

# Smart Quiz

Test Record Document

By

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# Document History

Document Name	Version	Status	Date	Viewable	Reviewer	Responsible
<b>Documents</b>						
SmartQuiz – Test Record_v1.0.docx	Create Record UTC-1 - 115 Create Record STC-1-36	Release	3 July 2015	CS, TP, YP	CS,TP	CS
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**\*CS = Chaichan Sutte**

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# Appendix A

## 1. Admin

### 1.1

Column Name	Data type	Value
admin_id	int	1
admin_username	varchar(16)	admin
admin_password	varchar(16)	123456
admin_name	varchar(255)	admin one

## 2. Lecturer

### 2.1

Column Name	Data type	Value
lecturer_id	int	1
lecturer_username	varchar(16)	lecturerone
lecturer_password	varchar(16)	123456
lecturer_name	varchar(255)	lecturer one
lecturer_faculty	varchar(255)	CAMT
lecturer_department	varchar(255)	SE
lecturer_email	varchar(255)	se01@vr.camt.info
lecturer_tel	varchar(32)	0831112222
lecturer_approvement	bit	1

### 2.2

Column Name	Data type	Value
lecturer_id	int	2
lecturer_username	varchar(16)	lecturertwo
lecturer_password	varchar(16)	123456
lecturer_name	varchar(255)	lecturer two
lecturer_faculty	varchar(255)	CAMT
lecturer_department	varchar(255)	SE
lecturer_email	varchar(255)	se02@vr.camt.info
lecturer_tel	varchar(32)	0832221111
lecturer_approvement	bit	0

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### 3. Student

#### 3.1

Column Name	Data type	Value
student_id	int	542115091
student_username	varchar(16)	studentone
student_password	varchar(16)	123456
student_name	varchar(255)	student one
student_faculty	varchar(255)	CAMT
student_department	varchar(255)	SE
student_address	varchar(255)	Chiang mai, Thailand
student_email	varchar(255)	se542115091@vr.camt.info
student_tel	varchar(32)	0931112222
student_approvement	bit	1

#### 3.2

Column Name	Data type	Value
student_id	int	542115092
student_username	varchar(16)	studenttwo
student_password	varchar(16)	123456
student_name	varchar(255)	student two
student_faculty	varchar(255)	CAMT
student_department	varchar(255)	SE
student_address	varchar(255)	Chiang mai, Thailand
student_email	varchar(255)	se542115092@vr.camt.info
student_tel	varchar(32)	0932221111
student_approvement	bit	0

### 4. Sesmester

#### 4.1

Column Name	Data type	Value
semester_id	int	1
academic_year	varchar(16)	1_2557

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## 5. Course

### 5.1

Column Name	Data type	Value
course_id	int	1
lecturer_id	int	1
semester_id	int	1
course_name	varchar(255)	Math
course_credit	int	3
course_description	varchar(max)	Math is easy

## 6. CourseRegistration

### 6.1

Column Name	Data type	Value
courseRegistration_id	int	1
course_id	int	1
student_id	int	542115091

## 7. Testing

### 7.1

Column Name	Data type	Value
testing_id	int	1
course_id	int	1
testing_name	varchar(255)	Intro to Math
testing_type	varchar(1)	1
testing_amountQuestion	int	3
testing_score	float	9
testing_random	bit	1
testing_posting	bit	1
testing_submitTime	datetime2	2014-11-10 10:30:00
testing_student	varchar(max)	542115091

## 8. Question

### 8.1

Column Name	Data type	Value
question_id	int	1
testing_id	int	1
question_description	varchar(max)	1+1 = ?
question_choice	varchar(max)	3#\$4#\$2#\$1
question_solution	varchar(1)	3
question_point	float	3
question_type	varchar(1)	1

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## 8.2

Column Name	Data type	Value
question_id	int	2
testing_id	int	1
question_description	varchar(max)	1-1 = 0
question_choice	varchar(max)	True#\$False
question_solution	varchar(1)	1
question_point	float	3
question_type	varchar(1)	2

## 8.3

Column Name	Data type	Value
question_id	int	3
testing_id	int	1
question_description	varchar(max)	2+1 = ?
question_choice	varchar(max)	Null
question_solution	varchar(1)	Null
question_point	float	3
question_type	varchar(1)	3

## 9. AnswerSheet

### 9.1

Column Name	Data type	Value
answerSheet_id	int	1
student_id	int	542115091
testing_id	int	1
answerSheet_score	float	6
answerSheet_time	datetime2	2014-10-20 10:20:15
answerSheet_submitResult	bit	1
answerSheet_isChecked	bit	1

## 10. Answer

### 10.1

Column Name	Data type	Value
answer_id	int	1
question_id	int	1
answerSheet_id	int	1
answer	varchar(max)	3
answer_point	float	3

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## 10.2

Column Name	Data type	Value
answer_id	int	2
question_id	int	2
answerSheet_id	int	1
answer	varchar(max)	1
answer_point	float	3

## 10.3

Column Name	Data type	Value
answer_id	int	3
question_id	int	3
answerSheet_id	int	1
answer	varchar(max)	10
answer_point	float	0

## 11. Posts

Column Name	Data type	Value
post_id	int	1
course_id	int	1
poster_id	int	1
posts_name	varchar(max)	“post 1”
posts_description	varchar(max)	“post 1”
posts_client	varchar(1)	“3”
posts_recommend	varchar(1)	“0”

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# Test case of Unit Test (UTC)

**UTC-1 insertStudentInfo(stuId: int, stuUsername: string, stuPassword: string, stuName: string, stuFaculty: string, stuDepartment: string, stuAddress: string, stuEmail: string, stuTel: string): bool (Return True)**

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-1:** insertStudentInfo(stuId: int, stuUsername: string, stuPassword: string, stuName: string, stuFaculty: string, stuDepartment: string, stuAddress: string, stuEmail: string, stuTel: string): bool

**Description :** The test case is used for testing insertStudentInfo method in StudentRepository. This method is used for inserting a student account to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel
TD1	542115093	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD2	542115093	null	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD3	542115093	"studentthree"	null	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD4	542115093	"studentthree"	"123456"	null	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD5	542115093	"studentthree"	"123456"	"student three"	null	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD6	542115093	"studentthree"	"123456"	"student three"	"CAMT"	null	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD7	542115093	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	null	"se542115093@vr.camt.info"	"0932223333"
TD8	542115093	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	null	"0932223333"
TD9	542115093	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	null
TD10	null	null	null	null	null	null	null	null	null

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## Test Case

Case	Description	Input	Expect Result	Actual Result
1	Test inputs all parameters is correct data	TD1	True	Pass
2	Test inputs student username is null	TD2	False	Pass
3	Test inputs student password is null	TD3	False	Pass
4	Test inputs student name is null	TD4	False	Pass
5	Test inputs student faculty is null	TD5	False	Pass
6	Test inputs student department is null	TD6	False	Pass
7	Test inputs student address is null	TD7	False	Pass
8	Test inputs student email is null	TD8	False	Pass
9	Test inputs student tel is null	TD9	False	Pass
10	Test inputs all parameters is null	TD10	False	Pass

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**UTC-2 updateStudentInfo(stuId: int, stuPassword: string, stuName: string, stuFaculty: string, stuDepartment: string, stuAddress: string, ,string, stuTel: string) : bool (Return True)**

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-2:** updateStudentInfo(stuId: int, stuPassword: string, stuName: string, stuFaculty: string, stuDepartment: string, stuAddress: string, ,string, stuTel: string) : bool

**Description :** The test case is used for testing updateStudentInfo method in StudentRepository. This method is used for updating student

### Prerequisites or Test Data

: Appendix A

### Test Data

No	student_id	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel
ID1	542115091	"1234567"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"
TD2	542115091	null	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"
TD3	542115091	"123456"	null	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"
TD4	542115091	"123456"	"student one"	null	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"
TD5	542115091	"123456"	"student one"	"CAMT"	null	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"
TD6	542115091	"123456"	"student one"	"CAMT"	"SE"	null	"se542115091@vr.camt.info"	"0931112222"
TD7	542115091	"123456"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	null	"0931112222"
TD8	542115091	"123456"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	null
TD9	null	null	null	null	null	null	null	null

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## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs student password is null	TD2	False	False	Pass
3	Test inputs student name is null	TD3	False	False	Pass
4	Test inputs student faculty is null	TD4	False	False	Pass
5	Test inputs student department is null	TD5	False	False	Pass
6	Test inputs student address is null	TD6	False	False	Pass
7	Test inputs student email is null	TD7	False	False	Pass
8	Test inputs student tel is null	TD8	False	False	Pass
9	Test inputs all parameters is null	TD9	False	False	Pass

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### UTC-3 viewStudentInfo(stuId : int) : Student

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-3:** viewStudentInfo(stuId : int) : Student

**Description :** The test case is used for testing viewStudentInfo method in StudentRepository. This method is used for viewing student information into the database.

#### Prerequisites or Test Data

: Appendix A

#### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1
Obj2	0	null	"null"	null	null	null	null	null	null	0

#### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115091	542115091	Obj1	Obj1	Pass
2	Test inputs student id is 3	3	Obj2	Obj2	Pass

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## UTC-4 viewListStudentFromStudentId(stuId : string) : List<Student>

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-4:** viewListStudentFromStudentId(stuId : string) : List<Student>

**Description:** The test case is used for testing viewListStudentFromStudentId method in StudentRepository. This method is used for viewing a list of student information into the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1
Obj2	542115092	"studenttwo"	"123456"	"studenttwo"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115092@vr.camt.info"	"0932221111"	0

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115091,542115092	"542115091,542115092"	[Obj1, Obj2]	[Obj1, Obj2]	Pass
2	Test inputs student id is null	null	[ ]	[ ]	Pass

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## UTC-5 approveStudentStatus (stuId: string): string

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-5:** approveStudentStatus (stuId: string): string

**Description:** The test case is used for testing approveStudentStatus method in StudentRepository. This method is used for approving student\_improvement information into the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115092

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115091	542115092	“542115092”	“542115092”	Pass

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## UTC-6 viewStudentNotAvailable (): List<Student>

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-6:** viewStudentNotAvailable (): List<Student>

**Description:** The test case is used for testing viewStudentNotAvailable method in StudentRepository. This method is used for viewing a list of student information that have approval\_status equal false from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115092	“studenttwo”	“123456”	“student two”	“CAMT”	“SE”	“Chiang mai, Thailand”	“se542115092@vr.camt.info”	“0932221111”	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test method for returning list of student that do not available	-	[Obj1]	[Obj1]	Pass

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## UTC-7 viewStudentAvailable (): List<Student>

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-7:** viewStudentAvailable (): List<Student>

**Description:** The test case is used for testing viewStudentNotAvailable method in StudentRepository. This method is used for viewing a list of student information that have approval\_status equal true from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test method for returning list of student that available	-	[Obj1]	[Obj1]	pass

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## UTC-8 viewStudentByUsernamePassword (stuUsername : string, stuPassword : string): Student

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-8:** viewStudentByUsernamePassword (stuUsername : string, stuPassword : string): Student

**Description:** The test case is used for testing viewStudentByUsernamePassword method in StudentRepository. This method is used for viewing student information from the database by using student username and student password for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1
Obj2	0	null	"null"	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	student_username = "studentone", student_password = "123456"	Obj1	Obj1	Pass
2	Test inputs all parameters is not correct data	student_username = "studentthree", student_password = "123456"	Obj2	Obj2	Pass

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## UTC-9 viewStudentIdByUsername (stuUsername: string): int

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-9:** viewStudentIdByUsername (stuUsername: string): int

**Description:** The test case is used for testing viewStudentIdByUsername method in StudentRepository. This method is used for viewing student id from the database by using student username for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115091
TD2	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	student_username = “studentone”	TD1	TD1	Pass
2	Test inputs all parameters is not correct data	student_username = “studentthree”	TD2	TD2	Pass

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## UTC-10 deleteStudent (studentId: int): bool (Return True)

**Package:** Repository

**Class:** StudentRepository

**Unit Test Case-10:** deleteStudent (studentId: int): bool

**Description:** The test case is used for testing deleteStudent method in StudentRepository. This method is used for deleting student information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115091

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115091	TD1	True	True	Pass

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**UTC-11 insertLecturerInfo(lecId : int, lecUsername : string, lecPassword : stirng, lecName : stirng, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string): bool (Return True)**

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-11:** insertLecturerInfo(lecId : int, lecUsername : string, lecPassword : stirng, lecName : stirng, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string): bool

**Description:** The test case is used for testing method insertLecturerInfo in LecturerRepository. This method is used for inserting lecturer information to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel
TD1	3	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD2	3	null	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD3	3	"lecturerthree"	null	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD4	3	"lecturerthree"	"123456"	null	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD5	3	"lecturerthree"	"123456"	"lecturer three"	null	"SE"	"se03@vr.camt.info"	"0833201787"
TD6	3	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	null	"se03@vr.camt.info"	"0833201787"
TD7	3	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	"SE"	null	"0833201787"
TD8	3	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	null
TD9	null	null	null	null	null	null	null	null

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### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs lecturer username is null	TD2	False	False	Pass
3	Test inputs lecturer password is null	TD3	False	False	Pass
4	Test inputs lecturer name is null	TD4	False	False	Pass
5	Test inputs lecturer faculty is null	TD5	False	False	Pass
6	Test inputs lecturer department is null	TD6	False	False	Pass
7	Test inputs lecturer email is null	TD7	False	False	Pass
8	Test inputs lecturer tel is null	TD8	False	False	Pass
9	Test inputs all parameters is null	TD9	False	False	Pass

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**UTC-12 updateLecturerInfo(lecId : int, lecPassword : string, lecName : string, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string) : bool (Return True)**

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-12:** updateLecturerInfo(lecId : int, lecPassword : string, lecName : string, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string) : bool

**Description:** The test case is used for testing method insertLecturerInfo in LecturerRepository. This method is used for updating lecturer information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No	lecturer_id	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel
TD1	1	"1234567"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"
TD2	1	null	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"
TD3	1	"123456"	null	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"
TD4	1	"123456"	"lecturer one"	null	"SE"	"se01@vr.camt.info"	"0831112222"
TD5	1	"123456"	"lecturer one"	"CAMT"	null	"se01@vr.camt.info"	"0831112222"
TD6	1	"123456"	"lecturer one"	"CAMT"	"SE"	null	"0831112222"
TD7	1	"123456"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	null
TD8	null	null	null	null	null	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs lecturer password is null	TD2	False	False	Pass
3	Test inputs lecturer name is null	TD3	False	False	Pass
4	Test inputs lecturer faculty is null	TD4	False	False	Pass
5	Test inputs lecturer department is null	TD5	False	False	Pass
6	Test inputs lecturer email is null	TD6	False	False	Pass
7	Test inputs lecturer tel is null	TD7	False	False	Pass
8	Test inputs all parameters is null	TD8	False	False	Pass

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## UTC-13 veiwLecturerInfo(lecId : int) : Lecturer

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-13:** veiwLecturerInfo(lecId : int) : Lecturer

**Description:** The test case is used for testing method veiwLecturerInfo in LecturerRepository. This method is used for view Lecturer information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1
Obj2	3	null	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id that exist in database	1	Obj1	Obj1	Pass
2	Test input lecturer id that does not exist in database	3	Obj2	Obj2	pass

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## UTC-14 approveLecturerStatus(lecId : int) : string

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-14:** approveLecturerStatus(lecId : int) : Lecturer

**Description:** The test case is used for testing approveLecturerStatus method in LecturerRepository. This method is used for approving lecturer\_approval information into the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id
TD1	2

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id is 2	TD1	"2"	"2"	Pass

## UTC-15 viewLecturerNotAvailable() : List<Lecturer>

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**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-15:** viewLecturerNotAvailable() : List<Lecturer>

**Description:** The test case is used for testing viewLecturerNotAvailable method in LecturerRepository. This method is used for viewing a list of lecturer information that have approval\_status equal false from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	2	"lecturertwo"	"123456"	"lecturer two"	"CAMT"	"SE"	"se02@vr.camt.info"	"083222 1111 "	0

### Test Case

Case	Description	Input	Expected Result	Expected Result	Pass/Fail
1	Test method for returning list of lecturer that do not available	-	[Obj1]	[Obj1]	Pass

### UTC-16 viewLecturerAvailable() : List<Lecturer>

**Package:** Repository

**Class:** LecturerRepository

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**Unit Test Case-16:** viewLecturerAvailable() : List<Lecturer>

**Description:** The test case is used for testing viewLecturerAvailable method in LecturerRepository. This method is used for viewing a list of lecturer information that have approvement\_status equal true from the database.

