**WIL Report Management System**

Test record

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**\*PS = Phinthip Samutloiwon  
\*VI = Veerapat In-ongkarn  
\*PSU= Prompong Sugunnasil**

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# **Chapter I | Introduction**

## **Purpose**

The purpose of test record document is to record the actual result and pass-fail criteria of each test case. All of test record is followed the test plan.

## **Acronyms and Definitions**

|  |  |
| --- | --- |
| **Acronyms** | **Definitions** |
| UTC | Unit Test Case |
| STC | System Test Case |
| SRS | Software Requirement Specification |
| WRMS | WIL Report Management System |

**Definition**

|  |  |
| --- | --- |
| Software Requirement Specification | A description of a software system to be developed. It lays out functional and non-functional requirements, and may include a set of use cases that describe user interactions that the software must provide. |
| Unit Testing | A software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use. |
| System Testing | A testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements |

## **Test Responsibility**

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| Unit test of WRMS | PS, VI |
| Record unit test of WRMS | PS, VI |
| System test of WRMS | PS, VI |
| Record system test of WRMS | PS, VI |

# **Chapter II | Unit test**

## UserService Class

### getUserById(int id): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | id = 1 | Get a user object | Get a user object | Pass |
| Test by input wrong-id parameter | Id = 99 | Get an empty object | Get an empty object | Pass |
| Test by input string parameter | Id = ‘string’ | Get an empty object | Get an empty object | Pass |
| Test by input empty parameter | empty object | Get an empty object | Get an empty object | Pass |

### getNotifiesByUserId(int id): Notify[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | id = 1 | Get a list of notifies object | Get a list of notifies object | Pass |
| Test by input wrong-id parameter | Id = 99 | Get an empty object | Get an empty object | Pass |
| Test by input string parameter | Id = ‘string’ | Get a false value | Get a false value | Pass |
| Test by input empty parameter | empty object | Get a false value | Get a false value | Pass |

### getMyStatistic(int userId): Object

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input my user id as a request parameter | id = 8 | total\_projects = 1,  total\_tasks = 7 | total\_projects = 1,  total\_tasks = 7 | Pass |
| Test by input user id as a request parameter | Id = 1 | total\_projects = 1,  total\_tasks = 0 | total\_projects = 1,  total\_tasks = 0 | Pass |
| Test by input wrong-id parameter | Id = 99 | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |
| Test by input string parameter | Id = ‘string’ | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |
| Test by input empty parameter | empty object | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |

### getStatisticByUserID(int id): Object

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input my user id as a request parameter | id = 8 | total\_projects = 1,  total\_tasks = 7 | total\_projects = 1,  total\_tasks = 7 | Pass |
| Test by input user id as a request parameter | Id = 1 | total\_projects = 1,  total\_tasks = 0 | total\_projects = 1,  total\_tasks = 0 | Pass |
| Test by input wrong-id parameter | Id = 99 | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |
| Test by input string parameter | Id = ‘string’ | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |
| Test by input empty parameter | empty object | total\_projects = 0,  total\_tasks = 0 | total\_projects = 0,  total\_tasks = 0 | Pass |

### getUserByCode(String code): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user code as a request parameter | code = 16790 | Get a user object code = 16790 | Get a user object code = 16790 | Pass |
| Text by input wrong-code parameter | code = 11111 | Get an empty object | Get an empty object | Pass |
| Test by input empty parameter | empty object | Get an empty object | Get an empty object | Pass |

### getMentorsByStudentId(int id):User[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input student id as a request parameter | id = 8 | Get a mentors of student id = 8. Size = 1 | Get a mentors of student id = 8. Size = 1 | Pass |
| Test by input student id as a request parameter | Id = 1 | Get an empty array. Size = 0 | Get an empty array. Size = 0 | Pass |
| Test by input empty parameter | empty object | Get an empty array. | Get an empty array. | Pass |

### getSupervisprdByStudentId(int id):User[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input student id as a request parameter | id = 8 | Get a mentors of student id = 8. Size = 1 | Get a mentors of student id = 8. Size = 1 | Pass |
| Test by input student id as a request parameter | Id = 1 | Get an empty array. Size = 0 | Get an empty array. Size = 0 | Pass |
| Test by input empty parameter | empty object | Get an empty array. | Get an empty array. | Pass |

