**Question --How we can do all these activities by using JIRA Tools?**

JIRA is basically used for multiple purpose. JIRA is provided in the cloud environment. JIRA is a very popular tool currently in the market . we can access them by using a URL. By using JIRA we can perform lot of activities,

Managing complete agile process, because by using JIRA we can ---

* create a backlog
* create sprint / stories
* we can update the statuses.
* we can create the task and update the tasks .
* update story in scrum board

So all these things we can do by using JIRA tools. so that is called as a managing agile process./managing agile process and

By using JIRA tool we can also –

write test cases

Execute the. And

we can update the stages, update the status of test cases whether it is passed or failed/

update the status.

**https://www.atlassian.com/try/cloud/signup?bundle=jira-software**

Jira Software > Use Password and Username> directly jumping to the DashBoard

\*\*\*Epic and User Stories will be part of Back log.

**Jira Tool**

* How to install and configure JIRA tool
* How to create Project in JIRA
* How to add users/ people in jira
* How to create backlog, Epic & User stories in jira
* Creating sprints in Jira
* Add user stories to sprint
* Starting Sprint
* Adding sub Tasks to story
* Sprint life cycle in JIRA
* Creating bugs in Jira

**Test Management Activities-**

* How to create test cases in JIRA with Zephyr plugin
* Creating Test Cycles
* Execute/ Update Test cases in Jira.

\*\*\*There are two kinds of activities we can do in the JIRA ----

1. the first thing is we can do all agile related activities that means we can

* create a project,
* add the users to that particular project and
* create a backlog,
* add the stories
* sprint
* move the stories to that particular sprint .

Step -1 How to create a project ?

**Go to DashBoard> Click on project> click on Create project**

* |Click on Projects options > create a project. > give the name of the projects > create |

**So created a new project**.-🡪 so for this project by default the backlog page is displayed here.

To see the project > go to projects.

To change something or delete the project > project settings by clicking 3 numbers at the right side.

Key value – it will generate automatically .

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* How to add users/ people in jira-- Go to -🡪

Jira settings> User management [admin]> and then add users/add more people

Go to people > search people and team > Usermanagement -User

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* How to create backlog, Epic & User stories in jira

Project >Click on project> then by default we will navigate to Backlog page> then I will creating version number of this project and add EPIC of this particular project.

* To create a version > click on version >Click on create a version. Like Aphria1.1
* To Create Epic > back to Epic> Click on Create Epic [Aphria\_001]

**Issue types in JIRA -these are all comes under issue category**

1)Epic [name of Epic should be small. One project can have any number of Epic ]

2) Story

3) Task/Sub tasks

4) Bug

5) Test

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BackLog -we no need to create .As soon as We create the project Backlog page will already appeared.

In the back log we have created EPIC now. Under EPIC we have to add a fewer stories.

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* How to add User Stories

BackLog---> Epic > here we can add user stories > If you don’t want to add User stories here, you can directly go “ +” > plus button here[left side 🡪 Menu bar]

And create another stories --

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* **Creating sprints in Jira –** In the back log we create sprint. As well as I created the sprint > click on the create sprint button > it will give some empty box here.

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* **Add user stories to Sprint** –[Few stories I have planned for first sprint and then few for 2nd stories and other for the next stories]So here 1st 2 stories I have added to first sprint. Like 1st 2 stories will be part of the First Sprint and This is decided by all the team during sprint planning meeting.] So go to jira and drag 2 stories and drop it . So sprint will be appear in the top.

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* **Starting Sprint—** Click on Start sprint in the back log page. Mimimum two to three weeks.
* Whenever I click on the start button to finish , the sprint will start . and here this is again sprint Dashboard. We can say scrum board or we can say Sprint Dash Boad.

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* **Adding sub Tasks to story -For every story there will be some tasks. And some diff people will work on one story.**

**Example-** if you have one story, for that,  what are the developer activities----

the developer will design it , code it, they will perform unit testing and they will create the build. so all the things done by the developer and The tester will do for the same story. They will create test scenarios. they will create the test cases, they will review the test cases . and they will do the execution part , they will report the bugs. All these things are done by the tester for the same story .