**Prerequisites or Test Data**

: Appendix A

**Test Data**

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test method for returning list of lecturer that do not available	-	[Obj1]	[Obj1]	Pass

**UTC-17 viewLecturerByUsernamePassword(lecUsername : string, lecPassword : string) : Lecturer**

**Package:** Repository

**Class:** LecturerRepository

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**Unit Test Case-17:** viewLecturerByUsernamePassword(lecUsername : string, lecPassword : string) : Lecturer

**Description:** The test case is used for testing viewLecturerByUsernamePassword method in LecturerRepository. This method is used for viewing lecturer information from the database by using lecturer username and lecturer password for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1
Obj2	3	null	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	lecturer_username = "lecturerone", lecturer_password = "123456"	Obj1	Obj1	Pass
2	Test inputs all parameters is not correct data	lecturer_username = "lecturerthree", lecturer_password = "123456"	Obj2	Obj2	Pass

### UTC-18 viewLecturerByUsername(lecUsername : string) : int

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-18:** viewLecturerByUsername(lecUsername : string) : Lecturer

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**Description:** The test case is used for testing viewLecturerByUsername method in LecturerRepository. This method is used for viewing lecturer id from the database by using lecturer username for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id
TD1	1
TD2	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	lecturer_username = "lecturerone"	TD1	TD1	Pass
2	Test inputs all parameters is not correct data	lecturer_username = "lecturerthree"	TD2	TD2	Pass

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## UTC-19 deleteLecturer(lecturerId : int) : bool (Return True)

**Package:** Repository

**Class:** LecturerRepository

**Unit Test Case-19:** deleteLecturer(lecturerId : int) : bool

**Description:** The test case is used for testing deleteLecturer method in LecturerRepository. This method is used for deleting lecturer information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs lecturer id is 1	TD1	True	True	Pass

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## UTC-20 viewAdminByUsernamePassword(adminUsername : string, adminPassword : string) : Admin

**Package:** Repository

**Class:** AdministratorRepository

**Unit Test Case-20:** viewAdminByUsernamePassword(adminUsername : string, adminPassword : string) : Admin

**Description:** The test case is used for testing viewAdminByUsernamePassword method in AdministratorRepository. This method is used for viewing administrator information from the database by using admin username and admin password for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	admin_id	admin_username	admin_password	admin_name
Obj1	1	“admin”	“123456”	“admin one”
Obj2	0	null	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	admin_username = “admin”, admin_password = “123456”	Obj1	Obj1	Pass
2	Test inputs all parameters is not correct data	admin_username = “eiei”, admin_password = “123456”	Obj2	Obj2	Pass

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## UTC-21 viewAdminByUsername(adminUsername : string) : int

**Package:** Repository

**Class:** AdministratorRepository

**Unit Test Case-21:** viewAdminByUsername(adminUsername : string) : Admin

**Description:** The test case is used for testing viewAdminByUsername method in AdministratorRepository. This method is used for viewing admin id from the database by using admin username for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	admin_id
TD1	1
TD2	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/fail
1	Test inputs all parameters is correct data	admin_username = "admin"	TD1	TD1	Pass
2	Test inputs all parameters is not correct data	admin_username = "eiei"	TD2	TD2	Pass

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## UTC-22 viewSemesterInfo(int semId) : Semester

**Package:** Repository

**Class:** SemesterRepository

**Unit Test Case-22:** viewSemesterInfo(int semId) : Semester

**Description:** The test case is used for testing method viewSemesterInfo in SemesterRepository. This method is used for view Semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No	semester_id	academic_year
Obj1	1	"1/2557"
Obj2	2	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input semester id that exist in database	1	Obj1	Obj1	Pass
2	Test input semester id that does not exist in database	2	Obj2	Obj2	Pass

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## UTC-23 viewAllSemester() : List<Semester>

**Package:** Repository

**Class:** SemesterRepository

**Unit Test Case-23:** viewAllSemester() : List<Semester>

**Description:** The test case is used for testing method viewAllSemester in SemesterRepository. This method is used for view a list of Semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No	semester_id	academic_year
Obj1	1	"1/2557"

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test method for returning list of semester	-	[Obj1]	[Obj1]	Pass

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## UTC-24 insertSemester(academicYear : string) : bool (Return True)

**Package:** Repository

**Class:** SemesterRepository

**Unit Test Case-24:** insertSemester(academicYear : string) : bool

**Description:** The test case is used for testing method insertSemester in SemesterRepository. This method is used for inserting semester information to the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	academic_year
TD1	"2/2557"
TD2	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs academic_year is null	TD2	False	False	Pass

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## UTC-25 updateSemester(semesterId : int, academicYear : string) : bool (Return True)

**Package:** Repository

**Class:** SemesterRepository

**Unit Test Case-25:** updateSemester(semesterId : int, academicYear : string) : bool

**Description:** The test case is used for testing method updateSemester in SemesterRepository. This method is used for updating semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	semester_id	academic_year
TD1	1	"2/2557"
TD2	1	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs academic_year is null	TD2	False	False	Pass

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## UTC-26 deleteSemester(semesterId : int) : bool (Return True)

**Package:** Repository

**Class:** SemesterRepository

**Unit Test Case-26:** deleteSemester(semesterId : int) : bool

**Description:** The test case is used for testing method deleteSemester in SemesterRepository. This method is used for deleting semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	semester_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs semester id is one	TD1	True	True	Pass

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## UTC-27 viewCourseInfoByLecturerId (lecId : int, semesterId : int): List<Course>

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-27:** viewCourseInfoByLecturerId (lecId : int, semesterId : int):  
List<Course>

**Description:** The test case is used for testing viewCourseInfoByLecturerId method in CourseRepository. This method is used for viewing list of course from the database by using lecturer id for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test input lecturer id and semester id that have course exist in database	lecturer_id = 1, semester_id = 1	[Obj3]	[Obj3]	Pass
2	Test input lecturer id and semester id that do not have course exist in database	lecturer_id = 1, semester_id = 2	[Obj4]	[Obj4]	Pass

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## UTC-28 viewCourseInfoByCourseId(course\_id: int): Course

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-28:** viewCourseInfoByCourseId(course\_id: int) : Course

**Description:** The test case is used for testing viewCourseInfoByCourseId method in CourseRepository. This method is used for viewing course information from the database by using course id for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvalment
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input course id that exist in database	course_id = 1	Obj3	Obj3	Pass
2	Test input course id that does not exist in database	course_id = 2	Obj4	Obj4	Pass

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## UTC-29 viewCoursebySemesterId(semId : int): List<Course>

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-29:** viewCoursebySemesterId(semId : int) : List<Course>

**Description:** The test case is used for testing viewCoursebySemesterId method in CourseRepository. This method is used for viewing a list of course information from the database by using semester id for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvalment
Obj1	1	“lecturerone”	“123456”	“lecturerone”	“CAMT”	“SE”	“se01@vr.camt.info”	“0831112222”	1

Object No	semester_id	academic_year
Obj2	1	“1/2557”

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	“Math”	3	“Math is easy”
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input course id that exist in database	semester_id = 1	[Obj3]	[Obj3]	Pass
2	Test input course id that does not exist in database	semester_id = 2	[Obj4]	[Obj4]	Pass

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**UTC-30 insertCourse(lecturerId: int, semesterId : int, courseName : string, courseCredit : int, courseDescription : string): bool (Return True)**

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-30:** insertCourse(lecturerId: int, semesterId : int, courseName : string, courseCredit : int, courseDescription : string) : bool

**Description:** The test case is used for testing insertCourse method in CourseRepository. This method is used for inserting course information to the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id	semester_id	course_name	course_credit	course_description
TD1	1	1	"C++ language"	3	"C++ is good"
TD2	0	1	"C++ language"	3	"C++ is good"
TD3	1	0	"C++ language"	3	"C++ is good"
TD4	1	1	null	3	"C++ is good"
TD5	1	1	"C++ language"	3	"C++ is good"
TD6	0	0	null	3	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs lecturer id is zero	TD2	False	False	Pass
3	Test inputs lecturer id is zero	TD3	False	False	Pass
4	Test inputs lecturer id is null	TD4	False	False	Pass
5	Test inputs lecturer id is null	TD5	False	False	Pass
6	Test inputs all parameters is incorrect data	TD6	False	False	Pass

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**UTC-31 updateCourse(courseId: int, lecturerId: int, semesterId : int, courseName : string, courseCredit : int, courseDescription : string): bool (Return True)**

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-31:** updateCourse(courseId: int, lecturerId: int, semesterId : int, courseName : string, courseCredit : int, courseDescription : string) : bool

**Description:** The test case is used for testing updateCourse method in CourseRepository. This method is used for updating course information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
TD1	1	1	1	"Math"	2	"Math is easy"
TD2	1	0	1	"Math"	3	"Math is easy"
TD3	1	1	0	"Math"	3	"Math is easy"
TD4	1	1	1	null	3	"Math is easy"
TD5	1	1	1	"Math"	3	null
TD6	1	0	0	null	3	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs lecturer id is zero	TD2	False	False	Pass
3	Test inputs lecturer id is zero	TD3	False	False	Pass
4	Test inputs lecturer id is null	TD4	False	False	Pass
5	Test inputs lecturer id is null	TD5	False	False	Pass
6	Test inputs lecturer id, semester id, course name, and course description is incorrect data.	TD6	False	False	Pass

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## UTC-32 deleteCourse(courseId int): bool (Return True)

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-32:** deleteCourse(courseId int) : bool

**Description:** The test case is used for testing deleteCourse method in CourseRepository. This method is used for delete course information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id is one	TD1	True	True	Pass

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## UTC-33 viewPreviousCourse(int lecturerId): Course

**Package:** Repository

**Class:** CourseRepository

**Unit Test Case-33:** viewPreviousCourse(int lecturerId) : Course

**Description:** The test case is used for testing viewPreviousCourse method in CourseRepository. This method is used for viewing latest course information that was created by lecturer.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id that have course exist in database	lecturer_id = 1	Obj3	Obj3	Pass
2	Test input course id that have course does not exist in database	lecturer_id = 3	Obj4	Obj4	Pass

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## UTC-34 viewStudentInCourse(courseId: int): List<CourseRegistration>

**Package:** Repository

**Class:** CourseRegisRepository

**Unit Test Case-34:** viewStudentInCourse(courseId: int) : List<CourseRegistration>

**Description:** The test case is used for testing viewStudentInCourse method in CourseRegisRepository. This method is used for viewing a list of student information that register in the course

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approvement
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

Object No.	courseRegistration_id	course_id	student_id
Obj5	1	Obj3	Obj4
Obj6	0	null	null

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## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input course id that exist in database	course_id = 1	[Obj5]	[Obj5]	Pass
2	Test input course id that does not exist in database	course_id = 2	[Obj6]	[Obj6]	Pass

## UTC-35 viewCourseFromStudent(student\_id: int): List<CourseRegistration>

**Package:** Repository

**Class:** CourseRegisRepository

**Unit Test Case-35:** viewCourseFromStudent(student\_id: int)  
List<CourseRegistration>

**Description:** The test case is used for testing viewCourseFromStudent method in CourseRegisRepository. This method is used for viewing a list of courses information that were registered in the course

## Prerequisites or Test Data

: Appendix A

## Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvalment
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

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Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

Object No.	courseRegistration_id	course_id	student_id
Obj5	1	Obj3	Obj4
Obj6	0	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input student id that exist in database	student_id = 542115091	[Obj5]	[Obj5]	Pass
2	Test input student id that does not exist in database	student_id = 542115093	[Obj6]	[Obj6]	Pass

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**UTC-36 insertStudentsInCourse (courseId: int, studentIdList: List<int>):  
bool (Return True)**

**Package:** Repository

**Class:** CourseRegisRepository

**Unit Test Case-36:** insertStudentsInCourse (courseId: int, studentIdList: List<int>) :  
bool

**Description:** The test case is used for testing insertStudentsInCourse method in CourseRegisRepository. This method is used for inserting a student to the course for registration in course.

**Prerequisites or Test Data**

: Appendix A

**Test Data**

No.	student_id
TD1	542115092
TD2	542115093

No.	course_id
TD3	1
TD4	2

**Test Case**

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test inputs all parameters is correct data	course_id = TD3, studentIdList = [TD1]	True	True	Pass
2	Test inputs student_id id is incorrect data	course_id = TD3, studentIdList = [TD2]	False	False	Pass
3	Test inputs course id is incorrect data	course_id = TD4, studentIdList = [TD1]	False	False	Pass

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## UTC-37 deleteStudentInCourse (courseId: int, studentIdList: int): bool (Return True)

**Package:** Repository

**Class:** CourseRegisRepository

**Unit Test Case-37:** deleteStudentInCourse (courseId: int, studentIdList: int)

**Description:** The test case is used for testing insertStudentsInCourse method in CourseRegisRepository. This method is used for deleting of a student from the course

### Prerequisites or Test Data

: Appendix A

#### Test Data

No.	student_id
TD1	542115092

No.	course_id
TD2	1

#### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	course_id = TD2, studentIdList = [TD1]	True	True	Pass

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**UTC-38 insertTesting (courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string, submit\_date: Nullable<DateTime>): bool (Return True)**

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-38:** insertTesting (courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string, submit\_date: Nullable<DateTime>): bool

**Description:** The test case is used for testing insertTesting method in TestingRepository. This method is used for inserting a testing to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
TD1	1	"Quiz Math 1"	"1"	1	3	1	1	null	"542115091"
TD2	2	"Quiz Math 1"	"1"	1	3	1	1	null	"542115091"
TD3	1	null	"1"	1	3	1	1	null	"542115091"
TD4	1	"Quiz Math 1"	null	1	3	1	1	null	"542115091"
TD5	1	"Quiz Math 1"	"1"	1	3	1	1	null	"null"
TD6	1	null	null	null	null	null	null	null	null

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs course id is incorrect data	TD2	False	False	Pass
3	Test inputs testing name is null	TD3	False	False	Pass
4	Test inputs testing type is null	TD4	False	False	Pass
5	Test inputs testing student is null	TD5	False	False	Pass
6	Test inputs all parameters is null	TD1	False	False	Pass

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## UTC-39 viewPreviousTestingId(courseId: int): int

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-39:** viewPreviousTestingId(courseId: int) : int

**Description:** The test case is used for testing viewPreviousTestingId method in TestingRepository. This method is used for viewing a latest testing that was created in course.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id
TD1	1
TD2	2

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that have existing of testing in database	TD1	testing_id = 1	testing_id = 1	Pass
2	Test inputs course id that does not exist in database	TD2	testing_id = 0	testing_id = 0	Pass

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## UTC-40 viewTestingByTestingId(testingId: int): Testing

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-40:** viewTestingByTestingId(testingId: int): Testing

**Description:** The test case is used for testing viewTestingByTestingId method in TestingRepository. This method is used for viewing testing information by using testing id in searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approvement
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]
Obj6	0	null	null	null	0	0	0	0	null	null

### Test Case

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Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input testing id that exist in database	testing_id = 1	Obj5	Obj5	Pass
2	Test input testing id that does not exist in database	course_id = 2	Obj6	Obj6	Pass

## UTC-41 viewListTestingbyCourseId(courseId: int): List<Testing>

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-41:** viewListTestingbyCourseId(courseId: int)

**Description:** The test case is used for testing viewListTestingbyCourseId method in TestingRepository. This method is used for viewing a list of testing information in a course.

