2, email: admin@wap.com, password: 1234, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 2 | Unable to log in because password is not matched in database | Email : admin1@gmail.com, Password: 1111 | null |
| 3 | Unable to log in because email and password is not exist in database | Email : test@wap.com, Password: test | null |
| 4 | Able to log in because email is not matched in database | Email : admin, Password: 1234 | null |

**Class:** AccountDAOImpl

***Unit Test Case 2 (UTC02):***

addNewAccount(accountinfo:AccountInfo): Int

**Description:**

This test case is for evaluating the result of procedure when add new account into database then system will return account id from database

**Test Data:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Account Id** | **Email** | **Password** | **Role** | **Join date** | **Status** | **Remark** |
| 1 | 100 | coffeesmith@gmail.com | 1234 | user | 2015-08-08 13:10:47 | 1 | - |
| 2 | 101 | ohyeah@gmail.com | 1234 | user | 2015-08-08 13:10:47 | 1 | - |
| 3 | 102 | whatttt@gmail.com | 1234 | user | 2015-08-08 13:10:47 | 1 | - |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Add account data to data to database | accountId: 100,  Email: warmup@wap.com, Password: 1234, role: user, joinDate: 2015-08-08 13:10:47, status: 1 | 100 |
| 2 | Add account data to data to database | accountId: 101,  Email : hey@wap.com, Password: 1111, role: user, joinDate: 2015-08-08 13:10:47, status: 1 | 100 |
| 3 | Add account data to data to database | accountId: 102,  Email : ohman@wap.com, Password: 4321, role: user, joinDate: 2015-08-08 13:10:47, status: 1 | 102 |

**Class:** AccountDAOImpl

***Unit Test Case 3 (UTC03):***

getAccountById(id:Int): AccountInfo

**Description:**

This test case is for evaluating the result of procedure when gather account by using id. System will find account in database where id is equal to inputted id.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Account Id** | **Remark** |
| 1 | 2 | - |
| 2 | 3 | - |
| 3 | 4 | - |
| 5 | 100 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather account data from database because there is account that has id equal to 1 | accountId: 2 | Object(AccountInfo)[accountId: 2, email: admin1@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 2 | Can gather account data from database because there is account that has id equal to 2 | accountId: 3 | Object(AccountInfo)[accountId: 3, email: admin2@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 3 | Cannot gather account data from database because there is no account that has id equal to 28 | accountId: 4 | Object(AccountInfo)[accountId: 4, email: admin3@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 4 | Cannot gather account data from database because there is no account that has id equal to 69 | accountId: 100 | null |

**Class:** AccountDAOImpl

***Unit Test Case 4 (UTC04):***

getAccountByEmail(email:String): AccountInfo

**Description:**

This test case is for evaluating the result of procedure when gather account by using email. System will find account in database where email is equal to inputted email.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Email** | **Remark** |
| 1 | admin1@gmail.com | - |
| 2 | admin2@gmail.com | - |
| 4 | wishmeluck@gmail | Invalid email |
| 5 | admin | Invalid email |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather account data from database because there is account that has email equal to inputted email | Email : admin1@gmail.com | Object(AccountInfo)[accountId: 2, email: admin1@gmail.com, password: c09e487ab20c68cdc5c21dce226b0426, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 2 | Can gather account data from database because there is account that has email equal to inputted email | Email : admin2@gmail.com | Object(AccountInfo)[accountId: 3, email: admin2@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join\_date: 2015-08-08 00:00:00, status: 1] |
| 3 | Cannot gather account data from database because there is account that has no email equal to inputted email | Email : wishmeluck@gmail | null |
| 4 | Cannot gather account data from database because there is account that has no email equal to inputted email | Email : admin | null |

**Class:** AccountDAOImpl

***Unit Test Case 5 (UTC05):***

getAllAccount(): List<AccountInfo>

**Description:**

This test case is for evaluating the result of procedure when gather all account. System will show all account in database. In this test case, we use number of data in account table to evaluate result.

