

Today

- Writing Assignment Update
 - Final Reflective Statement
 - Due March 14
 - 750 words
- Final Project Presentations
- Delivering a software product

What we don't teach you

How to create a successful software product

CSE 481b

- Build a prototype application
- Convince management you could build a successful product
- Management Pitch
 - High Stakes
 - Single presentation

Take away

 What is the one thing that you want management to remember

Group A





Group D

Presentation structure

- You've done something cool
- You've done something important
- You've got a vision of where it could go
- Reality check

Developing a presentation

 Only a few of you will present – but all of you should be involved in planning the presentation

Conveying value

- Presentation must show that product conveys value to the customer
- Describe context
- Describe problem being solved
- Give a compelling demo
- Doing a demo in terms of scenarios is likely to be more effective than a demo in terms of features

Demo hell in Houston A tale of two demos

- SIGCSE, March 3
 - RJA Classroom Presenter demo in Tablet PC lab
 - Instructor machine loses connection midway through
 - VNR Classroom Presenter lecture
 - Instructor machine blue screens

Classroom presenter demo Tablet PC Lab

- Network issues known to be challenging
 - Unknown hardware
 - Unknown access point
- Unknown environment
- Limited pre-conference testing on hardware
- Lab setup delayed until Friday morning
- Multiple users on the lab with different networking requirements
- Lab fully scheduled
 - Classroom technology demos Self paced labs



Tablet PC Lab demo

- Initial testing showed severe connectivity problems with 12 machines
 - Various settings were corrected without significant improvement
 - Lab in partial use limiting testing and other (non presenter) issues require attention
 - Lab users also changing settings on machines Decision made to isolate lab machines
- Several potential fixes identified
 - Change machine to 802.11b (from 802.11g) Connect presenter machine to access point

Tablet PC lab

- Demo started fine with about 25 machines
- Midway through connectivity lost
- The remainder of the presentation given from slide decks
- After demo, the networking specialist said he knew what went wrong
 - Failure to set static IP address on presenter

Disasters



- Causes of disasters often very complex
- Many causes contribute to disasters
- Immediate causes vs. structural causes



What went wrong

- Risks known in advance
- Hard questions
 - Why didn't RJA insist on full system testing before conference?
 - Why didn't RJA use ad hoc networking?

Disaster recovery

- After fault was detected:
 - Continued to have people work on activities but just from the public display
 - Shifted to slides for final portion of presentation
 - Did not attempt to fix the fault
 - Used backup plan
 - Did not attempt to explain the issue to audience
 No excuses
- Audience was not aware of the fiasco

Lessons

- Test risky systems identify problems early
- Full system tests
- Allow on site testing time
- Have multiple levels of backup available
- Know when to go to backup plan

Classroom Presenter Talk

- Delivered talk with classroom presenter
- Passed around 6 tablets for participants to use for exercises
- Used our own tablets with ad hoc networking
- Started up all Tablets well before the talk
- VNR delivered talk, RJA was the techie

The talk

- Five minutes into the talk, the presenter machine blue screens
 - Just before first classroom activity
- Recovery
 - Switch in new machine
 - Change to instructor mode
 - Set aside failed machine
 - (it did come back to life)
 - Continue the talk while RJA dealt with technology
 Reconnect the machines and include the activities

Why this problem was different

- Testing and plenty of time for setup
- Operating in comfort zone of technology
- Separation of responsibility between demo and tech support

Why demos matter

- Most effective way of conveying what a product does
- Very easy to get it wrong
- Could easily be an important part of your job

Delivering a software product

 Computer Science is only a small part of the picture

When is the product done?

- External deadlines
- Release criteria
- Functionality
- Update model

Release model

- Mechanism for delivery of product
- Business model

Installation model

- What expectations do the users have for the installation process?
- What expectations can you have about the users process in installation

Installation

- The users first experience
- Delaying gratification
- Any number of things can go wrong
 - Configuration and dependencies
 - Systems capabilities
 - Bugs in the process
 - Unexplained steps

User initiation

- Standard model
 - Beginner
 - Intermediate
 - Expert
- Challenge of satisfying all three classes
 - Without alienating any of them

Beginner, intermediate, expert

- Design to allow a quick transition from beginner to intermediate
- Don't expect beginners/intermediates to read the manual
- Most of the user base will remain as intermediates
- Expert users are important

Product Maintenance

- When its done the work is just beginning
- Bug fixes
- Updates
- The next version

Feedback from users

- Building community
- Support channels
- Providing additional value and services