

Cybertek JIRA workflow

Cybertek follows the agile scrum methodology of software development to build a quality in a timely manner. Cybertek puts high emphasis on adapting to changes, providing rapid and constant feedback to customers, and continuous self-improvement.

Cybertek uses a very dynamic two-week sprint approach. The agile team follows all the scrum ceremonies.

Cybertek uses JIRA Xray as a project management/bug tracking tool. During the projects, simplified use of JIRA is aimed. JIRA Issues in use are User Story, Test, Test Set, Bug and Test Execution.

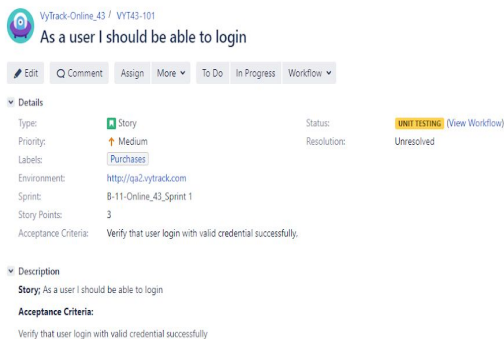
At the beginning of each Sprint, User Stories are dragged into the Sprint Backlog as decided at the Sprint Planning meeting. All the other Issues are designed with respect to the User Stories. Details about every Issue type are given below.

JIRA Issues

User Story

User Story (US) is created by PO/BA or acting SM. As its name says, it represents a US and should contain detailed information such as Acceptance Criteria, Environment, Description, Story Point etc.

USs are the only JIRA issues that are moved to the active sprint in the product backlog tab. So that the progress in the sprint could be monitored by tracking the USs at the Agile/JIRA board.



As a user I should be able to login

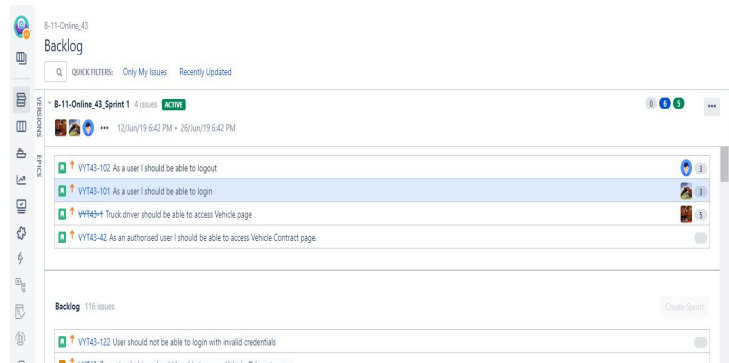
Details

- Type: Story
- Priority: Medium
- Labels: Purchases
- Environment: http://qa2.vytrack.com
- Sprint: B-11-Online_43_Sprint 1
- Story Points: 3
- Acceptance Criteria: Verify that user login with valid credential successfully.

Description

Story: As a user I should be able to login

Acceptance Criteria: Verify that user login with valid credential successfully



Backlog

QUICK FILTERS: Only My Issues Recently Updated

B-11-Online_43_Sprint 1 4 issues

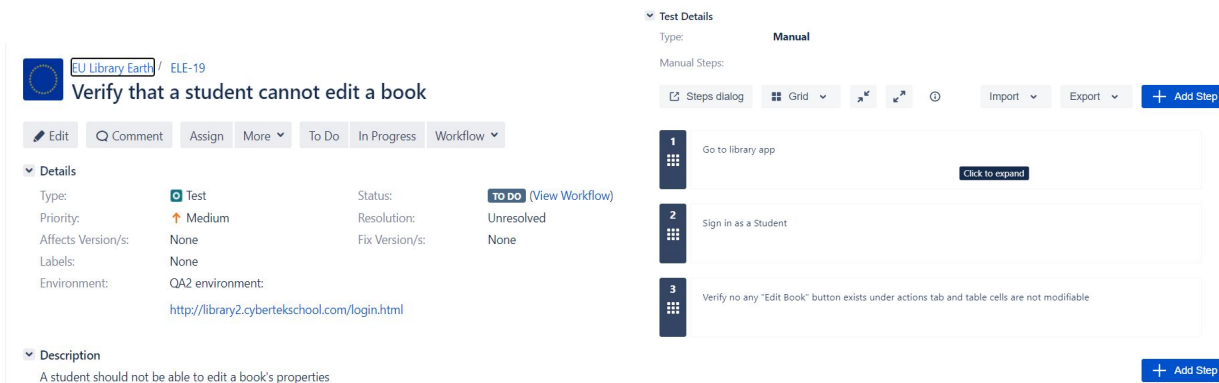
- VT43-102 As a user I should be able to login
- VT43-101 As a user I should be able to login
- VT43-100 As a user I should be able to login
- VT43-103 As a user I should be able to login

Backlog 116 issues

Test

Tests are created by the testers and they are based on the acceptance criteria of a US. This is why it has to be linked to its US in JIRA. Test represents a test case designed to test a scenario. Therefore, a tester should create a Test for each scenario of every acceptance criteria of a US.