**Test Data:**

-

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather all account data from database and number of data is correct | - | 9 |

**Class:** AccountDAOImpl

***Unit Test Case 6 (UTC06):***

changePassword (id:int, password:String): int

**Description:**

This test case is for evaluating the result of procedure when user change password. System will update new password into database and return number of updated row from database.

**Test Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Account Id** | **Password** | **Remark** |
| 1 | 1 | 1111 | - |
| 2 | 2 | 1111 | - |
| 3 | 100 | 1234 | Invalid Id |
| 4 | -4100 | 4444 | Invalid Id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can change password | accountId: 1,  Password: 4411 | 1 |
| 2 | Can change password | accountId: 2,  Password: 6589 | 1 |
| 3 | Cannot change password because invalid id | accountId: 100,  Password: 1234 | 0 |
| 4 | Cannot change password because invalid id | accountId: -100,  Password: 4444 | 0 |

**Class:** AccountDAOImpl

***Unit Test Case 7 (UTC07):***

deleteAccount(id:int): int

**Description:**

This test case is for evaluating the result of procedure when delete account from database then system will return number of deleted row (1).

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Account Id** | **Remark** |
| 1 | 2 | - |
| 2 | 3 | - |
| 4 | 4 | - |
| 5 | 100 | Invalid Id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete account from database | accountId: 2 | 1 |
| 2 | Can delete account from database | accountId: 3 | 1 |
| 3 | Can delete account from database | accountId: 4 | 1 |
| 4 | Cannot delete account from database because invalid account id | accountId: 100 | 0 |

**Class:** PromotionDAOImpl

***Unit Test Case 8 (UTC08):***

addNewPromotion(promotion:Promotion): int

**Description:**

This test case is for evaluating the result of procedure when add new promotion into database then system will return promotion id.

**Test Data:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Shop Id** | **Name** | **Description** | **Shared** | **Start Date** | **End Date** | **Status** | **Remark** |
| 1 | 6 | Friday special !! | Breakfast buffet 150.- for each | 0 | 2015-07-23 00:00:00 | 2015-07-31 00:00:00 | 1 | - |
| 2 | 7 | Get a FREE order of Dog pretzel | with the purchase of a Green mint mocha | 0 | 2015-08-01 00:00:00 | 2015-08-09 00:00:00 | 1 | - |
| 3 | 8 | Show student card for a special 10% discount | Not to be used in conjunction with other voucher | 0 | 2015-08-18 00:00:00 | 2015-09-09 00:00:00 | 1 | - |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can add new promotion into database | shopId: 6,  name: Friday special !!, description: Breakfast buffet 150.- for each,  shared: null,  startDate: 2015-07-23,  endDate: 2015-07-31,  status: 1, | 1 |
| 2 | Can add new promotion into database | shopId: 7,  name: Get a FREE order of Dog pretzel,  description: with the purchase of a Green mint mocha,  shared: null,  startDate: 2015-08-01,  endDate: 2015-08-09,  status: 1, | 2 |
| 3 | Can add new promotion into database | shopId: 8,  name: Show student card for a special 10% discount,  description: Not to be used in conjunction with other voucher,  shared: null,  startDate: 2015-08-18,  endDate: 2015-09-09,  status: 1, | 3 |

**Class:** PromotionDAOImpl

***Unit Test Case 9 (UTC09):***

deletePromotionByPromotionId(id:int): int

**Description:**

This test case is for evaluating the result of procedure when delete promotion by using promotion id then system will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Promotion Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 33 | Invalid promotion Id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete promotion information by using promotion id | id: 1 | 1 |
| 2 | Can delete promotion information by using promotion id | id: 2 | 1 |
| 3 | Cannot delete promotion information cause of invalid promotion id | id: 33 | null |

**Class:** PromotionDAOImpl

***Unit Test Case 10 (UTC10):***

deletePromotionByShopId(shopId:int): int

**Description:**

This test case is for evaluating the result of procedure when delete promotion by using shop id then system will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Promotion Id** | **Remark** |
| 1 | 6 | - |
| 2 | 7 | - |
| 3 | 1004 | Invalid shop id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete promotion information by using promotion id | 6 | 2 |
| 2 | Can delete promotion information by using promotion id | 7 | 1 |
| 3 | Cannot delete promotion information cause of no shop id in database | 1004 | 0 |

**Class:** PromotionDAOImpl

***Unit Test Case 11 (UTC11):***

getAllPromotion(): List<Promotion>

**Description:**

This test case is for evaluating the result of procedure when gather all promotion in database then system will return all promotion in database (amount of promotion).

