LTI
Let's Solve

Celebrating 20 Years

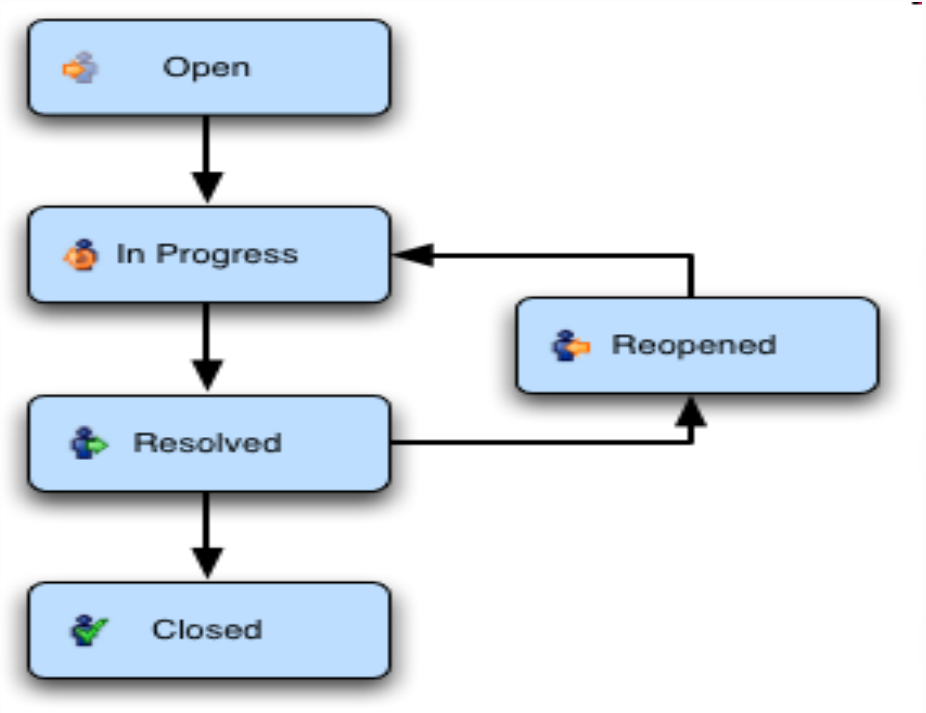
ATLASSIAN JIRA

Larsen & Toubro
Group Company

What is JIRA?

- JIRA lets you prioritize, assign, track, reportand audityour ‘issues’, from software bugs and helpdesk tickets to project tasks and change requests
- More than just an issue tracker, JIRA is an extensible platformthat you can customize to match your business processes
- JIRA improves productivity by cutting down on time wasted on tracking issues and coordination
- JIRA improves quality by ensuring all tasks are recorded down with all the details and followed up till completion

