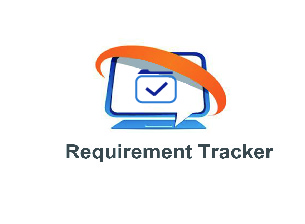
**CS673S16 Software Engineering** 

**Team II - Requirement Tracker**

**Tests Report**

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Role(s) | Signature | Date |
| Nora Salamah | Backup Leader | *Nora* | 03/02/16 |
| Rui Dai | Leader | *Rui* | 04/25/16 |
| Divyam Hansaria | Implementation  Leader  QA Leader | *Divyam Hansaria* | 04/26/16 |
| Chengchen Wang | Environment and  Integration Leader | *Chengchen Wang* | 04/27/16 |
| Abhyudaya Alva | Implementation Leader/QA Leader | *Abhyudaya Alva* | 04/27/16 |
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**Revision history**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Rui |  | Add section |
| 1.1 | Nora | 3/2/16 | Add sections |
| 1.2 | Minteng | 3/2/16 | Add test tables |
| 1.3 | Chengchen Wang | 04/26/16 | Add test tables |

[Introduction](#h.87t9hln2vjz0)

[Software Architecture](#h.buttcq9i221r)

[Design Patterns](#h.x18fj36s1121)

[Key Algorithms](#h.mtfbusfb0eq3)

[Classes and Methods](#h.7ucksmkf6rzx)

[References](#h.15tmymhipvdv)

[Glossary](#h.8n34lvocupub)

# Introduction

For our first iteration we decided to study and test the current 3blueprints.com system and find the bugs that currently exist, the functionalities that do not work and see what can be improved in future iterations. For the rest of the iterations, we created new features and fixes some bugs and tests were conducted to make sure all is good and code is running as before.

# Test Summary

We started by testing the existing tests created by the previous team. The tests included testing the UI and unit tests available. We looked at the test documentation from previous team, understood them and tested each one of the tests concluded.

We then decided to create new test that were not covered in previous testing. We created some unit tests and selenium tests for the functionalities that were not tested previously and for the new features we created.

# Tests Reports

As stated above we first tested the existing tests created previously. All tests passed as expected but one in the UI tests had a bug and failed. We fixed that bug and the test passes. Below are the existing tests.

1. Unit test

|  |  |  |
| --- | --- | --- |
| **Test Name** | **Status** | **Notes** |
| test\_iteration | PASS |  |
| test\_other | PASS |  |
| test\_project\_api | PASS |  |
| test\_roles | PASS |  |
| test\_story | PASS |  |

* + System Tests

|  |  |  |
| --- | --- | --- |
| **Test Name** | **Status** | **Notes** |
| test\_authentication | PASS |  |
| test\_iterations | PASS |  |
| test\_projects | PASS | This test had a bug and failed initially. In creating one of the projects there was a mixup in the dates. The end date was before the start date which led the test to fail. We just change the dates to occur in the right order and that led the test to pass. |
| test\_story | PASS |  |
| test\_user\_project\_and\_iteration\_permission | PASS |  |
| test\_downloadfile | PASS |  |

* + new test:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Target Class | Method Under Test | Note | Result |
| 1 | test\_get\_iteration\_pass | requirements/models/project\_api | get\_iteration |  | pass |
| 2 | test\_get\_iteration\_fail | requirements/models/project\_api | get\_iteration |  | pass |
| 3 | test\_iteration\_endDate\_earlier\_than\_startDate | requirements/models/project\_api | add\_iteration\_to\_project |  | pass |
| 4 | test\_add\_user\_to\_project\_twice | requirements/models/project\_api | add\_user\_to\_project | add a user to a project twice, there should be only one record of this user-project relationship, which means it should not have duplicate | fail |