## Prerequisites or Test Data

: Appendix A

## Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

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No.	testing_ id	course_ id	testing_ name	testing_ type	testing_amount Question	testing_ score	testing_ random	testing_ posting	testing_submit Time	testing_ student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that have existing of testing in database	course_id = 1	[Obj5]	[Obj5]	Pass
2	Test inputs course id that does not exist in database	course_id = 2	[ ]	[ ]	Pass

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**UTC-42 updateTestinginfo(testingId: int, courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string): bool (Return True)**

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-42:** updateTestinginfo(testingId: int, courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string) : bool

**Description:** The test case is used for testing updateTestinginfo method in TestingRepository. This method is used for updating testing information in the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	testing_id	course_id	testing_name	testing_type	testing_amountQuestion	testing_score	testing_random	testing_posting	testing_student
TD1	1	1	"Math 2"	"1"	3	9	1	1	"542115091"
TD2	1	2	"Intro to Math"	"1"	3	9	1	1	"542115091"
TD3	1	1	null	"1"	3	9	1	1	"542115091"
TD4	1	1	"Intro to Math"	null	3	9	1	1	"542115091"
TD5	1	1	"Intro to Math"	"1"	3	9	1	1	null
TD6	1	0	null	null	3	9	1	1	null

## Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs course id is incorrect data	TD2	False	False	Pass
3	Test inputs testing name is null	TD3	False	False	Pass
4	Test inputs testing type is null	TD4	False	False	Pass
5	Test inputs testing student is null	TD5	False	False	Pass
6	Test inputs course id is incorrect data and testing name, testing type, and testing student is null	TD6	False	False	Pass

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## UTC-43 viewListTestingThatPost():List<Testing>

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-43:** viewListTestingThatPost():List<Testing>

**Description:** The test case is used for testing viewListTestingThatPost method in TestingRepository. This method is used for viewing a list of testing that are posting status equally 1.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount	testing_score	testing_random	testing_posting	testing_submit	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test method for returning list of testing that are posting status equally one	-	[Obj5]	[Obj5]	Pass

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## UTC-44 updateStudentInTesting(testingId int, testing\_student string): bool (Return True)

**Package:** Repository

**Class:** TestingRepository

**Unit Test Case-44:** updateStudentInTesting(testingId int, testing\_student string): bool

**Description:** The test case is used for testing updateStudentInTesting method in TestingRepository. This method is used for updating a student in the testing for accession.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	testing_id	student_id
TD1	1	“542115091,542115092”
TD2	1	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs student id is null	TD2	False	False	Pass

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**UTC-45 insertQuestion(testing\_id : int, listQuestion : List<Question>) : bool (Return True)**

**Package:** Repository

**Class:** QuestionRepository

**Unit Test Case-45:** insertQuestion(testing\_id : int, listQuestion : List<Question>) : bool

**Description:** The test case is used for testing insertQuestion method in QuestionRepository. This method is used for inserting a question

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	testing_id
TD1	1
TD2	2

Object No.	question_type	question_description	question_choice	question_solution	question_point
Obj1	“3”	“Question 4”	“”	“”	3
Obj2	null	“Question 4”	“”	“”	3
Obj3	3”	null	“”	“”	3

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1, [Obj1]	True	True	Pass
2	Test inputs testing id that does not exist in database	TD2, [Obj1]	False	False	Pass
3	Test inputs question type is null	TD1, [Obj2]	False	False	Pass
4	Test inputs question description is null	TD1, [Obj3]	False	False	Pass

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## UTC-46 viewQuestionbyTestingId(testing : Testing) : List<Question>

**Package:** Repository

**Class:** QuestionRepository

**Unit Test Case-46:** viewQuestionbyTestingId(testing : Testing) : List<Question>

**Description:** The test case is used for testing viewQuestionbyTestingId method in QuestionRepository. This method is used for viewing a list of question information in a testing.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj1	1	null	null	null	0	0	0	0	null	null
Obj2	1	null	null	null	0	0	0	0	null	null
Obj3	2	null	null	null	0	0	0	0	null	null

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj4	1	Obj1	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj5	2	Obj1	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj6	3	Obj1	"3"	"2+1 = ?"	""	""	3

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test input testing id that have questions exist in database	Obj2	[Obj4, Obj5, Obj6]	[Obj4, Obj5, Obj6]	Pass
2	Test input testing id that does not exist in database	Obj3	[ ]	[ ]	Pass

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**UTC-47 updateQuestioninfo(testing\_id : int, listQuestion : List<Question>) : bool (Return True)**

**Package:** Repository

**Class:** QuestionRepository

**Unit Test Case-47:** updateQuestioninfo(testing\_id : int, listQuestion : List<Question>) : bool

**Description:** The test case is used for testing updateQuestioninfo method in QuestionRepository. This method is used for updating question information in database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	testing_id
TD1	1
TD2	2

Object No.	question_id	question_type	question_description	question_choice	question_solution	question_point
Obj1	1	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	2
Obj2	1	null	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj3	1	"1"	null	"3#\$4#\$2#\$1"	"3"	3
Obj4	1	null	null	"3#\$4#\$2#\$1"	"3"	3

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1, [Obj1]	True	True	Pass
2	Test inputs testing id that does not exist in database	TD2, [Obj1]	False	False	Pass
3	Test inputs question type is null	TD1, [Obj2]	False	False	Pass
4	Test inputs question description is null	TD1, [Obj3]	False	False	Pass
5	Test inputs testing id that does not exist in database and question type, question description is null	TD2, [Obj4]	False	False	Pass

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## UTC-48 viewQuestionById(int questionId) : Question

**Package:** Repository

**Class:** QuestionRepository

**Unit Test Case-48:** viewQuestionById(int questionId) : Question

**Description:** The test case is used for testing updateQuestionInfo method in QuestionRepository. This method is used for viewing question information in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj1	1	null	null	null	0	0	0	0	null	null

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj2	1	Obj1	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj3	0	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test input question id that exist in database	question_id=1	Obj2	Obj2	Pass
2	Test input question id that does not exist in database	question_id=4	Obj3	Obj3	Pass

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**UTC-49 insertAnswerSheet(studentId : int, testingId : int, answerSheetScore : Nullable<double>, submitTime : DateTime, submit\_result : Nullable<int>, isCheck : int) : bool (Return True)**

**Package:** Repository

**Class:** AnswerSheetRepository

**Unit Test Case-49:** insertAnswerSheet(studentId : int, testingId : int, answerSheetScore : Nullable<double>, submitTime : DateTime, submit\_result : Nullable<int>, isCheck : int) : bool

**Description:** The test case is used for testing insertAnswerSheet method in AnswerSheetRepository. This method is used for inserting answer sheet information in database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
TD1	542115091	1	6	DateTime.Now	1	0
TD2	0	1	6	DateTime.Now	1	0
TD3	542115091	0	6	DateTime.Now	1	0
TD4	0	0	6	DateTime.Now	1	0

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs student id that does not exist in database	TD2	False	False	Pass
3	Test inputs testing id that does not exist in database	TD3	False	False	Pass
4	Test inputs student id and testing id that does not exist in database	TD4	False	False	Pass

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## UTC-50 viewPreviousAnswerSheetId(studentId : int) : int

**Package:** Repository

**Class:** AnswerSheetRepository

**Unit Test Case-50:** viewPreviousAnswerSheetId(studentId : int) : int

**Description:** The test case is used for testing viewPreviousAnswerSheetId method in AnswerSheetRepository. This method is used for viewing a latest answer sheet that was created by student.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115091

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id that have answer sheet exist in database	TD1	1	1	Pass

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## UTC-51 viewListAnswerSheetBytestingId(testingId : int) : List<AnswerSheet>

**Package:** Repository

**Class:** AnswerSheetRepository

**Unit Test Case-51:** viewListAnswerSheetBytestingId(testingId : int) : List<AnswerSheet>

**Description:** The test case is used for testing viewListAnswerSheetBytestingId method in AnswerSheetRepository. This method is used for viewing a list of answer sheet in testing.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

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No.	Answersheet_id	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
Obj6	1	Obj4	Obj5	6	"2014-10-20 10:20:15"	1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs testing id that have answer sheet exist in database	testing_id = 1	[Obj6]	[Obj6]	Pass
2	Test inputs testing id is incorrect data.	testing_id = 2	[ ]	[ ]	Pass

### UTC-52 viewAnswerSheetInfo(answerSheetId : int) : AnswerSheet

**Package:** Repository

**Class:** AnswerSheetRepository

**Unit Test Case-52:** viewAnswerSheetInfo(answerSheetId : int) : AnswerSheet

**Description:** The test case is used for testing viewAnswerSheetInfo method in AnswerSheetRepository. This method is used for viewing answer sheet information in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"083111 2222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

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Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount	testing_score	testing_random	testing_posting	testing_submit	testing_time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"		[Obj4]

No.	Answersheet_id	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
Obj6	1	Obj4	Obj5	6	"2014-10-20 10:20:15"	1	1
Obj7	0	null	null	0	null	0	0

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs answer sheet id that exist in database	answerSheet_id = 1	Obj6	Obj6	Pass
2	Test inputs answer sheet id that does not exist in database	answerSheet_id = 2	Obj7	Obj7	Pass

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**UTC-53 updateAnswerSheetScore(answerSheetId : int, score  
Nullable<double>) : bool (Return True)**

**Package:** Repository

**Class:** AnswerSheetRepository

**Unit Test Case-53:** updateAnswerSheetScore(answerSheetId : int, score Nullable<double>)  
: bool

**Description:** The test case is used for testing updateAnswerSheetScore method  
in AnswerSheetRepository. This method is used for updating  
answer sheet score in database.

**Prerequisites or Test Data**

: Appendix A

**Test Data**

No.	answerSheet_id	answerSheet_score
TD1	1	3

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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**UTC-54 insertAnswer(questionId : List<int>, answerSheetId : int, answer : List<string>, answerPoint : List<Nullable<double>>) : bool**  
**(Return True)**

**Package:** Repository

**Class:** AnswerRepository

**Unit Test Case-54:** insertAnswer(questionId : List<int>, answerSheetId : int, answer : List<string>, answerPoint : List<Nullable<double>>) : bool

**Description:** The test case is used for testing insertAnswer method in AnswerRepository. This method is used for inserting answers in database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	question_id
TD1	1
TD2	0

No.	answerSheet_id
TD3	1
TD4	0

No.	answer
TD5	“3”
TD6	null

No.	answer_point
TD7	3

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## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	[TD1],TD3,[TD5],[TD7]	True	True	Pass
2	Test inputs question id is zero.	[TD2],TD3,[TD5],[TD7]	False	False	Pass
3	Test inputs answer sheet id is zero.	[TD1],TD4,[TD5],[TD7]	False	False	Pass
4	Test inputs answer is null.	[TD1],TD3,[TD6],[TD7]	False	False	Pass
5	Test inputs question id, answer sheet id is zero and answer is null.	[TD2],TD4,[TD6],[TD7]	False	False	Pass

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## UTC-55 viewAnswerListByAnswerSheetId (answerSheetId : int) : List<Answer>

**Package:** Repository

**Class:** AnswerRepository

**Unit Test Case-55:** viewAnswerListByAnswerSheetId (answerSheetId : int) :  
List<Answer>

**Description:** The test case is used for testing viewAnswerListByAnswerSheetId method in AnswerRepository. This method is used for viewing a list of answer in answer sheet.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]
Obj6	1	null	null	null	0	0	0	0	Null	null

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Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj7	1	Obj6	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj8	2	Obj6	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj9	3	Obj6	"3"	"2+1 = ?"	""	""	3

No.	answersheet_id	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
Obj10	1	Obj4	Obj5	6	"2014-10-20 10:20:15"	1	1

Object No.	answer_id	question_id	answer	answer_point	answersheet_id
Obj11	1	Obj7	"3"	3	Obj10
Obj12	2	Obj8	"1"	3	Obj10
Obj13	3	Obj9	"10"	0	Obj10

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test inputs answer sheet id that have answer exist in database	answerSheet_id = 1	[Obj11,Obj12, Obj13]	[Obj11,Obj12, Obj13]	Pass
2	Test inputs answer sheet id that does not exist in database	answerSheet_id = 2	[ ]	[ ]	Pass

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**UTC-56 updateAnswerScore(answerSheetId : int, answerPoint :  
Nullable<Double>) : bool (Return True)**

**Package:** Repository

**Class:** AnswerRepository

**Unit Test Case-56:** updateAnswerScore(answerSheetId : int, answerPoint :  
Nullable<Double>) : bool

**Description:** The test case is used for testing updateAnswerScore method in  
AnswerRepository. This method is used for updating answers in  
database

**Prerequisites or Test Data**

: Appendix A

**Test Data**

No.	answer_id	Answer_point
TD1	3	3

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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**UTC-57 insertStudent(student\_id: int, student\_username: string, student\_password: string, student\_name: string, student\_faculty: string, student\_department: string, student\_address: string, student\_email: string, student\_tel: string): string**

**Package:** Model

**Class:** Student

**Unit Test Case-57:** insertStudent(student\_id: int, student\_username: string, student\_password: string, student\_name: string, student\_faculty: string, student\_department: string, student\_address: string, student\_email: string, student\_tel: string): string

**Description:** The test case is used for testing insertStudent method in Student. This method is used for inserting a student account to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel
TD1	542115093	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD2	542115091	"studentthree"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"
TD3	542115093	"studentone"	"123456"	"student three"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115093@vr.camt.info"	"0932223333"

## Test Case

Case	Description	Input	Verify data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Add Student : " studentone already."	"Add Student : " studentone already."	Pass
2	Test inputs duplicate student id in database	TD2	No	"Existing Student's id, please using different Student's id"	"Existing Student's id, please using different Student's id"	Pass
3	Test inputs duplicate student username in database	TD3	No	"Existing Student's username, please using different Student's username"	"Existing Student's username, please using different Student's username"	Pass

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**UTC-58** updateStudent(student\_id: int, student\_password: string, student\_name: string, student\_faculty: string, student\_department: string, student\_address: string, student\_email: string, student\_tel: string, confirmPassword: string,): string

**Package:** Model

**Class:** Student

**Unit Test Case-58:** updateStudent(student\_id: int, student\_password: string, student\_name: string, student\_faculty: string, student\_department: string, student\_address: string, student\_email: string, student\_tel: string, confirmPassword: string,): string

**Description:** The test case is used for testing insertStudent method in Student. This method is used for updating a student account in the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No	student_id	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	confirmPassword
TD1	542115091	"123456"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	"123456"
TD2	542115091	"1234567"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	"123456"
TD3	542115091	"1234567"	"student one"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	"1234567"

## Test Case

Case	Description	Input	Verify data	Expect Result	Expect Result	Pass/fail
1	Test inputs all parameters is correct data	TD1	Yes	"Editing Information Successful"	"Editing Information Successful"	Pass
2	Test inputs new student password and confirm password match with student password in database.	TD2	No	"Editing Information Successful"	"Editing Information Successful"	Pass
3	Test inputs new student password and confirm password does not match student password in database.	TD3	No	"Password and Confirm password is not matched"	"Password and Confirm password is not matched"	Pass

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## UTC-59 getStudentInfo(student\_id: int): Student

**Package:** Model

**Class:** Student

**Unit Test Case-59:** getStudentInfo(student\_id: int): Student

**Description:** The test case is used for testing getStudentInfo method in Student.  
This method is used for get a student information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1
Obj2	0	null	"null"	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115091	542115091	Obj1	Obj1	Pass
2	Test inputs student id is 3	3	Obj2	Obj2	Pass

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## UTC-60 approveStudentStatus (stuId: string): string

**Package:** Model

**Class:** Student

**Unit Test Case-60:** approveStudentStatus (stuId: string): string

**Description:** The test case is used for testing approveStudentStatus method in Student. This method is used for approving student\_improvement information into the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115092

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/fail
1	Test inputs student id is 542115091	542115092	542115092	“542115092”	“542115092”	Pass

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## UTC-61 getStudentNotAvailable (): List<Student>

**Package:** Model

**Class:** Student

**Unit Test Case-61:** getStudentNotAvailable (): List<Student>

**Description:** The test case is used for testing getStudentNotAvailable method in Student. This method is used for viewing a list of student information that have approvement\_status equal false from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approvement
Obj1	542115092	"studenttwo"	"123456"	"studenttwo"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115092@vr.camt.info"	"0932221111"	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test method for returning list of student that do not available	-	[Obj1]	[Obj1]	Pass

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## UTC-62 getStudentAvailable (): List<Student>

**Package:** Model

**Class:** Student

**Unit Test Case-62:** getStudentAvailable (): List<Student>

**Description:** The test case is used for testing getStudentAvailable method in Student. This method is used for viewing a list of student information that have approval\_status equal true from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

### Test Case

Case	Description	Input	Expected Result	Expected Result	Pass/Fail
1	Test method for returning list of student that available	-	[Obj1]	[Obj1]	Fail

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## UTC-63 deleteStudent (studentId: int): string

**Package:** Model

**Class:** Student

**Unit Test Case-63:** deleteStudent (studentId: int): string

**Description:** The test case is used for testing deleteStudent method in Student.  
This method is used for deleting student information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115092

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id is 542115092	TD1	"Delete Student successful"	"Delete Student successful"	Pass

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## UTC-64 viewStudentInCourseForUpdate(student\_id: string): List<Student>

**Package:** Model

**Class:** Student

**Unit Test Case-64:** viewStudentInCourseForUpdate(student\_id: string):  
List<Student>

**Description:** The test case is used for testing viewStudentInCourseForUpdate method in Student. This method is used for viewing converse a list of student information in course.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj1	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1
Obj2	0	null	null	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test method for returning converse a list of student in course. Input data is student id that have in course.	"542115092"	[Obj1]	[Obj1]	Pass
2	Test method for returning converse a list of student in course. Input data is student id that have in course.	"542115091,542115092"	[Obj2]	[Obj2]	Pass

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**UTC-65 insertLecturer(lecturer\_id: int, lecturer\_username: string, lecturer\_password: string, lecturer\_name: string, lecturer\_faculty: string, lecturer\_department: string, lecturer\_email: string, lecturer\_tel: string): string**

**Package:** Model

**Class:** Lecturer

**Unit Test Case-65:** insertLecturer(lecturer\_id: int, lecturer\_username: string, lecturer\_password: string, lecturer\_name: string, lecturer\_faculty: string, lecturer\_department: string, lecturer\_email: string, lecturer\_tel: string): string

**Description:** The test case is used for testing insertLecturer method in Lecturer. This method is used for inserting lecturer information to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel
TD1	3	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD2	1	"lecturerthree"	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"
TD3	3	"lecturerone"	"123456"	"lecturer three"	"CAMT"	"SE"	"se03@vr.camt.info"	"0833201787"

## Test Case

Case	Description	Input	Verify data	Expect Result	Actual Result	Pass /Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Registration Successful"	"Registration Successful"	Pass
2	Test inputs duplicate lecturer id in database	TD2	No	"Existing Lecturer's id, please using different Lecturer's id"	"Existing Lecturer's id, please using different Lecturer's id"	Pass
3	Test inputs duplicate lecturer username in database	TD3	No	"Existing Lecturer's username, please using different Lecturer's username"	"Existing Lecturer's username, please using different Lecturer's username"	Pass