JIRA Concepts -Workflow

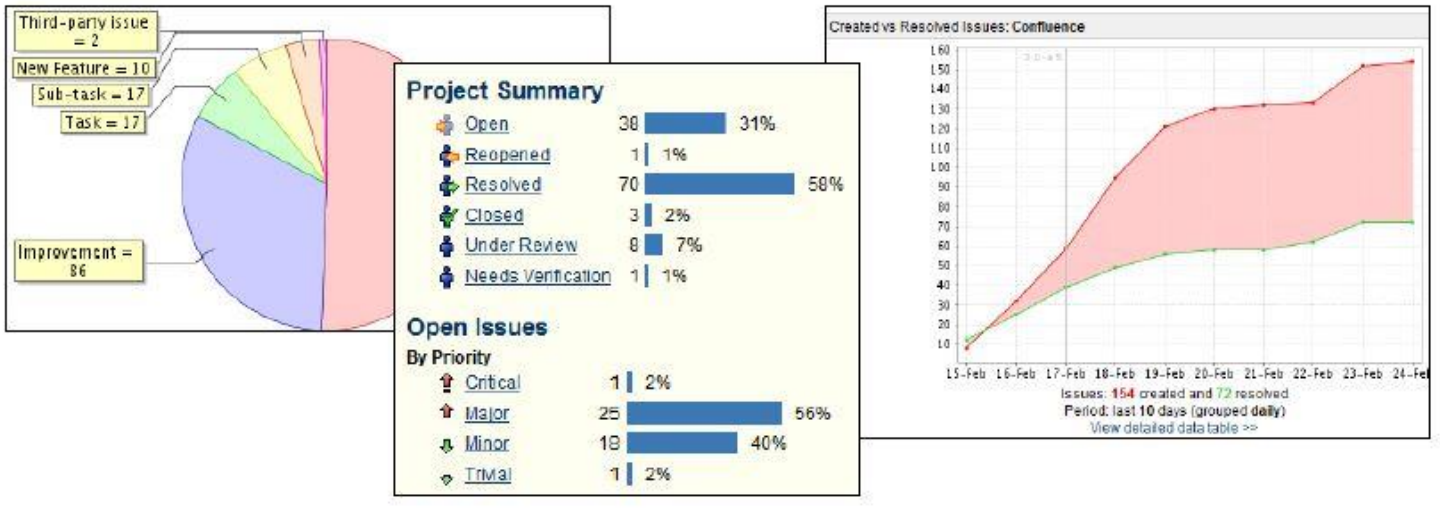


JIRA Features–Issue Creation

- Creating tasks, bug reports, feature requests, helpdesk tickets, is a breeze
- No need to transcribe issues from emails to Excel worksheet anymore
- Issue can be easily created via
  - Web: Filling the form on the Web page
  - Email: Sending an email to a preconfigured email address
- •Allows customizable items for different issues types

JIRA Features–Issue Creation

- JIRA delivers real-time, relevant information in a convenient format
- JIRA enables the management to have clear visibility of the situation



Jira Features–Others

- Secure–JIRA provides fine-grained enterprise level security
- Usable –Intuitive interface designed with both business and technical users in mind
- Track–Keep track of all activities, changes and work logged against issues
- Administration–A low maintenance system with straightforward administration capability
- Extensible–With over 100 pluginscontributed by the community
- Open –An open API, full source code access allow for further integration and customization of JIRA functionality

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Cucumber

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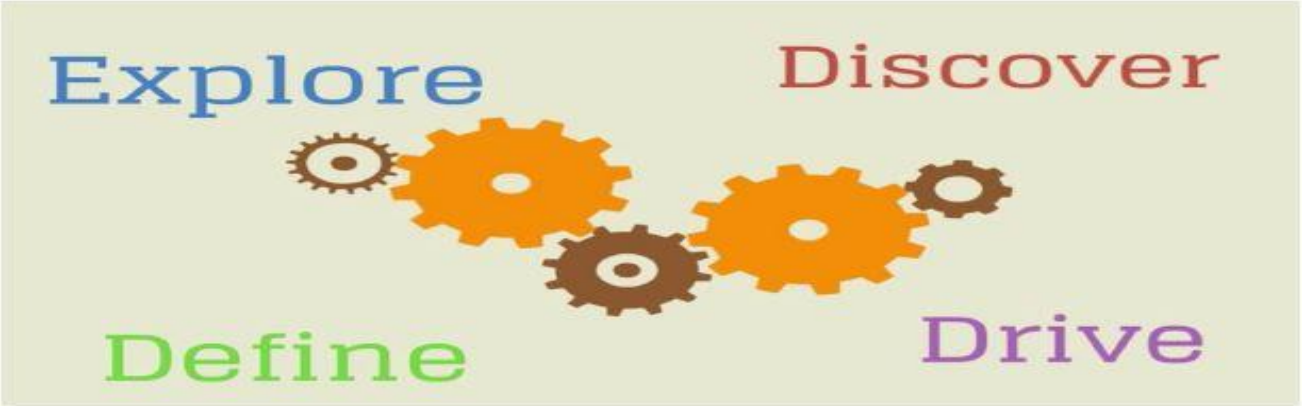
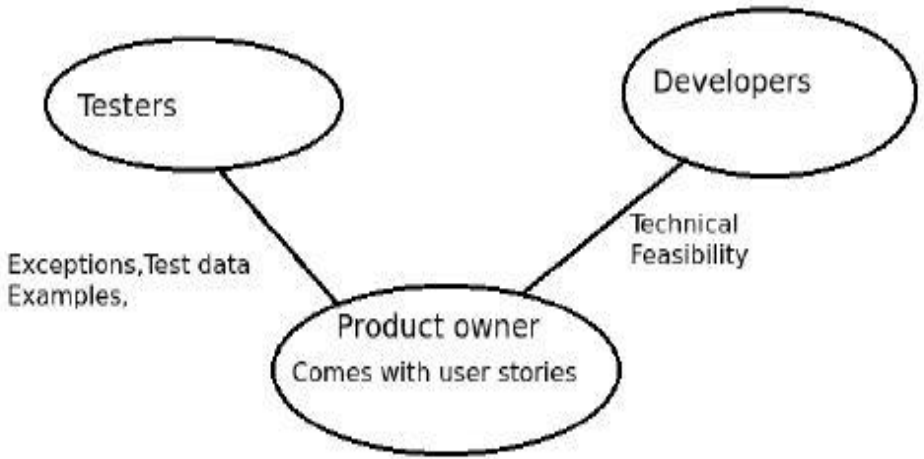
What is Behavior-Driven Development

