

The 3 practices of BDD?



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Presented by



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Agenda

- | BDD at SmartBear with Cucumber team
- | BDD in action
- | Q&A



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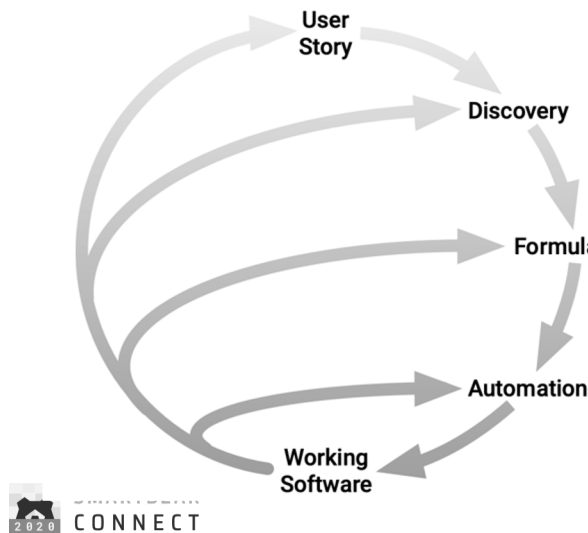
BDD at SmartBear



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Formulation, Automation and Discovery



| Create a shared understanding of the requirements through **collaboration**, typically achieved through a structured conversation centered on rules and examples

| Examples of system behaviour are documented using **business terminology**

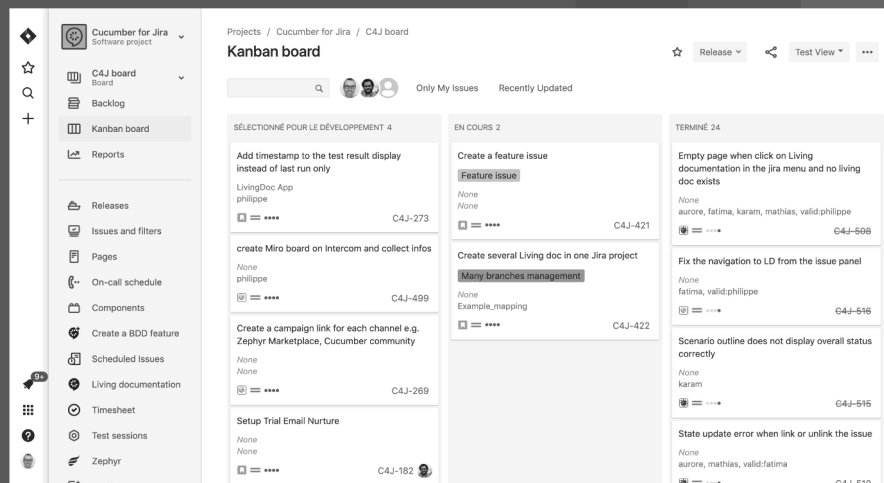
| The documentation is automated, creating **living documentation** that verifies the system's behaviour



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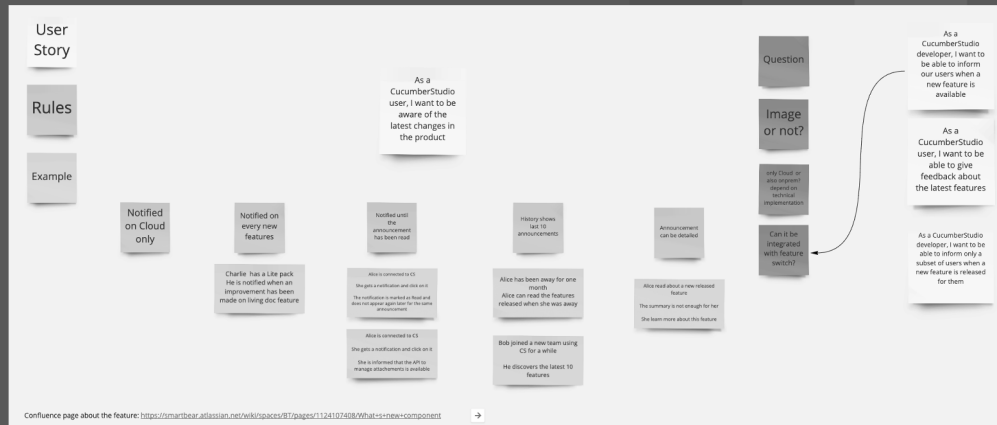
Start with our Jira Board



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Discovery With Example Mapping