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**UTC-66 updateLecturerInfo(lecId : int, lecPassword : string, lecName : string, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string, confirmPass: string) : string**

**Package:** Model

**Class:** Lecturer

**Unit Test Case-66:** updateLecturerInfo(lecId : int, lecPassword : string, lecName : string, lecFaculty : string, lecDepartment : string, lecEmail : string, lecTel : string, confirmPass: string) : string

**Description:** The test case is used for testing updateLecturerInfo method in Lecturer. This method is used for updating lecturer information to the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No	lecturer_id	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	confirmPass
TD1	1	"123456"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	"123456"
TD2	1	"1234567"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	"123456"
TD3	1	"1234567"	null	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	"1234567"

### Test Case

Case	Description	Input	Verify data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Editing Information Successful"	"Editing Information Successful"	Pass
2	Test inputs new lecturer password and confirm password match with student password in database.	TD2	No	"Editing Information Successful"	"Editing Information Successful"	Pass
3	Test inputs new lecturer password and confirm password does not match student password in database.	TD3	No	"Password and Confirm password is not matched"	"Password and Confirm password is not matched"	Pass

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## UTC-67 getLecturerInfo(lecturer\_id: int): Lecuter

**Package:** Model

**Class:** Lecturer

**Unit Test Case-67:** getLecturerInfo(lecturer\_id: int): Lecuter

**Description:** The test case is used for testing method getLecturerInfo in Lecturer. This method is used for view Lecturer information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturer one"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1
Obj2	3	null	null	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id that exist in database	1	Obj1	Obj1	Pass
2	Test input lecturer id that does not exist in database	3	Obj2	Obj2	pass

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## UTC-68 approveLecturerStatus(lecId : int) : string

**Package:** Model

**Class:** Lecturer

**Unit Test Case-68:** approveLecturerStatus(lecId : int) : string

**Description:** The test case is used for testing approveLecturerStatus method in Lecturer. This method is used for approving lecturer\_approval information into the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id
TD1	2

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test input lecturer id is 2	TD1	"2"	"2"	Pass

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## UTC-69 getLecturerNotAvailable() : List<Lecturer>

**Package:** Repository

**Class:** Lecturer

**Unit Test Case-69:** getLecturerNotAvailable() : List<Lecturer>

**Description:** The test case is used for testing getLecturerNotAvailable method in Lecturer. This method is used for viewing a list of lecturer information that have approval\_status equal false from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	2	"lecturertwo"	"123456"	"lecturer two"	"CAMT"	"SE"	"se02@vr.camt.info"	"0832221111"	0

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test method for returning list of lecturer that do not available	-	[Obj1]	[Obj1]	Pass

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## UTC-70 getLecturerAvailable() : List<Lecturer>

**Package:** Model

**Class:** Lecturer

**Unit Test Case-70:** getLecturerAvailable() : List<Lecturer>

**Description:** The test case is used for testing getLecturerAvailable method in Lecturer. This method is used for viewing a list of lecturer information that have approval\_status equal true from the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

### Test Case

Case	Description	Input	Expected Result	Actual Result	Pass/Fail
1	Test method for returning list of lecturer that do not available	1	[Obj1]	[Obj1]	Pass

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## UTC-71 deleteLecturer(lecturerId : int) : string

**Package:** Model

**Class:** Lecturer

**Unit Test Case-71:** deleteLecturer(lecturerId : int) : bool

**Description:** The test case is used for testing deleteLecturer method in Lecturer. This method is used for deleting lecturer information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id
TD1	2

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs lecturer id is 2	TD1	"Delete Lecturer successful"	"Delete Lecturer successful"	Pass

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## UTC-72 insertSemester(academicYear : string) : string

**Package:** Model

**Class:** SemesterRepository

**Unit Test Case-72:** insertSemester(academicYear : string) : string

**Description:** The test case is used for testing method insertSemester in Semester. This method is used for inserting semester information to the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	academic_year
TD1	"2/2557"

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yess	"Add semester successful"	"Add semester successful"	Pass

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## UTC-73 updateSemester(semesterId : int, academicYear : string) : string

**Package:** Model

**Class:** Semester

**Unit Test Case-73:** updateSemester(semesterId : int, academicYear : string) : string

**Description:** The test case is used for testing method updateSemester in Semester. This method is used for updating semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	semester_id	academic_year
TD1	1	"2/2557"

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	"Update semester successful"	"Update semester successful"	Pass

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## UTC-74 deleteSemester(semesterId : int) : string

**Package:** Model

**Class:** Semester

**Unit Test Case-74:** deleteSemester(semesterId : int) : string

**Description:** The test case is used for testing method deleteSemester in Semester. This method is used for deleting semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	semester_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test inputs semester id is one	TD1	"Delete semester successful"	"Delete semester successful"	Pass/Fail

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## UTC-75 getAllSemester() : List<Semester>

**Package:** Model

**Class:** Semester

**Unit Test Case-75:** getAllSemester() : List<Semester>

**Description:** The test case is used for testing method getAllSemester in Semester. This method is used for view a list of Semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No	semester_id	academic_year
Obj1	1	"1/2557"

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test method for returning list of semester	-	[Obj1]	[Obj1]	Pass

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## UTC-76 getSemesterInfo(int semId) : Semester

**Package:** Model

**Class:** Semester

**Unit Test Case-76:** getSemesterInfo(int semId) : Semester

**Description:** The test case is used for testing method getSemesterInfo in Semester. This method is used for view Semester information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No	semester_id	academic_year
Obj1	1	"1/2557"
Obj2	2	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input semester id that exist in database	1	Obj1	Obj1	Obj1
2	Test input semester id that does not exist in database	2	Obj2	Obj2	Obj2

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## UTC-77 getAllCoursebySemester(semId : int): List<Course>

**Package:** Model

**Class:** Course

**Unit Test Case-77:** getAllCoursebySemester (semId : int) : List<Course>

**Description:** The test case is used for testing getAllCoursebySemester method in Course. This method is used for viewing a list of course information from the database by using semester id for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input course id that exist in database	semester_id = 1	[Obj3]	[Obj3]	Pass
2	Test input course id that does not exist in database	semester_id = 2	[Obj4]	[Obj4]	Pass

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**UTC-78 getCourseInfoByLecturerId (lecId : int, semesterId : int):  
List<Course>**

**Package:** Model

**Class:** Course

**Unit Test Case-78:** getCourseInfoByLecturerId (lecId : int, semesterId : int):  
List<Course>

**Description:** The test case is used for testing getCourseInfoByLecturerId method in Course. This method is used for viewing list of course from the database by using lecturer id for searching.

**Prerequisites or Test Data**

: Appendix A

**Test Data**

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id and semester id that have course exist in database	lecturer_id = 1, semester_id = 1	[Obj3]	[Obj3]	Pass
2	Test input lecturer id and semester id that do not have course exist in database	lecturer_id = 1, semester_id = 2	[Obj4]	[Obj4]	Pass

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## UTC-79 getCourseInfoByCourseId(course\_id: int): Course

**Package:** Model

**Class:** Course

**Unit Test Case-79:** getCourseInfoByCourseId(course\_id: int) : Course

**Description:** The test case is used for testing getCourseInfoByCourseId method in Course. This method is used for viewing course information from the database by using course id for searching.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvalment
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input course id that exist in database	course_id = 1	Obj3	Obj3	Pass
2	Test input course id that does not exist in database	course_id = 2	Obj4	Obj4	Pass

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**UTC-80 insertCourse(lecturer\_id: int, semester\_id : int, course\_name : string, course\_credit : int, course\_description : string): string**

**Package:** Model

**Class:** Course

**Unit Test Case-80:** insertCourse(lecturer\_id: int, semester\_id : int, course\_name : string, course\_credit : int, course\_description : string): string

**Description:** The test case is used for testing insertCourse method in Course. This method is used for inserting course information to the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	lecturer_id	semester_id	course_name	course_credit	course_description
TD1	1	1	"C++ langguage"	3	"C++ is good"

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Adding Course Successful"	"Adding Course Successful"	Pass

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**UTC-81** updateCourse(course\_id: int, lecturer\_id: int, semester\_id : int, course\_name : string, course\_credit : int, course\_description : string): string

**Package:** Model

**Class:** Course

**Unit Test Case-81:** updateCourse(course\_id: int, lecturer\_id: int, semester\_id : int, course\_name : string, course\_credit : int, course\_description : string): string

**Description:** The test case is used for testing updateCourse method in Course. This method is used for updating course information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
TD1	1	1	1	"Math"	2	"Math is easy"

### Test Case

Case	Description	Input	Verify data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Editing Course successful"	"Editing Course successful"	Pass

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## UTC-82 deleteCourse(course\_id int): string

**Package:** Model

**Class:** Course

**Unit Test Case-82:** deleteCourse(course\_id int) : string

**Description:** The test case is used for testing deleteCourse method in Course.  
This method is used for delete course information in the database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id is one	TD1	"Delete Course successful"	"Delete Course successful"	Pass

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## UTC-83 getPreviousCourse(int lecturer\_id): Course

**Package:** Model

**Class:** Course

**Unit Test Case-83:** getPreviousCourse(int lecturer\_id) : Course

**Description:** The test case is used for testing getPreviousCourse method in Course. This method is used for viewing latest course information that was created by lecturer.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"
Obj4	0	null	null	null	0	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input lecturer id that have course exist in database	lecturer_id = 1	Obj3	Obj3	Pass
2	Test input course id that have course does not exist in database	lecturer_id = 3	Obj4	Obj4	Pass

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**UTC-84 insertTesting (course\_id: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string, submit\_date: string): string**

**Package:** Model

**Class:** Testing

**Unit Test Case-84:** insertTesting (course\_id: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string, submit\_date: string): string

**Description:** The test case is used for testing insertTesting method in Testing. This method is used for inserting a testing to the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	course_id	testing_name	testing_type	testing_amountQuestion	testing_score	testing_random	testing_posting	testing_submitTime	testing_student
TD1	1	"Quiz Math 1"	"1"	1	3	1	1	""	"542115091"

## Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	Add Testing :Quiz Math 1 already.	Add Testing :Quiz Math 1 already.	Pass

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## UTC-85 viewQuestionbyTestingId(testing\_id : int) : List<Question>

**Package:** Model

**Class:** Testing

**Unit Test Case-85** viewQuestionbyTestingId(testing\_id : int) : List<Question>

**Description:** The test case is used for testing viewQuestionbyTestingId method in Testing. This method is used for viewing a list of question information in a testing.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj6	1	Obj5	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj7	2	Obj5	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj8	3	Obj5	"3"	"2+1 = ?"	""	""	3

### Test Case

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Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input testing id that have questions exist in database	testing_id =1	[Obj6, Obj7, Obj8]	[Obj6, Obj7, Obj8]	Pass
2	Test input testing id that does not exist in database	testing_id =2	[ ]	[ ]	Pass

## UTC-86 viewTestingInfo(testingId: int): Testing

**Package:** Model

**Class:** Testing

**Unit Test Case-86:** viewTestinginfo (testingId: int): Testing

**Description:** The test case is used for testing viewTestinginfo method in Testing. This method is used for viewing testing information by using testing id in searching.

## Prerequisites or Test Data

: Appendix A

## Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approvement
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

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No.	testing_ id	course_ id	testing_ name	testing_ type	testing_amount Question	testing_ score	testing_ random	testing_ posting	testing_submit Time	testing_ student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]
Obj6	0	null	null	null	0	0	0	0	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input testing id that exist in database	testing_id = 1	Obj5	Obj5	Pass
2	Test input testing id that does not exist in database	course_id = 2	Obj6	Obj6	Pass

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## UTC-87 viewAllTestingbyCourseId(course\_id: int): List<Testing>

**Package:** Model

**Class:** Testing

**Unit Test Case-87:** viewAllTestingbyCourseId(course\_id: int): List<Testing>

**Description:** The test case is used for testing viewAllTestingbyCourseId method in Testing. This method is used for viewing a list of testing information in a course.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approvement
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

### Test Case

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Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that have existing of testing in database	course_id = 1	[Obj5]	[Obj5]	[Obj5]
2	Test inputs course id that does not exist in database	course_id = 2	[ ]	[ ]	[ ]

**UTC-88 updateTestinginfo(testingId: int, courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string): string**

**Package:** Model

**Class:** Testing

**Unit Test Case-88:** updateTestinginfo(testingId: int, courseId: int, testing\_name: string, testing\_type: string, testing\_amountQuestion: int, testing\_score: double, testing\_random: int, testing\_posting: int, testing\_student: string) : string

**Description:** The test case is used for testing updateTestinginfo method in Testing. This method is used for updating testing information in the database.

## Prerequisites or Test Data

: Appendix A

## Test Data

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_student
TD1	1	1	" Math 2"	"1"	3	9	1	1	"542115091"

## Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	"Editing Testing Successful"	"Editing Testing Successful"	Pass

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## UTC-89 ViewConverseStudentInTesting(): List<CourseRegistration>

**Package:** Model

**Class:** Testing

**Unit Test Case-89:** ViewConverseStudentInTesting(): List<CourseRegistration>

**Description:** The test case is used for testing ViewConverseStudentInTesting method in Testing. This method is used for viewing a list of student , which are converse of students in testing..

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	testing_ id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	[ ]	[ ]	Pass

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## UTC-90 updateStudentInTesting(testing\_id int, student\_id string): string

**Package:** Model

**Class:** Testing

**Unit Test Case-90:** updateStudentInTesting(testing\_id int, student\_id string): string

**Description:** The test case is used for testing updateStudentInTesting method in Testing. This method is used for updating a student in the testing for accession.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	testing_id	student_id
TD1	1	“542115091,542115092”
TD2	1	null

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	Yes	"Updating Student in the testing is successful"	"Updating Student in the testing is successful"	Pass

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## UTC-91 viewChartInTesting(testing: Testing) : List<List<double>>

**Package:** Model

**Class:** Testing

**Unit Test Case-91:** viewChartInTesting(testing: Testing) : List<List<double>>

**Description:** The test case is used for testing viewChartInTesting method in Testing. This method is used for viewing chart of answer in the testing.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj1	1	null	null	null	0	0	0	0	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	Obj1	[[0.0, 0.0, 100.0, 0.0],[100.0, 0.0],[0]]	[[0.0, 0.0, 100.0, 0.0],[100.0, 0.0],[0]]	Pass

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## UTC-92 viewQuestionForStudent(testing :Testing) : List<Question>

**Package:** Model

**Class:** Testing

**Unit Test Case-92:** viewQuestionForStudent(testing :Testing) : List<Question>

**Description:** The test case is used for testing viewQuestionForStudent method in Testing. This method is used for viewing a list of questions in testing for students.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount	testing_score	testing_random	testing_posting	testing_submit	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj6	1	Obj5	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj7	2	Obj5	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj8	3	Obj5	"3"	"2+1 = ?"	""	""	3

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Case	Description	Input	Expect Result	Expect Result	Pass/Fail
1	Test input testing id that have questions exist in database	testing_id =1	[Obj6, Obj7, Obj8] or [Obj7, Obj6, Obj8] or [Obj8 Obj7, Obj6] or [Obj8, Obj6 Obj7] or [Obj7, Obj8, Obj6]	[Obj6, Obj7, Obj8] or [Obj7, Obj6, Obj8] or [Obj8 Obj7, Obj6] or [Obj8, Obj6 Obj7] or [Obj7, Obj8, Obj6]	Pass
2	Test input testing id that does not exist in database	testing_id =2	[ ]	[ ]	Pass

### Test Case

### UTC-93 viewAllTestingbyStudentId(student\_id: int, course\_id: int): List<Testing>

**Package:** Model

**Class:** Testing

**Unit Test Case-93:** viewAllTestingbyStudentId (student\_id: int, course\_id: int):  
List<Testing>

**Description:** The test case is used for testing viewAllTestingbyStudentId method in Testing. This method is used for viewing a list of testing information in a student id.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

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Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs student id and course id that have existing of testing in database	student_id = 542115091, course_id = 1	[Obj5]	[Obj5]	Pass
2	Test inputs student id or course id that does not exist in database	student_id = 542115093, course_id =	[ ]	[ ]	Pass

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**UTC-94 insertQuestion(course\_id : int, listQuestion : List<Question>) : string**

**Package:** Model

**Class:** Question

**Unit Test Case-94:** insertQuestion(testing\_id : int, listQuestion : List<Question>) : string

**Description:** The test case is used for testing insertQuestion method in Question. This method is used for inserting a question

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	course_id
TD1	1

Object No.	question_type	question_description	question_choice	question_solution	question_point
Obj1	"3"	"Question 4"	""	""	3

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1, [Obj1]	Yes	"Creating Testing Successful"	"Creating Testing Successful"	Pass

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**UTC-95 updateQuestioninfo(testing\_id : int, listQuestion : List<Question>) : string**

**Package:** Model

**Class:** Question

**Unit Test Case-95:** updateQuestioninfo(testing\_id : int, listQuestion : List<Question>) : string

**Description:** The test case is used for testing updateQuestioninfo method in Question. This method is used for updating question information in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	testing_id
TD1	1

Object No.	question_id	question_type	question_description	question_choice	question_solution	question_point
Obj1	1	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	2