🡪**now we need to add tasks to these particular stories**.

So once we have added them into sprint .

**Once the sprint is started , we have to add tasks for these two stories** and developer will add the their own tasks

for that particular story and tester should add the testing stories .

To add tasks > Click on story which is in the active sprint >and it will give you one window,It will give you all the details about the story.

So Click on Create sub tasks and then type “ create test cases” in the place of Subtasks options. > click on create > and add one more task.

Name of Sub tasks - create test cases”,Review Test cases, Executing Test cases, Re-Testing Regression , Bug Reporting.

These are the tasks we have to create by the tester .

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= Same way developer also will do that---

Dev -Designing ,Dev- Code, Dev-Unit testing, Dev-Integration Testing , Dev- Create build.

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**Create Test case for each Tasks ---**Click on this sub-tasks >

These are all monitored by the scrum master every day 15 min of meeting ,  that is called as a spring door stand-up meeting/ scrum meeting .

Whenever they are doing work on Sub-tasks is , they will move these tasks to the in -progress.and

When it is completed then it will move to the Done steps.

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**Test Management Activities-**

* How to create test cases in JIRA with Zephyr plugin
* Creating Test Cycles
* Execute/ Update Test cases in Jira.

1. Create test cases in JIRA using Zephyr plugin

Normally by default JIRA will not provide you test management activities /feature

So if you want to get that particular feature, we have to add a file plug-in. so this is a one more plug-in is available for JIRA.So we need to install this plug-in and then we will get these features test management.

PreRequisuite --

\*\*\*Go to JIRA dashboard page> Jira setting> add-ons > Find new add-ons > and here search ‘zephyr’ > it will you a list out this plug> make sure -to install 🡪 Zephyr -test management > click on free trial Install button > then automatically the plug-in will be installed.

* Then you will see a new option in JIRZ. To See that --go to again dashboard > in the dashboard you

will see a new option called as test.

* Once pre-requisite we have to do and the other one is suppose if you want to create test case. so How to create the test case now.------🡪
* So we have installed this JIRA Zephyr plug-in -- Now I will show you how to create the test cases

### Test case is also a kind of an issue in JIRA.So we need to click on *this plus button* [+Issue and filter]create an issue it's as soon as you create an issue.

When you want to create a test case then if you don’t see The ‘Test’ in the create issue page along with other issue. So if it is still not comes under this list -Then you have to one more option--

## Go to the project >Select this project> go to your project settings> along with this under project settings see one option called issue types > Click on issue types> in the issue type, if you see the test case option along with other issue like bug , tasks, Epic , story then okay but if you not see the test case then we need to add test issue type to this particular project.

So go to actions [Top right sight ] > click on Edit issue types> then we need to drag and drop> click on save.

\*\*\* Select projects> project settings> Issue types> Actions>Edit issue types> drag and drop > save.

Now go back to the dashboard > Back log> create the Test to select the Test option in the issue list.

For the project I have two test cases –[Test case is also part of the BackLog]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Cases** | |  |  |  |  |  |
| **TCID** | **UserStory ID** | **Future/Title** | **User Story** | **Steps** | **Expected** | **Actual** |
| TC\_CHP\_001 | US001 | First Time Visitor can make the payment as a guest user without having to register | As a First time visitor to the e-commerce website, I want to be able to buy a listed product, So that I can use the product 1 buy | 1) Open Application URL 2) Go to Catelog page 3) List a product  4) Add to cart  5) Select Paymemt Method  6) Complete Payment | User is able to list and buy the product |  |
| TC\_CHP\_002 | US002 | New user can register on the website | As a First time visitor to the website, I want to be able to register on the website, So that I can browse and buy listed products from the website. | 1) Open Application RL 2) Click on register link 3)Pride user details 4) Click on submit | New User should able to register to Website |  |

* Create test case
* we need to update the steps
* to update the steps –Go to the Test [ Test option will show at menu side ] -- under the test it will show you how many tests are being created.

