



## How Companies Use JIRA for Project Development?

# Contents

- Understand JIRA
- Work on Scrum / Sprints
- EPIC / STORY / TASK with LIVE Project
- Test case management with Zephyr
- Reporting and Test Estimation
- Scrum Framework
- JIRA Interview Questions and Answers.

# What is JIRA?

1. JIRA is an issue Tracking Product.
2. Developed by Atlassian.
3. Jira was designed as a bug and issue tracker.
4. Allow to bug tracking and Agile Project management.
5. Jira has evolved into a powerful work management tool for all kinds of use cases, from requirements and test case management to agile software development.

# Why JIRA is Used?

- ✓ Issue tracking
- ✓ Customizable workflows
- ✓ Estimation & work logging
- ✓ Progress reports
- ✓ Scrum boards
- ✓ Kanban boards
- ✓ Project- level permissions
- ✓ Project backlogs
- ✓ Email notifications

# Jira for project management teams

- ✓ Issue tracking
- ✓ Customizable workflows
- ✓ Estimation & work logging
- ✓ Progress reports
- ✓ Scrum boards
- ✓ Kanban boards
- ✓ Project- level permissions
- ✓ Project backlogs
- ✓ Email notifications



Scrum



Kanban



Issue  
Tracking



Metrics



Waterfall



Code  
Versioning



Code  
Review



Continuous  
Integration



Documents  
& Deliveries



Test  
Management

Jira software

Additional  
Addon

BitBucket  
FishEye

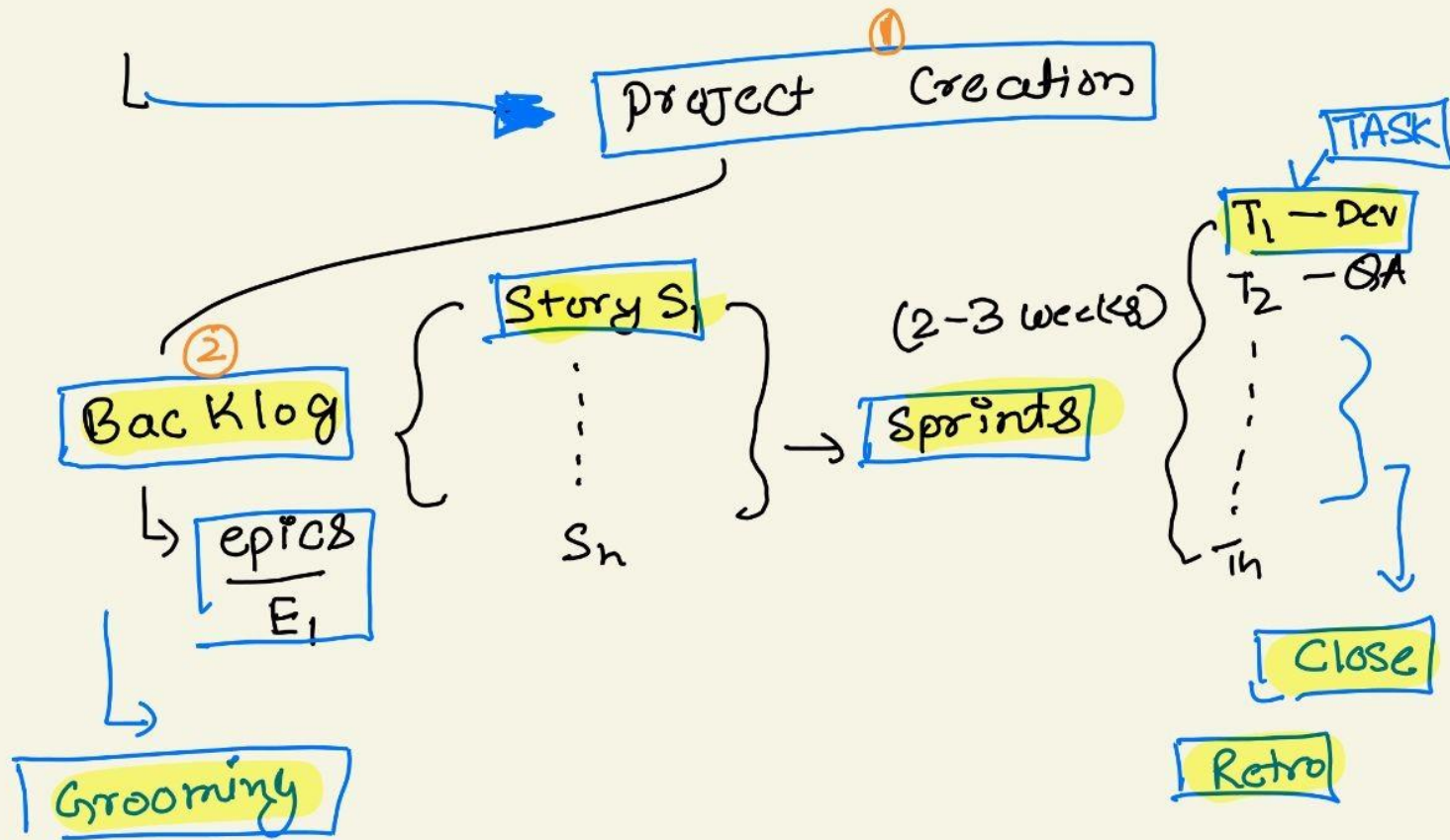
Crucible

Bamboo

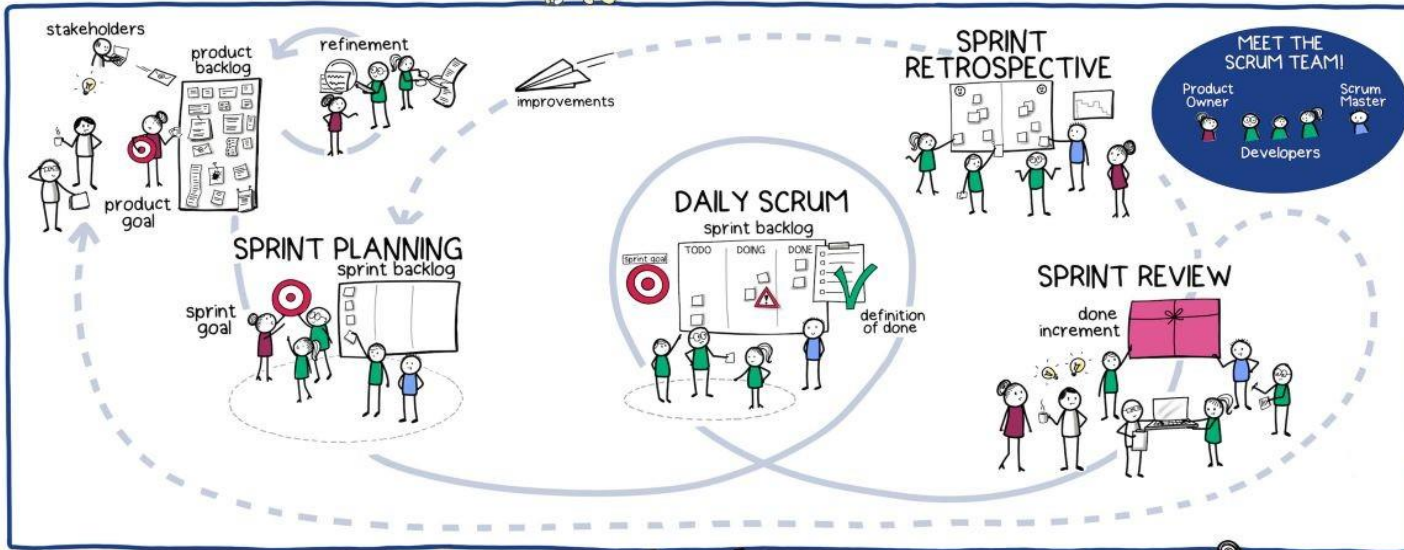
Confluence

# JIRA Vs Bugzilla

Properties	JIRA	Bugzilla
<b>Built by</b>	Atlassian	Mozilla
<b>Drag-and-drop feature</b>	Available	Not available
<b>Real-time tracking</b>	Available	Not available
<b>License</b>	Commercial	Open Source
