

Agile India 2005, Goa



What is Software?



What is Good Software?





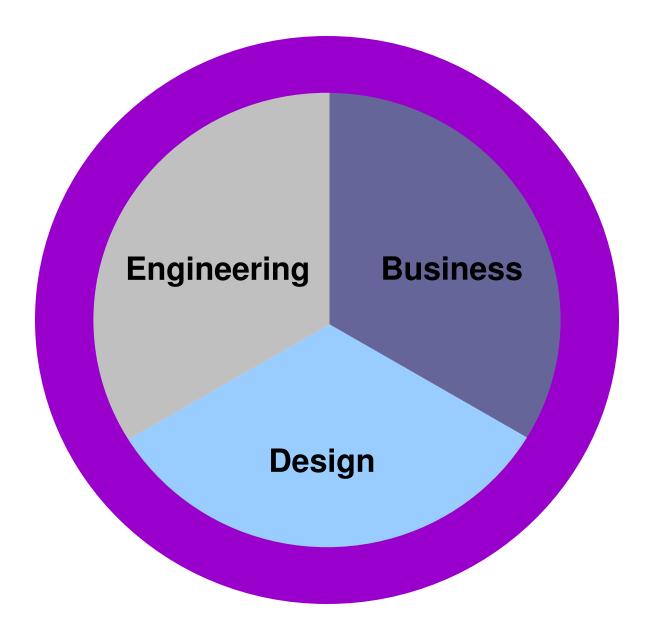




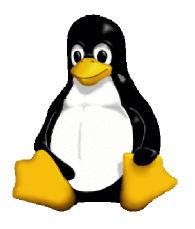


A good system is something which eliminate existing tasks (wherever it's possible, speedup the tasks with efficiency, save money or save time.











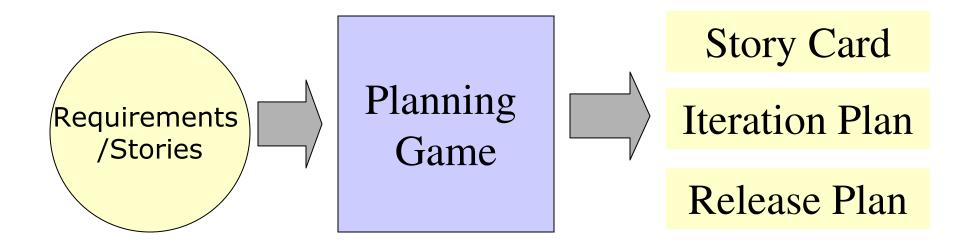


Engineering

Design + Engineering Design
+
Engineering
+
Business



Planning Game



Decide on scope and priorities
Estimate cost and schedule
Benchmark for feedback





?



Software Requirement Specification Use Cases



Trying to capture the requirements for the entire system/module

Difficult to read, write and maintain



Focus on a single Requirement Best way to describe the requirements from the user point of view

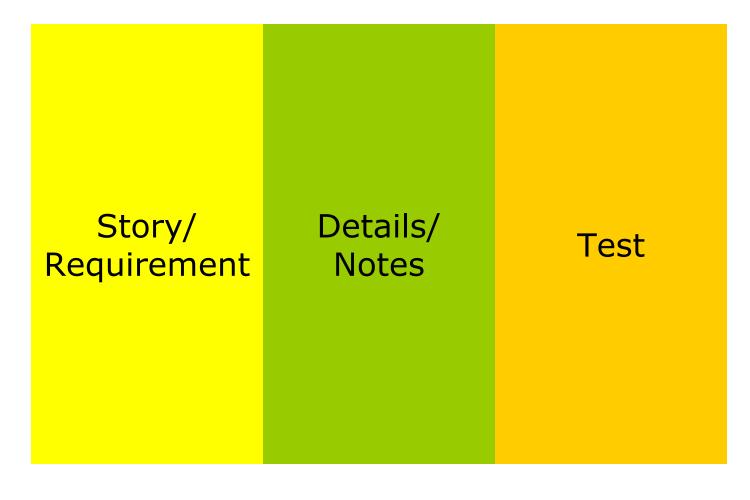


User can buy stocks online

User can sell stocks

User should register to buy or sell stocks





John Jeffrie's 3Cs Card + Conversation + Confirmation



INVEST – Independent, Negotiable, Valuable, Estimatable, Small, Testable

- Mike Cohn



User should register to buy or sell stocks

Register Form will have username, password, email, etc

Username should be unique, otherwise system should ask the user to enter another username