### setUserofStudent(int id, int sid): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input id of mentor or supervisor as a parameter and input id of student as a parameter. | id = 12, sid = 8 | Get a user object. | Get a user object. | Pass |

### deleteUserofStudent(int id, int sid): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input id of mentor or supervisor as a parameter and input id of student as a parameter. | id = 12, sid = 8 | Get a user object. | Get a user object. | Pass |

### create(object data): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of student as a object parameter. | first\_name = ‘student’,  last\_name = ‘ja’,  description = ‘i'm student’,  email = ‘student@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘student’,  start = [  epoc = 1493031284 ] | Get a student object. | Get a student object. | Pass |
| Test by input detail of mentor as a object parameter. | first\_name = ‘mentor,  last\_name = ‘ja’,  description = ‘i'm mentor,  email = ‘mentor@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘mentor,  start = [  epoc = 1493031284 ] | Get a mentor object. | Get a mentor object. | Pass |
| Test by input detail of student as a object parameter. | first\_name = ‘supervisor’,  last\_name = ‘ja’,  description = ‘i'm supervisor’,  email = ‘supervisor@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘supervisor’,  start = [  epoc = 1493031284 ] | Get a supervisor object. | Get a supervisor object. | Pass |
| Test by input detail of teacher as a object parameter. | role = ‘teacher’ | Get a empty object | Get a empty object | Pass |

### createStudent(object data): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of student as a object parameter. | first\_name = ‘student’,  last\_name = ‘ja’,  description = ‘i'm student’,  email = ‘student@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘student’,  start = [  epoc = 1493031284 ] | Get a student object. | Get a student object. | Pass |

### createSupervisor(object data): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of student as a object parameter. | first\_name = ‘supervisor’,  last\_name = ‘ja’,  description = ‘i'm supervisor’,  email = ‘supervisor@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘supervisor’,  start = [  epoc = 1493031284 ] | Get a supervisor object. | Get a supervisor object. | Pass |

### createMentor(object data): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of mentor as a object parameter. | first\_name = ‘mentor,  last\_name = ‘ja’,  description = ‘i'm mentor,  email = ‘mentor@mail.com’,  company = ‘’,  position = ‘’,  password = ‘123456’,  avatar = ‘’,  role = ‘mentor,  start = [  epoc = 1493031284 ] | Get a mentor object. | Get a mentor object. | Pass |

### update(object data, int id): User

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of user and user id as a object parameter. | Id = 8,  first\_name = ‘Isaac’,  last\_name = ‘Oldton’,  description = ‘i'm a student’,  email = ‘mentor@mail.com’,  company = ‘XYZ University’,  position = ‘Student’,  password = ‘’,  avatar = ‘pic\_newton’,  start = [  epoc = 1493031284 ] | Get a user edited object. | Get a user edited object. | Pass |
| Test by input detail of user and wrong user id as an object parameter. | Id = ‘eight’,  first\_name = ‘Isaac’,  last\_name = ‘Oldton’,  description = ‘i'm a student’,  email = ‘mentor@mail.com’,  company = ‘XYZ University’,  position = ‘Student’,  password = ‘’,  avatar = ‘pic\_newton’,  start = [  epoc = 1493031284 ] | Get a false value. | Get a false value. | Pass |

### getReportsByUserId(int id): Project[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id and dates with ‘start’ and ‘end’ as a request parameter. | User => id = 8,  Dates => [  Start = ‘2017-04-13’,  End => ‘2017-04-19’  ] | Get a projects object with reports list. | Get a projects object with reports list. | Pass |
| Test by input user id and empty dates as a request parameter. | User => id = 8,  Dates => [] | Get a projects object with empty reports. | Get a projects object with empty reports. | Pass |

### getStatisticByUsers(User[] users): Object

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input users as a object parameter. | User => id = 1,  User => id = 2 | Total\_projects = 3,  Total\_tasks = 9 | Total\_projects = 3,  Total\_tasks = 9 | Pass |
| Test by input empty parameter | Empty user | Total\_projects = 0,  Total\_tasks = 0 | Total\_projects = 0,  Total\_tasks = 0 | Pass |