<b>Attachments</b>	Mutiple files can be added	Only one file can be added
<b>Size limit for file attachment</b>	10 Mb	1Mb
<b>Ease of Use</b>	Interactive interface	Simple
<b>Programming language</b>	Java	Perl
<b>Kanban support</b>	Yes	No
<b>Hlerarchical Issues</b>	Yes	No
<b>Key Features</b>	Project & Issue tracking	Issue Management







commitment  
focus  
respect  
courage  
openness

## VALUES

## COMMITMENTS

Product Goal Sprint Goal Definition of Done

## EMPIRICISM

transparency  
inspection  
adaptation

# Install & Configure JIRA TOOL

Local install

AS  
Server

- ✗ Complex process
- ✓ Good for privacy

AS a SAAS

↓  
30 day FREE  
of 10 users/-

↓  
MOST POPULAR

Kanban	Scrum
Roles are fluid. Project manager optional.	Roles are predefined. Scrum master required.
Tasks are shared by everyone.	Tasks have assigned owners.
Timelines evolve on an as-needed basis.	Timelines are timeboxed into sprints.
Changes can be made mid-stream, allowing for iterations before completion of a project.	Changes can only be made upon completion of a sprint.
Productivity is measured by the cycle time of the complete project.	Productivity is measured by the number of story points completed in each sprint.

## Steps to work on JIRA

1. How to add user to JIRA
2. How to create project
3. Gathering Req. → Create Backlog
4. EPIC → Story → TASK
5. Story Point (man hour)
6. Sprint creation
7. Add user to Sprint, Sprint Closure.

jira.teamsinspace.com

Teams in Space

Software project

Q

+

Backlog

Board

Reports

Releases

Components

Issues

Repository

Add item

Settings

?

Board

Release ...

Quick Filters

TO DO 5

Engage Jupiter Express for outer solar system travel

