JIRA

Lesson 03: Hands-on JIRA

Lesson Objectives

In this lesson, you will learn about:

- Register and Login to JIRA
- Creating a Project
- Creating an Issue – story, task, sub-task, bug
- Managing Issues – editing, deleting
- Creating & Starting Sprints
- Workflow Progress
- JIRA Reports

Hands-on JIRA

Login to JIRA

- When you login , you get a snapshot about description of your existing project – dashboard page (or) you can even create a new project.

- The dashboard page displays the description of the project you belong to : issue summary and the activity stream (the issues that are assigned to you, the issues that you created etc).

Hands-on JIRA

Create a Project

- Project is a collection of issues
- Project has following attributes:
  1. Name: given by the administrator
  2. Key: It is an identifier that all the issue names under the project are going to start with. This value is set during the creation of a project and cannot be modified later even by an administrator
  3. Components: subgroups within a project based on common grounds
  4. Vision: For a project different versions can be tracked

Hands-on JIRA

Demo

Demo 1: Register & Login to JIRA

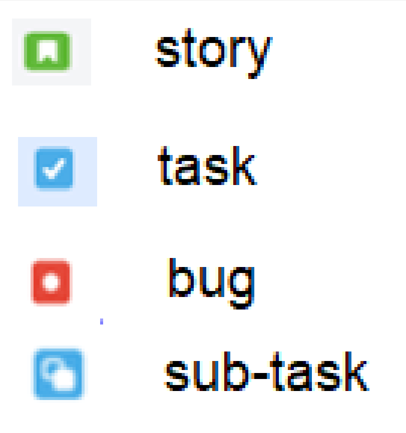
Demo 2: Create your own site & Project in JIRA

JIRA Issues
Managing Issues

- Edit: Used to modify issue details.

- Summary: The issue name and short description.

- Issue Type : displays all the types of issues that can be created and tracked via JIRA – Epic, story, task, sub-task, bug.



story

task

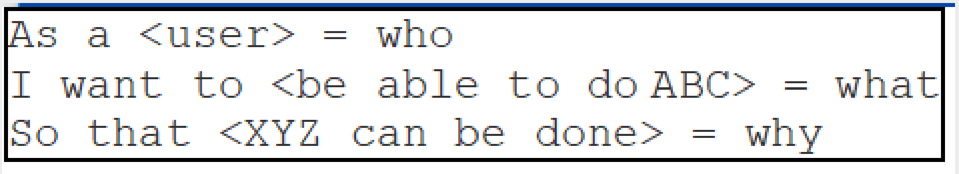
bug

sub-task

JIRA Issues

Managing Issues (Continue…)

- Epic and story are more relevant to the agile projects.
- An Epic is a group of stories.
- A Story or user story is a software system requirement that is expressed in a few short sentences, ideally using non-technical language
  - Non-technical language, Story expresses user needs using the syntax below
  - User Story Syntax (not mandatory but preferred) :



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As a <user> = who
I want to <be able to do ABC> = what
So that <XYZ can be done> = why
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- A Task represents a technical activity
- A sub-task is sub-set of a parent issue.

Examples of Epic & Stories

Project Name: Product Order System

Issue Type	Summary
Epic 1	As a user, I should be able to back up my entire hard drive.
Story 1	As a power user, I can specify files or folders to backup based on file size, date created and date modified.
Story 2	As a power user, I can indicate folders not to backup so that my backup drive isn't filled up with things I don't need saved.

Examples of Epic & Stories (contd..)

Project Name: Product Order System

Issue Type	Summary
Epic 2	Develop this software any way you'd like as long as you achieve 100,000 concurrent users.
Story 1	As a customer, I want to access your application on all versions of Windows from Windows 95 on.
Story 2	As the CTO, I want the system to use our existing orders database rather than create a new one, so that we don't have one more database to maintain.
Story 3	As the Customer, I want the site to be available 99.999 percent of the time I try to access it, so that I don't get frustrated and find another site to use.

JIRA Issues

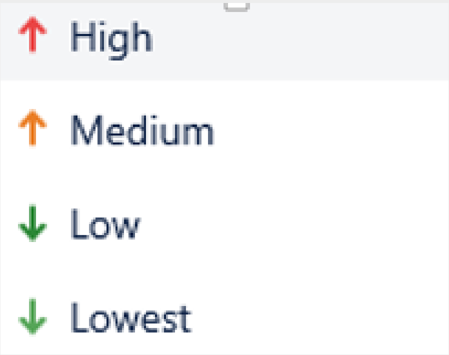
Managing Issues (Continue…)

- Component : displays the components of the project. Choose appropriately
- Description: This is an optional text field that aids you to enter as much information as you would like about your issue. In case of a bug, it is typical to use this field to give in a detailed information about the steps to reproduce the defect. It is of utmost importance to give all the information.
- Attachment: Any supporting document can be uploaded with an issue.
- Assignee: You can type the name of the person to whom this issue should be handed over further. You can also assign an issue to yourself.