## ProjectService Class

### show(int id): Project

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input project id as a request parameter | id = 1 | Get a project object | Get a project object | Pass |
| Test by input wrong-id parameter | Id = 99 | Get an empty object | Get an empty object | Pass |
| Test by input string parameter | Id = ‘string’ | Get an empty object | Get an empty object | Pass |
| Test by input empty parameter | empty object | Get an empty object | Get an empty object | Pass |

### all(): Project[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by no input | - | Get a list of projects object | Get a list of projects object | Pass |

### getLogsByProject(int id): TaskLog[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input project id as a request parameter | id = 8 | Get a list of task logs object | Get a list of task logs object | Pass |
| Test by input empty parameter | empty data | Get an empty array | Get an empty array | Pass |
| Test by input wrong project id parameter | Id = 99 | Get an empty array | Get an empty array | Pass |

### store(Object request, int userId): Project

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of project and user id as a request parameter | userId = 1,  name = ‘Name’,  description = ‘Description’,  start = ‘2014-04-14’ | Get a new project object | Get a new project object | Pass |
| Test by input name and user id as a request parameter | userId = 1,  name = ‘Name’, | Get false value | Get false value | Pass |
| Test by input description and user id as a request parameter | userId = 1,  description = ‘Description, | Get false value | Get false value | Pass |
| Test by input user id as a request parameter | userId = 1 | Get false value | Get false value | Pass |

### update(Object request, int id): Project

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of project and user id as a request parameter | userId = 1,  name = ‘Name’,  description = ‘Description’,  start = ‘2014-04-14’ | Get a project edited object | Get a project edited object | Pass |
| Test by input name and user id as a request parameter | userId = 1,  name = ‘Name’, | Get false value | Get false value | Pass |
| Test by input description and user id as a request parameter | userId = 1,  description = ‘Description, | Get false value | Get false value | Pass |
| Test by input user id as a request parameter | userId = 1 | Get false value | Get false value | Pass |

### destroy(int id): Project

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input project id as a request parameter | Id = 1 | Get a project deleted object | Get a project deleted object | Pass |
| Test by input project id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getMyProjectsByUserId(int id): Project[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | Id = 1 | Get a list of projects object | Get a list of projects object | Pass |
| Test by input user id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getProjectsByUserID(int id): Project[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | Id = 1 | Get a list of projects object | Get a list of projects object | Pass |
| Test by input user id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

## TaskService Class

### store(Object request): Task

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of task as a request parameter | name = ‘Name’,  description = ‘Description’,  project\_id = 1,  start = ‘2014-04-14’ | Get a new task object | Get a new task object | Pass |
| Test by input name, description and project id as a request parameter | name = ‘Name’,  description = ‘Description’,  project\_id = 1 | Get false value | Get false value | Pass |
| Test by input description and name as a request parameter | name = ‘Name’,  description = ‘Description’, | Get false value | Get false value | Pass |
| Test by input name as a request parameter | name = ‘Name’, | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### update(Object request, int taskId): Task

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input detail of task as a request parameter | Task\_id = 1,  name = ‘New Name’,  description = ‘New Description’ | Get a task edited object | Get a task edited object | Pass |
| Test by input name and task id as a request parameter | Task\_id = 1,  name = ‘New Name’, | Get false value | Get false value | Pass |
| Test by input task id as a request parameter | Task\_id = 1, | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getTaskLogsByProjectIdAndDates(int projectId, Date start, Date end)

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input project id and start date and end date as a request parameter | projectId = 1,  start = 1493031284,  end = 1493031284 | Get a list of task logs object | Get a list of task logs object | Pass |
| Test by input project id and wrong type date array as a parameter | projectId = 1,  start = ‘string’,  end = ‘string’ | Get false value | Get false value | Pass |
| Test by input wrong project id and start and end date array as a parameter | projectId = ‘string’,  start = 1493031284,  end = 1493031284 | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getTaskLogsByUsers(User users): TaskLog[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input users as a request parameter | [  [Id = 8]  ] | Get a list of task logs object | Get a list of task logs object | Pass |
| Test by input empty array as a parameter | [] | Get a empty list | Get a empty list | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getLogsByUserID(int userId): TaskLog[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | Id = 1 | Get a list of task logs object | Get a list of task logs object | Pass |
| Test by input user id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id user parameter | Id = 99 | Get a empty object | Get a empty object | Pass |

