

Lecture Topics

Understand how to define a new process in the Access Student Workbook



Basic Steps for Defining a Report Process Tutorial

Open computers and:

- Make a backup of your Access Student Workbook
- Open the Student Workbook
- Define a process
- Define a size measure for the process
- Create a new project
- Open the Size Estimating Template in the new project
- Do a conceptual design for the new project
- Enter the objects of the conceptual design in the Size Estimating template
- Estimate size (PROBE method D)
- Estimate effort (PROBE method D)

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PSP Advanced: Tutorial: Process Definition Tool with the Student Workbook

Define the Process

Symbol: **PSP**

Name: Final Report process

Purpose:

Type: RPT ☒ PSP Plan Summary: PSP1 ☒

Phases

ID	Sequence	Phase	Name
01	1	PLAN	Planning
02	2	Analyze	Analyze PSP Data
03	3	Write	Write the report
04	4	Review	Review the report
05	5	PM	Postmortem
* (Number)			

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The process example, used in this presentation, is for creating a PSP Final Report. This is a good example of the type of process the students should use for their “Performance Analysis Report.”



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Define a Size Measure

Size Measures, Relative Size Tables, and Parts Database

Personal Software Process®

Size Measure

Symbol

LOT

Name

Lines of text

Description

Single line of text in the report

Relative Size Table

Update

Part Type	Description	VS	S	M	L	VL
analysis	analysis paragraph	4	0	15	25	35
		0	0	0	0	0

Parts Database

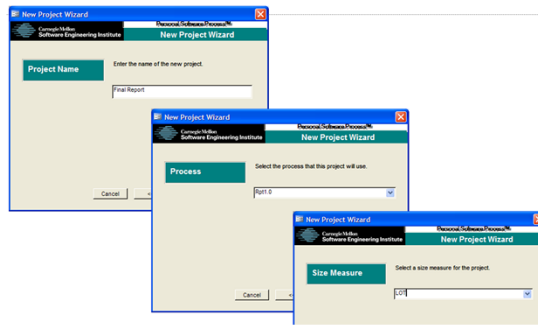
Part ID	Size Measure	LOC Type	Part Type	Name	Size	ContainerName
Number1	LOT				0	

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This example uses Lines of Text. They could consider other measures, such as number of words, pages, paragraphs, graphs, tables, etc.



Create the Report Project



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Enter the Conceptual Design

Software Engineering Institute

PSP Size Estimating Template

Student

ds

Program

Final Report

Instructor

jwb

Start Date

05-Oct-06

End Date

Language

Visual Basic

Parts: Base

ID	Name	Plan			Actual		
		Base	Del	Add	Base	Del	Add
1	size analysis	0	0	0	0	0	0
Base TOTAL		0	0	0	0	0	0

Parts: Added

ID	Name	Part Type	Items	Plan		Actual	
				Rel. Sz.	Size	Items	Size
1	size analysis	analysis	1	L	25.0	0	0
2	time analysis	analysis	1	M	15.0	0	0
3			0		0.0	0	0
Added Parts TOTAL			40			0	

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This is only an abbreviated example to demonstrate how to plan the report, the students should use the report requirements to come up with their actual conceptual design.

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Estimate Size and Effort

PSP Size Estimating Template

PROBE Calculation Worksheet		Size	Time
Added Size (A):	A=BA+PA	40	
Estimated A&M (E):	E=BA+PA+M	40	
PROBE method used: (A,B,C,D)		0 <input type="button" value="v"/> D <input type="button" value="v"/>	
Correlation (R ²):			
Regression Parameter (B0):	Size and Time	0	0
Regression Parameter (B1):	Size and Time	1	1
Projected A&M (P):	P=B0+B1*E	40	
Estimated Total Size (T):	T=P+B-D-M+R	40	
Estimated Total New Reusable (NR):	sum of * items	0	
Estimated Total Development Time:	Time=B0+B1*E		60
Prediction Range:	Range	0	0
Upper Prediction Interval:	UP=P+P-Range	0	0
Lower Prediction Interval:	LP=P-P-Range	0	0
Prediction Interval Percent:		70%	70%

The students will have to use method D for both size and time since they have no historical data for this process.



Plan Summary

Carnegie Mellon Software Engineering Institute PSP1 Project Plan Summary

Student: db
Program: Final Report
Instructor: jwo

Start Date: 05-Oct-05
End Date:
Language: Visual Basic

Summary

	Plan	Actual	To Date
Productivity	40.0	0.0	0.0

Program Size Summary LOT: Lines of text

	Plan Size	Actual Size	To Date
Base (B)	0.00	0.00	
Deleted (D)	0.00	0.00	
Modified (M)	0.00	0.00	
Added (A)	40.00	0.00	
Revised (R)	0.00	0.00	0.00
Added & Modified (A&M)	40.00	0.00	0.00
Total (T)	40.00	0.00	0.00
New Revision (NR)	0.00	0.00	0.00
Estimated Addl (E)	40.00		

Time in Phase

Phase	Plan	Actual	To Date	To Date %
PLAN	5	0	0	0.0%
Analyze	20	0	0	0.0%
Write	20	0	0	0.0%
Review	10	0	0	0.0%
PM	5	0	0	0.0%
Total	60	0	0	

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Messages to Remember

The Access Student Workbook can be used to:

- Define a non-software process
- Define a non-software size measure
- Create a non-software project
- Plan a non-software project



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Plan Your Performance Analysis Report

Enter the report process you created into the Access Student Workbook:

1. Enter your process
2. Define its measures
3. Create a new project
4. Create a conceptual design for the report
5. Estimate size and effort for the report
6. Review Plan Summary

If you have any questions or issues, ask your instructor for assistance.

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Now that you have shown the students how to enter a new process, size measure, and plan the report project; have them enter their report process and create their report plan. Walk around the class and help any students having tool issues, one-on-one.