JIRA Issues

Managing Issues (Continue…)

- Priority : The priorities and their symbolic representations in JIRA are as below :



- Linked Issues : allows you to logically link issues with one another and establish relationships/dependencies.

- Labels : You can categorize issues using labels. For example, all the issues raised to track peer review comments can be labelled “peer review” to view and track them easily.

JIRA Issues

Creating sub-tasks

- A sub-task is nothing but a division of a parent issue into chunks of work that can be assigned and tracked individually.
- You cannot create a sub-Task from the 'Create Issue' button
- Example : consider the task of Test documentation. Test documentation itself is an activity that might take a week to finish. Say, it involves : Test plan documentation which takes 2 days; Test case documentation – 2 days; Test plan review – ½ day and Test case review – 1 day. Also, assume that there are 2 resources.
- In this case, we can create a JIRA issue type task for "Test documentation" and have the following four subtasks under it:
  - Test plan documentation – assigned to resource 1
  - Test case documentation – assigned to resource 2
  - Test plan review- assigned to resource 2
  - Test case review- assigned to resource 1

Examples of Tasks & Sub-tasks

Project Name: Product Order System

Issue Type	Summary
Epic 1	Browse Product Catalog
Story 1	As a customer, I want to filter the product catalog by product attributes such as price, range, brand, colour, size etc. so that I can make a correct purchase decision.
Task 1	Evaluate 3rd party library XXX
Task 2	Develop high level Interaction for browsing product catalog

Examples of Tasks & Sub-tasks (contd..)

Project Name: Product Order System

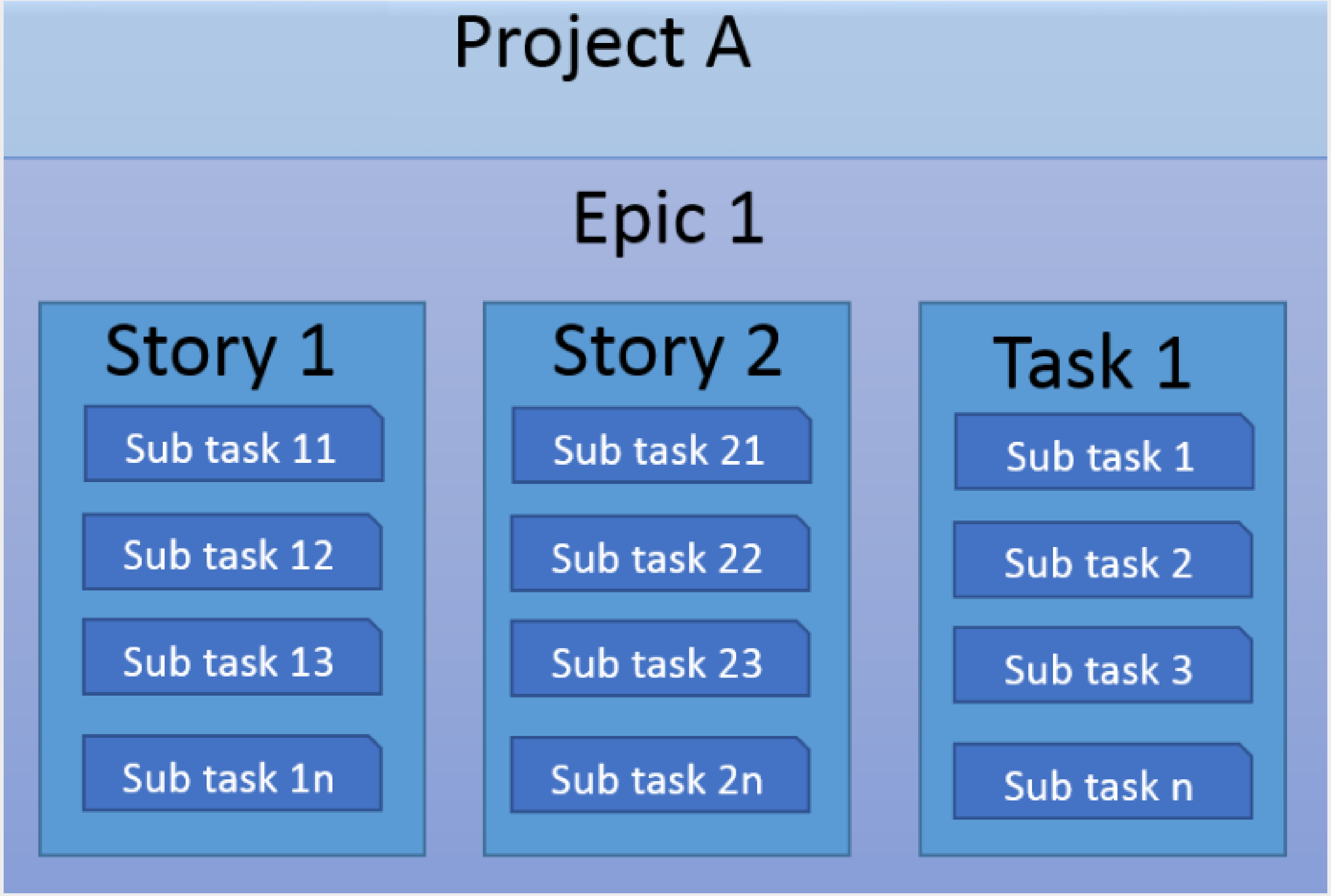
Issue Type	Summary
Epic 2	As a customer, I should be able to maintain wishlist
Task 1	As a customer, I want to save a product in my wishlist so that I can view it again later
Sub-task 1	Put ‘Add to wishlist’ button on each product page.
Sub-task 2	create a new db to store wishlist items.