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1, [Obj1]	Yes	"Editing Testing Successful"	"Editing Testing Successful"	Pass

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## UTC-96 viewQuestionInfo(int questionId) : Question

**Package:** Model

**Class:** Question

**Unit Test Case-96:** viewQuestionInfo(int questionId) : Question

**Description:** The test case is used for testing updateQuestioninfo method in Question. This method is used for viewing question information in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj1	1	null	null	null	0	0	0	0	null	null

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj2	1	Obj1	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj3	0	null	null	null	null	null	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test input question id that exist in database	question_id =1	Obj2	Obj2	Pass
2	Test input question id that does not exist in database	question_id=4	Obj3	Obj3	Pass

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## UTC-97 viewListAnswerSheetBytestingId (testing\_id: int) : List<AnswerSheet>

**Package:** Model

**Class:** AnswerSheet

**Unit Test Case-97:** viewListAnswerSheetBytestingId (testing\_id : int) :  
List<AnswerSheet>

**Description:** The test case is used for testing viewListAnswerSheetBytestingId method in AnswerSheet. This method is used for viewing a list of answer sheet in testing.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]

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## UTC-98 viewAnswerByAnswerSheetId (answerSheet\_id : int) : List<Answer>

**Package:** Model

**Class:** AnswerSheet

**Unit Test Case-98:** viewAnswerByAnswerSheetId (answerSheet\_id : int) : List<Answer>

**Description:** The test case is used for testing viewAnswerByAnswerSheetId method in AnswerSheet. This method is used for viewing a list of answer in answer sheet.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]
Obj6	1	null	null	null	0	0	0	0	Null	null

Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
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Obj7	1	Obj6	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj8	2	Obj6	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj9	3	Obj6	"3"	"2+1 = ?"	""	""	3

No.	answersheet_id	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
Obj10	1	Obj4	Obj5	6	"2014-10-20 10:20:15"	1	1

Object No.	answer_id	question_id	answer	answer_point	answersheet_id
Obj11	1	Obj7	"3"	3	Obj10
Obj12	2	Obj8	"1"	3	Obj10
Obj13	3	Obj9	"10"	0	Obj10

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs answer sheet id that have answer exist in database	answerSheet_id = 1	[Obj11,Obj12, Obj13]	[Obj11,Obj12, Obj13]	Pass
2	Test inputs answer sheet id that does not exist in database	answerSheet_id = 2	[ ]	[ ]	Pass

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## UTC-99 updateAnswerSheetScore(answerSheet\_id : int, List<Answer> answerList) : string

**Package:** Model

**Class:** AnswerSheet

**Unit Test Case-53:** updateAnswerSheetScore(answerSheet\_id : int, List<Answer> answerList) : string

**Description:** The test case is used for testing updateAnswerSheetScore method in AnswerSheet. This method is used for updating answer sheet score in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	student_id	student_username	student_password	student_name	student_faculty	student_department	student_address	student_email	student_tel	student_approval
Obj4	542115091	"studentone"	"123456"	"studentone"	"CAMT"	"SE"	"Chiang mai, Thailand"	"se542115091@vr.camt.info"	"0931112222"	1

No.	testing_id	course_id	testing_name	testing_type	testing_amount Question	testing_score	testing_random	testing_posting	testing_submit Time	testing_student
Obj5	1	Obj3	"Intro to Math"	"1"	3	9	1	1	"2014-11-10 10:30:00"	[Obj4]
Obj6	1	null	null	null	0	0	0	0	Null	null

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Object No.	question_id	testing_id	question_type	question_description	question_choice	question_solution	question_point
Obj7	1	Obj6	"1"	"1+1 = ?"	"3#\$4#\$2#\$1"	"3"	3
Obj8	2	Obj6	"2"	"1-1 = 0"	"True#\$False"	"1"	3
Obj9	3	Obj6	"3"	"2+1 = ?"	""	""	3

No.	answersheet_id	student_id	testing_id	answerSheet_score	answerSheet_time	answerSheet_submitResult	answerSheet_isChecked
Obj10	1	Obj4	Obj5	6	"2014-10-20 10:20:15"	1	1

Object No.	answer_id	question_id	answer	answer_point	answersheet_id
Obj11	1	Obj7	"3"	3	Obj10
Obj12	2	Obj8	"1"	3	Obj10
Obj13	3	Obj9	"10"	0	Obj10

### Test Case

Case	Description	Input	Verify Data	Expect Result	Actual Result	Pass/Fail
1	Test inputs answer sheet id that have answer exist in database	answerSheet_id = 1, answerList = Obj11,Obj12,Obj13]	Yes	"Marking point is successful"	"Marking point is successful"	Pass

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## UTC-100 insertAnswerSheet(studentId : int, testingId : int, questionIdList: List<int>, answerList: List<string>) : string

**Package:** Model

**Class:** AnswerSheet

**Unit Test Case-100:** insertAnswerSheet(studentId : int, testingId : int, questionIdList: List<int>, answerList: List<string>) : string

**Description:** The test case is used for testing insertAnswerSheet method in AnswerSheet. This method is used for inserting answer sheet information in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	student_id
TD1	542115091

No.	testing_id
TD2	1

No.	question_id
TD3	1
TD4	2
TD5	3

No.	answer
TD6	"3"
TD7	"1"
TD8	"10"

### Test Case

Case	Description	Input	Verify data	Expect Result	Actual Result	Pass /Fail
1	Test inputs all parameters is correct data	TD1,TD2,[TD3, TD4, TD5], [TD6, TD7, TD8]	Yes	"Take this testing already"	"Take this testing already"	Pass

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**UTC-101 updateAnswerScore(answerId : int, answerPoint :  
Nullable<Double>) : bool (Return True)**

**Package:** Model

**Class:** Answer

**Unit Test Case-101:** updateAnswerScore(answerId : int, answerPoint : Nullable<Double>)  
: bool

**Description:** The test case is used for testing updateAnswerScore method in  
Answer. This method is used for updating answers in database

**Prerequisites or Test Data**

: Appendix A

**Test Data**

No.	answer_id	Answer_point
TD1	3	3

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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**UTC-102 updateAnswerScore(answerId : int, answerPoint :  
Nullable<Double>) : bool (Return True)**

**Package:** Model

**Class:** Answer

**Unit Test Case-101:** updateAnswerScore(answerId : int, answerPoint : Nullable<Double>)  
: bool

**Description:** The test case is used for testing updateAnswerScore method in  
Answer. This method is used for updating answers in database

**Prerequisites or Test Data**

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**Test Data**

No.	answer_id	Answer_point
TD1	3	3

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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**UTC-103 insertAnswer(questionId : List<int>, answerSheetId : int, answer : List<string>, answerPoint : List<Nullable<double>>) : bool**

**Package:** Model

**Class:** Answer

**Unit Test Case-103:** insertAnswer(questionId : List<int>, answerSheetId : int, answer : List<string>, answerPoint : List<Nullable<double>>) : bool

**Description:** The test case is used for testing insertAnswer method in Answer. This method is used for inserting answers in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	question_id
TD1	1

No.	answerSheet_id
TD2	1

No.	answer
TD3	“3”

No.	answer_point
TD4	3

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	[TD1],TD2,[TD3],[TD4]	True	True	Pass

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## UTC-104 insertPosts (courseId: int, posterId: int, postsName: string, postsDescription: string, postsClient: postsClient): bool

**Package:** Repository

**Class:** PostsRepository

**Unit Test Case-104:** insertPost (courseId: int, posterId: int, postsName: string, postsDescription: string, postsClient: postsClient): bool

**Description:** The test case is used for testing insertPost method in PostsRepository. This method is used for inserting posts in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	courseId	posterId	postsName	postsDescription	postsClient
TD1	1	1	"post 2"	"post 2"	"2"
TD2	0	1	"post 2"	"post 2"	"2"
TD3	1	1	null	"post 2"	"2"
TD4	1	1	"post 2"	null	"2"
TD5	1	1	"post 2"	"post 2"	null
TD6	0	1	null	null	null

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass
2	Test inputs course id is zero	TD2	False	False	Pass
3	Test inputs posts name is null	TD3	False	False	Pass
4	Test inputs posts dscription is null	TD4	False	False	Pass
5	Test inputs posts client null	TD5	False	False	Pass
6	Test inputs posts name, posts dscription and post client is null, course id is zero	TD6	False		

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## UTC-105 updatePostsRecom (postsId: int, postsRecommend: int): bool

**Package:** Repository

**Class:** PostsRepository

**Unit Test Case-105:** updatePostRecom (postsId: int, postsRecommend: int): bool

**Description:** The test case is used for testing updatePostRecom method in PostsRepository. This method is used for updating posts for recommending in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId	postsRecommen d
TD1	1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

## UTC-106 deletePosts (postsId: int): bool

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**Package:** Repository

**Class:** PostsRepository

**Unit Test Case-106:** deletePosts (postsId: int): bool

**Description:** The test case is used for testing deletePosts method in PostsRepository. This method is used for deleting posts in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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## UTC-107 viewPostFromCourseId (courseId: int): List<Posts>

**Package:** Repository

**Class:** PostsRepository

**Unit Test Case-107:** viewPostFromCourseId (courseId: int): List<Posts>

**Description:** The test case is used for testing viewPostFromCourseId method in PostsRepository. This method is used for viewing a list of posts in course.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approval
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	post_id	course_id	poster_id	posts_name	posts_description	posts_client	posts_recommend
Obj4	1	Obj3	1	"post 1"	"post 1"	3	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that has posts in course	course_id =1	[Obj4]	[Obj4]	Pass
2	Test inputs course id that does not exist in database	course_id =2	[ ]	[ ]	Pass

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**UTC-108 insertPosts (courseId: int, postId: int, postsName: string, postsDescription: string, postsClient: postsClient): bool**

**Package:** Model

**Class:** Posts

**Unit Test Case-108:** insertPost (courseId: int, postId: int, postsName: string, postsDescription: string, postsClient: postsClient): bool

**Description:** The test case is used for testing insertPost method in Posts. This method is used for inserting posts in database.

**Prerequisites or Test Data**

: Appendix A

**Test Data**

No.	courseId	postId	postsName	postsDescription	postsClient
TD1	1	1	"post 2"	"post 2"	"2"

**Test Case**

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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## UTC-109 updatePostsRecom (postsId: int, postsRecommend: int): bool

**Package:** Model

**Class:** Posts

**Unit Test Case-109:** updatePostRecom (postsId: int, postsRecommend: int): bool

**Description:** The test case is used for testing updatePostRecom method in Posts. This method is used for updating posts for recommending in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId	postsRecommen d
TD1	1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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## UTC-110 deletePosts (postsId: int): string

**Package:** Model

**Class:** PostsRepository

**Unit Test Case-110:** deletePosts (postsId: int): string

**Description:** The test case is used for testing deletePosts method in Posts. This method is used for deleting posts in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	"Delete a posts complete"	"Delete a posts complete"	Pass

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## UTC-111 viewPostFromCourseId (courseId: int): List<Posts>

**Package:** Model

**Class:** Posts

**Unit Test Case-111:** viewPostFromCourseId (courseId: int): List<Posts>

**Description:** The test case is used for testing viewPostFromCourseId method in Posts. This method is used for viewing a list of posts in course.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvalment
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	post_id	course_id	poster_id	posts_name	posts_description	posts_client	posts_recommend
Obj4	1	Obj3	1	"post 1"	"post 1"	3	0

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that has posts in course	course_id =1	[Obj4]	[Obj4]	Pass
2	Test inputs course id that does not exist in database	course_id =2	[ ]	[ ]	Pass

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## UTC-112 insertPosts (postInfo: Stream): bool

**Class:** PostsManage

**Unit Test Case-112:** insertPosts (postInfo: Stream): bool

**Description:** The test case is used for testing insertPost method in PostsManage. This method is used for inserting posts in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

No.	courseId	posterId	postsName	postsDescription	postsClient
TD1	1	1	"post 2"	"post 2"	"2"

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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## UTC-113 updatePostsRecom (postInfo: Stream): bool

**Class:** PostsManage

**Unit Test Case-113:** updatePostsRecom (postInfo: Stream): bool

**Description:** The test case is used for testing updatePostsRecom method in PostsManage. This method is used for updating posts recommend status in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId	postsRecommen d
TD1	1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	True	True	Pass

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## UTC-114 deletePosts (postInfo: Stream): string

**Class:** PostsManage

**Unit Test Case-114:** deletePosts (postsInfo: int): string

**Description:** The test case is used for testing deletePosts method in PostsManage. This method is used for deleting posts in database.

### Prerequisites or Test Data

: Appendix A

### Test Data

Noo.	postId
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	TD1	"Delete a posts complete"	"Delete a posts complete"	Pass

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## UTC-115 viewPostFromCourseId (postInfo: Stream): List<Posts>

**Class:** PostsManage

**Unit Test Case-115:** viewPostFromCourseId (postInfo: Stream): List<Posts>

**Description:** The test case is used for testing viewPostFromCourseId method in PostsManage. This method is used for viewing a list of posts in course.

### Prerequisites or Test Data

: Appendix A

### Test Data

Object No.	lecturer_id	lecturer_username	lecturer_password	lecturer_name	lecturer_faculty	lecturer_department	lecturer_email	lecturer_tel	lecturer_approvement
Obj1	1	"lecturerone"	"123456"	"lecturerone"	"CAMT"	"SE"	"se01@vr.camt.info"	"0831112222"	1

Object No	semester_id	academic_year
Obj2	1	"1/2557"

Object No.	course_id	lecturer_id	semester_id	course_name	course_credit	course_description
Obj3	1	Obj1	Obj2	"Math"	3	"Math is easy"

Object No.	post_id	course_id	poster_id	posts_name	posts_description	posts_client	posts_recommend
Obj4	1	Obj3	1	"post 1"	"post 1"	3	0

No.	couse_id
TD1	1

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs course id that has posts in course	TD1	[Obj4]	[Obj4]	Pass

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## **UTC-116 Ajax({url : “http://localhost:1580/Login\_Logout.svc/login/”})**

**Package**                None

**Class:**                Login\_Logout

**Method:**              Post

**Unit Test Case-116:** Ajax({url : “http://localhost:1580/Login\_Logout.svc/login/”})

**Description:**        The test case is used for testing login to the system.

### **Prerequisites or Test Data**

: Appendix A

### **Test Data**

- Json input
  - JI1: { username: “admin”, password: “123456” }
  - JI2: { username: “”, password: “123456” }
  - JI3: { username: “admin”, password: “” }
  - JI4: { username: “”, password: “” }
  
- Json output
  - JO1: {“1\_admin”}
  - JO2: {“ Invalid Username and/or Password”}



### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	JI1	JO1	JO1	Pass
2	Test inputs user username is empty	JI2	JO2	JO2	Pass
3	Test inputs user password is empty	JI3	JO2	JO2	Pass
4	Test inputs user username and password is empty	JI4	JO2	JO2	Pass

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## UTC-117 Ajax({url : “http://localhost:1580/ManageAccount.svc/viewLecturerNotAvailable/”}))

**Class:** ManageAccount

**Method:** Get

**Unit Test Case-117:** Ajax({url : “http://localhost:1580/ManageAccount.svc/viewLecturerNotAvailable/”}))

**Description:** The test case is used for testing about viewing inactive lecturers in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output

JO1: [{ lecturer\_id: 2, lecturer\_username: “lecturer two”, lecturer\_password: “123456”, lecturer\_name: “lecturer two”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se02@vr.camt.info”, lecturer\_tel: ”0832221111”, lecturer\_improvement: 0 }]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing inactive lecturers in the system.	-	JO1	JO1	Pass

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## UTC-118 Ajax({url : “http://localhost:1580/ManageAccount.svc/ viewStudentNotAvailable/”}))

**Class:** ManageAccount

**Method:** Get

**Unit Test Case-118:** Ajax({url : “http://localhost:1580/ManageAccount.svc/ viewStudentNotAvailable/”}))

**Description:** The test case is used for testing about viewing inactive students in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output  
JO1: [{ student\_id: 542115092, student\_username: “studenttwo”, student\_password: “123456”, student\_name: “student two”, student\_faculty: “CAMT” , student\_department: “SE”, student\_address: “Chiang mai, Thailand”, student\_email: “se542115092@vr.camt.info”, student\_tel: ” 0932221111”, student\_improvement: 0 }]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing inactive students in the system.	-	JO1	JO1	Pass

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## UTC-119 Ajax({url : “http://localhost:1580/ManageAccount.svc/approveUser/”})

**Package** Admin

**Class:** ManageAccount

**Method:** Post

**Unit Test Case-118:** Ajax({url : “http://localhost:1580/ManageAccount.svc/approveUser/”})

**Description:** The test case is used for testing about approving the user account.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json input  
JI1: { lecturer\_id: 1 }  
JT2: { lecturer\_id: 542115091 }
  
- Json output  
JO1: { “Approve User id: 1 successful” }  
JO2: { “Approve User id: 542115091 successful” }

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### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about approval a lecturer account.	JT1	JO1	JO1	Pass
2	Testing about approval a student account.	JT2	JO2	JO2	Pass