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Formulation

Projects / Cucumber for Jira / C4J-381

Feature does not match feature in GitHub repository. Revert content

English

Download

Feature: Overall feature execution status

Rule: Use severity level to define the global feature status

Scenario: a failing scenario

When a feature has the following statuses:
scenario1 passed
scenario2 failed

Then the feature overall status should be failed

Scenario: all scenarios passed

When a feature has the following statuses:
scenario1 passed
scenario2 passed

Then the feature overall status should be passed

Scenario: a pending scenario

When a feature has the following statuses:
scenario1 passed
scenario2 pending
scenario3 skipped

Then the feature overall status should be pending

Scenario: a skipped scenario

When a feature has the following statuses:
scenario1 passed
scenario2 skipped

Then the feature overall status should be skipped

Living documentation

Collaborator

Open Collaborator Peer Review

Salesforce

Associations

Tempo

Open Tempo

CucumberStudio scenarios

Open CucumberStudio scenarios

Show 4 more fields

Story Points, Original Estimate, Components an...

Created December 6, 2019, 10:39 AM

Updated December 6, 2019, 10:40 AM

Configure



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Automation of Living documentation

The screenshot displays the 'Cucumber for Jira' project settings in SmartBear Connect. The left sidebar shows navigation options like 'C4J board', 'Backlog', 'Kanban board', 'Reports', 'Releases', 'Issues and filters', 'Pages', 'On-call schedule', 'Components', 'Create a BDD feature', 'Scheduled Issues', 'Living documentation', 'Timesheet', 'Test sessions', and 'Zephyr'. The main content area is titled 'Enabling and disabling feature content editor from project settings'. It includes a 'Description' field, a 'Linked issues' section with a link to 'G4J-289 Add settings to enable/disable Zephyr manually', and a 'Cucumber' section with a 'Feature content' dropdown. A table shows the execution status of various scenarios:

Scenario name	Execution status
Display feature content editor	PASSED
Do not display feature content editor	PASSED
Do not display Zephyr option in project settings when Zephyr is not installed	PASSED

Additional settings on the right include 'Assignee' (Unassigned), 'Labels' (BDD_Feature), 'Fix versions' (None), 'Reporter' (Fatima Ezzahra IDRISI), 'Priority' (Normal), 'Collaborator' (Open Collaborator Peer Review), 'Salesforce' (Associations), 'Tempo' (Open Tempo), and 'Open Tempo'.



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Automation of Living documentation

The screenshot displays the 'Feature: Overall feature execution status' in SmartBear Connect. The left sidebar is identical to the previous slide. The main content area shows a 'Rule: Use severity level to define the global feature status'. It includes three scenarios:

- Scenario: a failing scenario**
 - When a feature has the following statuses:

scenarios	status
scenario1	passed
scenario2	failed
 - Then the feature overall status should be failed
- Scenario: all scenarios passed**
 - When a feature has the following statuses:

scenarios	status
scenario1	passed
scenario2	passed
 - Then the feature overall status should be passed
- Scenario: a pending scenario**
 - When a feature has the following statuses:

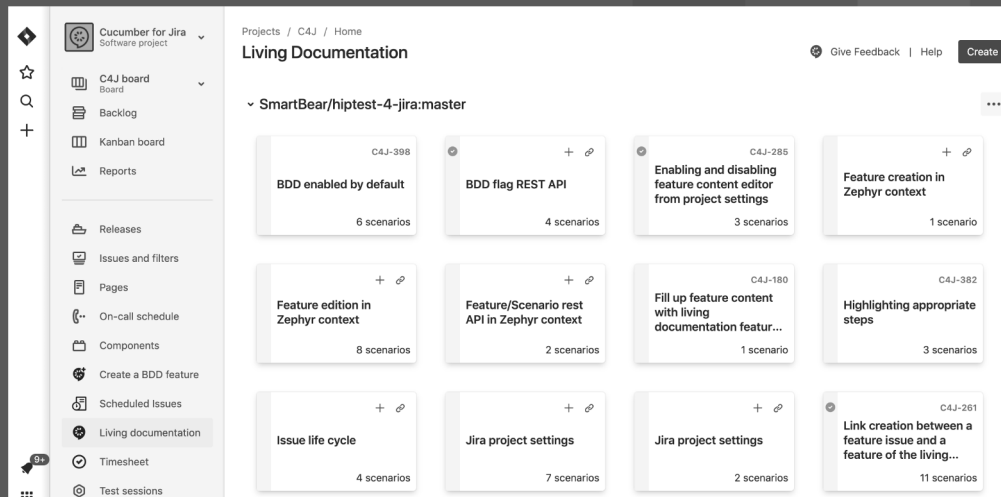
Each scenario has a 'LAST RUN' section showing 'Status: PASSED' and 'Duration:'.



