

Tuesday 9/9/14

4156

requirements

- today informal user stories
- Thursday more formal use cases

user stories should be written by customers on index cards

~ 3 sentences in customer's terminology

- maybe augmented with sample formats, screen mockups

why cards?

tangible (*small) unit of

discussion

estimation

scheduling

acceptance testing

completion

easy to rip up

~~show multiple size index cards~~

Thursday 9/9/14

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user story description

as a ^{who} [user role] I want to
 [goal] so I can [reason]
 what ex. as a registered user, I want to login so I can access
 subscriber-only content ^{why}

user story not just card

1. card - written description for planning purposes

2. conversation - capture further info, clarification
 (record notes on back of card)

3. confirmation - tests to be carried out
 check user story complete & working as expected
 (also back of card)

both success & failure cases

hmm... cards getting awfully full
 show multiple size cards
 → show google images & discuss

Thursday 9/19/14

4156

INVEST in good User stories

I - independent

N - negotiable, not contract

V - valuable, features not tasks

E - estimatable, enough detail to estimate time/cost

S - small, but not too small

T - testable, not subjective

continue discussion until no more questions or assumptions (= risks)

estimation - how long will it take for a pair to do?

unit - hours - ~~too~~ small

1/2 day

day

week - too large

"AND" rule

use time units or relative units

one story twice as big as another

can use actual time from

previous projects (velocity)

"buckets"

discuss more later in context

possibly complex process & planning
also high/med/low (need priority as well as estimate - high/medium/low)

Thursday 9/9/14

4156

so far considered functional requirements
what the software needs to do

also non-functional requirements
or constraints - also index cards

need to be
verifiable - must use specific programming
languages, framework, other
technology / platform
- not
"user friendly"
must interoperate with
existing software & devices

consider other stakeholders, not
just end-users

operators / administrators

customer's attorney - imagine
software to be embedded
in a toddler toy or automobile
~~automobile dashboard~~

liability issues

government regulations

what 2 requirements shared by
every customer?

→ on time & w/in budget

Tuesday 9/9/14

4156

go over upcoming assignments

samples now attached
to proposal assignment

requirements exercise if time permits

volunteer picks from list

class may ask only yes/no
questions - try to guess application

may not be much easier in
real life - where requirements
must be much more
detailed rather than just
general nature of the app

Tuesday 9/9/14

4156

Word processor (e.g. MSWord)

social networking
website (e.g. Facebook)

multiplayer online
game (e.g. World of
Warcraft)

weather reporting
service (e.g. The
Weather Channel)

interactive software
development
environment (e.g. Eclipse)

restaurant review
website (e.g. yelp)