All the test steps are defined inside of a Test in addition to its description. Test should be linked to its US and to a Test Execution. It can also be linked to a Test Set if needed.



Verify that a student cannot edit a book

Details

- Type: Test
- Priority: Medium
- Affects Version/s: None
- Labels: None
- Environment: QA2 environment: http://library2.cybertekschool.com/login.html

Description

A student should not be able to edit a book's properties

Test Details

Type: Manual


Manual Steps:

- Go to library app
- Sign in as a Student
- Verify no any "Edit Book" button exists under actions tab and table cells are not modifiable

Test Set

Test Sets are created by the testers for grouping test cases that might be executed or treated as a group in the future. In this manner, a

tester may prefer to create a Test Set for smoke test or for a US. Test Set provides ease of use and prevents repeated work, therefore saves time.


EU Library Earth / ELE-80
UI Regression Suite - Earth

Edit Comment Assign More To Do In Progress Workflow

Details
Type: Test Set
Priority: Medium
Affects Version/s: None
Labels: None
Environment: QA2: <http://library2.cybertekschool.com/login.html>
Status: **TO DO** (View Workflow)
Resolution: Unresolved
Fix Version/s: None
Description
UI Regression Suite for Librarian app

Tests

Create Test Add Tests


Show 10 entries Columns

| Key | Summary |
|-----------|--|
| 1 ELE-38 | Add a book with librarian credentials |
| 2 ELE-39 | Add a book with student credentials |
| 3 ELE-40 | Check book parameters |
| 4 ELE-41 | Check book categories |
| 5 ELE-42 | Check ISBN Numbers |
| 6 ELE-47 | Cucumber Verify a librarian can edit an existing book |
| 7 ELE-48 | Cucumber Verify that a student cannot edit a book |
| 8 ELE-49 | Cucumber Every book property should be editable |
| 9 ELE-51 | Verify that student is able to login with proper credentials |
| 10 ELE-58 | Verify that librarian is able to login with proper credentials |

Showing 1 to 10 of 11 entries
First Previous 1 2 Next Last

Test Execution

Test Execution is created by the testers in order to track and reflect execution of the test cases related to a US. Therefore, all Tests or Test Sets related to a US are included in the respective Test Execution. While a test case is being executed, a screenshot for each step is taken as a proof of execution & result, and attached into the Test Execution's respective test steps. At the end of the test, the result is reflected in Test Execution as PASS or FAIL.


EU Library Earth / ELE-44
Add Book Execution

Edit Comment Assign More To Do In Progress Workflow

Details
Type: Test Execution
Priority: Medium
Affects Version/s: 1.0
Labels: None
Environment: <http://library2.cybertekschool.com/login.html>
Test Plan: ELE-33
Test Environments: <http://qa2.vytrack.com/user/login>
Status: **TO DO** (View Workflow)
Resolution: Unresolved
Fix Version/s: 1.0
Description
Add Book Execution

Tests

+ Add

Overall Execution Status
4 PASS 1 FAIL

Total Tests: 5
Filter(s)