SPACE TRAVEL PARTNERS

5

TIS-25

Create 90 day plans for all departments in the Mars Office

LOCAL MARS OFFICE

9

TIS-12

Engage Saturn's Rings Resort as a preferred provider

SPACE TRAVEL PARTNERS

3

TIS-17

Enable Speedy SpaceCraft as the preferred

SPACE TRAVEL PARTNERS

IN PROGRESS 5

Requesting available flights is now taking > 5 seconds

SEESPACEEZ PLUS

3

TIS-8

Engage Saturn Shuttle Lines for group tours

SPACE TRAVEL PARTNERS

4

TIS-15

Establish a catering vendor to provide meal service

LOCAL MARS OFFICE

4

TIS-15

Engage Saturn Shuttle Lines for group tours

SPACE TRAVEL PARTNERS

CODE REVIEW 2

Register with the Mars Ministry of Revenue

LOCAL MARS OFFICE

3

TIS-11

Draft network plan for Mars Office

LOCAL MARS OFFICE

3

TIS-15

DONE 8

Homepage footer uses an inline style - should use a class

LARGE TEAM SUPPORT

TIS-68

Engage JetShuttle SpaceWays for travel

SPACE TRAVEL PARTNERS

5

TIS-23

Engage Saturn Shuttle Lines for group tours

SPACE TRAVEL PARTNERS

TIS-15

Establish a catering vendor to provide meal service

LOCAL MARS OFFICE

→ VERSION / EPIC

→ Story points

→ Dev / QA task

→ Sprint execution

→ TMT →

- ① Test Case
- ② Test Cycle
- ③ update TC
- ④ Bugs Report

\* Import excel

→ Regression Cycle → x/

Issue = every  
object

→ Install  
Zephyr

→ ⑥ Test Summary  
⑤ execution



# How to Use Jira for Test Case Management

1. Jira Software was not designed to serve as a Test Case Management.
2. It can be configured to support test case management in a couple of different ways.
3. You can use one of the dozens of apps available in our Atlassian Marketplace.
  - Zephyr
  - TMT

