Requirements Gathering

Requirements are like water.
They're easier to build on when they're frozen

-- anon

Req's for Projects

- In Scrum, the .. is responsible for client interactions.
- For CMPT 373
 - everyone must..
 - product owner in charge of collecting these requirements into a backlog.
- Requirements change
 - During project, expect requirements to change as..

Capture Requirements





- Note what customer wants
- Note hints about priorities
- Note hints about future directions
- Pay attention to surprises
 - -- Dig into these



- Web client-server?
- Mobile app?
- Cloud?



Collecting Requirements



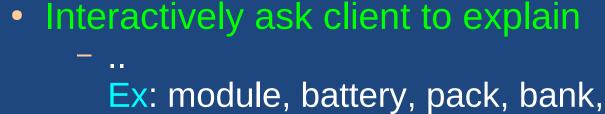




- Identify...
 - Who uses the system
 - What are the big interactions
- Create very rough...
 - Concretes discussion of req's
- Identify...
 - What are the big ideas being stored
- Draw..
 - See the sequence of steps in a complex process

Collecting Requirements (2)



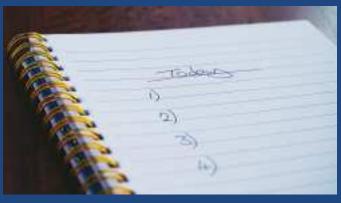


- processes or current system
- goals / desires



cell

- Minimum viable product
- Very useful
- Future feature



Later, think through requirements





- Describe users and actions
 - List user roles
 - Important actions per role
- Describe data
 - List big data "things"
 - Identify some info about each
- Create mock UI
 - Shows data and interactions
 - Concrete discussion of req's
- Flow "chart" of complex process
 - Identify actions and stages/states

Project Time with Customer

- Pre-Tutorial 1
 - Get to know your team (meet Friday after class?)
- Tutorial 1
 - Client will discuss their requirements
 - 2+ people (Product Owner + 1) record req's
 - Everyone must fight to understand req's
- Tutorial 2
 - Client returns to clarify requirements
- Iteration End
 - Client suggests changes and new requirements

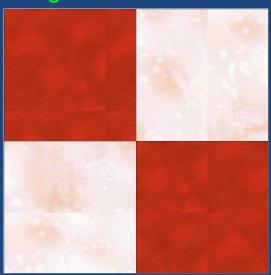
In-Class Example Quilting!

Quilt Example

- Making a tile quilt of 6" x 6" block (see image).
- Quilt made up of 5 blocks by 6 blocks.
- Each block uses two fabrics twice: once each in opposite corners.
- The fabric comes from a charm pack of 40 squares, featuring 6 different patterns and 4 colours.
- Program generates an optimal pairings of fabrics for squares arranged on the quilt such no two touching fabrics are too similar.
- Compute how much fabric to buy to make a 2" border.

Images

Single block



Charm Pack Fabrics





Summary

- Fight to capture the requirements
 - Carefully listen to the customer
 - Ask about anything you don't understand
 - Work through details
- Clarify terminology
- Write them down;
 you won't remember them all!