### getTasksByProjectID(int id): Task[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input project id as a request parameter | Id = 1 | Get a list of tasks object | Get a list of tasks object | Pass |
| Test by input project id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id project parameter | Id = 99 | Get an empty object | Get an empty object | Pass |

### getTaskByTaskID(int id): Task

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input task id as a request parameter | Id = 1 | Get a task object | Get a task object | Pass |
| Test by input task id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id task parameter | Id = 99 | Get an empty object | Get an empty object | Pass |

### getTasksByUserID(int id): Task[]

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input user id as a request parameter | Id = 1 | Get a list of tasks object | Get a list of tasks object | Pass |
| Test by input user id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id user parameter | Id = 99 | Get an empty object | Get an empty object | Pass |

### changeTo(request: Object, id: Integer): Task

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input task id and type is todo as a request parameter | Id = 1,  Type = ‘ToDo’ | Get a task type ‘ToDo’ object | Get a task type ‘ToDo’ object | Pass |
| Test by input task id and type is doing as a request parameter | Id = 3,  Type = ‘Doing’ | Get a task type ‘Doing’ object | Get a task type ‘Doing’ object | Pass |
| Test by input task id and type is done as a request parameter | Id = 1,  Type = ‘Done’ | Get a task type ‘Done’ object | Get a task type ‘Done’ object | Pass |

## CommentService Class

### comment(Object request): Comment

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input task id and text of comment as a request parameter | Text = ‘comment….’,  Task\_id = 1 | Get a comment object | Get a comment object | Pass |
| Test by input text of comment as a string parameter | Text = ‘comment….’ | Get false value | Get false value | Pass |
| Test by input task id as a string parameter | Task\_id = 1 | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |

### getComment(int id): Comment

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input comment id as a request parameter | Id = 1 | Get a comment object | Get a comment object | Pass |
| Test by input comment id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id comment parameter | Id = 99 | Get an empty object | Get an empty object | Pass |

### getCommentsByTask(int id): Comment

**Test by:** Virapat In-Ongkarn

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input task id as a request parameter | Id = 1 | Get a list of comments object | Get a list of comments object | Pass |
| Test by input task id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input task id comment parameter | Id = 99 | Get a empty object | Get a empty object | Pass |

### destroy(int id): Comment

**Test by: Virapat In-Ongkarn**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test by input comment id as a request parameter | Id = 1 | Get a comment deleted object | Get a comment deleted object | Pass |
| Test by input comment id as a string parameter | Id = ‘string’ | Get false value | Get false value | Pass |
| Test by input empty parameter | Empty data | Get false value | Get false value | Pass |
| Test by input wrong id comment parameter | Id = 99 | Get an empty object | Get an empty object | Pass |

