

9/9

0800 Antcom started
 1000 " stopped - antcom ✓ { 1.2700
 1300 (032) MP-MC 1.98260000
 (033) PRO 2 2.13047645
 correct 2.13067645
 Relays 6-2 in 033 failed signal
 in relay 12.000 +

1100 Started Cosine Tapc (Sine check)
 1525 Started Multy Adder Test.

1545



Relay #70 Panel F
 (moth) in relay.

First actual case of bug being found.
 1630 Antcom started.
 1700 closed down.



ISO/IEC 25010 Software Quality

Functional suitability

Compatibility

Performance efficiency

Usability

Reliability

Security

Maintainability

Portability

Software Requirement

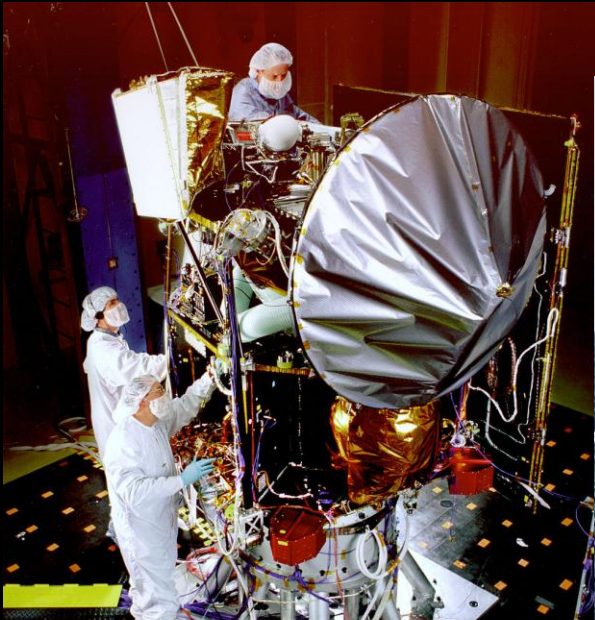
1. A condition or capability needed by a user to solve a problem or achieve an objective.
2. A condition or capability that must be met or possessed by a system or system component to satisfy a contract, standard, specification, or other formally imposed document.
3. A documented representation of a condition or capability as in 1 or 2.




ISO/IEC 9126

Defect: "The nonfulfilment of intended usage requirements"

Nonconformity: "The nonfulfilment of specified requirements".





The Making of a Fly: The Genetics of Animal Design (Paperback)

by Peter A. Lawrence

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Agile & Requirements

Individuals and interactions over
processes and tools

Working software over
comprehensive documentation

Customer collaboration over
contract negotiation

Responding to change over
following a plan

TESTING

Verification

Are we building the software right?

Static

Inspect

- Loop conditions

- Indices

- Names

- Types

- Argument order

Validation

Are we building the right software?

Dynamic

Build & Run

Test-to-pass / Test-to-fail

White / Grey / Black

Automatic / Manual



| |
|----------------|
| WHAT test |
| HOW test that? |
| WHY test? |

Testing

Unit testing

System / Integration testing

Acceptance testing



Files Services

JavaXpath

Midterm7343

Source Packages

<default package>

agileJUnit

MyAgileTest.java

Test1.java

deadlock

midterm7343

regex

RegexTest1Strings.java

RegexTest2StringMa

RegexTest3BGroupsE

RegexTest3GroupsBz

RegexTest3PatternM

RegexTest5Greedy.j

Test Packages

Libraries

Mid - Navigator

s View

MyAgileTestTest

MyAgileTestTest()

setUp()

setUpClass()

tearDown()

tearDownClass()

testAdd()

...ava RegexTest3BGroupsBackref.java Test1.java Test1Test.java MyAgileTest.java MyAgileTestTest.java



```
37     }
38
39     /**
40      * Test of add method, of class MyAgileTest.
41      */
42     @Test
43     public void testAdd() {
44         System.out.println("add");
45         String s1 = "2";
46         String s2 = "2";
47         MyAgileTest instance = new MyAgileTest();
48         int expResult = 4;
49         int result = instance.add(s1, s2);
50         assertEquals(expResult, result);
51     }
52 }
53
```

Test Results

Output - Midterm7343 (test)

