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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]

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- Web Application A computer software application that is coded in a browser supported and reliant on a common web browser to render the application executable.
- Software Engineering The application of a systematic, disciplined, quantifiable approach to 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]

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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:
 - 2.1 Pass: the result of actual result is same like expected result
 - 2.2 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

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2.6.2 Software

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

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CHAPTER 3 | UNIT TESTING

3.1 Web server

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: 2015-06-19, 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

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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 data id from database

Test Data:

No.	Account Id	Email	Password	Role	Status	Remark
1	-	warmup@wap.com	1234	user	1	-
2	-	hey@wap.com	1111	user	1	-
3	-	ohman@wap.com	4321	user	1	-
4	-	wish@wap.com	-	-	-	-

Test Case:

Id	Description	Input	Expected result
1	Add account data to data to database	accountId: null, Email: warmup@wap.com, Password: 1234, role: user, status: 1	Return ID: 6
2	Add account data to data to database	accountId: null, Email : hey@wap.com, Password: 1111, role: user, status: 1	Return ID: 7
3	Add account data to data to database	accountId: null, Email : ohman@wap.com, Password: 4321, role: user, status: 1	Return ID: 8
4	Add account data to data to database	accountId: null, Email : wish@wap.com, Password: null, role: null, status: null	Return ID: null

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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: 10, email: admin1@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join_date: 2015-06-19, status: 1]
2	Can gather account data from database because there is account that has id equal to 2	accountId: 3	Object(AccountInfo)[accountId: 10, email: admin2@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join_date: 2015-06-19, 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: 10, email: admin3@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join_date: 2015-06-19, status: 1]
4	Cannot gather account data from database because there is no account that has id equal to 69	accountId: 100	null

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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	nettanawat@gmail.com	-
2	admin1@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 : nettanawat@gmail.com	Object(AccountInfo)[accountId: 1, email: nettanawat@gmail.com, password: c09e487ab20c68cdc5c21dce226b0426, role: admin, join_date: 2015-06-19, status: 1]
2	Can gather account data from database because there is account that has email equal to inputted email	Email : admin1@gmail.com	Object(AccountInfo)[accountId: 10, email: admin1@wap.com, password: 81dc9bdb52d04dc20036dbd8313ed055, role: admin, join_date: 2015-06-19, 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

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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.

Test Data:

-

Test Case:

Id	Description	Input	Expected result
1	Can gather all account data from database and amount of is correct	-	10

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Class: AccountDAOImpl

Unit Test Case 6 (UTC06):

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

Description:

This test case is for evaluating the result of procedure when user change password. System will update new password into database.

Test Data:

No.	Account Id	Password	Remark
1	1	4411	-
2	2	6589	-
3	100	1234	Invalid Id
4	-100	4444	Invalid Id

Test Case:

Id	Description	Input	Expected result
1	Can change password	accountId: 1, Password: 4411	1
2	Can change password	accountId: 14, Password: 6589	1
3	Cannot change password because invalid id	accountId: 100, Password: 1234	null
4	Cannot change password because invalid id	accountId: -100, Password: 4444	null

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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	7	-
2	8	-
4	235	Invalid Id
5	100	Invalid Id

Test Case:

Id	Description	Input	Expected result
1	Can delete account from database	accountId: 13	1
2	Can delete account from database	accountId: 76	1
3	Cannot delete account from database because invalid account id	accountId: 235	null
4	Cannot delete account from database because invalid account id	accountId: 100	null

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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	2015-07-31	1	-
2	7	Get a FREE order of Dog pretzel	with the purchase of a Green mint mocha	0	2015-08-01	2015-08-09	1	-
3	8	Show student card for a special 10% discount	Not to be used in conjunction with other voucher	0	2015-08-18	2015-09-09	1	-
4	100	FREE coffee or tea	3pm – 6pm (Everyday) With any order on our menu + dessert menu	0	2015-07-28	2015-09-28	1	Invalid shop id

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	3

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		conjunction with other voucher, shared: null, startDate: 2015-08-18, endDate: 2015-09-09, status: 1,	
4	Cannot add promotion because invalid shop id	shopId: 100, name: FREE coffee or tea, description: 3pm – 6pm (Everyday) With any order on our menu + dessert menu, shared: null, startDate: 2015-07-28, endDate: 2015-09-28, status: 1,	null

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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

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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	No this shop Id

Test Case:

Id	Description	Input	Expected result
1	Can delete promotion information by using promotion id	shopId: 6	1
2	Can delete promotion information by using promotion id	shopId: 7	3
3	Cannot delete promotion information cause of no shop id in database	shopId: 1004	null

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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 list of promotion.

Test Data:

-

Test Case:

Id	Description	Input	Expected result
1	Can gather all promotion from database	-	5

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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, end_date: 2015-07-31, status: 1]
2	Can gather promotion information by using promotion id	id: 2	Object(Promotion)[id: 1, shop_id: , name: Get a FREE order of Dog pretzel, description: with the purchase of a Green mint mocha, shared: null, start_date: 2015-08-01, end_date: 2015-08-09, status: 1]
3	Cannot gather promotion information cause of invalid promotion id	id: 33	null

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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	with the purchase of a beverage menu	2015-08-01	2015-08-09	-
2	2	Get a FREE order of Dog pretzel	Not to be used in conjunction with other voucher	2015-08-18	2015-09-09	-
3	90	FREE coffee or tea	3pm – 6pm (Everyday) With any order on our menu + dessert menu	2015-07-28	2015-08-28	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	null

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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.

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	id: 3	Number promotion: 2
2	Can gather list of promotion by using shop id	id: 45	null
3	Cannot gather list of promotion by using shop id cause of invalid id	id: #23	null

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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 18:41:32	-
4	100	user_upload/100/shop_images/latte.jpg	2015-07-23 18:45:52	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	null

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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.