Examples of Tasks & Sub-tasks (contd..)

Project Name: Product Order System

Issue Type	Summary
Epic 2	As a customer, I should be able to maintain wishlist
Story 1	As a customer, I want to view my wishlist so that I can buy items from it.
Sub-task 1	Create a page to display user’s wishlist
Sub-task 2	Add ‘view wishlist’ link to home page

Issue Hierarchy in JIRA



Examples of Bugs

Project Name: Product Order System

Issue Type	Summary
Bug 1	It is found that the application is not accessible on firefox browser i.e. below version 40.
Bug 2	It is found that the product cannot be searched using the keyboard.
Bug 3	It is found that there is no ‘view wishlist’ link on the homepage of the application
Bug 4	It is found that very often the performance of the application slows down between 10 pm to 2 am
Bug 5	It is found that the button ‘Add to wishlist’ is mistyped as ‘create wishlist’

1.4: Introduction to GO

Demo

Demo 3: Managing an Issue in JIRA

- 3.1 Create Issue
- 3.2 Delete an Issue
- 3.3 Create a sub-task

2.2: Agile Project

JIRA Agile Project

Agile Projects:

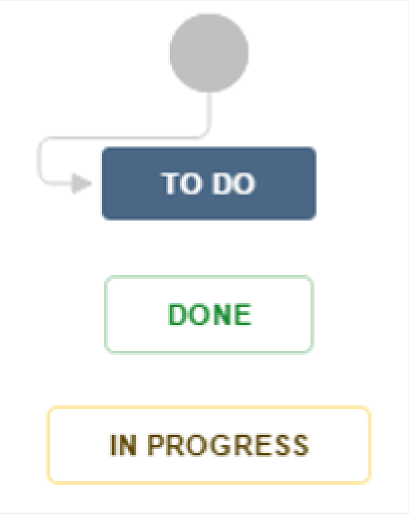
- Requirements are created and grouped together in Product Backlog
- Product Backlog is prioritized according to business importance
- Product Backlog items are assigned to **Sprints** which are 2-4 week duration