Search stock symbols

User can buy stocks online

List top 10 stock symbols

View stock history

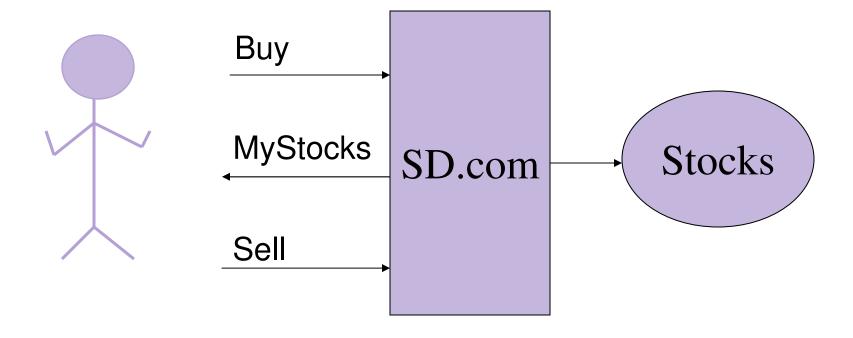


The hardest single part of building a software system is deciding precisely what to build?

-- Fred Brooks



StocksDirect.com





StocksDirect.com

My Stocks

S.No	Symbol	Company	No of Stocks	Your Investment	Current Value	
1	XYZ.	XYZ Corp	5		\$120	Sell
2	ABC	ABC Corp	5	\$100	\$80	Sell



Domain: Stock Trading, Stock Exchange

Entities/Objects: Stocks, User

Tasks: login, Search, Buy, List, Sell



Functionality alone won't guarantee software success.



You can't afford to make mistakes unless you are a Microsoft.





Shekar

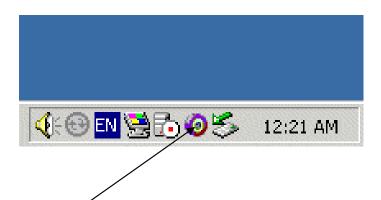


Gilbert





Shekar



StocksDirect.com Agent





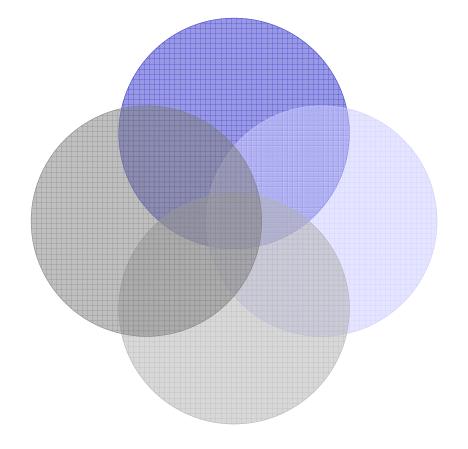
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LOGIN USRNAME: PWD SELL STOCK_SYMBOL



