Page 1 4156 Nowholar HU#1EC 9/15/15 recop: already covered Head First Ch. 1-2, now on ch. 3 project planning gather requirements by bramstorming, etc. user stones on index cords 33 sentences description time estimate in days how long will it take to deliver?

add up all the time estimates

- almost certainly too long! one approach is for development teem to pich set of stories for 1st release, e.g. 90 days why is this a bad rdea? your team has effectively set these stores as higher prooff than those left at -, but customer needs to set provides!

help costomer proritize

Shuffle dech of user ston modex cords a lay out on table

ash customer to select the stones for milestone 1.0 - 1st delivery

mitrally ignore time estimates so you can see what customer thinks is most important even if won't all fit

but then need to sanity-check for time a probably still too long so need to re-provitize w/ customer

- cut functionality
- ship milestore build as ap
- focus on baseline functionality
smallest set of features
to actually be useful

e.g. word processor load, edit, sove are core 4156

what if cannot possibly fit baseline user stones mto customers deadline for milestone 1.0

- greup, wall away

performance doubling doubling people communication diminishing people returns does NOT halve time

At people desired what is the maximum teem size?

not a specific number, can sometimes improve productivity by dividing project into several subprojects so each team is smaller

why 4 for 4156? smallest possible par programming & for cross-par integration

	pere 4
4156	915/15
within milestone 1. O, needt prontize for iterations	70
recall iteration no more t 20 work days (30 calendar days)	
tonh user stones according	tomer)
10 most idea is to	. +
40 50 Itast = still nece Can't lea Comahe all other stories 60 for	1s to be 1.0 ive out
1 D D lay	
$1 \longrightarrow 1 \longrightarrow m + 1$	
3 DD X 40	ing days developes

get feedback from ovotomen at end of each iteration

continuous integration - software always builds so in principle could show customer something at any time

build = compôle

Pachase

test

mon an CI later m course

principles: heep iterations short heep iterations balanced

> easter to deal ul mexpected Change as it arises

balance dealms w/ chanse, new features, debugging + testing,

So, we get 20 days worth of work time, per developer meach 30 calendar day month, RIGHTZ 4156

WRONG!

teem really develops sw

developer estimates often do not account for overhead

velocity = 70 perent of time that is productive work

days of work - days regulated by get work done

for new projects start with 0.7 velocity

adjust at end of each iteration

velout = actual work

scheduled work

month = 20 working = total of estimates dans = for user stones completed

total for Stones scheduled

14 days real work

calendar

	pase 7
415-6	9115/15
need to consider velocity when planning ul customer — don't surprise later	
let's sc, 3 sterations for 4-c team, so max 80 dass, x 3 months until milestore = 240 days at real 12-1	per month
estimates iteration 1 - 73 Vere 2 - 67 3-77 217 de	days
100hs good until can sider v 217 = 310!! (Th	
team can really do only 4 x 20 x 0.7 = 56 days = 168 days per quarte NOT 240	a permonth er
each max.	56

what of you've considered velocity all along but are still running behind schedule

tell customer add an Fteration postpone overflow work

Where does 30% lost time go?

(withwork themes not considering personal personal or siel days)

Software motallation, opgrades, patchest

customes a other professional

training staff etc.

and marke not really 7000, that's just a velocity to start 1st iteration, later strations measure previous velocity & adjust

velocity helps you promise a deliver rather than overpromise a fail