1. Creating Test Cycles

* we have to create the test cycle and then we need to add this Test cases to the cycle and then
* we need to execute .

So once you ready with all the test cases we **have to create the test cycle** as per the JIRA. and we need to add every test case to this particular test cycle and this test cycle can be ad hoc or sometimes it litigation cycle. sometimes it will be functional testing and sometimes it will be re-testing . So based upon your condition or you can just create one cycle add all the test case and then Manually Execute all the test cases then update the status.

To create a test cycle --🡪 go to JIRA > Go back under Test [ Test option will show at menu side ] > Click on it > Under Test Management > Click on Plan Test cycle> So you will see by default it will give you add hoc cycle . you can also see under Adhoc you don't have any test cases planned .

Then I will add a few test cases to this particular cycle or if you want to create another cycle, you can just click on the create new cycle > and give some name after Adhoc testing like I want to perform functional Testing .

So in functional testing cycle , Give some name > then click on the save.

\*\*\*So we can create as many as cycles we want.

C) Execute/ Update Test cases in Jira: ---. To start executing this cycle we have to add these Functional test cases to this cycle. > Click on the Functional cycle now > To add all the test cases to this particular cycle > Click again on Search Test option at the menu.> Then you will see these are the two test cases which we need to plan for functional testing.

Now to add Functional testing with Adhoc testing page at Cycle summary page –Go to Test option again > click on Plan test cycle > Click on Create New Cycle [top – right ]> give the name as Functional testing > Save it .

Now to go back click on Test Option > then you will see ‘Test Summary ‘ page > Click on ‘Total Test’ > Then you will see two test cases because you creates only Two test cases.> now these two test cases we need to add them to the cycle>

So To do that First Select the first test case > here there is a button called “Add to test cycle(s)> click on this one > Then here it will show you both the Cycle -one is Adhoc Testing and another one is Functional Testing.

So Now whichever cycle you have to add- just select that cycle > Click on Assign button, you can give me/ any person > Then click on Add. >>

similarly I will also add the second eske's to that particular cycle. > Now we have added all over test cases to your test cycle. and these test cases we have to exclude either manually or automated. but the stages should be

updated here [JIRA]

**Now we need to start execution .** To start execution of the test cases >to update the status of these two test

cases -----So go back and go to the Project> Test> click on ‘Execute Tests’ .> then you will enter into this ‘Cycle Summary’ page . > You will enter into the cycle. So which Cycle we have plan ? functional Testing---Click on this functional testing.

**Now we need to Update – If you see the test cases are Unexecuted /Unschdule then you should be updates these test cases.**

To update the status click on this edit mark along with ‘Unexecuted option’ >it will give you whether it's test case pass or fail a WIP or blocked or unexecuted.

So one of the status we have to select but when we need to select the status after you executed your test case either through manually or automation. Suppose my first test case is passed then you have update is a ‘pass’ and suppose when executing my test case - it is failed , so I can just update this as a fail .so let me just fail it and click on the tick mark now this test case is failed.

So this is how we need to update the status .

So here I did

* -created the test cases
* Added all the test cases to one side test cycle and
* then we have executed those test cases means we have updated the status for those test cases .

Now if you want to see the complete status like

* what is project
* how many test cases
* created how many have been executed
* how many are fail
* how many are passed.

If you want to see the complete report then you need to go for ‘Test Matrix’ – Test matrix it will give you t

* the detailed information
* it will automatically calculate the matrix.

If you Test summary -  it will give you the more to your information.

if you observe total tests - executed two test cases.

If you click on Test Cycle -- it is clearly showing 100% is Executed and 50% is passed and 50% is failed and traceability  also we can see here.