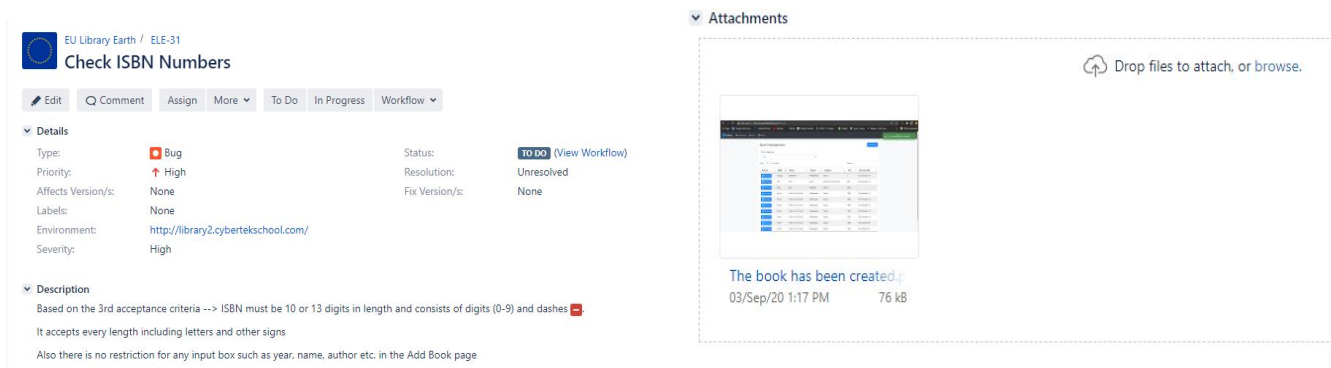
Show 10 entries Columns

| Rank | Key | Summary | Test Type | #Req | #Def | Test Sets | Assignee | Status |
|------|--------|---------------------------------------|-----------|------|------|---------------|----------|--------|
| 1 | ELE-38 | Add a book with librarian credentials | Cucumber | 0 | 0 | ELE-80 ELE-43 | I Sahin | PASS |
| 2 | ELE-39 | Add a book with student credentials | Cucumber | 0 | 0 | ELE-80 ELE-43 | I Sahin | PASS |
| 3 | ELE-40 | Check book parameters | Cucumber | 0 | 0 | ELE-80 ELE-43 | I Sahin | PASS |
| 4 | ELE-41 | Check book categories | Cucumber | 0 | 0 | ELE-80 ELE-43 | I Sahin | PASS |
| 5 | ELE-42 | Check ISBN Numbers | Cucumber | 0 | 0 | ELE-80 ELE-43 | I Sahin | FAIL |

Showing 1 to 5 of 5 entries
First Previous 1 Next Last

Bug

Bug is created by the testers and reflects a bug found when executing a test case or sometimes an exploratory testing. Therefore, Bug may be linked to a Test and to a US. A detailed description and a screenshot of the bug (a video if needed) should be provided in the Bug.

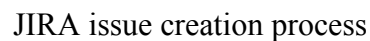


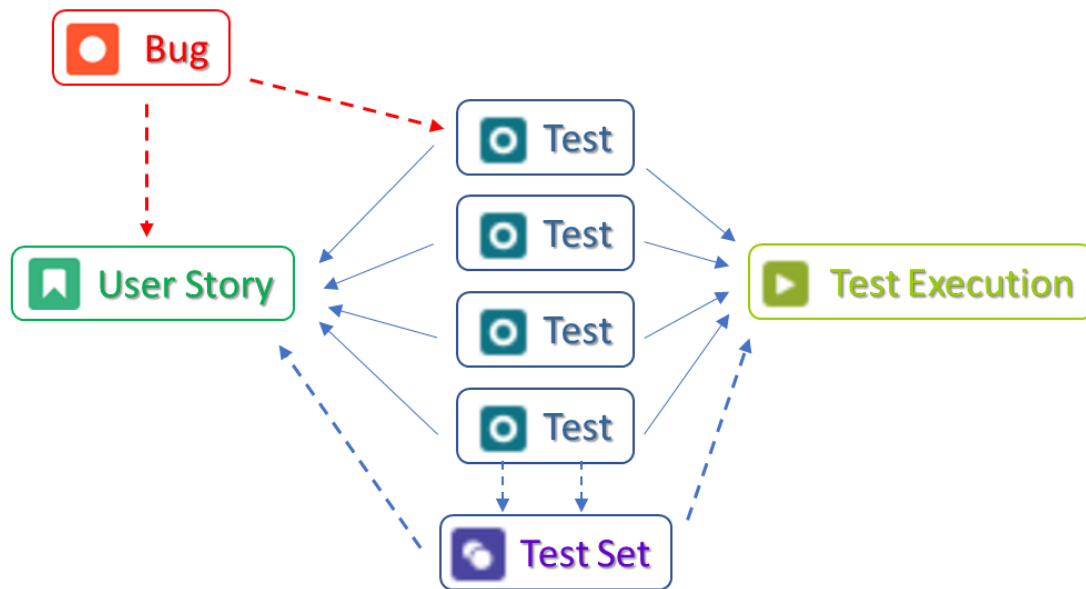
The screenshot shows a JIRA issue titled "Check ISBN Numbers" in the "EU Library Earth / ELE-31" project. The issue is a "Bug" with a "High" priority. The status is "To Do" (View Workflow), and it is "Unresolved". The description states: "Based on the 3rd acceptance criteria --> ISBN must be 10 or 13 digits in length and consists of digits (0-9) and dashes. It accepts every length including letters and other signs. Also there is no restriction for any input box such as year, name, author etc. in the Add Book page". An attachment is visible with the title "The book has been created.jpg", dated "03/Sep/20 1:17 PM", and a size of "76 kB".

Task

In a Sprint, there might also be additional tasks that help testers to execute their responsibilities and to facilitate the work to be done. Sometimes these tasks can even be a prerequisite for testers to begin their work. Having the framework built, getting the environment ready, launching EC2 (Virtual Machine) on AWS might be examples. In JIRA, there is Task to reflect those tasks. This is created by the Scrum Master and assigned to a team member. Since the effort spent for the task cannot be reflected as points as it is for a US, working hours spent for the task are logged in the issue on a daily basis.