Refactoring:

test\_other.py -> test\_iteration.py

test\_add\_story\_to\_iteration

test\_add\_story\_to\_iteration\_story\_not\_in\_project

test\_get\_project\_stories\_for\_iteration

test\_get\_project\_stories\_with\_no\_iteration

test\_project\_api.py -> test\_iteration.py

test\_add\_iteration\_to\_project\_pass

test\_add\_iteration\_to\_project\_fail\_bad\_project

test\_get\_iteration\_for\_project\_none

test\_get\_iteration\_for\_project\_one

1. UI test
   * System Tests

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-1 |  |
| Name | Create User success |  |
| Test Items | UI (Signup) |  |
| Priority | High |  |
| Dependencies | None |  |
| Preconditions | No user name already in use. |  |
| Input data | First name  Last name  Email  User name  Password  Password confirmation |  |
| Test Steps | From homepage, click Signup  Fill all required information (input data above).  Click register, move to Thank you for registering page. |  |
| Post-conditions | User is created and can now login through the sign in page. |  |
| Expected output | The Thank you for registering page should appear. |  |
| Actual output | As expected |  |
| Pass/Fail | Pass |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-2 |  |
| Name | Create User fail |  |
| Test Items | UI (Signup) |  |
| Priority | High |  |
| Dependencies | None |  |
| Preconditions | No user name already in use. |  |
| Input data | First name  Last name  Email  User name  Password  Password confirmation |  |
| Test Steps | From homepage, click Signup  Fill all required information (input data above).  · User name already exists  · Didn’t fill required fields.  · Password & password confirmation do not match.  Assert error message & stays on signup page |  |
| Post-conditions | User is not created. |  |
| Expected output | As expected. |  |
| Actual output |  |  |
| Pass/Fail | Fail |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-3 |  |
| Name | Delete User |  |
| Test Items | UI (Admin page) |  |
| Priority | High |  |
| Dependencies | Sign up |  |
| Preconditions | User is already created |  |
| Input data | Admin username  Admin password |  |
| Test Steps | From homepage, click Sign in  Enter admin username and password.  Navigate to admin site- click on users- check the user you want to delete and click delete.  Confirmation page to delete is displayed and user is deleted. |  |
| Post-conditions | User is deleted. |  |
| Expected output | User is deleted and the user’s page is displayed. |  |
| Actual output | As expected. |  |
| Pass/Fail | pass |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-4 |  |
| Name | Wrong password (3 times) |  |
| Test Items | UI (/signin/<username>,<password>) |  |
| Priority | Medium |  |
| Dependencies | None |  |
| Preconditions | Current User Created  Wrong Password |  |
| Input data | Username= 'admin'  Password= 'wrongpassword' |  |
| Test Steps | From homepage, sign in  Enter username and password  Get alert  Enter username and password  Get alert  Enter username and password  Get alert and lock |  |
| Post-conditions | Get alert and wait for 60s if you have failed for 3 times |  |
| Expected output | alert and stay at login page |  |
| Actual output | As expected. |  |
| Pass/Fail | pass |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-5 |  |
| Name | create\_duplicate\_project\_name |  |
| Test Items | UI (/signin/<username>, <password>)  UI(/project/<name>, <description>) |  |
| Priority | Medium |  |
| Dependencies | Admin Login |  |
| Preconditions | Current Project Name Not Created  Current Project Name Created |  |
| Input data | Username= 'admin'  Password= 'pass'  Id\_title='project title'  id\_description='project description'  Id\_title='project title'  id\_description='project description' |  |
| Test Steps | From homepage, sign in  Enter username and password  Click create project  Enter id\_title, id\_description  Enter same id\_title, id\_description again  Delete the first project  Logout |  |