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## UTC-120 Ajax({url : “http://localhost:1580/ManageAccount.svc/viewLecturerAvailable/”})

**Package** Admin

**Class:** ManageAccount

**Method:** Get

**Unit Test Case-120:** Ajax({url : “http://localhost:1580/ManageAccount.svc/viewLecturerAvailable/”})

**Description:** The test case is used for testing about viewing active lecturers in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output  
JO1: [{ lecturer\_id: 1, lecturer\_username: “lecturerone”, lecturer\_password: “123456”, lecturer\_name: “lecturer one”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se01@vr.camt.info”, lecturer\_tel: ”0831112222”, lecturer\_approvement: 1 }]

### Test Case

Case	Description	Input	Expect	Actual	Pass/Fail
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			<b>Result</b>	<b>Result</b>	
1	Testing about viewing active lecturers in the system.	-	JO1	JO1	Pass

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## UTC-121 Ajax({url : “http://localhost:1580/ManageAccount.svc/ viewStudentAvailable/”}))

**Package** Admin

**Class:** ManageAccount

**Method:** Get

**Unit Test Case-121:** Ajax({url : “http://localhost:1580/ManageAccount.svc/ viewStudentAvailable/”}))

**Description:** The test case is used for testing about viewing active students in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output  
JO1: [{ student\_id: 542115091, student\_username: “studentone”, student\_password: “123456”, student\_name: “student one”, student\_faculty: “CAMT”, student\_department: “SE”, student\_address: “Chiang mai, Thailand”, student\_email: “se542115091@vr.camt.info”, student\_tel: ” 0931112222”, student\_improvement: 1 }]

### Test Case

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Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing active students in the system.	-	JO1	JO1	Pass

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## UTC-122 Ajax({url : “http://localhost:1580/SemesterManage.svc/viewAllSemester/”})

**Package** Admin

**Class:** SemesterManage

**Method:** Get

**Unit Test Case-122:** Ajax({url : “http://localhost:1580/SemesterManage.svc/viewAllSemester/”})

**Description:** The test case is used for testing about viewing all semester in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output  
JO1: [{semester\_id: 1, academic\_year: “1/2557”}]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing all semester in the system.	-	JO1	JO1	Pass

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**UTC-123 Ajax({url : “http://localhost:1580/SemesterManage.svc/viewAllCourseBySemester/”})**

**Package** Admin

**Class:** SemesterManage

**Method:** Post

**Unit Test Case-123:** Ajax({url : “http://localhost:1580/SemesterManage.svc/ viewAllCourseBySemester/”})

**Description:** The test case is used for testing about viewing a list of courses in semester.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json Input  
JI1: [{semester\_id: 1}]  
JI2: [{semester\_id: 0}]

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- Json output

JO1: [{course\_id: 1, lecturer\_id: {lecturer\_id:1, lecturer\_username: “lecturerone”, lecturer\_password: “123456”, lecturer\_name: “lecturer one”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se01@vr.camt.info”, lecturer\_tel: “0831112222”, lecturer\_appovement: 1}, semester\_id: {semester\_id: 1, academic\_year: “1/2557”}, course\_name: “Math”, course\_credit: 3, course\_description: “Math is easy”}]

JO2: [{course\_id: 0, lecturer\_id: { }, semester\_id: { }, course\_name: “”, course\_credit: 0, course\_description: “”}]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing all semester in the system.	JI1	JO1	JO1	Pass
2	Testing about all course in semester which is not existing in the system.	JI2	JO2	JO2	Pass

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## UTC-124 Ajax({url : “http://localhost:1580/CourseManage.svc/insertCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-124:** Ajax({url : “http://localhost:1580/ CourseManage.svc/insertCourse /”})

**Description:** The test case is used for testing about viewing insert a course to the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

#### - Json Input

JI1: { lecturer\_id: 1, semester\_id: 1, course\_name: “C++ language”, course\_credit: 3, course\_description: “C++ is good” }

JI2: { lecturer\_id: 0, semester\_id: 1, course\_name: “C++ language”, course\_credit: 3, course\_description: “C++ is good” }

JI3: { lecturer\_id: 1, semester\_id: 0, course\_name: “C++ language”, course\_credit: 3, course\_description: “C++ is good” }

JI4: { lecturer\_id: 1, semester\_id: 1, course\_name: “”, course\_credit: 3, course\_description: “C++ is good” }

JI5: { lecturer\_id: 1, semester\_id: 1, course\_name: “C++ language”, course\_credit: 3, course\_description: “” }

JI6: { lecturer\_id: 0, semester\_id: 0 course\_name: “”, course\_credit: 3, course\_description: “” }

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- Json output  
JO1: {"Adding Course Successful"}
- JO2: {"Can not add course"}

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	JI1	JO1	JO1	Pass
2	Test inputs lecturer id is 0	JI2	JO2	JO2	Pass
3	Test inputs semester id is 0	JI3	JO2	JO2	Pass
4	Test inputs course name is empty	JI4	JO2	JO2	Pass
5	Test inputs course description is empty	JI5	JO2	JO2	Pass
6	Test inputs lecturer id and semester id are 0, course name and course description are empty	JI6	JO2	JO2	Pass

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## UTC-125 Ajax({url : “http://localhost:1580/CourseManage.svc/viewPreviousCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-125:** Ajax({url : “http://localhost:1580/ CourseManage.svc/ viewPreviousCourse /”})

**Description:** The test case is used for testing about viewing latest course information that was created by lecturer.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json output

JO1: {course\_id: 1, lecturer\_id: {lecturer\_id:1, lecturer\_username: “lecturerone”, lecturer\_password: “123456”, lecturer\_name: “lecturer one”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se01@vr.camt.info”, lecturer\_tel: “0831112222”, lecturer\_improvement: 1}, semester\_id: {semester\_id: 1, academic\_year: “1/2557”}, course\_name: “Math”, course\_credit: 3, course\_description: “Math is easy”}

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### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Testing about viewing latest course information that was created by lecturer	-	JO1	JO1	Pass

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## UTC-126 Ajax({url : “http://localhost:1580/CourseManage.svc/ insertStudentsInCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-125:** Ajax({url : “http://localhost:1580/ CourseManage.svc/insertStudentsInCourse/”})

**Description:** The test case is used for testing about inserting students in a course.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json Input  
JI1: {course\_id: 1, student\_id: “542115091”}
- Json output  
JO1: {“ Add student in Course is successful”}

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### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	-	JI1	JO1	Pass

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## UTC-126 Ajax({url : “http://localhost:1580/CourseManage.svc/viewCourseByCourseId/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-126:** Ajax({url : “http://localhost:1580/ CourseManage.svc/ viewCourseByCourseId/”})

**Description:** The test case is used for testing about viewing course information by course id

### Prerequisites or Test Data

: Appendix A

### Test Data

#### - Json Input

JI1: { course\_id: 1 }

JI2: { course\_id: 0 }

#### - Json output

JO1: {course\_id: 1, lecturer\_id: {lecturer\_id:1, lecturer\_username: “lecturerone”, lecturer\_password: “123456”, lecturer\_name: “lecturer one”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se01@vr.camt.info”, lecturer\_tel: “0831112222”, lecturer\_appovement: 1}, semester\_id: {semester\_id: 1, academic\_year: “1/2557”}, course\_name: “Math”, course\_credit: 3, course\_description: “Math is easy”}

JO2: {course\_id: 0, lecturer\_id: { }, semester\_id: { }, course\_name: “”, course\_credit: 0, course\_description: “”}

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### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	-	JI1	JO1	Pass
2	Test input course id which is not existing in database.	-	JI2	JO2	Pass

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## UTC-127 Ajax({url : “http://localhost:1580/CourseManage.svc/viewStudentInCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-127:** Ajax({url : “http://localhost:1580/ CourseManage.svc/viewStudentInCourse/”})

**Description:** The test case is used for testing about viewing students in a course.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json Input

JI1: { course\_id: 1 }

JI2: { course\_id: 0 }

- Json output

JO1: [{courseRegistration\_id: 1,

course\_id : {course\_id: 1, lecturer\_id: {lecturer\_id:1, lecturer\_username: “lecturerone”, lecturer\_password: “123456”,  
lecturer\_name: “lecturer one”, lecturer\_faculty: “CAMT”, lecturer\_department: “SE”, lecturer\_email: “se01@vr.camt.info”,  
lecturer\_tel: “0831112222”, lecturer\_appovement: 1}, semester\_id: {semester\_id: 1, academic\_year: “1/2557”}, course\_name:  
“Math”, course\_credit: 3, course\_description: “Math is easy”},

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```

student_id: { student_id: 542115091, student_username: "studentone", student_password: "123456", student_name: "student
one", student_faculty: "CAMT", student_department: "SE", student_address: "Chiang mai, Thailand", student_email:
"se542115091@vr.camt.info", student_tel: "0931112222", student_approvement: 1 }