<https://marketplace.atlassian.com/categories/test-management>

# TEST MANAGEMENT TOOL

we have a test management tool

- Manage test case
- Manage Req. & traceability
- execution of test
- Test Reports & Graphs
- Release Management
- Keeping defect + TC side  
By side.

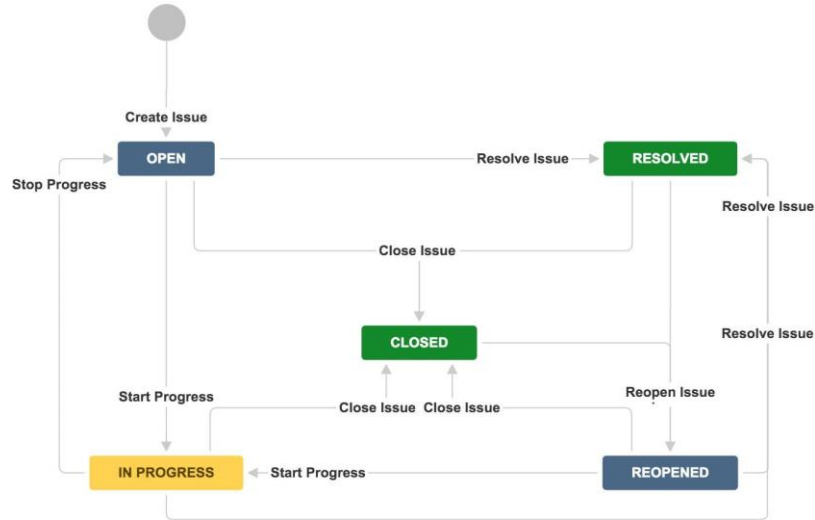


# What is WorkFlow in JIRA?



The path that your issues take is called a workflow.

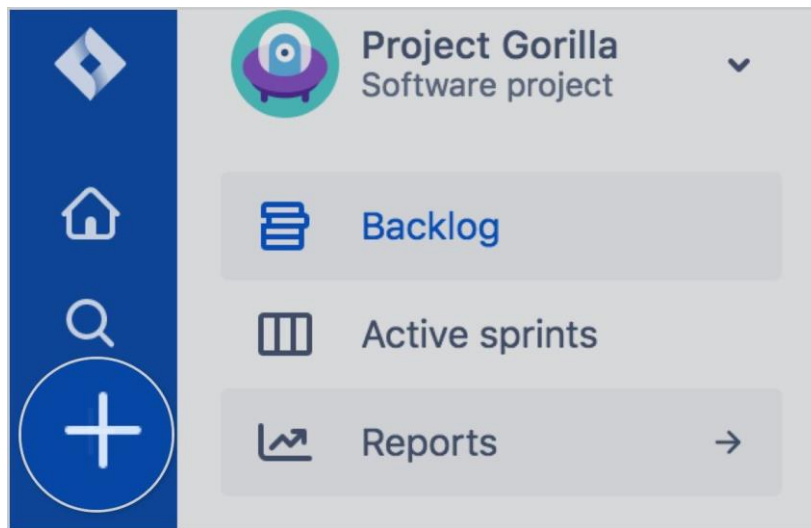
Jira workflow is composed of a set of statuses and transitions that your issue moves through during its lifecycle, and typically represents work processes within your organization.