# Chapter III | System Test

## Feature #1

### Registration

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Register with non-exist account as a student | first\_name: "Isaac"  last\_name: "Newton"  email: Newton@xmail.com  password: "newton1"  description: "I am a student"  company: "XYZ University"  position: "Student"  avatar: "1492663499.png"  sign: "1492663504.png"  start: "2017-04-01"  code: "null"  role: "student" | - The new account will be created.  - The system redirects to dashboard page. | - The new account will be created.  - The system redirects to dashboard page. | Pass |
| Register with non-exist account as a mentor | first\_name:"Michael"  last\_name:"Faraday"  email:Faraday@xmail.com  password: "faraday1"  description:"I am a mentor"  company:"FaradayCompany"  position:"Owner"  avatar:"1492665000.jpg"  sign:"1492665004.png"  start: "null"  code:"16790"  role:"mentor" | - The new account will be created.  - The code of mentor will be created.  - The system redirects to dashboard page. | - The new account will be created.  - The code of mentor will be created.  - The system redirects to dashboard page. | Pass |
| Register with non-exist account as a supervisor | first\_name: "Albert"  last\_name: "Einstein"  email: Einstein@xmail.com  password: "einstein1"  description: "I am a Supervisor"  company: "XYZ University"  position: "Lecturer"  avatar: "1492663030.jpg"  sign: "1492662998.png"  start: “null”  code: "8f14e"  role: "supervisor" | - The new account will be created.  - The code of supervisor will be created.  - The system redirects to dashboard page. | - The new account will be created.  - The code of supervisor will be created.  - The system redirects to dashboard page. | Pass |
| Register with an account with existing email “Einstein@xmail.com” | first\_name: "XYZ"  last\_name: " XYZ "  email: Einstein@xmail.com  password: "XYZ"  description: " XYZ "  company: " XYZ "  position: " XYZ "  avatar: " XYZ "  sign: " XYZ "  start: “XYZ”  code: " XYZ "  role: " XYZ " | - The system displays an error message “The email has already been taken” | - The system displays an error message “The email has already been taken” | Pass |
| Register with incorrect email constraint | first\_name: "XYZ"  last\_name: " XYZ "  email: "Einstein"  password: "XYZ"  description: " XYZ "  company: " XYZ "  position: " XYZ "  avatar: " XYZ "  sign: " XYZ "  start: " XYZ "  code: " XYZ "  role: " XYZ " | - The system displays an error message “The email must be a valid email address”. | - The system displays an error message “The email must be a valid email address”. | Pass |
| Register with empty first\_name field. (required) | first\_name: " " | - The system displays an error message “The first name field is required”. | - The system displays an error message “The first name field is required”. | Pass |
| Register with empty last\_name field. (required) | last\_name: " " | - The system displays an error message “The last name field is required”. | - The system displays an error message “The last name field is required”. | Pass |
| Register with empty email field. (required) | email: " " | - The system displays an error message “The email field is required”. | - The system displays an error message “The email field is required”. | Pass |
| Register with empty password field. (required) | password: " " | - The system displays an error message “The password field is required”. | - The system displays an error message “The password field is required”. | Pass |
| Register with empty start field. (required) | start: " " | - The system displays an error message “The start field is required”. | - The system displays an error message “The start field is required”. | Pass |
| Register with empty description field. (required) | description: " " | - The system displays an error message “The description field is required”. | - The system displays an error message “The description field is required”. | Pass |
| Register with empty company field. (required) | company: " " | - The system displays an error message “The company field is required”. | - The system displays an error message “The company field is required”. | Pass |
| Register with empty position field. (required) | position: " " | - The system displays an error message “The position field is required”. | - The system displays an error message “The position field is required”. | Pass |
| Register with empty avatar field. (required) | avatar: " " | - The system displays an error message “The avatar field is required”. | - The system displays an error message “The avatar field is required”. | Pass |
| Register with empty sign field. (required) | sign: " " | - The system displays an error message “The sign field is required”. | - The system displays an error message “The sign field is required”. | Pass |