Tasks

agileJUnit.Test1Test x

agileJUnit.MyAgileTestTest x



100.00 %

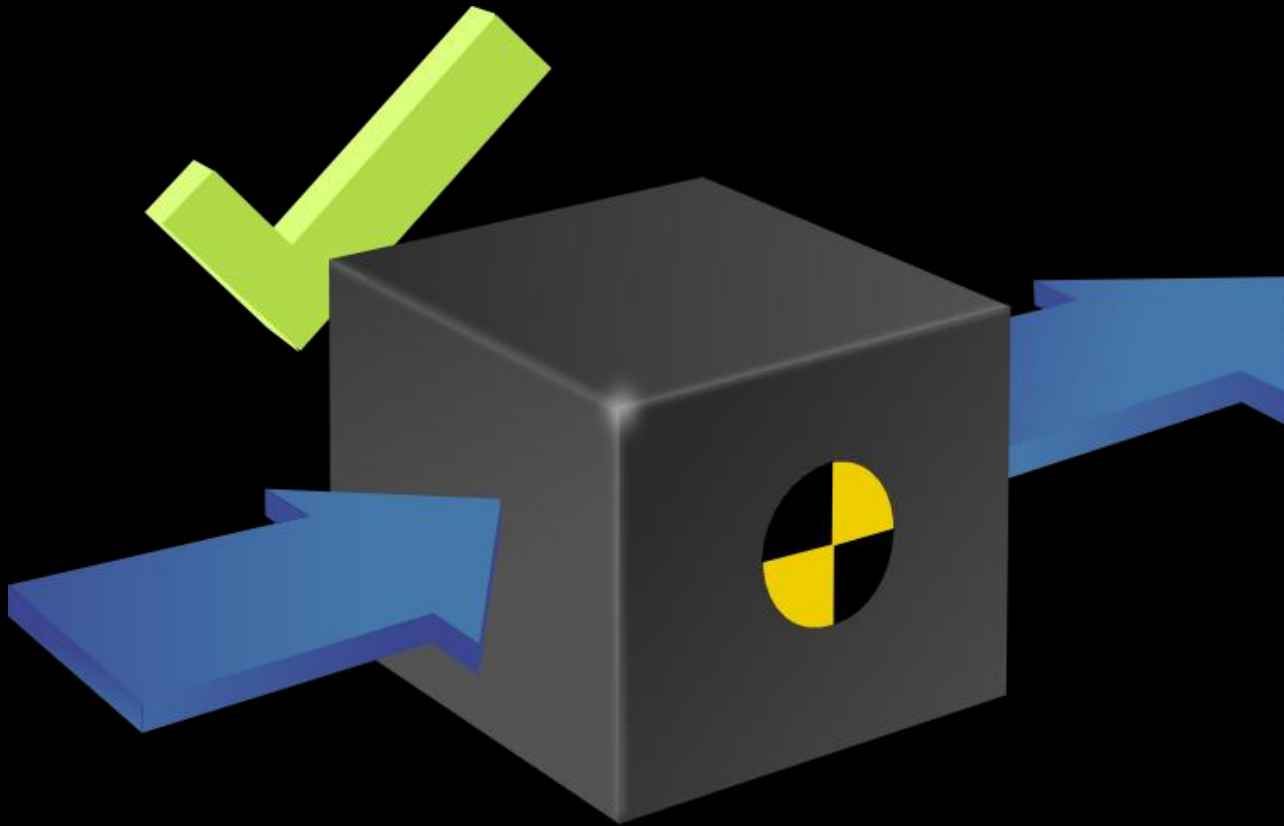
The test passed.(0.059 s)