}]

```

JO2: [ ]

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	-	JI1	JO1	Pass
2	Test input course id which is not existing in database.	-	JI2	JO2	Pass

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## UTC-128 Ajax({url : “http://localhost:1580/CourseManage.svc/deleteCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-128:** Ajax({url : “http://localhost:1580/ CourseManage.svc/ deleteCourse /”})

**Description:** The test case is used for testing about deleting a course.

### Prerequisites or Test Data

: Appendix A

### Test Data

- Json Input

JI1: { course\_id: 1 }

JI2: { course\_id: 0 }

- Json output

JO1: { “ Delete Course successful” }

JO2: { “ Cannot delete a course” }

### Test Case

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Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	-	JI1	JO1	Pass
2	Test input course id which is not existing in database.	-	JI2	JO2	Pass

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## UTC-129 Ajax({url : “http://localhost:1580/CourseManage.svc/updateCourse/”})

**Package** Admin

**Class:** CourseManage

**Method:** Post

**Unit Test Case-129:** Ajax({url : “http://localhost:1580/ CourseManage.svc/ updateCourse/”})

**Description:** The test case is used for testing about updating course information in the system.

### Prerequisites or Test Data

: Appendix A

### Test Data

#### - Json Input

JI1: { course\_id: 1, lecturer\_id: 1, semester\_id: 1, course\_name: “Math”, course\_credit: 2, course\_description: “Math is easy”}

JI2: { course\_id: 0, lecturer\_id: 1, semester\_id: 1, course\_name: “Math”, course\_credit: 2, course\_description: “Math is easy”}

JI3: { course\_id: 1, lecturer\_id: 0, semester\_id: 1, course\_name: “Math”, course\_credit: 2, course\_description: “Math is easy”}

JI4: { course\_id: 1, lecturer\_id: 1, semester\_id: 0, course\_name: “Math”, course\_credit: 2, course\_description: “Math is easy”}

JI5: { course\_id: 1, lecturer\_id: 1, semester\_id: 1, course\_name: “”, course\_credit: 2, course\_description: “Math is easy”}

JI6: { course\_id: 1, lecturer\_id: 1, semester\_id: 1, course\_name: “Math”, course\_credit: 2, course\_description: “”}

JI7: { course\_id: 0, lecturer\_id: 0, semester\_id: 0, course\_name: “”, course\_credit: 2, course\_description: “”}

#### - Json output

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JO1: {"Delete Course successful"}

JO2: {"Cannot delete a course"}

### Test Case

Case	Description	Input	Expect Result	Actual Result	Pass/Fail
1	Test inputs all parameters is correct data	JI1	JO1	JO1	Pass
2	Test input course_id is 0	JI2	JO2	JO2	Pass
3	Test inputs lecturer id is 0	JI3	JO	JO2	Pass
4	Test inputs semester id is 0	JI4	JO2	JO2	Pass
5	Test inputs course name is empty	JI5	JO2	JO2	Pass
6	Test inputs course description is empty	JI6	JO2	JO2	Pass
7	Test inputs course_id, lecturer id and semester id are 0, course name and course description are empty	JI7	JO2	JO2	Pass

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# Test case of System test (STC)

## STC-1: Lecturer registers to the system (URS-03)

### Description:

The test is a testing system for URS-03. Lecturer can register to the system by information of lecturer. The test case will check the alphabet, number, and sign in each field.

### Prerequisites or Test Input:

The test data is the Lecturer information. The valid input is the input that's correct data for register Lecturer.

For Example

Lec ID = 123456

Lec Username = chaichan

Lec password = 1234

Lec name = chaichan

Lec Faculty = camt

Lec Department = se

Lec Email = [Cs@gmail.com](mailto:Cs@gmail.com)

Lec tel = 0882686285

### Test Script

1. Lecturer clicks “register lecturer” button
2. Lecturer types the information for register
3. Lecturer clicks “Regist” button

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Test ID	description	Input								Expect Output	Actual Output	Pass/Fail
		Lec ID	Lec username	Lec password	Lec Name	Lec Faculty	Lec Department	Lec Email	Lectel			
1	Valid input	123456	chaichan	1234	chaichan	camt	se	Cs@gmail.com	0822686387	"Registration Successful"	"Registration Successful"	Pass
2	Invalid input	Abcd	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
3	Invalid input	123456	Cs	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's username must be only 4-16 alphabet characters"	The system shall display "The Lecturer's username must be only 4-16 alphabet characters"	Pass
4	Invalid input	123456	Chaichan	123	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's password must be only 4-16 characters"	The system shall display "The Lecturer's password must be only 4-16 characters"	Pass
5	Invalid input	123456	Chaichan	1234	palm@c	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's name must be the combination of alphabet and space only"	The system shall display "The Lecturer's name must be the combination of alphabet and space only"	Pass
6	Invalid input	123456	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	TH0822686387	The system shall display "The Lecturer's tel must be number only"	The system shall display "The Lecturer's tel must be number only"	Pass
7	Invalid input	123456	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's email must be the character and only one @ symbol"	The system shall display "The Lecturer's email must be the character and only one @ symbol"	Pass
8	Existing input	123456	chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system "Existing Lecturer's username, please using different Lecturer's username"	The system "Existing Lecturer's username, please using different Lecturer's username"	Pass
9	Null input	Null	chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer ID must be the"	The system shall display "The Lecturer ID must be the number"	Pass

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								<a href="#">com</a>		number only”	only”	
10	Null input	123456	Null	1234	Chaichan	Camt	Se	<a href="#">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s username must be only 4-16 alphabet characters”	The system shall display “The Lecturer’s username must be only 4-16 alphabet characters”	Pass
11	Null input	123456	Chaichan	Null	Chaichan	Camt	Se	<a href="#">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s password must be only 4-16 characters	The system shall display “The Lecturer’s password must be only 4-16 characters	Pass
12	Null input	123456	Chaichan	1234	Null	Camt	Se	<a href="#">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s name must be the combination of alphabet	The system shall display “The Lecturer’s name must be the combination of alphabet	Pass
15	Null input	123456	Chaichan	1234	Chaichan	Camt	Se	Null	0822686387	The system shall display “The Lecturer’s email must be the character and only one @ symbol	The system shall display “The Lecturer’s email must be the character and only one @ symbol	Pass
16	Null input	123456	chaichan	1234	chaichan	camt	se	Cs@gmail.com	Null	The system shall display “The Lecturer’s tel must be number only”	The system shall display “The Lecturer’s tel must be number only”	Pass
17	Null input	Null	chaichan	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
18	Null input	Null	Null	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
19	Null input	Null	Null	Null	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
20	Null input	Null	Null	Null	Null	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
21	Null input	Null	Null	Null	Null	Null	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass

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22	Null input	Null	Null	Null	Null	Null	Null	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
23	Null input	Null	Null	Null	Null	Null	Null	Null	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
24	Null input	Null	Null	Null	Null	Null	Null	Null	Null	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass

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## STC-2: Student registers to the system (URS-01)

### Description:

The test is a testing system for URS-01. Student can register to the system by information of lecturer. The test case will check the alphabet, number, and sign in each field.

### Prerequisites or Test Input:

The test data is the Student information. The valid input is the input that's correct data for register Student.

For Example

Student ID = 123456

Student Username = chaichan

Student password = 1234

Student name = chaichan

Student Faculty = camt

Student Department = se

Student Email = [Cs@gmail.com](mailto:Cs@gmail.com)

Student tel = 0882686285

### Test Script

1. Student clicks “register student” button
2. Student types the information for register
3. Student clicks “Regist” button

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Test ID	Description	Input								Expect Output	Actual output	Pass / Fail
		Student ID	Student username	Student password	Student Name	Student Faculty	Student Department	Student Email	Student tel			
1	Valid input	123456	chaichan	1234	chaichan	camt	se	Cs@gmail.com	0822686387	"Registration Successful"	"Registration Successful"	Pass
2	Invalid input	abcd	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
3	Invalid input	123456	Cs	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's username must be only 4-16 alphabet characters"	The system shall display "The Student's username must be only 4-16 alphabet characters"	Pass
4	Invalid input	123456	Chaichan	123	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's password must be only 4-16 characters"	The system shall display "The Student's password must be only 4-16 characters"	Pass
5	Invalid input	123456	Chaichan	1234	palm@c	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's name must be the combination of alphabet and space only"	The system shall display "The Student's name must be the combination of alphabet and space only"	Pass
6	Invalid input	123456	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	TH 0822686387	The system shall display "The Student's tel must be number only"	The system shall display "The Student's tel must be number only"	Pass
7	Invalid input	123456	Chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Csgmail.com">Csgmail.com</a>	0822686387	The system shall display "The Student's email must be the character and only one @ symbol"	The system shall display "The Student's email must be the character and only one @ symbol"	Pass
8	Existing input	123456	chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system "Existing Student's username, please using different Student's username"	The system "Existing Student's username, please using different Student's username"	Pass
9	Null input	Null	chaichan	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass

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10	Null input	123456	Null	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s username must be only 4-16 alphabet characters”	The system shall display “The Student’s username must be only 4-16 alphabet characters”	Pass
11	Null input	123456	Chaichan	Null	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s password must be only 4-16 characters	The system shall display “The Student’s password must be only 4-16 characters	Pass
12	Null input	123456	Chaichan	1234	Null	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s name must be the combination of alphabet	The system shall display “The Student’s name must be the combination of alphabet	Pass
15	Null input	123456	Chaichan	1234	Chaichan	Camt	Se	Null	0822686387	The system shall display “The Student’s email must be the character and only one @ symbol	The system shall display “The Student’s email must be the character and only one @ symbol	Pass
16	Null input	123456	chaichan	1234	chaichan	camt	se	Cs@gmail.com	Null	The system shall display “The Student’s tel must be number only”	The system shall display “The Student’s tel must be number only”	Pass
17	Null input	Null	chaichan	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
18	Null input	Null	Null	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
19	Null input	Null	Null	Null	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
20	Null input	Null	Null	Null	Null	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
21	Null input	Null	Null	Null	Null	Null	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
22	Null input	Null	Null	Null	Null	Null	Null	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
23	Null input	Null	Null	Null	Null	Null	Null	Null	0822686387	The system shall display “The Lecturer ID must be the number	The system shall display “The Lecturer ID must be the number	Pass

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										only”	only”	
24	Null input	Null	Null	Null	Null	Null	Null	Null	Null	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass

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### **STC-3: Administrator can approve Lecturer or Student account. (URS-05)**

#### **Description:**

The test is a testing system for URS-05. Administrator can approve Lecturer or student.

#### **Prerequisites or Test Input:**

The test data is lecturer or student account that is waiting for approval.

#### **Test Script**

1. Administrator types the username and pass word for login and then click login
2. Administrator clicks “manage account”
3. Administrator select approve lecturer or approve student
4. Administrator clicks check box for approve
5. Administrator clicks “approve”

Test case ID	Input Type	Description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Admin click approve	“approve ID Successful”	“approve ID Successful”	Pass
2	Valid Input	Admin click not	Go to next person	Go to next person	Pass

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#### **STC-4: Lecturer can edit personal information (URS-04)**

##### **Description:**

The test is a testing system for URS-04. Lecturer can edit personal information. The test case will check the alphabet, number, and sign in each field.

##### **Prerequisites or Test Input:**

The test data is the Lecturer information that will be edited in the database

##### **Test Script**

1. Lecturer types username and password for login and then click login
2. Lecturer clicks Personal Information
3. Lecturer Edits Information
4. Lecturer clicks “Edit” button

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Test ID	Description	Input									Expect Output	Actual Output	Pass/Fail
		Lec ID	Lec username	Lec password	Confirm password	Lec Name	Lec Faculty	Lec Department	Lec Email	Lectel			
1	Valid input	123456	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	0822686387	"editing Successful"	"editing Successful"	Pass
2	invalid input	abcd	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
3	invalid input	123456	Cs	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's username must be only 4-16 alphabet characters"	The system shall display "The Lecturer's username must be only 4-16 alphabet characters"	Pass
4	invalid input	123456	Chaichan	123	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's password must be only 4-16 characters"	The system shall display "The Lecturer's password must be only 4-16 characters"	Pass
5	invalid input	123456	Chaichan	1234	1234	palm@c	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Lecturer's name must be the combination of alphabet and space only"	The system shall display "The Lecturer's name must be the combination of alphabet and space only"	Pass
6	invalid input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	TH 0822686387	The system shall display "The Lecturer's tel must be number only"	The system shall display "The Lecturer's tel must be number only"	Pass

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7	invalid input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Csgmail.com">Csgmail.com</a>	0822686387	The system shall display “The Lecturer’s email must be the character and only one @ symbol	The system shall display “The Lecturer’s email must be the character and only one @ symbol	Pass
8	Existing input	123456	chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system “Existing Lecturer’s username, please using different Lecturer’s username”	The system “Existing Lecturer’s username, please using different Lecturer’s username”	Pass
9	Null input	Null	chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
10	Null input	123456	Null	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s username must be only 4-16 alphabet characters”	The system shall display “The Lecturer’s username must be only 4-16 alphabet characters”	Pass
11	Null input	123456	Chaichan	Null	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s password must be only 4-16 characters	The system shall display “The Lecturer’s password must be only 4-16 characters	Pass
12	Null input	123456	Chaichan	1234	1234	Null	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Lecturer’s name must be the combination of alphabet	The system shall display “The Lecturer’s name must be the combination of alphabet	Pass
15	Null input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	Null	0822686387	The system shall display “The Lecturer’s email must be the character and only one @ symbol	The system shall display “The Lecturer’s email must be the character and only one @ symbol	Pass
16	Null input	123456	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	Null	The system shall display “The Lecturer’s tel must be number only”	The system shall display “The Lecturer’s tel must be number only”	Pass
17	Null input	123456	chaichan	1234	1235	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “Password and confirm password is not matched”	The system shall display “Password and confirm password is not matched”	Pass
18	Null input	Null	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Lecturer ID must be the number only”	The system shall display “The Lecturer ID must be the number only”	Pass
19	Null	Null	Null	1234	1235	chaichan	camt	se	Cs@gmail	0822686387	The system shall display “The Lecturer ID must be the	The system shall display “The Lecturer ID must be the	Pass

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	input								.com		number only"	number only"	
20	Null input	Null	Null	Null	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
21	Null input	Null	Null	Null	Null	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
22	Null input	Null	Null	Null	Null	Null	camt	se	Cs@gmail.com	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
23	Null input	Null	Null	Null	Null	Null	Null	se	Cs@gmail.com	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
24	Null input	Null	Null	Null	Null	Null	Null	Null	Cs@gmail.com	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
25	Null input	Null	Null	Null	Null	Null	Null	Null	Null	0822686387	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass
26	Null input	Null	Null	Null	Null	Null	Null	Null	Null	Null	The system shall display "The Lecturer ID must be the number only"	The system shall display "The Lecturer ID must be the number only"	Pass

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### **STC-5: Student can edit personal information (URS-02)**

#### **Description:**

The test is a testing system for URS-02. Student can edit personal information. The test case will check the alphabet, number, and sign in each field.

#### **Prerequisites or Test Input:**

The test data is the Student information that will be edited in the database

#### **Test Script**

1. Student types username and password for login and then click login
2. Student clicks Personal Information
3. Student Edits Information
4. Student clicks “Edit” button

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Test ID	Description	Input									Expect Output	Actual Output	Pass/Fail
		Student ID	Student username	Student password	Confirm password	Student Name	Student Faculty	Student Department	Student Email	Student tel			
1	Valid input	123456	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	0822686387	"Editing Successful"	"Editing Successful"	Pass
2	Invalid input	abcd	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
3	Invalid input	123456	Cs	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's username must be only 4-16 alphabet characters"	The system shall display "The Student's username must be only 4-16 alphabet characters"	Pass
4	Invalid input	123456	Chaichan	123	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's password must be only 4-16 characters"	The system shall display "The Student's password must be only 4-16 characters"	Pass
5	Invalid input	123456	Chaichan	1234	1234	palm@c	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's name must be the combination of alphabet and space only"	The system shall display "The Student's name must be the combination of alphabet and space only"	Pass
6	Invalid input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	TH0822686387	The system shall display "The Student's tel must be number only"	The system shall display "The Student's tel must be number only"	Pass
7	Invalid input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display "The Student's email must be the character and only one @ symbol"	The system shall display "The Student's email must be the character and only one @ symbol"	Pass

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8	Existin g input	123456	chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system “Existing Student’s username, please using different Student’s username”	The system “Existing Student’s username, please using different Student’s username”	Pass
9	Null input	Null	chaichan	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student ID must be the number only”	The system shall display “The Student ID must be the number only”	Pass
10	Null input	123456	Null	1234	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s username must be only 4-16 alphabet characters”	The system shall display “The Student’s username must be only 4-16 alphabet characters”	Pass
11	Null input	123456	Chaichan	Null	1234	Chaichan	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s password must be only 4-16 characters	The system shall display “The Student’s password must be only 4-16 characters	Pass
12	Null input	123456	Chaichan	1234	1234	Null	Camt	Se	<a href="mailto:Cs@gmail.com">Cs@gmail.com</a>	0822686387	The system shall display “The Student’s name must be the combination of alphabet	The system shall display “The Student’s name must be the combination of alphabet	Pass
15	Null input	123456	Chaichan	1234	1234	Chaichan	Camt	Se	Null	0822686387	The system shall display “The Student’s email must be the character and only one @ symbol	The system shall display “The Student’s email must be the character and only one @ symbol	Pass
16	Null input	123456	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	Null	The system shall display “The Student’s tel must be number only”	The system shall display “The Student’s tel must be number only”	Pass
17	Null input	123456	chaichan	1234	1235	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “Password and confirm password is not matched”	The system shall display “Password and confirm password is not matched”	Pass
18	Null input	Null	chaichan	1234	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Student ID must be the number only”	The system shall display “The Student ID must be the number only”	Pass
19	Null input	Null	Null	1234	1235	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display “The Student ID must be the number only”	The system shall display “The Student ID must be the number only”	Pass

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20	Null input	Null	Null	Null	1234	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
21	Null input	Null	Null	Null	Null	chaichan	camt	se	Cs@gmail.com	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
22	Null input	Null	Null	Null	Null	Null	camt	se	Cs@gmail.com	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
23	Null input	Null	Null	Null	Null	Null	Null	se	Cs@gmail.com	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
24	Null input	Null	Null	Null	Null	Null	Null	Null	Cs@gmail.com	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
25	Null input	Null	Null	Null	Null	Null	Null	Null	Null	0822686387	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass
26	Null input	Null	Null	Null	Null	Null	Null	Null	Null	Null	The system shall display "The Student ID must be the number only"	The system shall display "The Student ID must be the number only"	Pass

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## STC-6: user can login (URS-06, 08, 10)

### Description:

The test is a testing system for URS-06, 08, 10. Users can login via username and password

### Prerequisites or Test Input:

Username and password of users. For test case id 1 is Pass, because the data is match with the database. For test case id 2 is Fail Because The data is not match with the database.

### Prerequisites or Test Input:

Username and password of user. For test case id 1 is Pass, Because the data is match with the database. For test case id 2 is Fail Because The data is not match with the database.

### Test Script

1. User click type Username and password and then click login

Test case id	Description	Input		Expect Output	Actual Output	Pass/Fail
		Username	password			
1	Valid Input	Chaichan	1234	Go to lecturer main page	Go to lecturer main page	Pass
2	Invalid Input	Aaasc	54321	System show error message "Invalid Username and/or Password"	System show error message "Invalid Username and/or Password"	pass
3	Null Input	Null	54321	System show error message "Invalid Username and/or Password"	System show error message "Invalid Username and/or Password"	pass
4	Null Input	Chaichan	Null	System show error message "Invalid Username and/or Password"	System show error message "Invalid Username and/or Password"	pass
5	Null Input	Null	Null	System show error message "Invalid Username and/or Password"	System show error message "Invalid Username and/or Password"	pass

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## **STC-7: user can logout (URS-07, 09, 11)**

### **Description:**

The test is a testing system for URS-07, 09, 11. Users can logout via username and password

### **Prerequisites or Test Input:**

Student,Lecturer,Administrator login status.

### **Test script**

1.User click Login button

Test case id	Input type	Input Description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	User click log out	Go to Login page	Go to Login page	Pass

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## STC-8: Administrator can create semester (URS-14)

### Description:

The test is a testing system for URS-14. Administrator can create semester. The test case will check the alphabet, number, and sign in each field.

**Prerequisites or Test Input:** Semester information that will be created semester. The valid input is For The description is number in S/YYYYY format only

### Test Script

1. Administrator login to system
2. Administrator clicks Semester management
3. Administrator type semester information
4. Administrator clicks “Add” button

Test case	Description	Input		Expect Output	Actual Output	Pass/Fail
		Name	description			
1	Valid Input	Year 4	1/2557	“Addition Semester Successful” message.	“Addition Semester Successful” message.	Pass
2	In Valid Input	Year 4	one	“Semester academic year must be S/YYYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYYY form. Which S is a semester and YYYY is an academic year”	Pass
4	Null Input	Year 4	Null	“Semester academic year must be S/YYYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYYY form. Which S is a semester and YYYY is an academic year”	Pass
5	Null Input	Null	1/2557	“Semester academic year must be S/YYYYY form. Which S is a	“Semester academic year must be S/YYYYY form. Which S is a	Pass

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				semester and YYYY is an academic year”	semester and YYYY is an academic year”	
6	Null Input	Null	Null	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	Pass

### STC-9: Administrator can edit semester (URS-15)

#### Description:

The test is a testing system for URS-15. Administrator can edit semester. The test case will check the alphabet, number, and sign in each field.

**Prerequisites or Test Input:** Semester information

#### Test Script

1. Administrator login to system
2. Administrator clicks Semester management
3. Administrator Selects semester for edit
4. Administrator clicks “Edit” button
5. Administrator type semester information
6. Administrator click “Edit” button

Test case	Description	Input		Expect Output	Actual Output	Pass/Fail