- Behavior Driven development is the process of exploring, discovering, defining and driving the desired behavior of software system by using conversation, concrete examples and automated tests.
- – Using conversation and concrete examples to explore, discover and illustrate a shared understanding of the problem we need to solve for the stakeholders Then we refine those examples in automated tests, to describe the desired behaviour of our solution to drive the development of the system.



3 Amigos



Product Owner : Comes with user story with acceptance criteria at their own understanding.

Testers, QA, Bussiness Analyst : Ask questions with some exmaples to get better understanding about user story.

Developers : DIscuss the technichal feasilbilty, and challenges about user stories

What is Cucumber

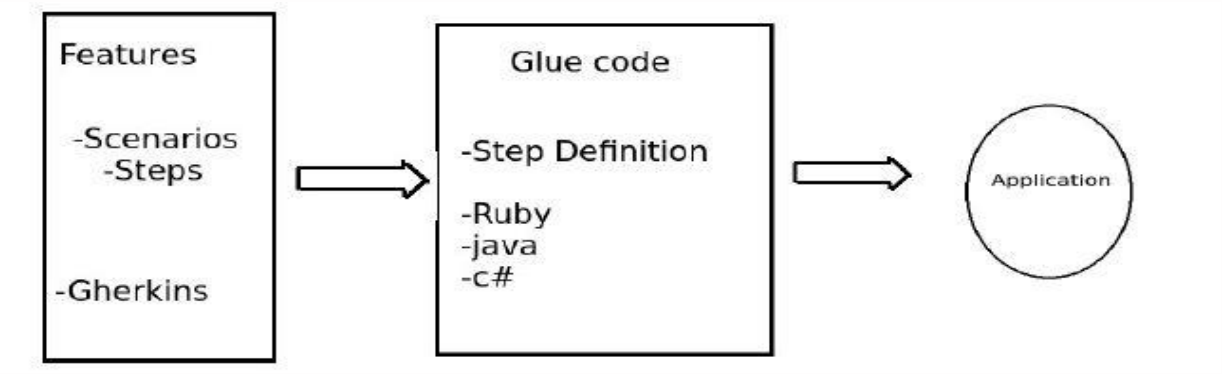
- Cucumber is a most widely open source tool for executable specifications.
- A single source of truth, merges specification and test documentation into one cohesive whole.
- Living documentation, All the specifications always up to date with cucumber automated acceptance tests.
- Product owner and IT don't always understand each other, so cucumber automated specification help to keep business value in mind all the time and encourage teams for closer collaboration with shared understanding of the system.
- Cucumber automated tests protect the teams from costly regressions.
- Cucumber is a way of taking features, which is the combination of scenarios written in plain English language using a simple grammar defined by a language called gherkins.

What is Cucumber

- Cucumber itself written in Ruby but supports other languages as well like java, scala, C# and many more..

- This feature is share with all the amigos involve in development, developers, tester, business analyst, product owner

What is Cucumber



- Glue code : glue code works as a bridge between ubiquitous language into your application that you want to develop, it translate English in your code.
  - The feature is made up with scenarios and steps, and each steps essentially map to the step definition.
  - These step could be written in your language of your choice.

What is Gherkins

- Gherkins is the language that cucumber understands, it is a bussiness Readable, domain specific language that lets you describe software behaviour with out detailing its implementation.
- Gherkins serves two purposes- Documentation and automated testes.
- Gherkin’s grammar is defined in the Treetop grammar that is part of the Cucumber codebase.
- Single Gherkin source file contains a description of a single feature.
- Source files have .feature extension.

Gherkins source File format

```
Feature: feature Name
  Description of feature wants by the product owner


  Scenario: scenario name
   description of the scenarios


    Given a certain context
    When something happens
    Then an outcome
    And something else
    But not this tough


  Scenario: Another scenario name
```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