agileJUnit.MyAgileTestTest passed

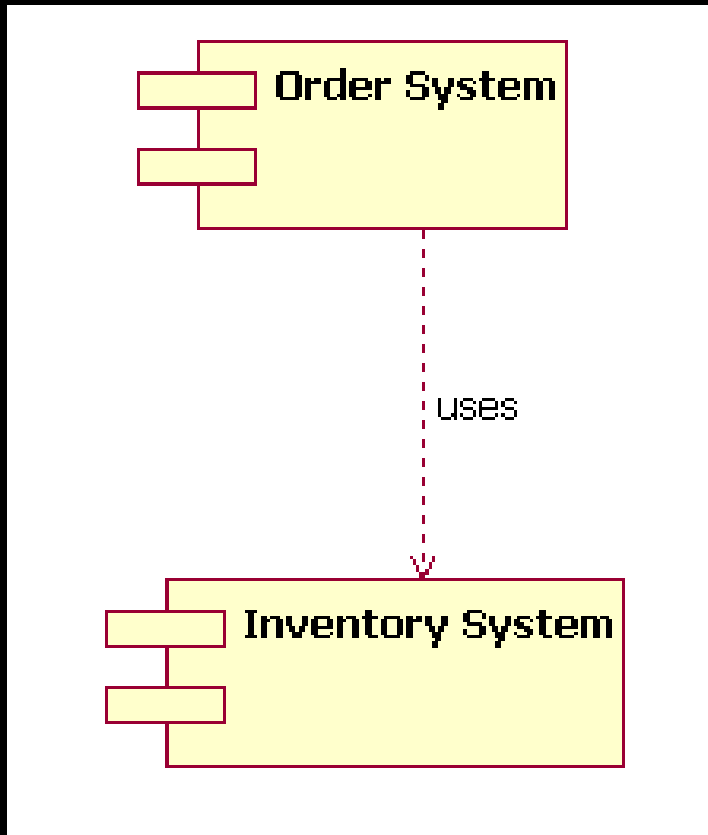


add

System testing



Integration testing



Will Order System and Inventory System behave in an erroneous or unexpected way when working together?

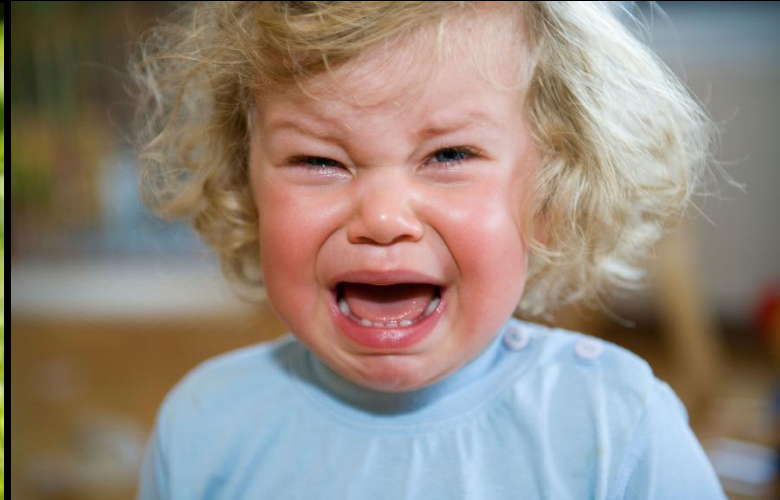
Acceptance Test

USER EXPERIENCE

A / B TESTS

MULTI-VARIATE

BETA-RELEASE



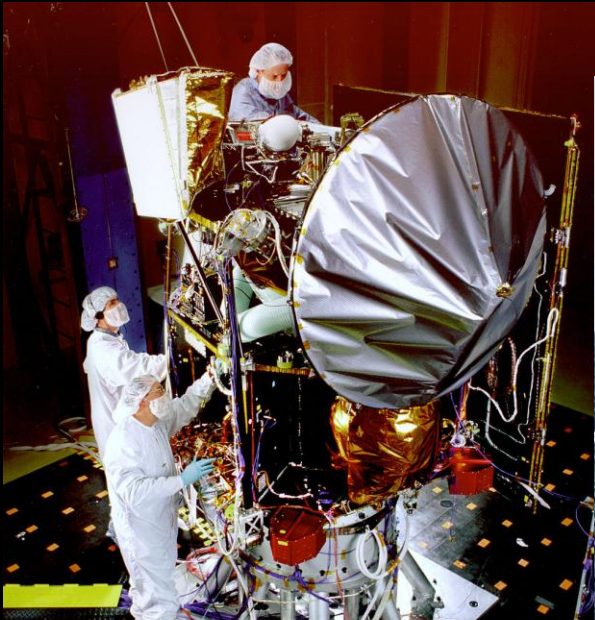
Strategi för kvalité


Under legoövningen blev våra leveranser inte godtagna efter första sprinten, men det blev de i både andra och tredje. Då kunde vi däremot hela tiden kolla med produktägaren om något vi gjorde höll måtten. Det gjorde det väldigt tydligt om det vi byggde var stabilt och konsekvent.