**Test Data:**

**-**

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather all promotion from database | - | 2 |

**Class:** PromotionDAOImpl

***Unit Test Case 12 (UTC12):***

getPromotionById(id:int): Promotion

**Description:**

This test case is for evaluating the result of procedure when gather promotion by using promotion id then system will return promotion information.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 33 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather promotion information by using promotion id | id: 1 | Object(Promotion)[id: 1, shop\_id: 6,  name: Friday special !!,  description: Breakfast buffet 150.- for each,  shared: null,  start\_date: 2015-07-23 00:00:00,  end\_date: 2015-07-31 00:00:00,  status: 1] |
| 2 | Can gather promotion information by using promotion id | id: 2 | Object(Promotion)[id: 2, shop\_id: 7,  name: Get a FREE order of Dog pretzel,  description: with the purchase of a Green mint mocha,  shared: null,  start\_date: 2015-08-01 00:00:00,  end\_date: 2015-08-09 00:00:00,  status: 1] |
| 3 | Cannot gather promotion information cause of invalid promotion id | id: 33 | null |

**Class:** PromotionDAOImpl

***Unit Test Case 13 (UTC13):***

editPromotion(promotion:Promotion): int

**Description:**

This test case is for evaluating the result of procedure when edit promotion information then system will update promotion information into database.

**Test Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Promotion id** | **Promotion name** | **Description** | **Start Date** | **End Date** | **Remark** |
| 1 | 1 | Friday special | Ok? | 2015-08-01 00:00:00 | 2015-08-09 00:00:00 | - |
| 2 | 2 | WHAT?? | Not to be used in conjunction with other voucher | 2015-08-18 00:00:00 | 2015-09-09 00:00:00 | - |
| 3 | 90 | FREE coffee or tea | 3pm – 6pm (Everyday)  With any order on our menu + dessert menu | 2015-07-28 00:00:00 | 2015-08-28 00:00:00 | Invalid promotion id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can edit promotion description from “Breakfast buffet 150.- for each” to “with the purchase of a beverage menu” | name: Get a FREE order of Dog pretzel,  description: with the purchase of a beverage menu,  startDate: 2015-08-01,  endDate: 2015-08-09 | 1 |
| 2 | Can edit promotion name from “with the purchase of a Green mint mocha” to “Show student card for a special 15% discount” | name: Show student card for a special 15% discount,  description: Not to be used in conjunction with other voucher,  startDate: 2015-08-18,  endDate: 2015-09-09 | 1 |
| 3 | Cannot edit promotion information cause of invalid end date | name: FREE coffee or tea,  description: 3pm – 6pm (Everyday)  With any order on our menu + dessert menu,  startDate: 2015-07-28,  endDate: 2015-08-28 | 0 |

**Class:** PromotionDAOImpl

***Unit Test Case 14 (UTC14):***

getPromotionByShopId(id:int): List<Promotion>

**Description:**

This test case is for evaluating the result of procedure when gather promotion by using shop id then system will return list of promotion (amount of promotion).

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Shop Id** | **Remark** |
| 1 | 6 | - |
| 2 | 8 | This account has no promotion |
| 3 | 253 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather list of promotion by using shop id | 6 | 2 |
| 2 | Can gather list of promotion by using shop id | 8 | 0 |
| 3 | Cannot gather list of promotion by using shop id cause of invalid id | 253 | 0 |

**Class:** PromotionImageDAOImpl

***Unit Test Case 15 (UTC15):***

addImage(prmotionImage:PromotionImage): int

**Description:**

This test case is for evaluating the result of procedure when add new promotion image into database then system will return promotion id.