### Edit profile

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Edit profile correct profile of student | first\_name: "nIsaac"  last\_name: "nNewton"  email: nNewton@xmail.com  password: "nnewton1"  description: "I am a new student"  company: "XYZ University"  position: "Student"  avatar: "1592663499.png"  sign: "1592663504.png"  start: "2017-04-02” | - The system displays profile page of student.  - The system will display the profile of nIsaac nNewton with his photo and the following info; Name: nIsaac nNewton Description: I am a new student Company: XYZ University Position: Student | - The system displays profile page of student.  - The system will display the profile of nIsaac nNewton with his photo and the following info; Name: nIsaac nNewton Description: I am a new student Company: XYZ University Position: Student | Pass |
| Edit profile with correct profile of Mentor | first\_name:"nMichael"  last\_name:"nFaraday"  email: "nFaraday@xmail.com"  password: "nfaraday1"  description:"I am a new mentor"  company:"FaradayCompany"  position:"Owner"  avatar:"1492665000.jpg"  sign:"1492665004.png" | - The system displays profile page of student.  - The system will display the profile of nMichael nFaraday with his photo and the following info; Name: nMichael nFaraday Description: I am a mentor  Company: FaradayCompany Position: Owner | - The system displays profile page of student.  - The system will display the profile of nMichael nFaraday with his photo and the following info; Name: nMichael nFaraday Description: I am a mentor  Company: FaradayCompany Position: Owner | Pass |
| Edit profile with incorrect email constraint | email: "newton " | The system displays an error message “The email must be a valid email address.” | The system displays an error message “The email must be a valid email address.” | Pass |
| Edit profile with empty first name field (required) | first\_name:" " | The system displays an error message “The first name field is required”. | The system displays an error message “The first name field is required”. | Pass |
| Edit profile with empty last name field (required) | last\_name:" " | The system displays an error message “The email field is required”. | The system displays an error message “The email field is required”. | Pass |
| Edit profile with empty password field (required) | password: " " | The system displays an error message “The password field is required”. | The system displays an error message “The password field is required”. | Pass |
| Edit profile with empty start field (required) | start: " ” | The system displays an error message “The start field is required”. | The system displays an error message “The start field is required”. | Pass |
| Edit profile with empty description field (required) | description: " " | The system displays an error message “The description field is required”. | The system displays an error message “The description field is required”. | Pass |
| Edit profile with empty company field (required) | company:" " | The system displays an error message “The company field is required”. | The system displays an error message “The company field is required”. | Pass |
| Edit profile with empty company field (required) | position:" " | The system displays an error message “The position field is required”. | The system displays an error message “The position field is required”. | Pass |
| Edit profile with empty avatar field (required) | avatar: " " | The system displays an error message “The position field is required”. | The system displays an error message “The avatar field is required”. | Pass |
| Edit profile with empty sign field (required) | sign: " " | The system displays an error message “The position field is required”. | The system displays an error message “The sign field is required”. | Pass |

### Login

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Login with an exist account as a student | email: "Newton@xmail.com"  password: "newton1" | - Login Successful.  - The system will redirects to Dashboard of a student. | - Login Successful.  - The system will redirects to Dashboard of a student. | Pass |
| Login with an exist account as a Mentor | email: "Faraday@xmail.com"  password: "faraday1" | - Login Successful.  - The system will redirects to Dashboard of a Mentor. | - Login Successful.  - The system will redirects to Dashboard of a Mentor. | Pass |
| Login with an exist account as a Supervisor | email: "Einstein@xmail.com"  password: "einstein1" | - Login Successful.  - The system will redirects to Dashboard of a Supervisor. | - Login Successful.  - The system will redirects to Dashboard of a Supervisor. | Pass |
| Login with an incorrect email | email: "test"  password: "newton1" | - The system displays an error message “The email or password is incorrect” | - The system displays an error message “The email or password is incorrect” | Pass |
| Login with an incorrect password | email: "Newton@xmail.com"  password: "incorrect" | - The system displays an error message “The email or password is incorrect” | - The system displays an error message “The email or password is incorrect” | Pass |
| Login with incorrect email and password | email: " incorrect @xmail.com"  password: "incorrect" | - The system displays an error message “The email or password is incorrect” | - The system displays an error message “The email or password is incorrect” | Pass |

### Logout

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Logout from the student account | email: "Newton@xmail.com"  password: "newton1" | - Logout successful.  - The system will redirects to Login page. | - Logout successful.  - The system will redirects to Login page. | Pass |
| Logout from the mentor account | email: "Faraday@xmail.com"  password: "faraday1" | - Logout successful.  - The system will redirects to Login page. | - Logout successful.  - The system will redirects to Login page. | Pass |
| Logout from the supervisor account | email: "Einstein@xmail.com"  password: "einstein1" | - Logout successful.  - The system will redirects to Login page. | - Logout successful.  - The system will redirects to Login page. | Pass |
| Click ‘back’ on the browser after successfully logged out. | - | - The system will display Login page. | - The system will display Login page. | Pass |

