review - Head First Software Development Ch. 6-12

ch. 6 version control
booth uses subversion, this class uses git
What is difference?

- git is distributed, sun is centralized

 commit changesets commit changesets

 locally to server

 push/pull to need network

 others connectivity

 may optronally regions less local space

 be authoristative

 central repo
 - git stons content ast meta data (.git)
 while sun stons just files (.sun)
 includes all tass, branches,
 verson histories, etc.
 - git has better support for merging branches
 sun branches arena separah tolder
 in repository
 git allows guich sutching between
 branches win save working director

- Sun has global revision numbers, git doesn't (other than SHA-I hash)

- git has better content integrit, due to using SHA-I hash (ion check for corruption)

fixms buss in previous vesions

could check loss to figure at which neursium of each file wer pat better to assocate tasm with every

of port of the inthat vestor

sed for 1 -tasis snapshot of repository 4030/30 version 1.0

version 1.0

version 1.1

version 1.1

version 1.1

version 1.1

version 1.1

branch only when need to, not ton mundare chans, & sandbores or separch platforms ch. 6.5 build - ant

you do not need to know ont

but must know some build tool &

how build tools work in general

is should have been using one!!

on 7 testing or continuous integration black us grey us. while box testing

blachbox

functionality from

user perspective

user most validation

output results including

error conditions

stak transitions—

use map of states

bounday cases to

off by one errors

(little typoss from

user, not internal)

gres box

vents loggins & auditing data destined for other systems -check atput format

pase 4 Tuesday 12/2/14 4156 mor sey box System - added mto hashes, chechouns, timestamps, etc. scraps left lymg arand secunty + for resource rish leah clean unmstall rate of servor handling, clean
up file handles,
everses allocated
memory white box working as downented threed sate, null arounds, secont, role resource constraints What happens when Canot get needed resources? need testing frome work that will run entire suite of tests on one conmand continuos intercation = regession no the entire such for text lows every commit describes testors (or every nightly build) crisintrol

pacJ Tuesday 12/2/14 4156 the longer a test suite takes to run, the les often it will be run July test - Jon Bell's Vm Vm is one addition approach to speeding up testing of also test sustemmination test selection test prontration test coverase - a huge test sure may hard to get 10090, Short for 85-9020 ratro bus found dumy testing bus found after release if the small need to shoot for hisher coverage before deployment ch.8 TDDwrite tests fort should mitrally fail

- not campile

- not no correctly sten waterode to set test to pass
gren "simplest code possible"

Then Retactor ... (evolutionary)
desism)

TDD - each test should verify

only one thing
avoid duplicate test code

use setup, teardown,

much objects to

call common code

mirror drectog w/source code

don't mix u/source code

need to find way to separate dependencies - loose coupling

use desisn patterns to help crake
much objects/stubs for testing
in need to test who real subsystems

Later - integration a system

testing
careful with dependencies - clean
up after each test to
hnown, restorable state

Ch. 9 ending an iteration ideally

System testing - 2 iteration cycles

an parallel w/ separate

testing team - but time b ones may

not match scope

page 7 Tuesday 12/2/14 4156 development team hill get sevention bus reports during iteration prioris)
-treat like any other stop & prioritize
althorhander to estimate time development a test/fix iterations bug reports - not always clear fail
maybe ambiguit in document ation,
missing feature, break from UI Style guide need steps to recreate bus new test how bus was detected test test when we was detected test case when expected to the test when the pected to on's original reporter shald merh bus as closed, not developer who "fixed" Use by tracking tool - record everything generale methos - her-by submissions rate, buss per code region, how many left to fix, zero-by-bounce before release

PSC 8 Tuesday 12/2/14 iteration review - process improvement - IS everyone happy ul quality of wor4? doc? testing? - pace of iteration? - Pacelaperable Ul area of system - tools helping or hurting productions? - process changes to consider - code identified for retactoring on contrus - performance proplems? - discuss open bugs - testing effective? Sutherent test coverage for confidence? - deployment under control + repeatable? ch. 10 the next iteration revise estimation prontes (use axes calculate project velocity new big board I new burn down

pare 9 Tues da 12/2/14 4156 ch. Integrating Ul 3rd pab code Do NOT assom anything works (annot use TOO, code already exists but need to test everything yourself a borns into your process everything your requirements rely on take ownerships spile debugging st lob of test fail, preh random Selection & fix ulm limited time undon-maybe one week then set estimate of how low to use for the estimate

(a confrdence) child summas pointes to other books a websites