February 22, 2012

Course Registration Portal

Functional Point Analysis

Anshul Jain (Y09UC027)
Mumal Seth (Y09UC086)
Shreya Mundra (Y09UC150)
Karan Poddar (Y09UC301)

FUNCTIONAL POINT ANALYSIS

Inputs:

1. If an input has no. of fields greater than 7, then it is a complex input.
2. If input involves validation and/or interdependencies and has no. fields between 4 and 6, then the input is complex.
3. If input is in between 4 and 6 and has no interdependencies or validations, then it is average input.
4. If input involves validation and/or interdependencies and has no. fields between 2 and 5, then the input is average.
5. Else, input is simple.

Outputs:

1. Outputs have forms or web pages objects, etc. are complex outputs.
2. Outputs having simple html pages are simple outputs.
3. Else otherwise outputs are average.

Data Stores:

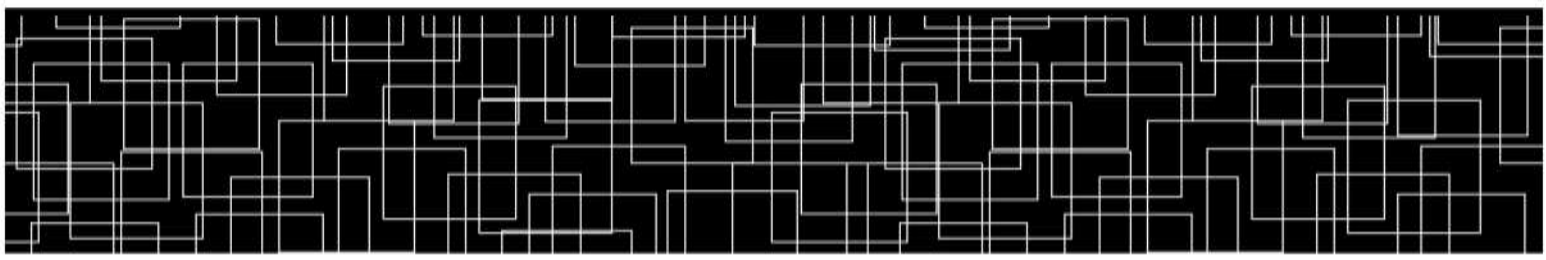
1. Data stores having 3 or less attributes and no links to other data stores are simple data stores.
2. Data stores having 4 to 5 attributes and doesn't have links to other data stores are average data stores.
3. Data stores having 2 to 3 attributes and have links to other data stores are average data stores.
4. Else, data stores are complex data stores.

Processing Inquiries:

1. If the query needs to access less than 3 attributes then the query is simple.
2. If the query needs to access 4 to 7 attributes then the query is average.
3. Else otherwise the query is complex.

Processing Updates:

1. Updates in complex data store are complex.
2. Updates in average data store are average.
3. Updates in simple data store are simple.



FUNCTIONAL POINT ANALYSIS

Counts

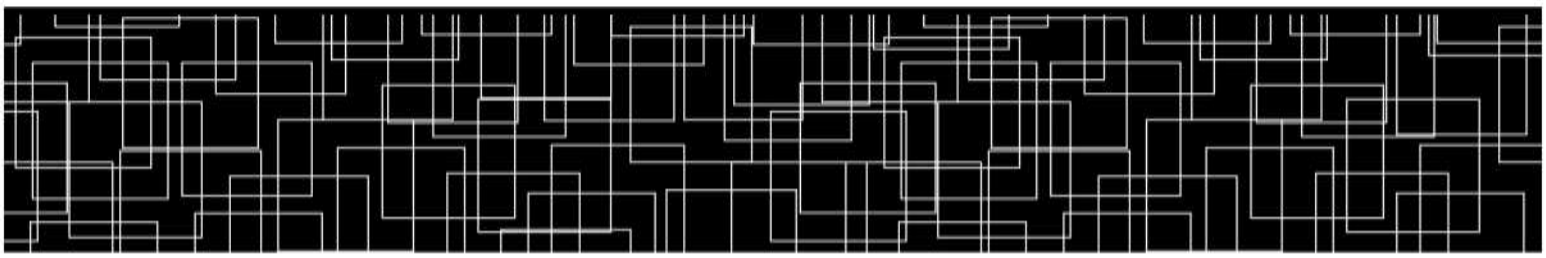
	Simple	Average	Complex
Inputs	1+4+7	1+1+3	0+3+2
Outputs	1+3+3	1+2+6	1+3+4
Data stores	1	3	3
Processing inquires	1+4+4	4+4+2	0+3+7
Processing updates	0+0+1	0+2+1	0+5+5
External interfaces	0	0	2

Weights

	Simple	Average	Complex
Inputs	2	4	6
Outputs	3	5	7
Data stores	5	10	15
Processing inquires	2	4	8
Processing updates	4	8	12
External interfaces	4	6	8

Functional Points

	Simple	Average	Complex
Inputs	24	20	30
Outputs	21	45	56
Data stores	5	30	45
Processing inquires	18	40	80
Processing updates	4	24	120
External interfaces	0	0	16
TOTAL	72	159	347



FUNCTIONAL POINT ANALYSIS

Calculating Adjusted Function Points 578

1. Data Communications 3
2. Distributed Data Processing 0
3. Performance 5
4. Heavily Used Configuration 4
5. Transaction Rate 3
6. On-line Data Entry 5
7. End -User Efficiency 3
8. On-line Update 2
9. Complex Processing 4
10. Reusability 5
11. Installation Ease 3
12. Operational Ease 3
13. Multiple Sites 0
14. Facilitate Change 3

Adjustment Influence (AI): 43

CAF = 0.65+0.01*AI
CAF = 1.08
Adjusted Function Points = Un-Adjusted Function Points * CAF = 625(Approx)
Assuming Professionals perform at an average of 10 function points per month
625 Function Points Divided by 10 = ~63 Person-months

Distributing 625 FP as Follows

- SRS 5%
- Analysis 12%
- Design 16%
- Coding & Unit Testing 40%
- Integration & System Testing 15%
- User Acceptance Testing 10%
- Training & Deployment 2%

FUNCTIONAL POINT ANALYSIS