**Test Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Promotion Id** | **Image Path** | **Add Date** | **Remark** |
| 1 | 1 | user\_upload/16/shop\_images/amazon.jpg | 2015-07-23 15:11:24 | - |
| 2 | 1 | user\_upload/16/shop\_images/sale.jpg | 2015-07-23 15:11:24 | - |
| 3 | 2 | user\_upload/21/shop\_images/wanilla.jpg | 2015-07-23 15:11:24 | - |
| 4 | 100 | user\_upload/100/shop\_images/latte.jpg | 2015-07-23 15:11:24 | Invalid promotion id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can add new promotion image into database | Promotion\_id: 16,  Image\_path: user\_upload/16/shop\_images/amazon.jpg,  add\_date: 2015-07-23 15:11:24 | 1 |
| 2 | Can add new promotion image into database | Promotion\_id: 16,  Image\_path: user\_upload/16/shop\_images/sale.jpg,  add\_date: 2015-07-23 15:11:24 | 2 |
| 3 | Can add new promotion image into database | Promotion\_id: 21,  Image\_path: user\_upload/21/shop\_images/wanilla.jpg,  add\_date: 2015-07-23 18:41:32 | 3 |
| 4 | Cannot add new promotion image into database cause of invalid promotion id | Promotion\_id: 100,  Image\_path: user\_upload/100/shop\_images/ latte.jpg,  add\_date: 2015-07-23 18:45:52 | 3 |

**Class:** PromotionImageDAOImpl

***Unit Test Case 16 (UTC16):***

getImageByPromotionId(prmotionId:int): List<PromotionImage>

**Description:**

This test case is for evaluating the result of procedure when gather promotion image by using promotion id then system will return list of promotion image (amount of image).

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Promotion Id** | **Remark** |
| 1 | 200 | - |
| 2 | 201 | - |
| 3 | 203 | Invalid promotion id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather promotion image from database | 200 | 2 |
| 2 | Can gather promotion image from database | 201 | 1 |
| 3 | Cannot gather promotion image from database, invalid promotion id | 203 | 0 |

**Class:** PromotionImageDAOImpl

***Unit Test Case 17 (UTC17):***

getImageById(id:int): PromotionImage

**Description:**

This test case is for evaluating the result of procedure when gather promotion image by using image id then system will return promotion information.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 100 | Invalid image id |
| 4 | 1009 | Invalid image id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather promotion image from database | 1 | Object(PromotionImage)[id: 1, promotion\_id 200: ,  Image\_path: : user\_upload/16/shop\_images/amazon.jpg,  add\_date: 2015-07-23 15:11:24] |
| 2 | Can gather promotion image from database | 2 | Object(PromotionImage)[id: 1, promotion\_id 200: ,  Image\_path: : user\_upload/16/shop\_images/sale.jpg,  add\_date: 2015-07-23 15:11:24] |
| 3 | Cannot gather promotion image from database, no promotion image id | 100 | null |
| 4 | Cannot gather promotion image from database, invalid promotion image id | 1009 | null |

**Class:** PromotionImageDAOImpl

***Unit Test Case 18 (UTC18):***

deleteImageByPromotionId(promotionId:int): int

**Description:**

This test case is for evaluating the result of procedure when delete image by using promotion id then system will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Promotion Id** | **Remark** |
| 1 | 200 | - |
| 2 | 201 | - |
| 3 | 19 | Invalid promotion id |
| 4 | 23 | Invalid promotion id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete promotion image from database | 200 | 2 |
| 2 | Can delete promotion image from database | 201 | 1 |
| 3 | Can delete promotion image from database | 19 | 0 |
| 4 | Can delete promotion image from database, invalid promotion id | 23 | 0 |

**Class:** PromotionImageDAOImpl

***Unit Test Case 19 (UTC19):***

deleteImageById(promotionId:int): int

**Description:**

This test case is for evaluating the result of procedure when delete image by using image id then system will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Image Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 100 | Invalid promotion id |
| 4 | 80 | Invalid promotion id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete promotion image from database | 1 | 1 |
| 2 | Can delete promotion image from database | 2 | 1 |
| 3 | Can delete promotion image from database, no promotion id | 100 | 0 |
| 4 | Can delete promotion image from database, invalid promotion id | 80 | 0 |

**Class:** ShopImageDAOImpl

***Unit Test Case 20 (UTC20):***

addImage(shopImage:ShopImage): int

**Description:**

This test case is for evaluating the result of procedure when add shop image into database. System will return image id.