### Add registration code

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Add an exist code | Code: "8f14e" | - The system display “Albert Einstein” as the supervisor in profile page. | - The system display “Albert Einstein” as the supervisor in profile page. | Pass |
| Add the incorrect code which is shorter than 6 characters | code: "a12" | The system locks the “+” button. | The system locks the “+” button. | Pass |
| Add the incorrect code which is longer than 6 characters | code: "aa1234567" | The system locks the “+” button. | The system locks the “+” button. | Pass |

## Feature #2

### View task

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| View the project detail which includes task list | Project id: 2 Project name: "Gravity project" | The system displays the list of tasks as following; {Task1, Task2,Task3, Task4, Task5} | The system displays the list of tasks as following; {Task1, Task2,Task3, Task4, Task5} | Pass |

### View Statistics

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| View the statistic of tasks. | Student id: 8 | The system displays the statistics of tasks as following; Projects: 2 Tasks: 7 Days: 24 | The system displays the statistics of tasks as following; Projects: 2 Tasks: 7 Days: 24 | Pass |

### Create project

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Input correct project name, description, and start date | project name: "New project"  description: "This is a new project"  Start date: "2017-04-01" | The system displays the new project on the dashboard. | The system displays the new project on the dashboard. | Pass |
| Empty the project name field (required) | project name: ""  description: "This is a new project"  Start date: "2017-04-01" | System locks the “create” button. | System locks the “create” button. | Pass |
| Empty the description field (required) | project name: " New project "  description: " "  Start date: "2017-04-01" | System locks the “create” button. | System locks the “create” button. | Pass |

### Edit project

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Input correct project name, description, and start date | project name: "Edit project"  description: "This is an edited project"  Start date: "2017-04-01" | The system displays the edited project on the dashboard. | The system displays the edited project on the dashboard. | Pass |
| Empty the project name field (required) | project name: ""  description: "This is an edited project"  Start date: "2017-04-01" | System locks the “edit” button. | System locks the “edit” button. | Pass |
| Empty the description field (required) | project name: "Edit project  description: " "  Start date: "2017-04-01" | System locks the “edit” button. | System locks the “edit” button. | Pass |

### Delete project

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to delete a project | - | The system displays message “Delete a project success” | The system displays message “Delete a project success” | Pass |

### Create task

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Input correct task name, description, and start date | project name: "New task"  description: "This is a new task"  Start date: "2017-04-01" | - System displays the new task on the task page.  - System redirects to Task page | - System displays the new task on the task page.  - System redirects to Task page | Pass |
| Empty the task name field (required) | project name: ""  description: "This is a new task"  Start date: "2017-04-01" | System displays an error message “The name field is required.” | System displays an error message “The name field is required.” | Pass |
| Empty the description field (required) | project name: "New task"  description: " "  Start date: "2017-04-01" | System displays an error message “The description field is required.” | System displays an error message “The description field is required.” | Pass |
| Empty the start date field (required) | project name: "New task"  description: "This is a new task"  Start date: " " | System displays an error message “The start field is required.” | System displays an error message “The start field is required.” | Pass |

### Edit task

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Input correct task name, description | project name: "Edit task"  description: "This is an edited task" | - System displays the edited task on the task page.  - System redirects to Task page | - System displays the edited task on the task page.  - System redirects to Task page | Pass |
| Empty the task name field (required) | project name: ""  description: " This is an edited task" | System displays an error message “The name field is required.” | System displays an error message “The name field is required.” | Pass |

### Delete task

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to delete a task | - | - System displays a message “Delete success” | - System displays a message “Delete success” | Pass |

### Check a status of task

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to change the status on LIST tab. | Start date: "2017-04-01" | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | Pass |
| Test to change the status on CARD tab. | Start date: "2017-04-01" | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | Pass |
| Test to change the status on task detail page. | Start date: "2017-04-01" | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | - The status of task is changed to “Doing”.  - The start date is displayed on a task list. | Pass |
| Empty the start date field | Start date: " " | System locks the “Confirm” button. | System locks the “Confirm” button. | Pass |
| Test to drag a task card and does not drop in any column | - | - System displays forbidden sign as a mouse cursor.  - System locks for changing the status of a task. | - System displays forbidden sign as a mouse cursor.  - System locks for changing the status of a task. | Pass |
| Test to drag a task card and drop it to the same column | - | The task is still in the current column | The task is still in the current column | Pass |