		Name	description			
1	Valid Input	Year 4	1/2557	“editting Semester Successful” message.	“editing Semester Successful” message.	Pass
2	Invalid Input	Year4	one	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	Pass

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4	Null Input	Year 4	Null	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	Pass
5	Null Input	Null	1/2557	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	Pass
6	Null Input	Null	Null	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	“Semester academic year must be S/YYYY form. Which S is a semester and YYYY is an academic year”	Pass

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## STC-10: Administrator can delete semester (URS-16)

### Description:

The test is a testing system for URS-16. Administrator can delete semester

**Prerequisites or Test Input:** Semester information

### Test Script

1. Administrator login to system
2. Administrator clicks Semester management
3. Administrator Selects semester for Delete.
4. Administrator clicks “Delete” button

Test case	Input type	Input description	Expect output	Actual Output	Pass/Fail
1	Valid Input	Click “delete semester”	The system show “deleting Semester Successful” message.	The system show “deleting Semester Successful” message.	Pass

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### **STC-11: Administrator can create course (URS-17)**

#### **Description:**

The test is a testing system for URS-17. Administrator can create course. The test case will check the alphabet, number, and sign in each field.

**Prerequisites or Test Input:** Course information that will be create the course. The valid input is the course credit must be number only.

#### **Test Script**

1. Administrator login to system
2. Administrator click course management page.
3. Administrator select semester and then click view button.
4. Administrator Clicks “Add Course” button
5. Administrator type the course information.
- 6.Administrator click “Next” button
7. Administrator select student and then click “Add course” button

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Test case	Description	Input				Expect Output	Actual Output	Pass/Fail
		Course name	Course credit	Course description	Lecturer Name			
1	Valid Input	Se101	1	Basic	Chaichan	The system display message “Adding Course Successful” message.	The system display message “Adding Course Successful” message.	Pass
2	Invalid Input	Se101	one	Basic	Chaichan	The system display error message “The course credit must be number only”	The system display error message “The course credit must be number only”	Pass
3	Null Input	Se101	Null	Basic	Chaichan	The system display message “The course credit must be number only”	The system display error message “The course credit must be number only”	Pass
4	Null Input	Null	1	Basic	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
5	Null Input	Null	Null	Basic	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
6	Null Input	Null	Null	Null	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
7	Null Input	Null	Null	Null	Null	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass

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## STC-12: Administrator can edit course (URS-18)

### Description:

The test is a testing system for URS-18. Administrator can edit course. The test case will check the alphabet, number, and sign in each field.

**Prerequisites or Test Input :** Course information

### Test Script

1. Administrator login to system
2. Administrator click course management page.
3. Administrator select semester and then click view button.
4. Administrator Clicks “view” for select course.
5. Administrator type information and then click edit course.

Test case	Description	Input				Expect Output	Actual Output	Pass/ Fail
		Course name	Course credit	Course description	Lecturer Name			
1	Valid input	Se101	1	Basic	chaichan	“Editing Course Successful” message.	“Editing Course Successful” message.	Pass

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2	Invalid input	Se101	one	Basic	Chaichan	The system display error message “The course credit must be number only”	The system display error message “The course credit must be number only”	Pass
3	Null Input	Se101	Null	Basic	Chaichan	The system display error message “The course credit must be number only”	The system display error message “The course credit must be number only”	Pass
4	Null Input	Null	1	Basic	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
5	Null Input	Null	Null	Basic	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
6	Null Input	Null	Null	Null	Chaichan	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass
7	Null Input	Null	Null	Null	Null	The system display error message “Insert the course name”	The system display error message “Insert the course name”	Pass

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### STC-13: Administrator can delete course (URS-19)

#### Description:

The test is a testing system for URS-19. Administrator can edit course. The test case will pass If input the valid input.

**Prerequisites or Test Input:** Course information

#### Test Script

1. Administrator login to system
2. Administrator click course management page.
3. Administrator select semester and then click view button.
4. Administrator Clicks “view” for select course.
5. Administrator type information and then click delete course.

Test case	Input type	Input Description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click Delete	“Deleting Course Successful” message.	“Deleting Course Successful” message.	Pass

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## STC-14: Lecturer can view course (URS-13)

### Description:

The test is a testing system for URS-13. Lecturer can view course

**Prerequisites or Test Input :** Course information

### Test Script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click view

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click view course	The system show course information	The system show course information	pass

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## STC 15: Student can view course (URS-12)

### Description:

The test is a testing system for URS-12. Student can view course

**Prerequisites or Test Input :** Course information

### Test Script

1. Student login to system
2. Student select course
3. Student select semester and then click view
4. Student selects course and then click view

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click view course	The system show course information	The system show course information	Pass

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## **STC-16: Lecturer can create quiz (URS-21)**

### **Description:**

The test is a testing system for URS-21. Lecturer can create quiz. The test case will check the alphabet, number, and sign in each field. If the data is valid the test case will pass.

**Prerequisites or Test Input:** Quiz Information the valid input is

### **Test script**

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click Over all test
5. Lecturer click “add testing” button
6. Lecturer click “add question” button
7. Lecturer select type and click “add type button”
8. Lecturer type information and then click “add question”
9. Lecturer click “add testing” button

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Test ID	Description	Input											Expect Output	Actual Output	Pass/Fail
		Test name	type of testing	amount of question	student name	the question status	Posting status	type of question	question description	choice description	Answer	Question point			
1	Valid input	Lap test	assignment	3	542115016	Random	Available	Multiple choice	1+1=?	A:1,B:2	B	1	The system displays “Creating Quiz Successful”	The system displays “Creating Quiz Successful”	Pass
2	Invalid input	Lap test	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	A	1	The system displays “Creating Quiz Successful”	The system displays “Creating Quiz Successful”	Pass
3	Invalid input	Lap test	assignment	3	542115016	Random	Available	Short Answer	1+1=?	null	null	1	The system displays “Creating Quiz Successful”	The system displays “Creating Quiz Successful”	Pass
4	Invalid input	Lap test	assignment	three	542115016	Random	Available	Short Answer	1+1=?	null	null	1	The system displays “Question point must be number only”	The system displays “Question point must be number only”	Pass
5	Invalid input	Lap test	assignment	three	542115016	Random	Available	Short Answer	1+1=?	null	null	one	The system displays “Testing score must be number only”	The system displays “Testing score must be number only”	Pass
6	Invalid input	Lap test	assignment	3	542115016	Random	Available	Multiple choice	1+1=?	A:1,B:2	2	1	The system displays “Answer must be a, b, c, and d only	The system displays “Answer must be a, b, c, and d only	Pass
7	Invalid input	Lap test	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system displays “Answer must be a and b only”	The system displays “Answer must be a and b only”	Pass
8	Null Input	Lap test	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass

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9	Null Input	Null	assignment	3	542115 016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
10	Null Input	Null	Null	3	542115 016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
11	Null Input	Null	Null	Null	542115 016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
12	Null Input	Null	Null	Null	Null	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
13	Null Input	Null	Null	Null	Null	Null	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
14	Null Input	Null	Null	Null	Null	Null	Null	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
15	Null Input	Null	Null	Null	Null	Null	Null	Null	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
16	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
17	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	C	1	The system display “type the test name”	The system display “type the test name”	Pass
18	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	1	The system display “type the test name”	The system display “type the test name”	Pass
19	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	The system display “type the test name”	The system display “type the test name”	Pass

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## STC-17: Lecturer can edit quiz and assignment (URS-22)

### Description:

The test is a testing system for URS-22. Lecturer can edit quiz and assignment. The test case will check the alphabet, number, and sign in each field. If the data is valid the test case will pass.

**Prerequisites or Test Input:** test information

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click Over all test
5. Lecturer select quiz and then click “view” button
6. Lecturer type information and then click “Edit testing”

Test ID	Description	Input											Expect Output	Actual Output	Pass /Fail
		Test name	type of testing	amount of question	student name	the question status	Posting status	type of question	question description	choice description	Answer	Question point			
1	Valid	Lap	Assign	3	542115016	Random	Availabbe	Multiple	1+1=?	A:1,B:2	B	1	The system displays “Editing	The system displays “Editing	Pass

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	Input	test	ment					choice					Quiz Successful”	Quiz Successful”	
2	Invalid Input	Lap test	Assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	A	1	The system displays “Creating Quiz Successful”	The system displays “Creating Quiz Successful”	Pass
3	Invalid Input	Lap test	Assignment	3	542115016	Random	Available	Short Answer	1+1=?	null	null	1	The system displays Creating Quiz Successful”	The system displays Creating Quiz Successful”	Pass
4	Invalid Input	Lap test	assignment	three	542115016	Random	Available	Short Answer	1+1=?	null	null	1	The system displays “Question point must be number only”	The system displays “Question point must be number only”	Pass
5	Invalid Input	Lap test	assignment	three	542115016	Random	Available	Short Answer	1+1=?	null	null	one	The system displays “Testing score must be number only”	The system displays “Testing score must be number only”	Pass
6	Invalid Input	Lap test	assignment	3	542115016	Random	Available	Multiple choice	1+1=?	A:1,B:2	2	1	The system displays “Answer must be a, b, c, and d only	The system displays “Answer must be a, b, c, and d only	Pass
7	Invalid Input	Lap test	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system displays “Answer must be a and b only”	The system displays “Answer must be a and b only”	Pass
8	Null Input	Lap test	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
9	Null Input	Null	assignment	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
10	Null Input	Null	Null	3	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
11	Null Input	Null	Null	Null	542115016	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
12	Null Input	Null	Null	Null	Null	Random	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
13	Null Input	Null	Null	Null	Null	Null	Available	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass

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14	Null Input	Null	Null	Null	Null	Null	Null	True/false question	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
15	Null Input	Null	Null	Null	Null	Null	Null	Null	1+1=2	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
16	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	A:True, B:False	C	1	The system display “type the test name”	The system display “type the test name”	Pass
17	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	C	1	The system display “type the test name”	The system display “type the test name”	Pass
18	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	1	The system display “type the test name”	The system display “type the test name”	Pass
19	Null Input	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	Null	The system display “type the test name”	The system display “type the test name”	Pass

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## STC-18: Lecturer can mark point. (URS-25)

### Description:

The test is a testing system for URS-25. Lecturer can mark point. The test case will check the number in each field. If the data is valid the test case will pass.

**Prerequisites or Test Input:** test information

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click Over all test
5. Lecturer select quiz and then click “view”button
6. Lecturer select quiz and then click” MARK

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	1	The system displays “Marking point is successful”	The system displays “Marking point is successful”	Pass
2	Invalid Input	one	The system show error message is “Point of student must be number only”	The system show error message is “Point of student must be number only”	Pass
2	Invalid Input	Null	The system show error message is “Point of student must be number only”	The system show error message is “Point of student must be number only”	Pass

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**STC-19: Lecturer can review overall student's answer in each choice of assignment or quiz in chart format (URS- 26)**

**Description:**

The test is a testing system for URS-26. Lecturer can view student answer in chart format.

**Prerequisites or Test Input:** Student answer

**Test script**

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click Over all test
5. Lecturer select quiz and then click “Chart” button

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click view student answer	System display Student Answer in chart format	System display Student Answer in chart format	Pass

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## STC-20: Lecturer can check time of submitted quiz. (URS-27)

### Description:

The test is a testing system for URS-27. Lecturer can check time of submitted quiz. The system will display the time of submitted

**Prerequisites or Test Input:** Quiz of student

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer selects course and then click Over all test
5. Lecturer select quiz and then click “SUBMISSION” button

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click check time of submitted quiz	System display time of submitted quiz	System display time of submitted quiz	Pass

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## STC-21: Lecturer can select course for create assignment and quiz. (URS-20)

### Description:

The test is a testing system for URS-20. Lecturer can select course for create assignment and quiz.

**Prerequisites or Test Input:** Quiz or assignment

### Test Script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer select course and then click “overall Test”

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click select course	System display quiz name in course	System display quiz name in course	Pass

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## STC-22: Student can select course for take assignment and quiz. (URS-23)

### Description:

The test is a testing system for URS-23. Student can select course for take assignment and quiz.

**Prerequisites or Test Input:** Quiz or assignment

### Test Script

1. Student login to system
2. Student select course
3. Student select semester and then click view
4. Student select course and then click “overall Test”

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Click select course	System display quiz name in course	System display quiz name in course	Pass

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## STC-23: Student can take quiz. (URS-24)

### Description:

The test is a testing system for URS-24. Student can take quiz. The test case will check the alphabet, number, and sign in each field.

**Prerequisites or Test Input:** Quiz or assignment

### Test Script

1. Student login to system
2. Student select course
3. Student select semester and then click view
4. Student select course and then click “overall Test”
5. Student select course and then click “ Take testing”

Test ID	Description	Input		Expect Output	Actual Output	Pass/Fail
		type of question	Answer			
1	Valid Input	Multiple choice	B	The system redirect to next question	The system redirect to next question	Pass
2	Valid Input	True/false question	A	The system redirect to next question	The system redirect to next question	Pass
3	Valid Input	Short Answer	two	The system redirect to next question	The system redirect to next question	Pass
6	Invalid Input	Multiple choice	2	The system displays “Answer must be a, b, c, and d only”	The system displays “Answer must be a, b, c, and d only”	Pass
7	Invalid Input	True/false question	C	The system displays “Answer must be a and b only”	The system displays “Answer must be a and b only”	Pass
8	Null Input	True/false question	Null	The system displays “Answer must be a and b only”	The system displays “Answer must be a and b only”	Pass
9	Null Input	Multiple choice	Null	The system displays “Answer must be a, b, c, and d only”	The system displays “Answer must be a, b, c, and d only”	Pass

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## STC-24: Lecturer can manage score by using Google's spreadsheets (URS-28)

### Description:

The test is a testing system for URS-28 Lecturer can manage score by using Google's spreadsheets

**Prerequisites or Test Input:** Score of student

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer click spreadsheet management

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Lecturer select Google's spreadsheets	System display Google's spreadsheets	System display Google's spreadsheets	Pass

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## STC-25: Lecturer can post the score for student (URS-29)

### Description:

The test is a testing system for URS-29. Lecturer can post the score for student by export file form spreadsheets.

**Prerequisites or Test Input:** Score of student

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer click spreadsheet management

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click sharing	System share file with student	System share file with student	Pass

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## STC-26: Student can view score (URS-33)

### Description:

The test is a testing system for URS-33. Student can view score by select Google's spreadsheet.

**Prerequisites or Test Input:** Score of student

### Test script

1. Student login to system
2. Student clicks course management system
3. Student clicks spreadsheets management
4. Student selects Google's spreadsheets

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Student select Google's spreadsheets	System display Google's spreadsheets.	System display Google's spreadsheets.	Pass

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## STC-27: Lecturer can create new Google's spreadsheet spreadsheets (URS-30)

### Description:

The test is a testing system for URS-30 Lecturer can create new Google's spreadsheets.

**Prerequisites or Test Input:** Score of student

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer click spreadsheet management
5. Lecturer click new file in Google spreadsheet.

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Lecturer click new spreadsheets.	System create new Google's spreadsheets	System create new Google's spreadsheets	Pass

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## STC-28: Lecturer can delete Google's spreadsheet. (URS-31)

### Description:

The test is a testing system for URS-31 Lecturer can delete Google's spreadsheets.

**Prerequisites or Test Input:** Score of student

### Test script

1. Lecturer login to system
2. Lecturer select course
3. Lecturer select semester and then click view
4. Lecturer click spreadsheet management
5. Lecturer click "delete" button.

Test case	Input type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid Input	Lecturer click delete spreadsheets.	System delete Google's spreadsheets form database.	System delete Google's spreadsheets form database.	Pass

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## STC-29: Lecturer can post the question for Student. (URS-37)

### Description:

The test is a testing system for URS-37 Lecturer can post the question for Student. This test case will check the information in each field.

**Prerequisites or Test Input:** Information of reply

### Test script

1. Lecturer selects course for post/reply.
2. Lecturer clicks post page.
3. Lecturer clicks new topic.
4. Lecturer types the information for new topic.
5. Lecturer clicks post button.

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click post button.	System display the post on the post page	System display the post on the post page	Pass
2	Valid input	Lecturer select person to ask	System display the post on the post page	System display the post on the post page	Pass
3	Invalid input	Lecturer didn't select person to ask	System display error message" please select person to ask"	System display error message" please select person to ask"	Pass

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### STC-30: Lecturer can reply the question for Student. (URS-38)

#### Description:

The test is a testing system for URS-38 Lecturer can reply the question for Student. This test case will check the information in each field.

**Prerequisites or Test Input:** information of reply

#### Test script

1. Lecturer selects course for post/reply.
2. Lecturer clicks post page.
3. Lecturer clicks new topic.
4. Lecturer types the information for new topic.
5. Lecturer clicks post button.

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click reply button.	System display the reply post on the post page	System display the reply post on the post page	Pass
2	Invalid input	Lecturer didn't type information	System display error message "please type information"	System display error message "please type information"	Pass

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## STC-31: Student can post the question. (URS-35)

### Description:

The test is a testing system for URS-35 Student can post/reply the question. This test case will check the information in each field.

**Prerequisites or Test Input:** Information of post

### Test script

1. Student selects course for reply.
2. Student clicks post page.
3. Student clicks new topic.
4. Student types the information for new topic.
5. Student clicks post button.

Test case	Input Type	Input description	Expect Output	Expect Output	Pass/Fail
1	Valid input	Student click post button.	System display the post on the post page	System display the post on the post page	Pass
2	Valid input	Student select person to ask	System display the post on the post page	System display the post on the post page	Pass
3	Invalid input	Student didn't select person to ask	System display error message" please select person to ask"	System display error message" please select person to ask"	Pass
4	Invalid input	Student didn't type information	System display error message "please type information"	System display error message "please type information"	Pass

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## STC-32: Student can reply the question. (URS-36)

### Description:

The test is a testing system for URS-36 Student can reply the question. This test case will check the information in each field.

**Prerequisites or Test Input:** Information of reply

### Test script

1. Student select course for post/reply.
2. Student clicks post page.
3. Student clicks reply.
4. Student types the information for reply.
5. Student clicks reply button.

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Student click reply button.	System display the reply post on the post page	System display the reply post on the post page	Pass
	Invalid input	Student didn't type information	System display error message "please type information"	System display error message "please type information"	Pass

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### STC-33: Lecturer click recommend. (URS-39)

#### Description:

The test is a testing system for URS-39 Lecturer can click recommend.

**Prerequisites or Test Input:** reply of the post

#### Test script

1. Lecturer selects course for recommend
2. Lecturer clicks post page.
3. Lecturer clicks “recommend” button.

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click recommend button.	System display the recommend post on the post page	System display the recommend post on the post page	Pass

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### STC-34: Lecturer click delete post. (URS-40)

#### Description:

The test is a testing system for URS-40 Lecturer can click delete the post.

**Prerequisites or Test Input:** reply of the post

#### Test script

1. Lecturer selects course
2. Lecturer clicks post page.
3. Lecturer clicks “delete” button.

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click recommend button.	System remove post form database	System remove post form database	Pass

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### STC-35: Lecturer can upload file to Google's spreadsheets. (URS-32)

#### Description:

The test is a testing system for URS-32 Lecturer can upload file to Google's spreadsheets.

**Prerequisites or Test Input:** file for upload

#### Test script

1. Lecturer clicks course management system
2. Lecturer click spreadsheets management
3. Lecturer selects Google's spreadsheets
4. Lecturer clicks choose file
5. Lecturer clicks upload button

Test case	Input Type	Input description	Expect Output	Actual output	Pass/Fail
1	Valid input	Lecturer click upload button.	System upload file to Google's spreadsheets	System upload file to Google's spreadsheets	Pass
2	Invalid input	Lecturer didn't select file	System display error message "please select file"	System display error message "please select file"	Pass

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### STC-36: Lecturer can send E-mail to student. (UC-34)

#### Description:

The test is a testing system for URS-34 Lecturer can send E-mail to student.

**Prerequisites or Test Input:** E-mail

#### Test script

1. Lecturer clicks “E-mail” button.
2. Lecturer types the information and E-mail
3. Lecturer clicks send

Test case	Input Type	Input description	Expect Output	Actual Output	Pass/Fail
1	Valid input	Lecturer click send	System send E-mail to student	System send E-mail to student	Pass
	Invalid input	Lecturer didn't type information	System display error message “please type information”	System display error message “please type information”	Pass

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