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**USE Zeohyre plugin** and **Test Cases Execution [ Roicians Tech]**

1. To create Test cases in JIRA we need to install Zephyr plugin
2. After Installation of Zephyr plugin If you want to create Test cases and then if you see the issue [Test] option under the Issue type is not associated in the project . then
3. Go to settings > click on Issues > Click on Issue type Schemes> then you will by default you have issue called Test but In your project that issue is not being high lighted. Because it is not associated to your project. Then Click on Edit [down]> then Drag and Drop the Test option.> save it .

\*\*\* To see the Test option inside the Issue – setting []> issues> click on Issue type schemes >Click on Edit > Drug the ‘Test’ option and Drop inside the Issue Types for current scheme from Available Issue Types> Save it .

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Create a Test cases –

1. Go to create > Test> giving all info as you need > Click on create [Summ- checking functionality of cartlink]
2. Go to backlog to get this test cases> to write down on the test cases > Double click on Test cases>

\*\*\* If you not writing any steps before then you can write the steps in the jira .

So When you are creating a issue, at that time you are writing any steps or expected result. But when you test case is created and it is moved to back log. You can updated and write down the steps here.

1. So to Write the test details/steps then double click on Test cases > then you will see three options 1) A for zephyr Actions 2) D for Test details 3) E for Test Executions
2. To write down the details click on D options> Go down > then you will see –Test step, Test Data and Test Result. Example -Test Steps -Navigate to item page and Test Result -Item page should open > then click on Check box.> then it will be added. Then add 2nd steps and then 3 and so on.

How To Execute---

1. **Go the Zephyr option >** Click on Cycle summary > Create New Test cycle>Save.

Then you will see a new testing cycle like Functional testing is created.

1. To go to Test case 🡪Search test > -🡪 how to add the test cases to the particular cycle ?, for this
2. See the Zephyr Actions> click on Add to Test Cycle(s) [if you don.t see Add to test cycle(s) directly then you need to click on **“A”** which is blue color-this is means- Zephyr Actions] >Then click on Zephyr Actions> then click on Add to Test Cycle(s )> Then it will show a page 🡪 Add to Test Cycle(s). and then
3. give info like Version, Cycle Summary, Test Folder > **{click on Add to more Test cycle(s) ---If you want this particular Test case to be part of other test cycles also like other type of testing }** > click on ADD > then . So **Your test case has been added to a cycles**
4. Go the project > Go to Zephyre plugin again > Click on **Cycle summary>** then here you can see your test cases has been attached to the cycle summary.> then you will see the status it is Unexecuted. Because you have written the test cases and then you have attached the test cases into Cycle summary but you have not executed it yet. So Tester can go ahead and executed manually or with the automation test testing . After the Execution Tester can update the status under this sections. So you go to the status options
5. > Click on button > then you will give the pass if it is passed / or Fail if it is failed.

**Generate Report of the the Test cases –**

1. Go to Zephyr > Test Matrix and click on it .

Question – How it updates Requirement Traceability Metrics (RTM) .RTM will automatically get updates with zephyr plugin.

Go to Zephyr plugin > Go to Reporting Sections > Requirement Traceability Metrics> It will ree report all the issues. As all are issues either defect , Task, Sub tasks, User Story ,

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[**Test Management**](https://www.youtube.com/channel/UC0eecZ7qnyCwMGd69vcFw1g)

**Questions-**

1. **How to create Dashboard in Jira?**
2. **How customize Dashboards and Add Gadget?**
3. **How to create Filters**
4. **How to apply those Filters to Dashboards**

* **How to create Dashboard in Jira?**

**Go to Dashboards>Manage Dashboards> Create New Dashboards> give the name like ‘My new DashBoard’> Add**

* **How customize Dashboards and Add Gadget?**

**Click on ‘My new DashBoard > Click on Add a new gadget> Type “Assign ’ on Search box> then click on Load all gadgets> Then It will show an option “Assigned to me”> then Click on Add gadget> Then remove this page then you will see gadget has been added to your dashboard.**