## Feature #3

### View comment

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| View the comment(s) in a specific task. | Task id: 1 | The system displays the comment(s) as following; { Comment id:7 Text: Test comment by Supervisor User: Albert Einstein} , {Comment id:8 Text: Test comment 1 User: Isaac Newton} | The system displays the comment(s) as following; { Comment id:7 Text: Test comment by Supervisor User: Albert Einstein} , {Comment id:8 Text: Test comment 1 User: Isaac Newton} | Pass |

### Create comment

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Input a comment text. | Comment text: "Test comment" | - System displays the content of comment “Test comment”  - System displays a message “Comment success” | - System displays the content of comment “Test comment”  - System displays a message “Comment success” | Pass |
| Empty comment text | Comment text: " " | System locks comment button. | System locks comment button. | Pass |

### Delete comment

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to delete a comment | - | - System displays a message “Delete success” | - System displays a message “Delete success” | Pass |

### View an activity in a specific page

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to view all tasks activities in a specific project. | - | - System displays list of activities; { Last Saturday at 5:38 PM - Isaac Newton doing Task5}, { Last Thursday at 12:01 PM - Isaac Newton to do Task5} | - System displays list of activities; { Last Saturday at 5:38 PM - Isaac Newton doing Task5}, { Last Thursday at 12:01 PM - Isaac Newton to do Task5} | Pass |

### View an activity of all under guidance students

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to view all tasks activities in a specific project. | - | - System displays list of activities; { Last Thursday at 2:54 PM - Isaac Newton to do Task edited},{ Last Thursday at 2:44 PM - Isaac Newton doing Task3},{04/26/2017 - Isaac Newton to do Task0},{ 04/24/2017 - Isaac Newton doing Task1} | - System displays list of activities; { Last Thursday at 2:54 PM - Isaac Newton to do Task edited},{ Last Thursday at 2:44 PM - Isaac Newton doing Task3},{04/26/2017 - Isaac Newton to do Task0},{ 04/24/2017 - Isaac Newton doing Task1} | Pass |

## Feature #4

### Generate a report

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to generate a report | - | - System displays the weekly report which is separated by the project. | - System displays the weekly report which is separated by the project.Task1} | Pass |

### Print a report

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to print a weekly report | - | System send a weekly report to a printer. | System send a weekly report to a printer. | Pass |

## Feature #5

### Receive web notification

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to receive an activity notification pop-up | Add a comment  Text: Test comment Task id: 10 | System displays a notification message “You got a notification” | System displays a notification message “You got a notification” | Pass |
| Test to receive an activity notification on “Today” notification tab | Add a comment  Text: Test comment Task id: 10 | System displays a notification as the following;  Isaac Newton 2017-04-26 15:24:31 TASK#10 Gravity project | System displays a notification as the following;  Isaac Newton 2017-04-26 15:24:31 TASK#10 Gravity project | Pass |
| Test to receive an activity notification on “All” tab | Add a comment  Text: Test comment Task id: 10 | System displays a notification as the following;  Isaac Newton 2017-04-26 15:24:31 TASK#10 Gravity project | System displays a notification as the following;  Isaac Newton 2017-04-26 15:24:31 TASK#10 Gravity project | Pass |

### Receive email notification

**Test by: Phinthip Samutloiwon**

**Test data refer to Appendix A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Input** | **Expected** | **Actual result** | **Pass/Fail** |
| Test to receive an activity notification via email | Add a comment  Receiver: Isaac Newton Comment creator: Albert Einstein Text: Test comment Task id: 10 | System send an email notification as following;  Hi Issac Newton,  Albert Einstein has just comment on Task #10 Project: Gravity project --------------------------------- Comment: Test task ---------------------------------  Open this comment in Your Web browser. | System send an email notification as following;  Hi Issac Newton,  Albert Einstein has just comment on Task #10 Project: Gravity project --------------------------------- Comment: Test task ---------------------------------  Open this comment in Your Web browser. | Pass |