Use of JIRA issues process and issues relation with each other in any given regular Sprint can be observed in the below diagrams.





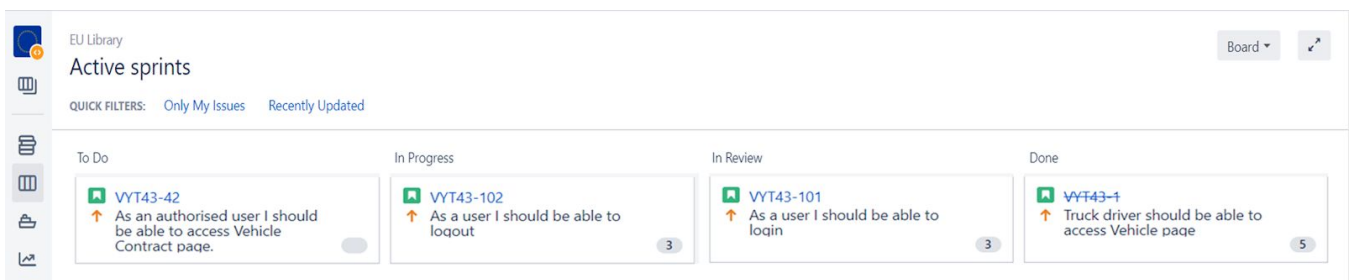
* If a Test Set that includes all the related Tests is created, no need for Tests to be linked to Test Execution

Issues' Relationship

Workflow

Cybertek Agile board consists of four columns: *To Do*, *In Progress*, *Review*, *Done*. The following snapshot displays all column names.

PS: During the project studies, the groups won't have any dedicated developers as it is not possible to simulate their work. Therefore, all the user stories will be assumed to have already been developed and ready for being tested. With this respect, Cybertek Agile board will be assumed to be reflecting the testers' work only.

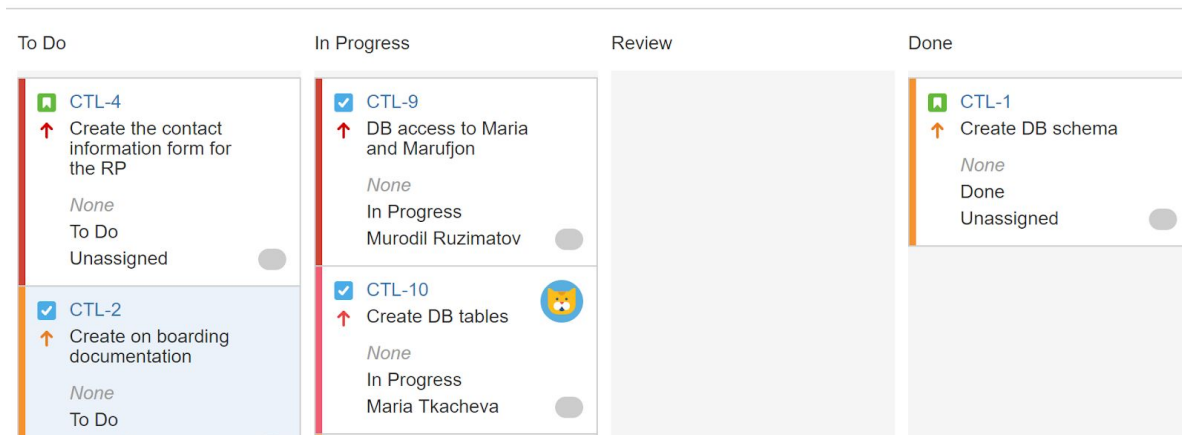


To Do

To Do column contains the stories brought into this sprint. Assuming that they are ready for testing, if a story is in this column, it means no tester is working on this story yet. However, some of the stories in the **To Do** columns may have already been assigned.

In Progress

Each story will be moved to **In Progress** column when work starts on that story. Each team member can have one story assigned to them in the **In Progress** column. This is to make sure that every team member is aware of what other members are working on. That is also done to accurately estimate time spent on the story. If a team member must work on a different story due to some circumstances, he or she needs to comment on the story, check in the changes and move the story back to **To Do**.



Review

Once work is complete in a story (All the related test cases have been executed and no bugs have been detected), it needs to be moved to **Review** column.

A team member can pick up a user story for reviewing (in coordination with SM) or Scrum Master can assign it to one team member. If issues (bugs, improperly or incompletely defined tests steps, missing test data etc.) are found during the review, the reviewer will comment on the story and move it back to **In Progress**. If no issues are found during the review, the reviewer will comment on the story and close by moving it to **Done** column after Scrum Master's approval.

Done

Done column contains the stories that have been worked on and reviewed. If the story has not been reviewed yet, it cannot be moved to **Done**. It must be reviewed before it can be moved to **Done**.

The following diagram displays possible transitions between the columns.

User Story Journey in Agile Board