| Post-conditions | Create the first project  Get alert for already have this project title  Delete the first project |  |
| Expected output | Allert |  |
| Actual output | No alert |  |
| Pass/Fail | fail | We need to write the function of the alert for already have same project title |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-6 |  |
| Name | Test user story hours fail |  |
| Test Items | UI (create user story) |  |
| Priority | High |  |
| Dependencies | None |  |
| Preconditions | Project & iteration are created |  |
| Input data | Title  Description  Hours |  |
| Test Steps | From homepage, sign in  Enter username and password  Click create project  Enter id\_title, id\_description  Create iteration  Enter Title, description, start and end date  Create user story  Enter title, description and story hours=0 |  |
| Post-conditions | Error that story hour should be greater than 0 |  |
| Expected output | Allert |  |
| Actual output | No alert |  |
| Pass/Fail | fail |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-7 |  |
| Name | Test user story hours success |  |
| Test Items | UI (create user story) |  |
| Priority | High |  |
| Dependencies | None |  |
| Preconditions | Project & iteration are created |  |
| Input data | Title  Description  Hours |  |
| Test Steps | From homepage, sign in  Enter username and password  Click create project  Enter id\_title, id\_description  Create iteration  Enter Title, description, start and end date  Create user story  Enter title, description and story hours =0 |  |
| Post-conditions | Error that story hour should be greater than 0 |  |
| Expected output | Error display |  |
| Actual output | Error display |  |
| Pass/Fail | success |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-8 |  |
| Name | Test iteration start date |  |
| Test Items | UI (create iteration page) |  |
| Priority | High |  |
| Dependencies | None |  |
| Preconditions | Iteration is created |  |
| Input data | Title  Description  Start date  End date |  |
| Test Steps | From homepage, sign in  Enter username and password  Click create project  Enter id\_title, id\_description  Create iteration  Enter Title, description, start and end date |  |
| Post-conditions | Error that start date should not be earlier than today |  |
| Expected output | Error display |  |
| Actual output | Error display |  |
| Pass/Fail | success |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-9 |  |
| Name | Test PDF report (download file) |  |
| Test Items | UI (download file page) |  |
| Priority | High |  |
| Dependencies | All other UI test, “reportLab” package | This is important since we need all other information collected successfully to make sure we could get a proper PDF report |
| Preconditions | Database is clean |  |
| Input data | A new project, with three new iterations, and totally five stories |  |
| Test Steps | From homepage, sign in  Enter username and password  Click create project  Enter id\_title, id\_description  Create 3 iterations  Enter Title, description, start and end date  Crate 5 stories  Fill out all the fields  Move 5 stories into 3 iterations  Click the “Download Report” on the project detail page  Select proper checkboxes  Click on “Download” |  |
| Post-conditions | We can download a proper project report |  |
| Expected output | A PDF report |  |
| Actual output | A PDF report |  |
| Pass/Fail | success |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-10 |  |
| Name | Test No Iteration |  |
| Test Items | UI (Iteration Name) |  |
| Priority | Low |  |
| Dependencies | None |  |
| Preconditions | No iteration is present. |  |
| Input data | Login ID and Pass  A new project is created  A new story is created in IceBox |  |
| Test Steps | Sign In into the system  Create a new project  Create a new story  Click on the move button  It displays “No Iterations” |  |
| Post-conditions | Story Can't Move |  |
| Expected output | As expected. |  |
| Actual output | Display “No Iterations” |  |
| Pass/Fail | Pass |  |

