



Spring Boot Microservices

Beginner to Guru

Retrospective



Agile Software Development

- Agile Software Development is an iterative development process
 - Software is developed in small increments
 - Widely adopted by companies
 - Often poorly!
- Agile is a VERY large topic!
 - Only touching on the surface in this lecture
 - MUCH more complex than this discussion!



SCRUM

- SCRUM is a process framework
 - Tasks are planned into a backlog
 - Tasks are planned into a “Sprint”
- A Sprint is typically a 2 - 4 week period of work for 5 to 9 people
 - Length and team size are highly debated
- At the end of a Sprint, a Retrospective is held
 - Purpose is to reflect and improve for next iteration



A Typical Sprint Retrospective Model

What worked well?

What could be improved?

What will we commit to doing in the next Sprint?

*Scrum Team members
make actionable
commitments*





What Worked Well?

- Planning Issues in GitHub
 - Allows better visibility of what source code was changed
- Having CI Builds to catch problems
 - 3 failures detected



What Could be Improved?

- Ideally should not have had 3 build failures
 - Testing is VERY light
- Section of course was too long
 - Several videos too long
- Need better examples of Compensating Transactions



What Will We Commit to Doing in Next Sprint?

- Improve Test Coverage
 - Testing has not been a focus of the course - (*Whole 18+ hr course on testing!*)
 - Saga's clearly have a lot of moving parts!
 - Verify the Saga with integration tests
 - **ADD** Section to course for Integration Testing
- Improve examples of compensating transactions
 - **ADD** section to course for compensating transactions



Integration Tests

- Unit Tests typically target a single class
- Integration tests will test the interactions between components
- In our service, we want to test:
 - Receiving of a new order
 - Sending / Receiving JMS messages
 - Persistence
 - State Changes



Compensating Transactions

- Problem - Current 'non-happy' path events end in terminal state
- Need example of compensating transactions
 - Non-happy path - call service to 'un-do' action