# What is an Issue in JIRA?



- Teams use issues to track individual pieces of work that must be completed.
- an issue could represent a project task, a helpdesk ticket, a leave request form,



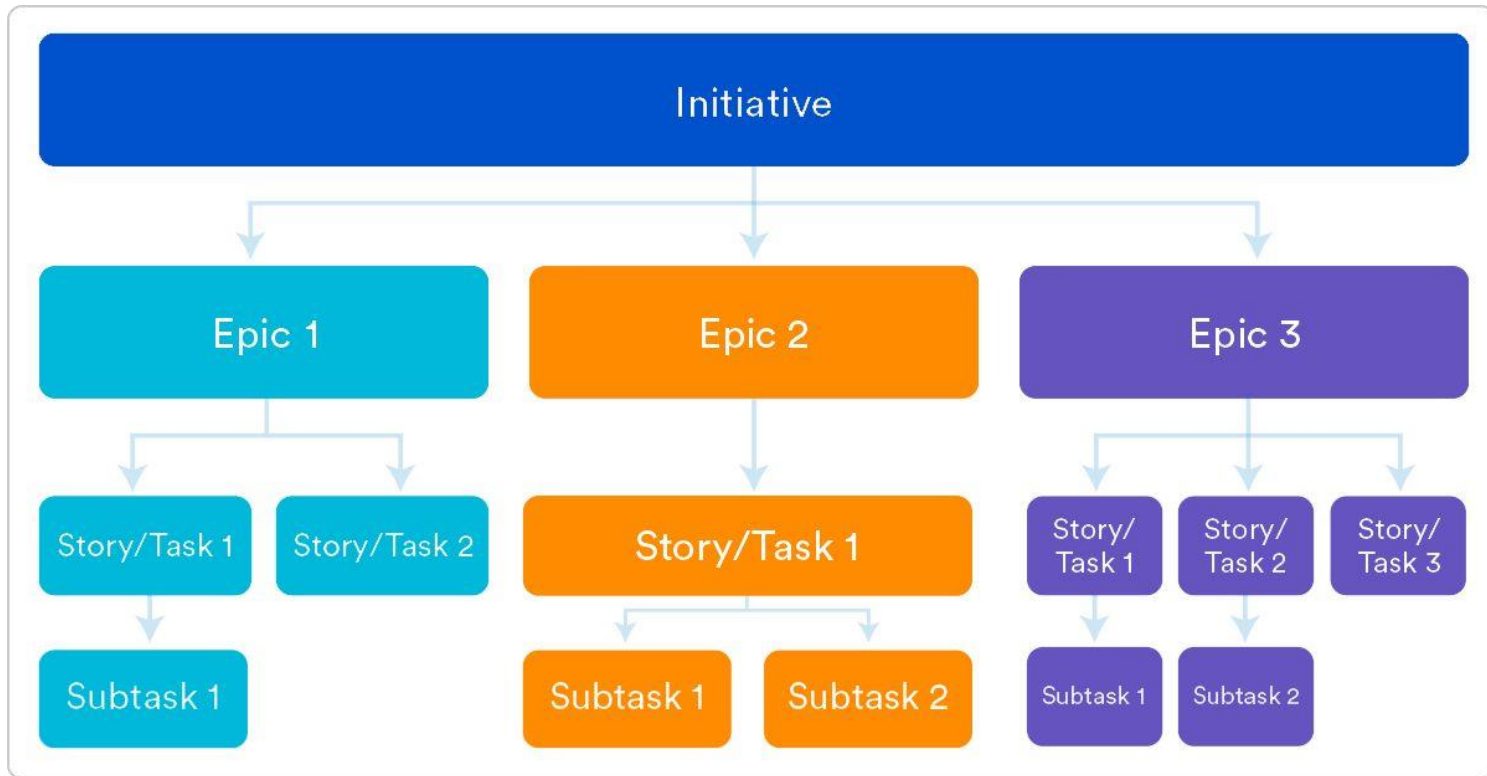
# What is Epic?



- Epic is a body of work that can be broken down into specific tasks (called user stories) based on the needs/requests of customers or end users.