Innovation



Information

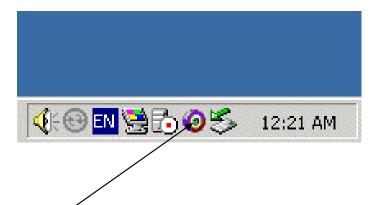


Intelligence

Interaction

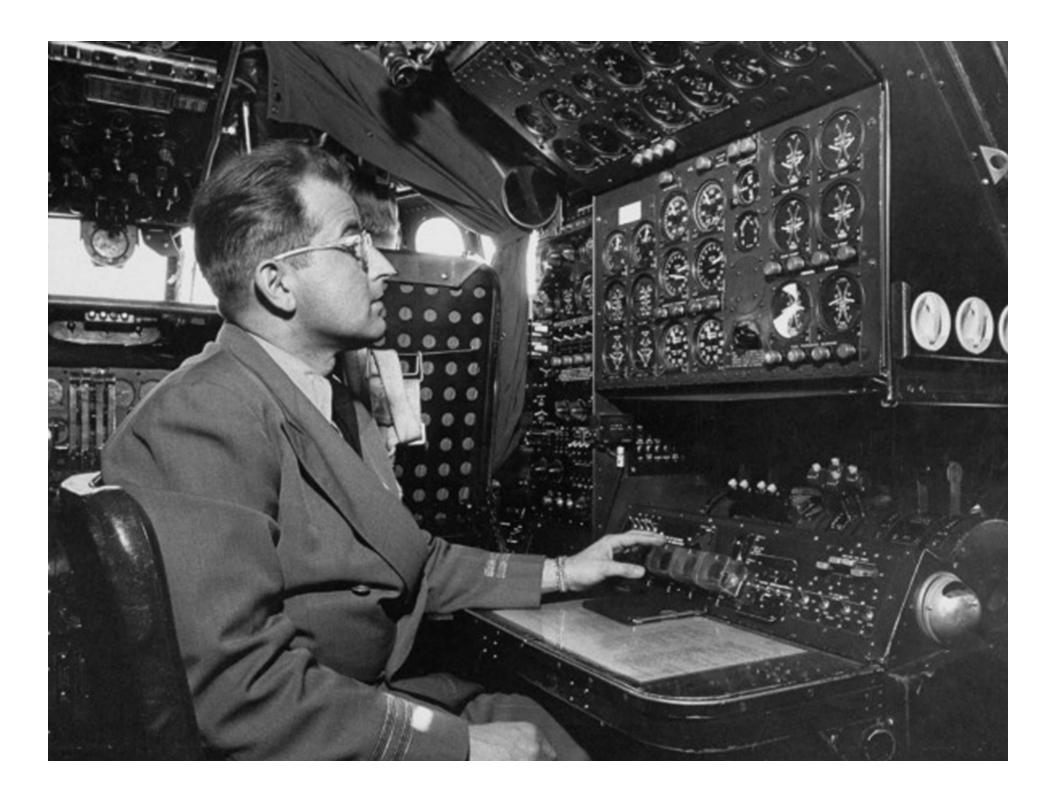


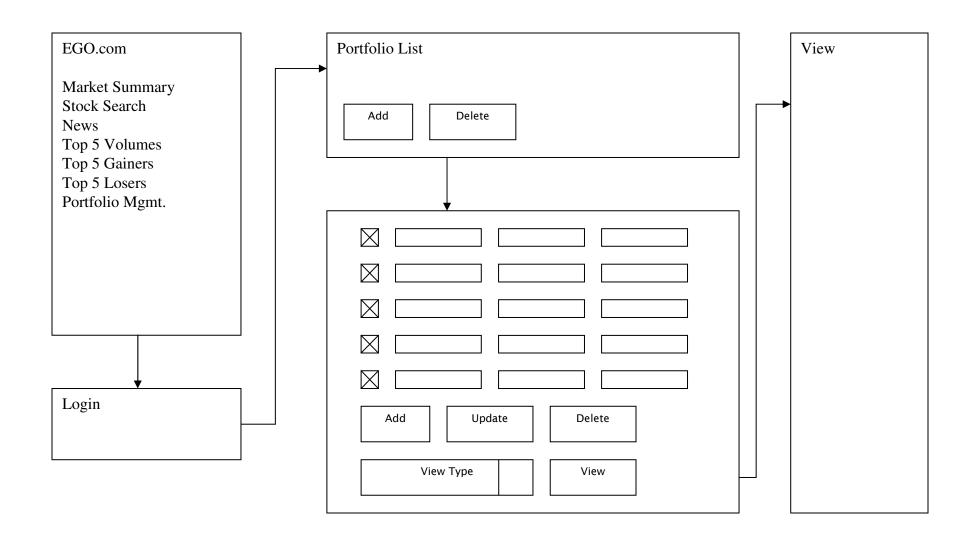
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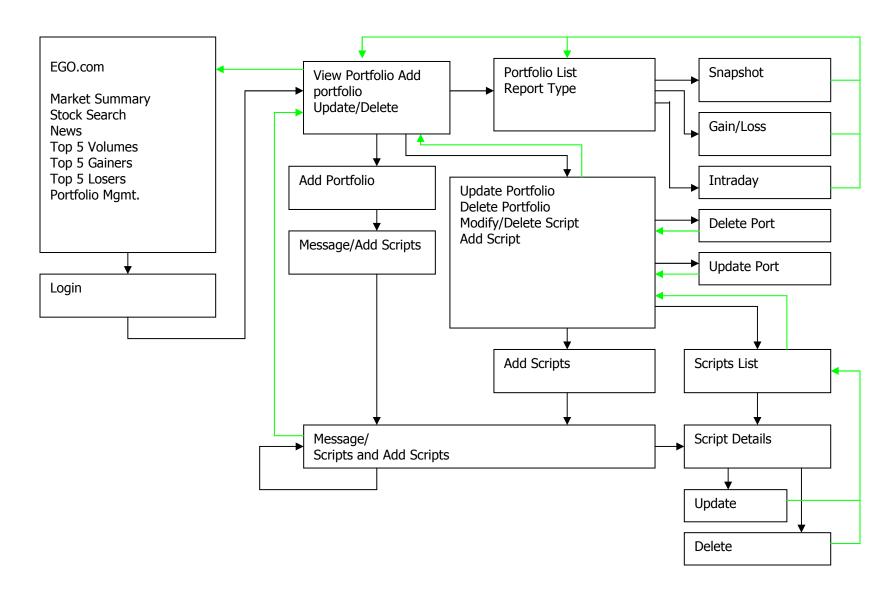
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LOGIN USRNAME: PWD SELL STOCK_SYMBOL