**Test Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Shop Id** | **Image Path** | **Add Date** | **Remark** |
| 1 | 6 | user\_upload/6/shop\_images/cookies.png | 2015-07-03 00:00:00 | - |
| 2 | 7 | Xxxasdad34234 | 2015-07-03 00:00:00 | - |
| 3 | 78 | user\_upload/6/shop\_images/cookies.png | 2015-07-03 00:00:00 | Invalid shop id |
| 4 | 100 | user\_upload/6/shop\_images/cookies.png | 2015-07-03 00:00:00 | Invalid shop id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can add new shop image into database | Shop id: 6, Image path: user\_upload/6/shop\_images/cookies.png, add date: 2015-07-03 | 1 |
| 2 | Can add new shop image into database | Shop id: 6, Image path: Xxxasdad34234, add date: 2015-07-03 | 2 |
| 3 | Cannot add new shop image into database because invalid shop id | Shop id: 6, Image path: user\_upload/6/shop\_images/cookies.png, add date: 2015-07-03 | 0 |
| 4 | Cannot add new shop image into database because invalid shop id | Shop id: 6, Image path: user\_upload/6/shop\_images/cookies.png, add date: 2015-07-03 | 0 |

**Class:** ShopImageDAOImpl

***Unit Test Case 21 (UTC21):***

deleteImageByShopId(shopId:int): int

**Description:**

This test case is for evaluating the result of procedure when delete shop image from database by using shop id. System will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Shop Id** | **Remark** |
| 1 | 6 | - |
| 2 | 7 | - |
| 3 | 100 | Invalid shop id |
| 4 | 2885 | Invalid shop id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete shop image from database by using shop id | shopId: 6 | 1 |
| 2 | Can delete shop image from database by using shop id | shopId: 7 | 1 |
| 3 | Can delete shop image from database by using shop id | shopId: 100 | null |
| 4 | Cannot delete shop image cause of no shop id in database | shopId: 2885 | null |

**Class:** ShopImageDAOImpl

***Unit Test Case 22 (UTC22):***

getImageByAccountId(accountId:int): List<ShopImage>

**Description:**

This test case is for evaluating the result of procedure when get shop image from database by using account id then system will return list of shop image (amount of image).

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Account Id** | **Remark** |
| 1 | 6 | - |
| 2 | 7 | - |
| 3 | 99 | Invalid account id |
| 4 | 250 | Invalid account id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather image from database by using account id | 6 | 1 |
| 2 | Can gather image from database by using account id | 7 | 1 |
| 3 | Cannot gather image from database because this account id has no image | 99 | 0 |
| 4 | Cannot gather image from database because account id is invalid | 250 | 0 |

**Class:** ShopImageDAOImpl

***Unit Test Case 23 (UTC23):***

deleteImageById(id:int): int

**Description:**

This test case is for evaluating the result of procedure when delete shop image from database by using image id. System will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 100 | Invalid image id |
| 4 | 250 | Invalid image id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete shop image from database by using id | id: 1 | 1 |
| 2 | Can delete shop image from database by id | id: 2 | 1 |
| 3 | Can delete shop image from database by id | id: 100 | 0 |
| 4 | Cannot delete shop image cause of invalid image id | id: 250 | 0 |

