



Software Engineering

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Software Estimation:
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Today's Lecture

- I am going to show you a software application and you have to estimate:
 - How much did it cost to produce? (Weight 2)
 - How many lines of code ? (Weight 1)

Justify your answer with some line of reasoning.



Requirements Matchmaker: Demonstration

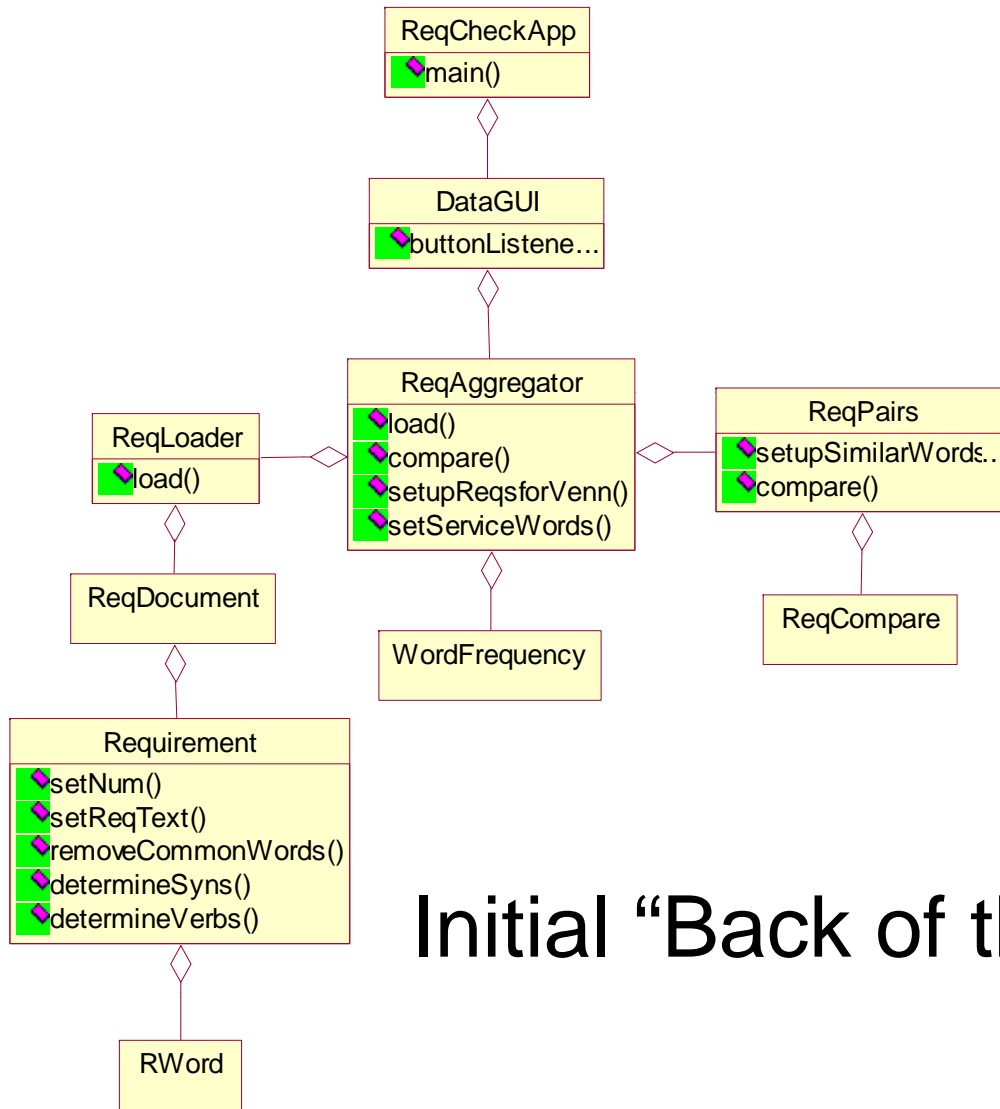


Requirements Matchmaker: Cost Estimation in Groups

Try to Use:

*[http://csse.usc.edu/tools/COCOMO
Suite.php](http://csse.usc.edu/tools/COCOMO Suite.php)*

Requirements Matchmaker



Initial "Back of the Envelope" Design



Lines of Code...

11974

Control Panel Data	109
CountedWord	460
CountedAuxWord	80
CSVFileFilter	46
CSVPrinter	120
DataGUI	5606
DataGUI.form	300
Distance	92
IconFrame	27
InfoBox	84
JSmartFileChooser	154
NumErrorDialog	94
OverWriteDialog	153
PairofReq	596
ReqAgg	622
ReqDoc	178
ReqLoader	52
Requirement	888
SkinDefaultRadio	121
SkinRadioChange	121
Timelog	105
ToolboxDialog	237
UnEditableTableModel	38
VennDrawer	1404
VennFileFilter	32
VennPrinter	93
Word	162



Grand Total = \$235K

	Cost Per Month	Number of Months	Number of Dev	Total Cost
Developers Full Time (4 months) <i>Entry Level = \$50K, Loaded \$100K</i>	8,333.33	4	2	66,666.67
Developers Part-Time (1 =year) <i>40% of full-time</i>	3,333.33	12	2	80,000.00
Senior Architect Part-time (1.5 years) <i>Architect = \$150K, Loaded \$300K</i> <i>Part-time = 15% of Full-time</i>	3,750.00	18	1	67,500.00
<i>Three LapTops and Internet Connection</i>	10,000.00			10,000.00
<i>Travel</i>	10,000.00			10,000.00
Total Cost				234,166.67