**WIL Report Management System**

Test record

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By

**Ms. Phinthip Samutloiwon 552115050**

**Mr. Veerapat In-ongkarn 562115055**

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

Project Advisor

**Dr. Prompong Sugunnasil**

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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 |

## **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 |