**Class:** ShopImageDAOImpl

***Unit Test Case 24 (UTC24):***

getImageById(id:int): ShopImage

**Description:**

This test case is for evaluating the result of procedure when gather shop image from database by using image id then system will return shop image information.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 85 | Invalid id |
| 4 | 100 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather image from database by using image id | id: 1 | Object(ShopImage)  [id: 1, shop\_id:6 ,  image\_path: user\_upload/6/shop\_images/cookies.png,  added\_date: 2015-07-03 00:00:00] |
| 2 | Can gather image from database by using image id | id: 2 | Object(ShopImage)  [id: 2, shop\_id: 7,  image\_path: Xxxasdad34234,  added\_ date: 2015-07-03 00:00:00] |
| 3 | Can gather image from database by using image id | id: 85 | null |
| 4 | Cannot gather image from database cause of invalid id | id: 100 | null |

**Class:** ShopInformationDAOImpl

***Unit Test Case 25 (UTC25):***

addNewShopInformation(shopInformation:ShopInformation): int

**Description:**

This test case is for evaluating the result of procedure when add new shop information into database then system will return number of shop id.

**Test Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | 1 | 2 | 3 | 4 |
| **Account Id** | 10 | 11 | 12 | 100 |
| **Name** | Oh yeah | Hello | Coffee Smith | Test add |
| **Address** | 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 41 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 42 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 43 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 |
| **Phone Number** | 053 400 888 | 053 545 676 | 053 434 676 | 053 656 676 |
| **Sub District** | 1 | 2 | 3 | 4 |
| **Latitude** | 18.7951095 | 18.7951095 | 18.7951095 | 18.7951095 |
| **Longitude** | 98.9650533 | 98.9650533 | 98.9650533 | 98.9650533 |
| **Open Time** | Every day | Everyday | 6.00 - 12.00 | All time no close |
| **Description** | This is description | This is description | This is description | This is description |
| **Category** | null | null | null | null |
| **Remark** | - | - | - | Invalid account id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can add new shop information into database | accounts\_id: 10,  name: Oh yeah,  address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 400 888,  sub\_district: 1,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Every day,  description: This is description,  category: null | 10 |
| 2 | Can add new shop information into database | accounts\_id: 11,  name: Hello,  address: 41 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 545 676,  sub\_district: 2,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Everyday,  description: This is description,  category: null | 11 |
| 3 | Can add new shop information into database | accounts\_id: 12,  name: Coffee Smith,  address: 42 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 434 676 ,  sub\_district: 3,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: 6.00 - 12.00,  description: This is description,  category: null | 12 |
| 4 | Cannot add new shop information into database because invalid account id | accounts\_id: 100,  name: Test add,  address: 43 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 656 676,  sub\_district: 4,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: All time no close,  description: This is description,  category: null | 12 |

**Class:** ShopInformationDAOImpl

***Unit Test Case 26 (UTC26):***

deleteShopInformation(id:int): int

**Description:**

This test case is for evaluating the result of procedure when delete shop information from database by using id then system will return number of deleted row.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 10 | - |
| 2 | 11 | - |
| 3 | 12 | - |
| 4 | 100 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can delete shop information from database | 10 | 1 |
| 2 | Can delete shop information from database | 11 | 1 |
| 3 | Can delete shop information from database | 12 | 1 |
| 4 | Cannot delete shop information from database because invalid id | 100 | 0 |

**Class:** ShopInformationDAOImpl

***Unit Test Case 27 (UTC26):***

editShopInformation(shopInformation:ShopInformation): int

**Description:**

This test case is for evaluating the result of procedure when edit shop information then system will update and return shop id.