Selecting and organizing the interface elements

Controls – Textbox, List, Drop Down, Tab

Positioning

Size

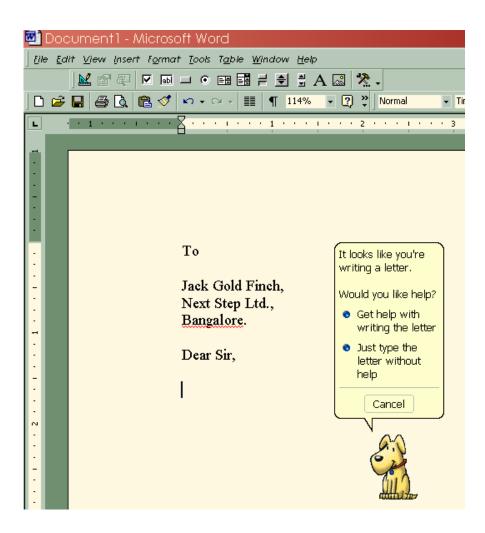
Label

Color

Tab Order

Graphics Design

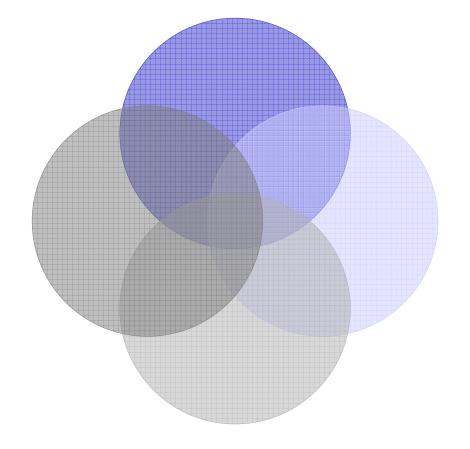




Auto-completing
Window Positions
Remember Login
Recently Used Records
Alerts



Innovation



Interaction

Information



Intelligence

$\#\,1\,$ software development is not just about coding



Can you imagine **Windows** without mouse?





Our entire facility is digital. No paper, no film, no medical records. Nothing. And it's all integrated—from the lab to X-ray to records to physician order entry. Patients don't have to wait for anything. The information from the physician's office is in registration and vice versa. Physicians can walk around with a computer that's pre-programmed. They can review a chart from 100 miles away." —David Veillette, CEO, Indiana Heart Hospital (HealthLeaders/12.2002)



Software Development to Solution Delivery



#2 If you want to build a ship, better understand the sea first.