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Navigate the Living documentation



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Operational model

- 4 Independent micro teams, no testers
- No gatekeeper between developers and production
- Driven by OKR
- Using BDD and TDD to drive development (100% of automation)
- 5/10 deployments/day
- Insight from production

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Definition of done

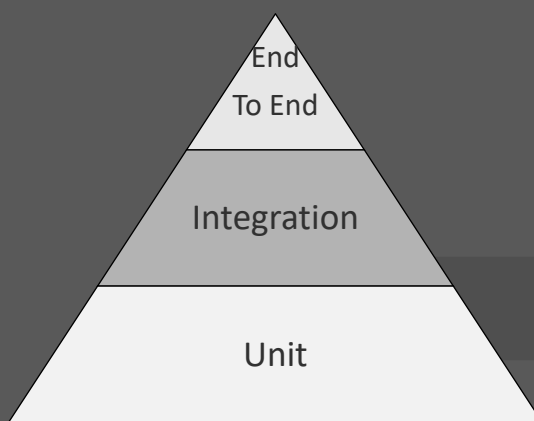
- Acceptance tests (all automated)
- Unit test
- Refactoring legacy code
- Implementation of the behavior
- Integration tests
- Exploratory testing done
- Deployed in production



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Technical discipline



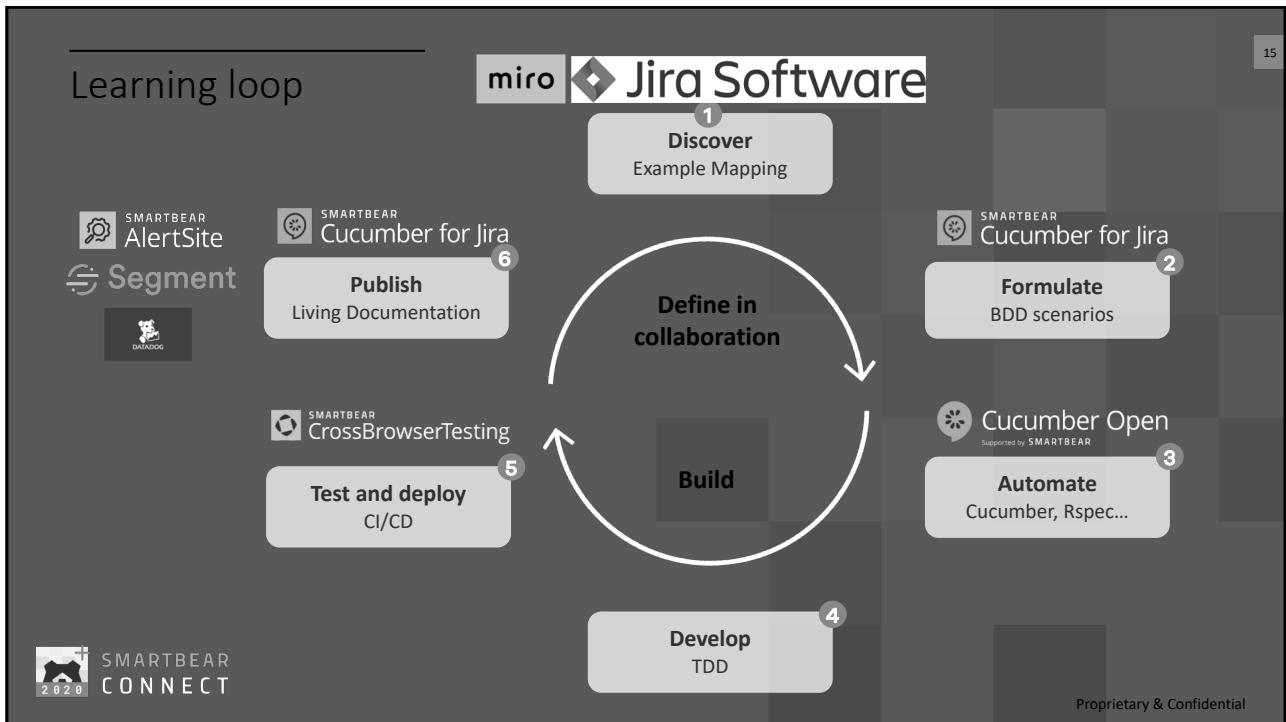
- 235 End To End
- 424 FrontEnd acceptance tests
- 481 FrontEnd integration tests
- 878 FrontEnd Unit tests
- 5824 Backend tests



cucumber

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Resources

- Kick Start and Scale Behavior Driven Development
| <https://cucumber.io/resources/ebooks/kick-start-and-scale-behavior-driven-development/>
- BDD is not test automation
| <https://cucumber.io/blog/bdd/bdd-is-not-test-automation/>
- Introduction to example mapping
| <https://cucumber.io/blog/bdd/example-mapping-introduction/>
- Who writes the scenarios?
| <https://cucumber.io/blog/bdd/who-writes-the-cucumber-scenarios/>

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BDD in action: the ToDo list


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Thank You

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