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Interactions With Your Client

Functional Specifications

- · Derived With/From Client
- · Documented For Client
- · Presented to Client
- · Agreed Upon With Client
- · Your Job to Capture the Client's Intent!

Project Plan

√ Functional Specifications

- Design Specifications
- Technical Specifications
- Schedule
- Risks

5

Design Specification

- · How does it look and feel?
- Includes
 - "Business" Process Flow
 - Use Cases
 - Screen Mockups
 - Data Flow Diagrams
 - Data Organization
 - Etc...
- · Identifies All the Parts and Their Interactions
- · (Mostly) Understandable by End User
- Usually Refined



Building a House (3 of 4)

Design Specifications

- · Mission Style, Stone Front
- Lots of Light
- · Kitchen Connected to Family Room
- · Master Bedroom on Main Floor
- Cathedral Ceilings

What else will you

Granite Counter Tops

need to know to

• Etc...

build the house?

(Note: Understandable by "User")



Screen Mock-Ups

- User Interface Only
 - Shows Layout, Buttons, Pull-Downs, Etc...
 - Non-Functional
 - No Back End
- Helpful for Developing
 - Look-and-Feel
 - Use Cases
- Can Create with...
 - Pencil and Paper
 - PowerPoint (Developer View)
 - Etc...



Screen Mock-Ups

- "Use" with Clients
 - Show to Clients
 - Go Through Use Cases with Clients
- "Cruder" may be better.
 - What?
 - Why?

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- √ Design Specifications
- > Technical Specifications
- Schedule
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Technical Specification (1 of 2)

- · How does it do it?
- · Identifies All the Parts and Their Interactions
- Everything a Developer Needs to Write the Code
- Includes Things Like...
 - Machine Architectures
 - Software Technologies
 - Production Environments
 - Development Environments
 - SDK's (Software Development Kits)
 - Network Topology
 - Database Schema
 - Object Models and Class Diagrams
 - Continued...



Technical Specification (2 of 2)

- Includes Things Like...
 - UML Diagrams
 - Pseudo Code
 - Function Prototypes
 - Schedule
 - Test Plan
 - Risk Analysis
 - Etc...
- Probably Not Understandable by End User
- · Possibly Not Understandable by Client
- Usually Refined



Building a House (4 of 4)

Technical Specifications

- · 20 lb Asphalt Roof Shingles
- · 2" x 6" Outside Walls
- R48 Blown Attic Insulation
- Cat5E Wiring
- Pre-Made Roof Trusses
- 12" Poured Concrete Foundation
- Etc...

(Note: Probably Not Understandable by "User")



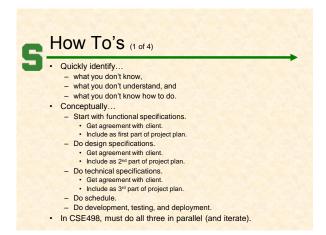
Approach

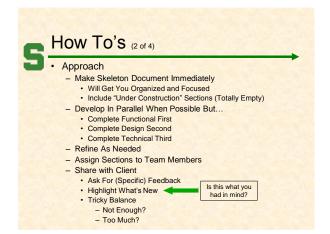
- Break Big Problems Into Smaller Problems
- Identify Constraints
- · Identify "Risks"—Things You Don't...
 - ...Know
 - ...Understand
 - ...Know How To Do
- Consider Tradeoffs
- Select Appropriate Technologies
- Identify Core Features for a Prototype

Interactions With Your Client **Technical Specifications**

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Cannot be emphasized enough!











Nota Bene: Project Plan How many... - ...drafts will you write? Many. - ...drafts will you share with your client? A Couple. - ...final documents will you submit for CSE498? One Due Date September 28

- Less Than 4 Weeks
- In Class Formal Presentations
 - September 28 October 5
 - PowerPoint Template Provided

Resources on the Web • Downloads - Boeing - Microsoft - Motorola - Union Pacific Railroad • Other Information, Resources - W3 Schools - SourceForge - Etc...