|  |  |  |
| --- | --- | --- |
| **Item** | **Value** | **Notes** |
| ID | UI-11 |  |
| Name | Story Comment |  |
| Test Items | UI (Poster of the story comment) |  |
| Priority | Medium |  |
| Dependencies | None |  |
| Preconditions | Project and story is created. |  |
| Input data | Login ID and Pass  A new project is created  A comment is posted on the story |  |
| Test Steps | User Logs in  User creates a project  User creates story  User posts a comment on the story |  |
| Post-conditions | Posted by name is displayed with every comment |  |
| Expected output | As expected. |  |
| Actual output | Poster Name |  |
| Pass/Fail | Pass |  |

# Testing Metrics

In this section, you shall report the any metrics used for the evaluation, e.g. coverage, defects rate, etc.

Coverage rates has been measured using the Coverage.py tool. The coverage report generated after running the UI and Unit test has been appended to the team document.

Please refer to the coverage\_report.xls which has the coverage report generated

On the final code. As we can see mos file under requirement have 100% coverage.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Stmts | Miss | Cover |
| comm/\_\_init\_\_.py | 0 | 0 | 100% |
| comm/admin.py | 1 | 0 | 100% |
| comm/migrations/0001\_initial.py | 6 | 0 | 100% |
| comm/migrations/\_\_init\_\_.py | 0 | 0 | 100% |
| comm/models.py | 23 | 3 | 87% |
| group1/\_\_init\_\_.py | 0 | 0 | 100% |
| group1/settings.py | 42 | 0 | 100% |
| issue\_tracker/\_\_init\_\_.py | 0 | 0 | 100% |
| issue\_tracker/admin.py | 4 | 0 | 100% |
| issue\_tracker/management/\_\_init\_\_.py | 0 | 0 | 100% |
| issue\_tracker/migrations/0001\_initial.py | 6 | 0 | 100% |
| issue\_tracker/migrations/\_\_init\_\_.py | 0 | 0 | 100% |
| issue\_tracker/models.py | 38 | 4 | 89% |
| manage.py | 6 | 0 | 100% |
| requirements/\_\_init\_\_.py | 1 | 0 | 100% |
| requirements/admin.py | 46 | 25 | 46% |
| requirements/migrations/0001\_initial.py | 7 | 0 | 100% |
| requirements/migrations/\_\_init\_\_.py | 0 | 0 | 100% |
| requirements/models/\_\_init\_\_.py | 11 | 0 | 100% |
| requirements/models/base.py | 10 | 1 | 90% |
| requirements/models/filemaker.py | 178 | 137 | 23% |
| requirements/models/files.py | 6 | 0 | 100% |
| requirements/models/ip.py | 12 | 1 | 92% |
| requirements/models/iteration.py | 49 | 33 | 33% |
| requirements/models/project.py | 12 | 2 | 83% |
| requirements/models/project\_api.py | 124 | 21 | 83% |
| requirements/models/story.py | 72 | 14 | 81% |
| requirements/models/story\_comment.py | 34 | 18 | 47% |
| requirements/models/task.py | 27 | 16 | 41% |
| requirements/models/user\_association.py | 22 | 2 | 91% |
| requirements/models/user\_manager.py | 54 | 26 | 52% |
| requirements/tests/\_\_init\_\_.py | 2 | 0 | 100% |
| requirements/tests/ui/\_\_init\_\_.py | 5 | 0 | 100% |
| requirements/tests/ui/test\_authentication.py | 76 | 19 | 75% |
| requirements/tests/ui/test\_create\_user.py | 142 | 22 | 85% |
| requirements/tests/ui/test\_iterations.py | 223 | 60 | 73% |
| requirements/tests/ui/test\_move.py | 53 | 0 | 100% |
| requirements/tests/ui/test\_projects.py | 252 | 36 | 86% |
| requirements/tests/ui/test\_downloadfile.py | 254 | 0 | 100% |
| requirements/tests/ui/test\_story.py | 236 | 44 | 81% |
| requirements/tests/ui/test\_storycomment.py | 53 | 0 | 100% |
| requirements/tests/ui/test\_user.py | 71 | 1 | 99% |
| requirements/tests/ui/test\_user\_project\_and\_iteration\_permission.py | 287 | 56 | 80% |
| requirements/tests/unit/\_\_init\_\_.py | 5 | 0 | 100% |
| requirements/tests/unit/test\_iteration.py | 126 | 1 | 99% |
| requirements/tests/unit/test\_other.py | 38 | 0 | 100% |
| requirements/tests/unit/test\_project\_api.py | 151 | 1 | 99% |
| requirements/tests/unit/test\_roles.py | 61 | 4 | 93% |
| requirements/tests/unit/test\_story.py | 70 | 0 | 100% |
| requirements/tests/unit/test\_user.py | 65 | 0 | 100% |

# References

* <https://github.com/CS673S15-Group1/Final_Project/tree/master/Team_Documentation/Team_1> TestDocument

# Glossary