**WIL Report Management System**

Software Requirement Specification

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By

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**Document History**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Document Name** | **Version** | **Status** | | **Date** | **Viewable** | **Reviewer** | **Responsible** |
| **Documents** | | | | | | | |
| WRMS- TestPlan\_V.0.1.docx | Created document  - Add Chapter I  - Add Chapter II - Add Chapter III  - Add Chapter IV | | Draft | 27-02-2017 | PS,VI | PS,VI | PS,VI |
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# **Chapter I | Introduction**

## **Purpose**

The purpose of test plan document is to ensure that all functional requirements are implemented as in SRS documentation as well as provide an approach of unit and system testing. This test plan also helps to manage changes in the early phase of the project since we got more information and revise the plan.

## **Scope**

The scope of this test document includes test objectives, test duration, Responsibility person, Test strategy, planning of unit and system testing with test data, and testing activities. WRMS implement both of white box testing and black box testing techniques. We implemented white box testing to control structure of testing design procedure to derive test cases. Black box testing uses for derive set of input data and possible conditions.

## **Acronyms and Definitions**

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

# **Chapter II | Test Procedure**

## **Test Objectives**

The objectives of testing WIL Report Management System are

1. Identify the faults – Finding the fault which cause the failure.
2. Correct and remove the faults – Fixing errors and remove faults.
3. Ensure that all functionalities are implemented correctly.

## **Test Duration**

|  |  |
| --- | --- |
| **Progress** | **Date and Duration** |
| Progress I | Perform date: 4 March -12 March 2017  Duration: 9 days |
| Progress II | Perform date:  Duration: days |
| Final Progress | Perform date:  Duration: days |

## **Test Responsibility**

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

## **Test Strategy**

WRMS performed testing strategy by the following steps:

1. Design test cases
2. Prepare test data
3. Determine the expected result
4. Perform testing
5. Record all results

## **Result of Testing**

The results are separate into two parts:

1. Actual result: The actual results after testing
2. Pass/ Fail result:
   1. Pass: The actual result which match with the expected result.
   2. Fail: The actual result which does not match with the expected result.

## **Test Environment**

### **2.6.1 Hardware**

1. **DELL Vostro**

Processor Intel Core i5-5200U (2.20 GHz)

Memory 4 GB DDR3L 500 GB 5400 RPM

1. **MacBook Pro (Retina, Mid 2014)**

Processor 2.5 GHz Intel Core i7

Memory 16 GB 1600 MHz DDR 3

### **2.6.2 Software**

1. Operating system Windows 8.1
2. Operating system macOS Sierra
3. phpunit

# **Chapter III | Unit Test**

## UserService Class

### getUserById(int id): User

**Test description:** Test getUserById(int id) method by input id of user as a parameter

**Test data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **id** | **name** | **email** | **password** | **role** | **code** | **avatar** |
| 01 | Albert | Einstein | testpw | student | Mem01 Sup01 |  |

**Test case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected** |
| 1 | Test by input user id as a request parameter | id = 01 | Get a mentor and supervisor of student id=01 |
| 2 | Test by input empty parameter | empty object |  |

### getUserByCode(String code): User

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

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

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

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

### setUserOfStudent(int userId, int studentId): User[]

### create(Object data): User

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

### delete(int id): User

## ProjectService Class

### getProjectById(int id): Project

## TaskService Class

## CommentService Class

## NotificationService Class

## UserController Class

### show(int id): User

### setUserOfStudent(int uid, int sid): User

### update(Object request): User

### getUserByCode(String code): User

## AuthController Class

### authenticate(Object request): User

### getAuthenticatedUser(): User

### register(Object request): User

### reset(Object request, int id): User

## ProjectController Class

### index(Object request): Project[]

### store(Object request): Project

### show(int id): Project

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

### destroy(int id): Project

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

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

## TaskConteoller Class

## CommentController Class

## NotificationController Class

# **Chapter IV | System Test**

## **Feature #1**

### **Registration**

**Description:**

**Pre-condition**:

**Test script**:

**Test Cases**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Test script no.** | **Description** | **Input** | **Expect result** |
|  |  |  |  |  |

### Edit profile

### Login

### Logout

### Add registration code

## **Feature #2**

### View tasks

### View Statistics

### Add project

### Delete project

### Add task

### Edit task

### Delete task

### Move task

## **Feature #3**

### View comments

### Add comment

### Edit comment

### Delete comment

## **Feature #4**

### View weekly report

### Generate report

## **Feature #5**

### Receive web notification

### Receive email notification