**Test Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | 1 | 2 | 3 | 4 |
| **Account Id** | 10 | 11 | 12 | 100 |
| **Name** | Hiii | Hey yo | Coffee Smith nimman | Warm up cafe |
| **Address** | 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 41 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 42 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 43 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 |
| **Phone Number** | 053 400 888 | 053 545 676 | 053 434 676 | 053 656 676 |
| **Sub District** | 1 | 2 | 3 | 4 |
| **Latitude** | 18.7951095 | 18.7951095 | 18.7951095 | 18.7951095 |
| **Longitude** | 98.9650533 | 98.9650533 | 98.9650533 | 98.9650533 |
| **Open Time** | Every day | Everyday | 6.00 - 12.00 | All time no close |
| **Description** | This is description | This is description | This is description | This is description |
| **Category** | null | null | null | null |
| **Remark** | - | - | - | Invalid account id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can add new shop information into database | accounts\_id: 10,  name: Hiii,  address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 400 888,  sub\_district: 1,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Every day,  description: This is description,  category: null | 1 |
| 2 | Can add new shop information into database | accounts\_id: 11,  name: Hey yo,  address: 41 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 545 676,  sub\_district: 2,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Everyday,  description: This is description,  category: null | 1 |
| 3 | Can add new shop information into database | accounts\_id: 12,  name: Coffee smith nimman,  address: 42 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 434 676 ,  sub\_district: 3,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: 6.00 - 12.00,  description: This is description,  category: null | 1 |
| 4 | Cannot add new shop information into database because invalid account id | accounts\_id: 100,  name: Warm up cafe,  address: 43 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 656 676,  sub\_district: 4,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: All time no close,  description: This is description,  category: null | null |

**Class:** ShopInformationDAOImpl

***Unit Test Case 28 (UTC28):***

getAllShopInformation(): List<shopInformation>

**Description:**

This test case is for evaluating the result of procedure when gather all shop information then system will return list of shop information.

**Test Data:**

**-**

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather all shop information from database | - | 3 |

**Class:** ShopInformationDAOImpl

***Unit Test Case 29 (UTC29):***

getShopInformationById(id:int): ShopInformation

**Description:**

This test case is for evaluating the result of procedure when gather shop information from database by using shop id then system will return shop information.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 10 | - |
| 2 | 11 | - |
| 3 | 12 | - |
| 4 | 100 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Input** | **Expected result** |
| 1 | Can gather shop information by using shop id | 10 | accounts\_id: 10,  name: Oh yeah,  address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 400 888,  sub\_district: 1,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Every day,  description: This is description,  category: null |
| 2 | Can gather shop information by using shop id | 11 | accounts\_id: 11,  name: Hello,  address: 41 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 545 676,  sub\_district: 2,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: Everyday,  description: This is description,  category: null |
| 3 | Can gather shop information by using shop id | 12 | accounts\_id: 12,  name: Coffee Smith,  address: 42 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200,  phone\_number: 053 434 676 ,  sub\_district: 3,  latitude: 18.7951095,  longitude: 98.9650533,  open\_time: 6.00 - 12.00,  description: This is description,  category: null |
| 4 | Can gather shop information by using shop id | 100 | null |

**Class:** RequestSignupInfoDAOImpl

***Unit Test Case 30 (UTC30):***

addNewRequest (requestSignupInfo: RequestSignupInfo): int

**Description:**

This test case is for evaluating the result of procedure when add new request into database then system will return request id from database

**Test Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | 1 | 2 | 3 |
| **Id** | 1 | 2 | 3 |
| **Email** | chill@gmail.com | w33@gmail.com | goodbar@gmail.com |
| **Password** | 1111 | 1111 | 1111 |
| **Name** | chill | w33 | good bar |
| **Address** | 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200 | 696 Moo 15, Tumbol Booheaw | 696 Moo 15, Tumbol Booheaw |
| **Phone number** | 053333333 | 053333333 | 053333333 |
| **Sub district** | 7 | 1 | 7 |
| **Latitude** | 18.7898863455 | 18.7887081230 | 18.7889518939 |
| **Longitude** | 98.9714527130 | 98.9714527130 | 98.9734268188 |
| **Open time** | every day | every day | every day |
| **Description** | this is really good place | the best place in cm | come to visit us |
| **Request date** | 2015-10-20 10:54:56 | 2015-10-20 10:54:56 | 2015-10-20 12:41:44 |
| **Approved date** | null | null | null |
| **Manage by** | null | null | null |
| **Status** | 2 | 2 | 2 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Description** | **Input** | **Expected result** |
| 1 | Can add new request | Object(RequestSignupInfo)  [id: 1,  email: chill@gmail.com,  password: 1111, name: chill,  address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phoneNumber: 0882537135, subDistrict: 7,  latitude: 18.7898863455,  longitude: 98.9669466019,  openTime: every day,  description: this is really good place, requestDate: 2015-10-20 10:54:56, approveDate: NULL ,  manageBy: NULL, status: 2] | 1 |
| 2 | Can add new request | Object(RequestSignupInfo)  [id: 2,  email: w33@gmail.com,  password: 1111, name: w33,  address: 696 Moo 15, Tumbol Booheaw, phoneNumber: 0882537135, subDistrict: 1,  latitude: 18.7887081230,  longitude: 98.9714527130,  openTime: every day,  description: the best place in cm, requestDate: 2015-10-20 12:40:51, approveDate: NULL ,  manageBy: NULL, status: 2] | 2 |
| 3 | Can add new request | Object(RequestSignupInfo)  [id: 3,  email: goodbar@gmail.com,  password: 1111, name: good bar,  address: 696 Moo 15, Tumbol Booheaw, phoneNumber: 0882537135, subDistrict: 7,  latitude: 18.7889518939,  longitude: 98.9734268188,  openTime: every day,  description: come to visit us, requestDate: 2015-10-20 12:41:44, approveDate: NULL ,  manageBy: NULL, status: 2] | 3 |

