endearlyendearlyendearlyNipurproposal
11/24115

eration/Stating thenext

4156

ending an iteration / starting the next chiques washington assumes you do certain things as part of iteration!

customer-doven functionality continuous integration Solid test coverage reliable progress tracking pacins adapt to team

only done when there is time left over

- but for many organizations, Sure or all of these are built onto iterations, NOT "extra"

system-level testing refactoring a code clearup documentation up dates process improvement

Radon new tech training a personal development time

pase & 4156 11/24/15 full System testing! good system testing requires emphastec tho's System testing development level-Unit testmy team team donas Partot development from atron 1 tashs molidares Short buld CYCLOS miles tone testing of or release POS FAMS dual Herations means lots more communication - may be test team rep attends deu team Standup Meetings

ty to heep both iteration sequences in Sync - time box

- note testing iteration I might
tale shorter or longer than
developing iteration 2
sometimes continued
sometimes continued
sometimes continued
depends
development depends
on fixing by

ore option is to start meorporating bus fixes as tasks as soon as bus reports available

could do test buld w/m iteration 1 (as opposed to end) if full system available to test earlier

or care of portron of time - not moduded in developer days for iteration - where development team works on bug fixes, e.g. 2000 (one day per week)

but may not how separate

some other options: acceptating [it] > [it] > [it] > [it] > tot | (teratron? otherwise testing) [it] -> [test] -> [sta] ---.

5000 of time spent testing how to know when tested "enough"? establish clear success criteria e.g., Zero-bug-bounce (no out standing bugs altho more may be found later) "bugs" can include ambiguties,
missing features, problems
with nebsite style

1. tester finds bug

2. files bug report

a. Alles bug report

need reproduction steps

what tried to do, what

bug for happened, what expected

to happened, any error messassis

Severity? liketihood?

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Story work out to feature

11/24/15

3. Create story or tash to fix bug these profited who customer (remember these profit of maybe genera "bug fix" story while who to tashs, heap adding but hard to estimate time - guess, use past experience - how long to fix a "similar" bug fixt what falling test that exposes the bug, then fix bug so test passes

5. tester verifies fix Marks as closed

6. updak bug report

metrics - new-bug submission rate
going up or down?

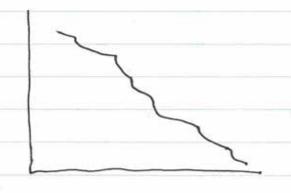
many buss from same
area of code?

H left to fix a priorities

more contents for bug report need details - specifics version, platform, location what exactly does developer need to know to reproduce let's consider some possible burn-down graphs, what do you thinh happened?

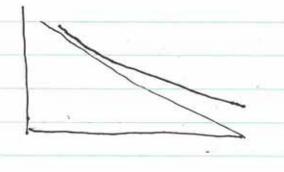
hato prevent M future?

heaps minasmy
heaps minasmy
lots of unplanned
tashs or bad estimates
dopot at endprobably cut out sorethings
as dead line approached



perfect! although not realistiz

doesn't look perfect but it is realistic guen user stong completion in discrete units not continuous



work heeps drofting to right of ideal probably on estimate/velocity problem, plus didn't dop thms at end to finish on time

can help future estimates to track how long between tash mous to "m pagress" to and to "completed"

-if longer than the time estimate for the tash, why?

System testing— as Possible

- bleditated testes

- or between most do

system testing, tont

test our code (1)

iteration review
-need to include time at
end of iteration
(or begin of next)

prepare for review mtg
be forward-looking
calculate metrics
velocity, coverage
chechlist of topics

example quastions is every one happy w/ quality of work? downertation? testing? how feel about pace - fromty reasonable bonns? ever on comfortable of work assignment, area of system are tools helping or horting productions ? What new tools should be considered? Is process effective? Shald be change? specific code to revise, refactor, rewite? performence problems? big bug problems? is testing effective? ghish enough course?

## fonally, is deployment under control + repeatable?

make "stories" for any process
changes - although this would
not work very well it what
you want to change is the
story - diven process

first two sterations often "bad"

people underestimate how long

tasks will take

4 then overestimate later on

make sunto record bigboard at end of each iteration, before wipmy clear for new iteration,

ch. 10 largels repetitive of early chapters
Bot now the tasks are to
Mtgrate someone else's code

ore witing code or reusing

- Create class dragrams it don't already exist (then an tools to do this)

and it already exist, which accuracy

need to be able to that the 3dparts code - test it first, before any integration with your code

ch to-dos for integration 3 rd parts sure code

Create place in buy tracher for Issus

organize source code into 8 Src, test, docs, etc. foldes

historything she build script a get build able do so your repositos

Integrate code into you all config

need to use the 3d parts cale

other throst do eventully

figur at dependencies w/m codeban how to pachase compiled verion document toda run coverage report Inc cant of code Security audit revence engancer to creak UML

focus on the functionality you need from the Bod parts code

how to estimate how long to get the 3rd parts code working

Spike testing- spend a fixed period of time, ex. I week, trying to fix code a extrapolar from that

pich random samples of failing tests (do not pick just easy or just hard)

calculate bug fix rate

bugs fixed = olail, bug

# days developer fix rate

time bugfix # command = commander

rate x remains = long to fix

buss

better estimate might include hoon foliare factor" Say ib 7000

> estimate from sprilitesting = new estimate 7000 (.7) to free remains

Ch 12

there are many successful sw der processes

- develop iteratively

- evaluate assess processitselt

- best practnes

ex. bigboard

user stones

version control

continuous integration

(test-driven development)

test coverede

we shipped