<b>Epic: March 2050 Launch</b>		
Story: Update date range to include March 2050 Launch dates.	Story: Reduce load time for requested flight listings to < 0.45 seconds	Story: Promote Saturn Summer Sale on confirm page for First Class bookings.

# What is Epic?



# What is Story?



- A user story is an informal, general explanation of a software feature written from the perspective of the end user or customer.

<b>Epic: March 2050 Launch</b>		
Story: Update date range to include March 2050 Launch dates.	Story: Reduce load time for requested flight listings to < 0.45 seconds	Story: Promote Saturn Summer Sale on confirm page for First Class bookings.

# What is Task and SubTask?



- Action Item, Further breakdown of Task is Subtask.

The screenshot displays a Jira issue page for a project named 'SAMPProject'. The issue is titled 'As a developer, I can update story and task status with drag and drop (click the triangle at show sub-tasks)' and is identified by the key 'SAMPPRJ-10'. The issue is currently in the 'IN PROGRESS' status. The left sidebar shows the project navigation menu with 'Issues' selected. The main content area includes fields for Type (Story), Priority (Medium), Affects Version/s (None), Labels (None), and Sprint (Sample Sprint 2). Below these fields is the 'Description' section with a placeholder 'Click to add description'. The 'Attachments' section shows a prompt to 'Drop files to attach, or browse.'. The 'Sub-tasks' section lists two tasks: '1. Update task status by dragging and dropping from column to column >> Try dragging this task to "Done"' and '2. When the last task is done, the story can be automatically closed >> Drag this task to "Done" too'. Both sub-tasks are currently in the 'IN PROGRESS' status.

SAMPProject  
Software project

SAMPPRJ-10 ← Parent issue Number

As a developer, I can update story and task status with drag and drop (click the triangle at show sub-tasks)

Edit Comment Assign To Do In Progress Done Admin

Type: Story Status: IN PROGRESS (View workflow)  
Priority: Medium Resolution: Unresolved  
Affects Version/s: None Fix Version/s: Version 2.0  
Labels: None  
Sprint: Sample Sprint 2

**Description**  
Click to add description

**Attachments**  
Drop files to attach, or browse.

**Sub-tasks**

1. Update task status by dragging and dropping from column to column >> Try dragging this task to "Done" IN PROGRESS
2. When the last task is done, the story can be automatically closed >> Drag this task to "Done" too IN PROGRESS Unassigned

# What is Time Tracking in JIRA



- Time tracking lets your team record the time they spend working on issues. It's enabled by default in Jira; you won't lose any existing data if you disable or re-enable it.

A screenshot of a Jira issue page for 'SMS-1'. The issue title is 'Add app alert for changed weather events'. The description reads: 'As a user I want to know when bad weather is approaching so I can cover or protect my solar panels.' The 'Scope/requirements' section lists: 'Software change only', 'Third party weather tracking API', 'Does not include app alert development', and 'Provide product &amp; app store release notes'. There are attachments, including a weather map and a document. On the right sidebar, the 'STATUS' is 'In Progress'. The 'ASSIGNEE' is 'Unassigned'. The 'REPORTER' is 'Dan K'. The 'TIME TRACKING' section shows a progress bar with a clock icon, indicating '3d 5h 30m logged' out of a total of '6h'. A blue circle with the number '1' points to the time tracking progress bar. Below this, the 'DEVELOPMENT' section has a '+ Create branch' button. The 'LABELS' section shows 'c-model' and 'damage-control'. The 'EPIC LINK' is 'None'.

# What is Time Tracking in JIRA



- Time tracking lets your team record the time they spend working on issues. It's enabled by default in Jira; you won't lose any existing data if you disable or re-enable it.

