**Smart course Management**

**System in cloud**

Test plan Document

By

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**Mrs. Yun Rim Park**

# The Appendix A

Student

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| student\_id | student\_username | student\_password | student\_name | student\_faculty | student\_department | student\_address | student\_email | student\_tel | student\_approvment |
| 542115021 | tanadol | 123456 | Mr.Tanadol Parn-ong | CAMT | Software engineering | Chiang mai, Thailand | se542115021@vr.camt.info | 0833201787 | 0 |

# Test case of Unit Test (UTC)

## **UTC\_TC 01**

**Test scenario**

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

**Method**

public bool InsertStudentInfo(int stuId,string stuUsername, string stuPassword, string stuName, string stuFaculty, string stuDepartment,string stuAddress, string stuEmail, string stuTel)

**Prerequisites or Test input**

: None

**UTC\_TC 01 relationship table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test case ID | case | Test Step# | Execution test steps | Test Data | Expect result |
| UTC\_TC 01 | 1 | 1 | // arrange  int studentId = 542115021;  string studentUsername = "tanadol";  string studentPassword = "123456";  string studentName = "Mr.Tanadol Parn-ong";  string studentFaculty = "CAMT";  string studentDepartment = "Software engineering";  string studentAddress = "Chiang mai, Thailand";  string studentEmail = "se542115021@vr.camt.info";  string studentTel = "0833201787";  var studentRep = new StudentRepository();  bool expected = true;  // act  bool actual = studentRep.InsertStudentInfo(studentId, studentUsername, studentPassword, studentName, studentFaculty, studentDepartment, studentAddress, studentEmail, studentTel);    // assert  Assert.AreEqual(expected, actual); | int studentId = 542115021;  string studentUsername = "tanadol";  string studentPassword = "123456";  string studentName = "Mr.Tanadol Parn-ong";  string studentFaculty = "CAMT";  string studentDepartment = "Software engineering";  string studentAddress = "Chiang mai, Thailand";  string studentEmail = "se542115021@vr.camt.info";  string studentTel = "0833201787"; | Return true |

## **UTC\_TC 02**

**Test scenario**

: The test case is used for testing UpdateStudentInfo method in StudentRepository. This method is used for updating a student account in the database.

**Method**

public bool UpdateStudentInfo(int stuId, string stuPassword, string stuName, string stuFaculty, string stuDepartment, string stuAddress, string stuEmail, string stuTel)

**Prerequisites or Test input**

: The test data is available at Appendix A

**UTC\_TC 02 relationship table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test case ID | case | Test Step# | Execution test steps | Test Data | Expect result |
| UTC\_TC 02 | 1 | 1 | // arrange  int studentId = 542115021;  string studentPassword = "123456";  string studentName = "Mr.Tanadol Parn-ong";  string studentFaculty = "CAMT";  string studentDepartment = "Software engineering";  string studentAddress = "Chiang mai, Thailand";  string studentEmail = "se542115021@vr.camt.info";  string studentTel = "0833201787";  var studentRep = new StudentRepository();  bool expected = true;  // act  bool actual = studentRep.UpdateStudentInfo(studentId, studentPassword, studentName, studentFaculty, studentDepartment, studentAddress, studentEmail, studentTel);      // assert  Assert.AreEqual(expected, actual); | int studentId = 542115021;  string studentPassword = "123456";  string studentName = "Mr.Tanadol Parn-ong";  string studentFaculty = "CAMT";  string studentDepartment = "Software engineering";  string studentAddress = "Chiang mai, Thailand";  string studentEmail = "se542115021@vr.camt.info";  string studentTel = "0833201787"; | Return true |

## **UTC\_TC 03**

**Test scenario**

: The test case is used for testing ViewStudentInfo method in StudentRepository. This method is used for viewing student information from the database.

**Method**

public Student ViewStudentInfo(int stuId)

**Prerequisites or Test input**

: The test data is available at Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test case ID | case | Test Step# | Execution test steps | Test Data | Expect result |
| UTC\_TC 03 | 1 | 1 | // arrange  Student expected = new Student { student\_id = 542115021, student\_name = "Mr.Tanadol Parn-ong", student\_username = "tanadol", student\_password = "123456", student\_faculty = "CAMT", student\_department = "Software engineering", student\_address = "Chiang mai, Thailand", student\_email = "se542115021@vr.camt.info", student\_tel = "0833201787", student\_approvement = 0 };  int student\_id = 542115021;  var studentRep = new StudentRepository();  // act  var actual = studentRep.ViewStudentInfo(student\_id);  // assert  Assert.AreEqual(expected, actual); | int student\_id = 542115021; | Return true |