Test Data:

No.	Promotion Id	Remark
1	16	-
2	21	-
3	3	Invalid promotion id
4	100	Invalid promotion id

Test Case:

Id	Description	Input	Expected result
1	Can gather promotion image from database	Promotion_id: 16	Number of promotion image: 2
2	Can gather promotion image from database	Promotion_id: 21	Number of promotion image: 1
3	Can gather promotion image from database, invalid promotion id	Promotion_id: 3	null
4	Cannot gather promotion image from database, invalid promotion id	Promotion_id: 100	null

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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	1009	No image id
4	103	Invalid image id

Test Case:

Id	Description	Input	Expected result
1	Can gather promotion image from database	id: 1	Object(PromotionImage)[id: 1, promotion_id 16: , Image_path: : user_upload/16/shop_images/amazon.jpg, add_date: 2015-07-23 15:11:24]
2	Can gather promotion image from database	id: 2	Object(PromotionImage)[id: 2, promotion_id 16: , 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	id: 1009	null
4	Cannot gather promotion image from database, invalid promotion image id	id: 103	null

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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	1	-
2	2	-
3	19	Invalid promotion id
4	23	Invalid promotion id

Test Case:

Id	Description	Input	Expected result
1	Can delete promotion image from database	promotion_id: 1	2
2	Can delete promotion image from database	promotion_id: 2	1
3	Can delete promotion image from database	promotion_id: 19	null
4	Can delete promotion image from database, invalid promotion id	promotion_id: 23	null

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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	id: 1	1
2	Can delete promotion image from database	id: 2	1
3	Can delete promotion image from database, no promotion id	id: 100	null
4	Can delete promotion image from database, invalid promotion id	id: 80	null

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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	-
2	7	Xxxasdad34234	2015-07-03	-
3	78	user_upload/6/shop_images/cookies.png	2015-07-03	Invalid shop id
4	100	user_upload/6/shop_images/cookies.png	2015-07-03	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: 7, Image path: Xxxasdad34234, add date: 2015-07-03	1
3	Cannot add new shop image into database because invalid shop id	Shop id: 78, Image path: user_upload/78/shop_images/cookies.png, add date: 2015-07-03	null
4	Cannot add new shop image into database because invalid shop id	Shop id: 100, Image path: user_upload/100/shop_images/cookies.png, add date: 2015-07-03	null

Class: ShopImageDAOImpl

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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

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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.

Test Data:

No.	Account Id	Remark
1	6	-
2	7	-
3	8	This id has no image
4	250	Invalid shop id

Test Case:

Id	Description	Input	Expected result
1	Can gather image from database by using account id	6	Number of ShopImage: 2
2	Can gather image from database by using account id	7	Number of ShopImage: 1
3	Cannot gather image from database because this account id has no image	8	null
4	Cannot gather image from database because account id is invalid	250	null

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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	null
4	Cannot delete shop image cause of invalid image id	id: 250	null

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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:]
2	Can gather image from database by using image id	id: 2	Object(ShopImage) [id: 2, shop_id: 7, image_path: Xxxasdad34234, added_date:]
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

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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	6	11	12	100
Name	Coffee Smith	Hello	Oh man	Test add
Address	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200
Phone Number	053 400 289	053 400 289	053 400 289	053 400 289
Sub District	1	1	1	1
Latitude	18.7979711671	18.7979711671	18.7979711671	18.7979711671
Longitude	98.9663887024	98.9663887024	98.9663887024	98.9663887024
Open Time	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM
Description	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai
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: 6, name: Coffee Smith, address: 40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	10
2	Can add new shop	accounts_id: 11,	11

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	information into database	name: Hello, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	
3	Can add new shop information into database	accounts_id: 12, name: Oh man, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	12
4	Cannot add new shop information into database because invalid account id	accounts_id: 100, name: Test add, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	null

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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	null

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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	Coffee Smith nimman	Hey yo	Oh man	Warm up cafe
Address	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200	40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200
Phone Number	053 400 289	053 400 289	053 400 289	053 400 289
Sub District	1	1	1	1
Latitude	18.7979711671	18.7979711671	18.7979711671	18.7979711671
Longitude	98.9663887024	98.9663887024	98.9663887024	98.9663887024
Open Time	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM	Every day from 6.00PM - 12.00AM
Description	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai	Our coffee shop is one of the best place in Chiang mai
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 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	1

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2	Can add new shop information into database	accounts_id: 11, name: Hey yo, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	1
3	Can add new shop information into database	accounts_id: 12, name: Coffee smith nimman, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null	1
4	Cannot add new shop information into database because invalid account id	accounts_id: 100, name: Warm up cafe, address: 40 Nimmarnhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best	null

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		place in Chiang mai, category: null	
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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	-	Number of shop information in database: 3

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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	6	-
2	7	-
3	8	-
4	100	Invalid id

Test Case:

Id	Description	Input	Expected result
1	Can gather shop information by using shop id	6	Object(ShopInformation) [accounts_id: 6, name: Coffee smith, address: 40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null]
2	Can gather shop information by using shop id	7	Object(ShopInformation) [accounts_id: 7, name: Hey yo, address: 40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from

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			6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null]
3	Can gather shop information by using shop id	8	Object(ShopInformation) [accounts_id: 8, name: Oh man, address: 40 Nimmanhemin Rd., T.Suthep, A.Muang,, Chiang Mai, 50200, phone_number: 053 400 289, sub_district: 1, latitude: 18.7979711671, longitude: 98.9663887024, open_time: Every day from 6.00PM - 12.00AM, description: Our coffee shop is one of the best place in Chiang mai, category: null]
4	Can gather shop information by using shop id	100	null

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