Så är inte fallet under detta projekt: det kommer inte vara lika tydligt om produkten i projektet är bra jämfört med om ett legobygge är klart och det är inte möjligt att ständigt fråga produktägaren för att undersöka detta.

Som KPI För att mäta vilken kvalitet leveranserna håller tänker vi att mäta hur stor andel av alla rader av vår kod som körs av de enhetstester som vi bygger. Desto större andelen är, desto större är sannolikheten att vi vet vad vår kod gör.

En brist med detta KPI är att det är beroende av våra enhetstester, och det kan finnas fall som vi inte har gjort lämpliga enhetstester för.





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REMEMBER

Specifications will change over time

It's im p o s s i b l e t o c o m p l e t e l y t e s t a p r o g

Testi g can t show that a program is bug -free

~~all~~ bugs can be f

Is it a bug or a feature?

Agile & Testing

Acceptance criteria

DoD

Customer collaboration over...



Continuous integration

Continuous deployment

Test-driven development

...

TEST-DRIVEN DEVELOPMENT

Add a new test

Run all test cases

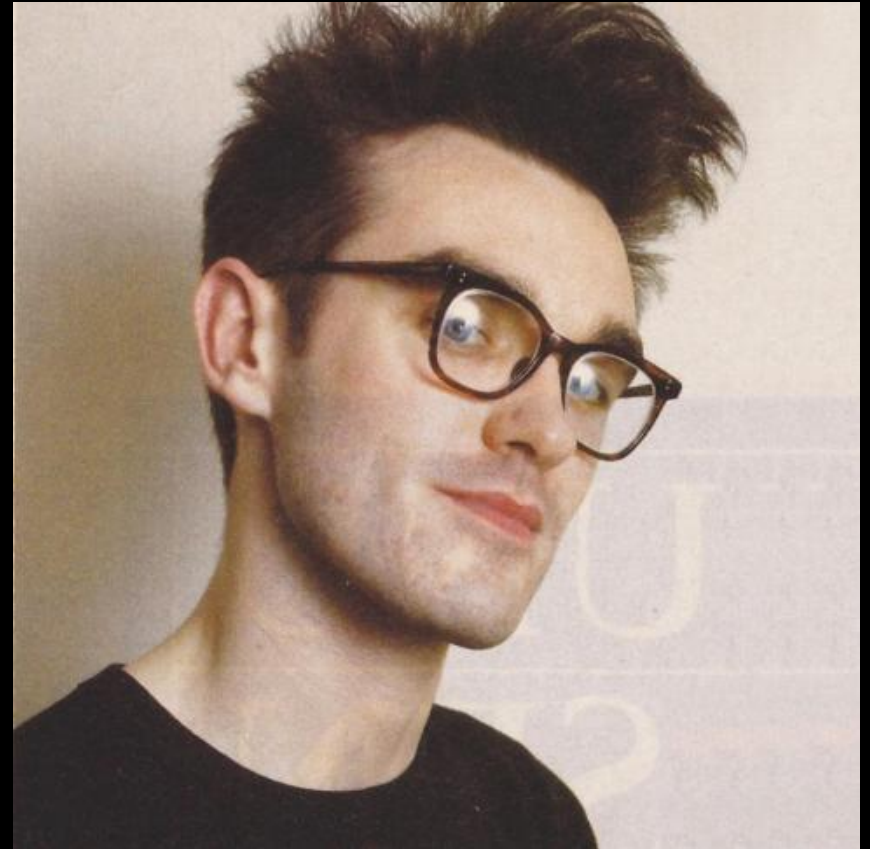
Add new code

Run all tests

Refactor

RISKS & MITIGATION STRATEGIES

Business
Technical
Knowledge
Organisational



SOME ADVICE

Merge – Merge – Merge

Be aware of your assumptions

Self-organise & take responsibility

Use the teachers and the customers as
appropriate

The customer \neq The grader

PROJECT TRIANGLE



Even More Advice

“It’s not the plan that is important,
it is the act of planning”

G. Edwards

“I’m not planning to jump off a bridge with no
bungee”

Norah Jones

REALITY CHECK

What was purpose of lecture?

Which learning objectives were covered? How?

What was the relationship to the course assessment?

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