Domain Problem



#3 There is no place called 'unknown'





Business Goal ROI Glimpse of what we are going to build



#4 Different Users need Different Tools















Identify the users and their goals

Create tasks to make them achieve their goals



#5 It should work in the user context





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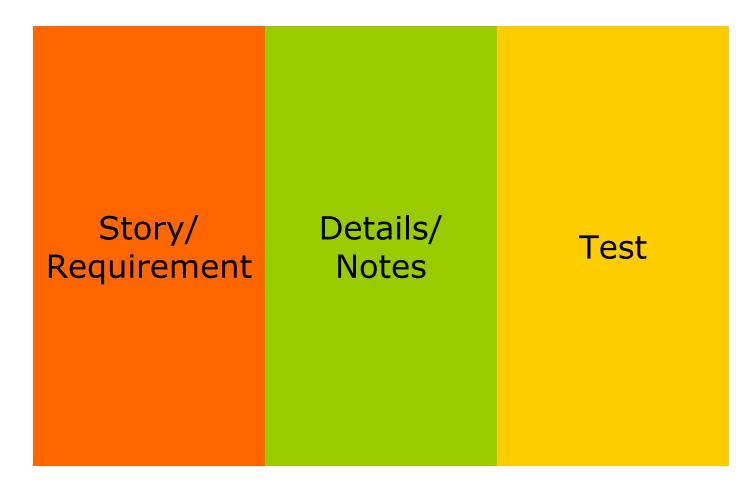








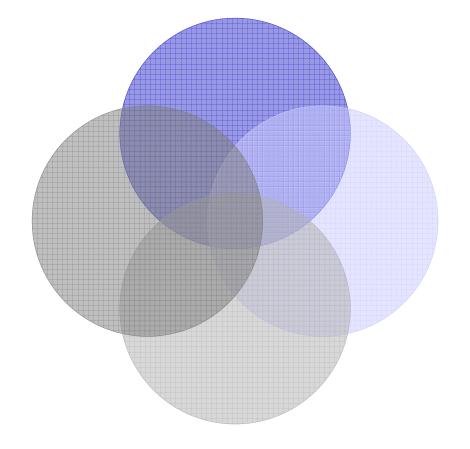




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Innovation

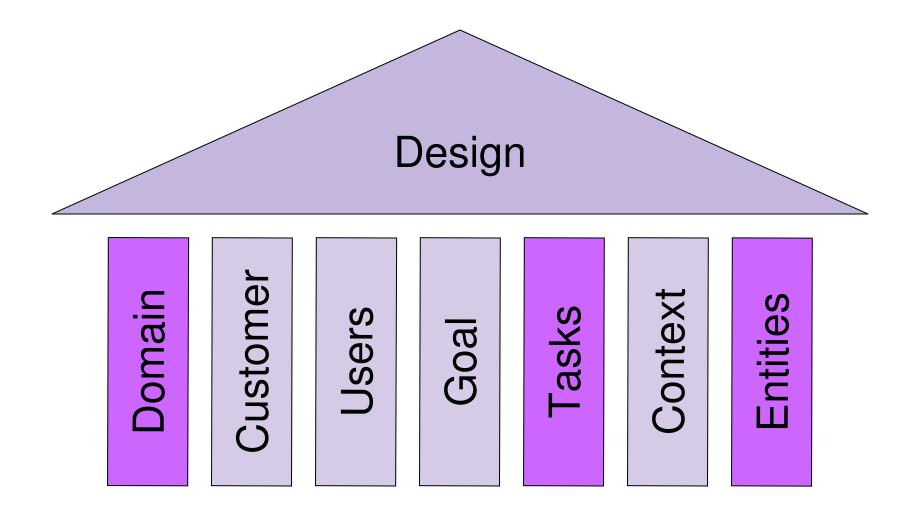


Interaction

Information



Intelligence





"Much of [design] is still down to natural ability.'There's a dirty secret: that much of it is a Godgiven talent. As an instructor of design I come across students that don't need help and others who can't be helped. It's an accident that kicks in at conception." - Michael Beirut



"If the software were magic, what would it do?"