- JIRA supports all above activities followed by Agile Methodology

2.1: Workflow to JIRA

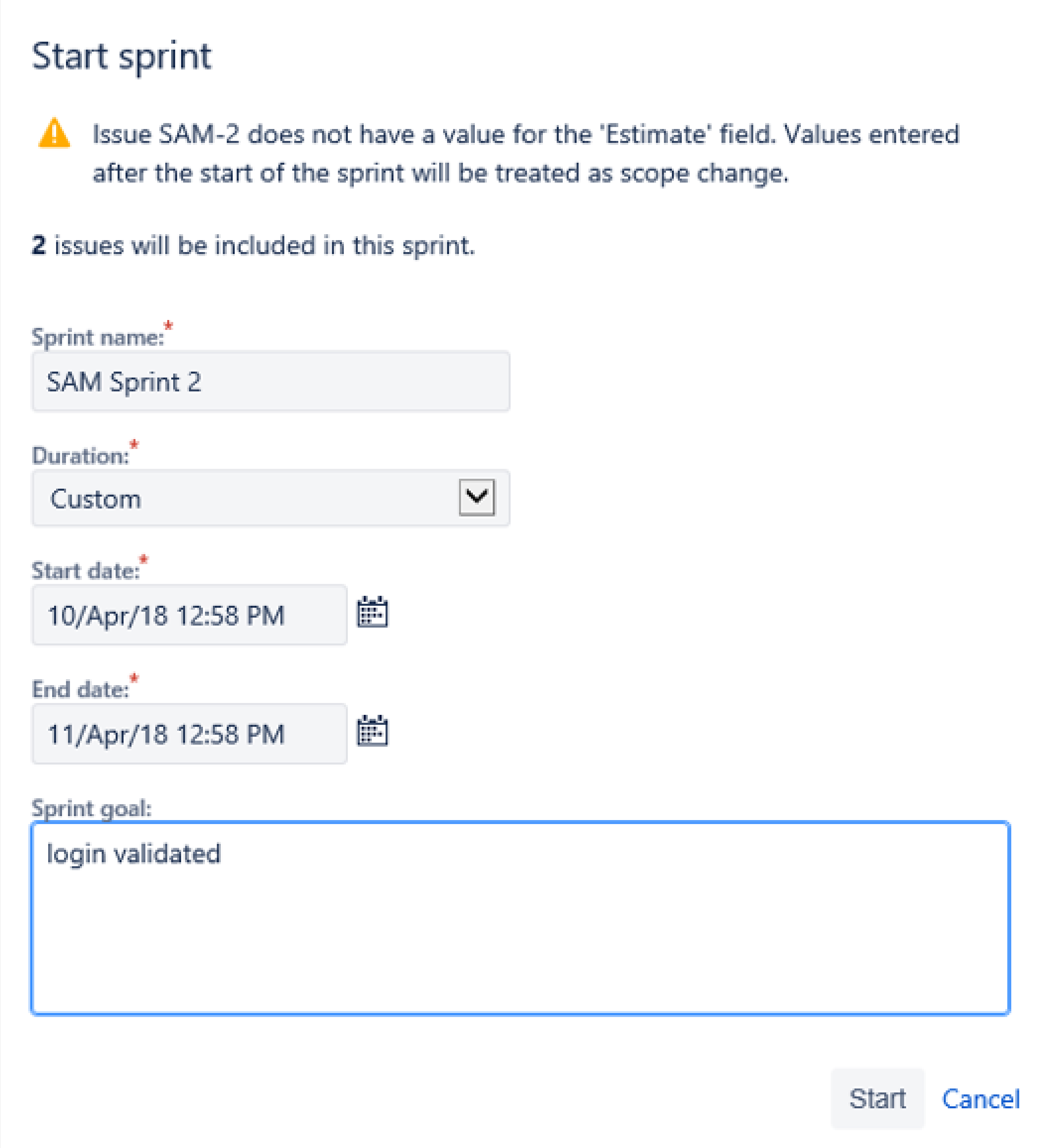
Sprints in JIRA

- JIRA Issues can move through different states of workflow in a Sprint
- On creating issue, its status is always “To Do”
- It can go through “In Progress” and “Done”



2.1: Workflow to JIRA

Sprint Attributes



Start sprint

⚠ Issue SAM-2 does not have a value for the 'Estimate' field. Values entered after the start of the sprint will be treated as scope change.

2 issues will be included in this sprint.

Sprint name:*
SAM Sprint 2

Duration:*
Custom

Start date:*
10/Apr/18 12:58 PM

End date:*
11/Apr/18 12:58 PM

Sprint goal:
login validated

Demo

Demo 4: Managing Sprints in JIRA

- 4.1 Create Sprint
- 4.2 Start Sprint

2.3: JIRA Administration

Administrative tasks

- Administration -> Issues -> Add Issues
- Here we can create custom Issues

- Administration -> Issues -> Workflow
- Here we can create our own workflow

- Administration -> Projects -> Components
- Here we can create new project components

Reports

- JIRA comes with a robust reporting feature. There are many kinds of reports that it facilitates :
  - Agile Reports - Burndown Chart, Sprint Report, Version Report, Epic report.
  - Issue Analysis Reports – Created vs. Resolved Issue Report, Recently Created Issue Report.
  - Forecast & Management – Time Tracking report, User workload report, Version workload report.

- Browse through a project whose details you would want to get a report of and go to the “Reports” tab. Here you will see a list of all the reports that are present. Choose the report and set the data criteria and you will have a custom made the report in hand within no time.

Lab

Issues Lab

Summary

- Creating and Managing Issues
- Creating Sprints and tracking the Workflow progress – move issues through different status

Review Question

Question 1 : Which of the following is not an administrative task?

- Option 1: Creating Version
- Option 2: Creating Component
- Option 3: Create Issue type

Question 2: Velocity chart shows the amount of work left to be done.

- True/False

Question 3: Fill in the Blanks:

The sequence of status of an issue workflow is __________, __________ and ________.