**Class:** RequestSignupInfoDAOImpl

***Unit Test Case 31 (UTC31):***

getRequestSignupById (id:int): RequestSignupInfo

**Description:**

This test case is for evaluating the result of procedure when gather request sign up info from database by using request id then system will return RequestSignup object.

**Test Data:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Id** | **Remark** |
| 1 | 1 | - |
| 2 | 2 | - |
| 3 | 3 | - |
| 4 | 100 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Description** | **Input** | **Expected result** |
| 1 | Can gather request sign up by using request id | 1 | Object(RequestSignupInfo)  [id: 1,  email: chill@gmail.com,  password: 1111, name: chill,  address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phoneNumber: 0882537135, subDistrict: 7,  latitude: 18.7898863455,  longitude: 98.9669466019,  openTime: every day,  description: this is really good place, requestDate: 2015-10-20 10:54:56, approveDate: NULL ,  manageBy: NULL, status: 2] |
| 2 | Can gather request sign up by using request id | 2 | Object(RequestSignupInfo)  [id: 2,  email: w33@gmail.com,  password: 1111, name: w33,  address: 696 Moo 15, Tumbol Booheaw, phoneNumber: 0882537135, subDistrict: 1,  latitude: 18.7887081230,  longitude: 98.9714527130,  openTime: every day,  description: the best place in cm, requestDate: 2015-10-20 12:40:51, approveDate: NULL ,  manageBy: NULL, status: 2] |
| 3 | Can gather request sign up by using request id | 3 | Object(RequestSignupInfo)  [id: 3,  email: goodbar@gmail.com,  password: 1111, name: good bar,  address: 696 Moo 15, Tumbol Booheaw, phoneNumber: 0882537135, subDistrict: 7,  latitude: 18.7889518939,  longitude: 98.9734268188,  openTime: every day,  description: come to visit us, requestDate: 2015-10-20 12:41:44, approveDate: NULL ,  manageBy: NULL, status: 2] |
| 4 | Can not gather request sign up by using request id | 100 | null |

**Class:** RequestSignupInfoDAOImpl

***Unit Test Case 32 (UTC32):***

updateRequestStatus (id:int, status:int, accountId:int): int

**Description:**

This test case is for evaluating the result of procedure when update request status. This method will return int.

**Test Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Id** | **Status** | **Account id** | **Remark** |
| 1 | 1 | 1 | 1 | - |
| 2 | 2 | 1 | 1 | - |
| 3 | 3 | 1 | 1 | - |
| 4 | 100 | 1 | 2 | Invalid id |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Description** | **Input** | **Expected result** |
| 1 | Can update request status | 1 | 1 |
| 2 | Can update request status | 2 | 1 |
| 3 | Can update request status | 3 | 1 |
| 4 | Can not update request status | 100 | 0 |