A screenshot of a Jira issue page for 'SMS-1'. The issue title is 'Add app alert for changed weather events'. The description reads: 'As a user I want to know when bad weather is approaching so I can cover or protect my solar panels.' The 'Scope/requirements' section lists: 'Software change only', 'Third party weather tracking API', 'Does not include app alert development', and 'Provide product &amp; app store release notes'. There are attachments, including a weather map and a document. On the right sidebar, the 'STATUS' is 'In Progress'. The 'ASSIGNEE' is 'Unassigned'. The 'REPORTER' is 'Dan K'. The 'TIME TRACKING' section shows a progress bar with a clock icon, indicating '3d 5h 30m logged' out of a total of '6h'. A blue circle with the number '1' points to the time tracking progress bar. Below this, the 'DEVELOPMENT' section has a '+ Create branch' button. The 'LABELS' section shows 'c-model' and 'damage-control'. The 'EPIC LINK' is 'None'.



# What is Kanban Board?



- A kanban board is an agile project management tool designed to help visualize work, limit work-in-progress, and maximize efficiency (or flow)

SMART board

## Kanban board

Release ▾ ...

Quick filters ▾ Assignee ▾

SELECTED FOR DEVELOPMENT 2    IN PROGRESS 10    DONE 15

▼ Expedite 3 issues

Add app alert for changed weather events 111

SMART-17

Invert every graviton attractor

SMART-16

Investigate power outages

SMART-10

▼ Everything Else 24 issues

Account for antimatter modulator

SMART-15

Run full diagnostic on B-model power arrays

SMART-5

SMART-3 Push notifications documentation updates

Update documentation and push through channels

SMART-29

SMART-6 Low-power indicator optimisation on mod...

Draw up new schematics for power indicator panel

SMART-19

Build the solar panel

SMART-12

Recalibrate the semi-coherent anomaly in preparation to fluctuate our tachyon catalyst

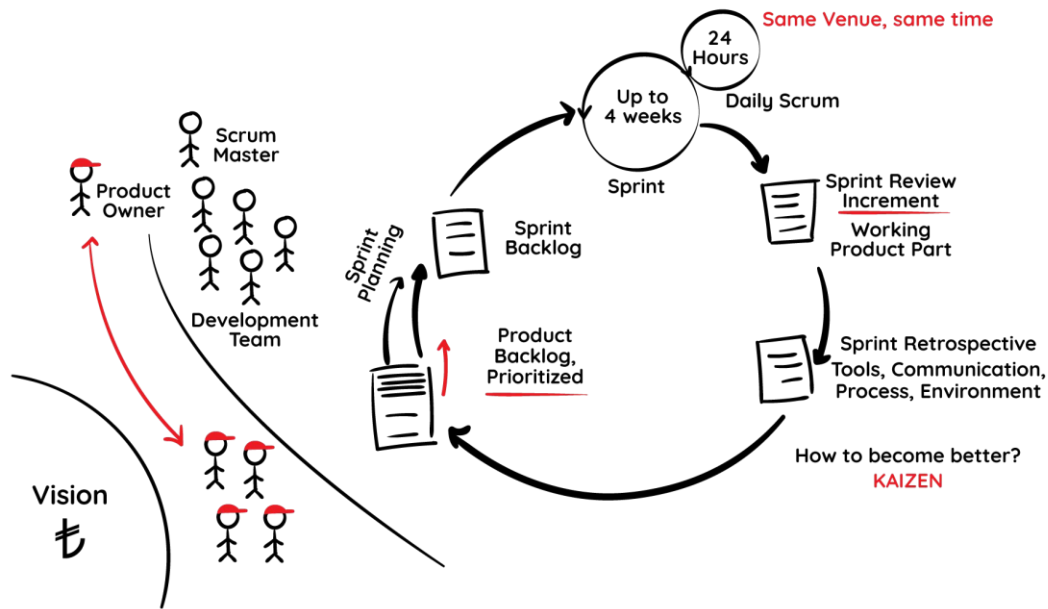
SMART-43

Hello world!

SMART-44

# What is Scrum?

- Scrum is a framework within which people can address complex adaptive problems, while productively and creatively delivering products of the highest possible.



# Issues Types



<https://confluence.atlassian.com/adminjiracloud/issue-types-844500742.html>