

Project: Dealership Management System

CSE 5325 – Fall 2019

Project Management

Module: COCOMO

Deliverable: COCOMO Estimate Report

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1. INTRODUCTION

Dealership Management System is a website that allows the customers to look at different ranges of automobile models and compare them in terms of their make, features, cost etc. In addition to that it would also allow employees to login to the web portal, keep track of the customers and their orders, add or delete different models and makes of the automobiles sold through the dealer company, analyze the profits made by the company through the sale of the automobiles and also to keep personalized notes about different information such as requests, to-do items, etc.

This report gives an overview of the cost estimation of the DMS system using a software cost estimation model called Constructive Cost Model (COCOMO II). By Specifying the size of the project in number of Source Lines Of Code (SLOC) and setting up the scale drivers and Cost drivers to the value specified we estimate the project cost and duration.

As we are following the Waterfall model, we are calculating the cost at each phase of the project. While calculating the cost for the overall project we include the cost for the human resources as well as the non- human resources which includes the costs for licensing, setting up server, workstations, etc.

In this report we explain the logic behind setting up of the 5 Scale drivers and 17 Cost drivers which is used by the COCOMO tool in estimating the effort, cost and duration of the project.

2. ESTIMATING FACTORS

2.1 SOURCE LINES OF CODE

The following is the number of lines of code delivered as part of this project, A justification for the total amount of LOC is provided below:

SLOC Source Lines Of Code	Value Chosen: 5000
Justification: Since the DMS contains both frontend as well as integrated backend and also the system contains different set of functionalities for customers, merchants and an internal system for the client company, the logical lines of code for the system would be high.	

2.2 SCALE DRIVERS

The following is the list of scale drivers, the values applicable to this project and a justification for each value chosen:

PREC Precendentedness	Value Chosen: Very High – Largely Familiar
Justification: Since Web Lab technologies are well versed with creating web applications for its clients and the team is highly familiar with the development methodologies, hence the project is largely familiar to the team handling the project.	
FLEX Development Flexibility (FLEX)	Value Chosen: Low – Occasional Relaxation
Justification: As the requirements are fixed during the requirements gathering phase, there would be just some occasional relaxations to the requirements.	
RESL Architecture / Risk Resolution	Value Chosen: High - Generally (75%)
Justification: Since the architecture has been laid down well, validated to avoid risks and there wouldn't be any major changes, we have kept Architecture/ Risk Resolution as High – Generally (75%).	
TEAM Team cohesion	Value Chosen: Very High – Highly cooperative
Justification: As the team members are well acquainted with each other and also there is a high degree of co-operation among the team as they are working closely for the past few years. Hence the team cohesion scale driver is chosen to be highly cooperative.	
PMAT Process maturity	Value Chosen: High – CMM Level 3
Justification: Since the Organization has defined a set of standard process which is used to maintain consistency across the projects throughout the organization, we have chosen the SEI Maturity Scale to be level 3.	

SystemStar - Dealership Management System (Component1)

File View Reports Components Tools Preferences Monte Carlo Help

Estimate: Dealership Management System ID: Model: COCOMO® II 2000

Component: Component1 ID: Increment: 1

ACT ARC CBR CDF CDR CMP CST DET EBR EFF EQS GCS GMI GST IDT ISM MSZ NAM PDF RSK SCH SZ SSM STR

Totals for entire Project		Effort (PM)	Duration (Mo)	Cost (K\$)	Productivity	Equivalent Size
Requirements	RQ:	0.4	0.9	7.3		Total Size: 5,000
Development	PD+DD+CT+IT:	6.2	5.2	209.0	807.5	
Total	RQ+PD+DD+CT+IT:	6.6	6.1	216.3	754.7	

COCOMO II Scale Factors for Estimate: Dealership Management System

Model: COCOMO® II 2000
 Model ID: 2000
 Phases: Waterfall
 Model Type: COCOMO II
 Select Model...

Precedentedness: Largely Familiar
 Development Flexibility: Occasional Relaxation
 Architecture / Risk Resolution: Generally (75%)
 Team Cohesion: Highly Cooperative
 Process Maturity: SEI CMM Level 3

Show Equations
 APM Settings...

Drivers & Size Model REVL Reuse Function Points Increments Breakage Costs Rates Maint Filter Descr.

Dealership Management System: 6.6 PM, 6.1 Months | Component1: 6.6 PM | EAF: 0.3992 | Level: 1

2.3 COST DRIVERS

The following is the list of cost drivers, the values applicable to this project and a justification for each value chosen:

ACAP Analyst Capability	Value Chosen: High – 75 th percentile
Justification: As DMS isn't a large-scale project and the team holds designer who will participate in the requirements phase to understand and lay down the requirements thoroughly, we have kept the measure of analyst capability as high.	
APEX Application experience	Value Chosen: Very High – 6 years
Justification: The team at Web Labs are highly experienced with developing web applications and has substantial amount of knowledge in building the application, hence we have chosen the application experience to be very high.	
PCAP Programmer capability	Value Chosen: High – 75 th percentile
Justification: The programming team is assumed to have high amount of experience in developing web applications and are also well versed in Bootstrap, DB and designing of interactive UI. So, we have chosen programmer capability to be high.	
PLEX Platform experience	Value Chosen: High – 3 years
Justification: As the team has developed few web applications in the past using the visual studio and other software development packages and also the testers are well versed in using the testing tool efficiently, we have chosen the platform experience to be High.	

LTEX Language and tool experience	Value Chosen: High – 3 years
Justification: As our development team has significant knowledge and experience of the language and tools because of the projects being done earlier, we have chosen language and tool experience as high.	
PCON Personnel continuity	Value Chosen: High – 6% turnover per year
Justification: As the teams at Web lab technologies are highly driven and focused towards the project and have experienced members who have been guiding and helping the freshers in the team, we have chosen the personnel continuity to be high.	
TOOL Use of software tools	Value Chosen: Very High – Mature
Justification: The tools used by the team for the development of the project is highly reusable, and is integrated with different process. Hence, we choose the driver to be very high.	
SITE Multisite development	Value Chosen: Very High – Same building
Justification: The teams at web lab technologies are collocated in the same building and the communication between the developers, testers and other team members are done through occasional meetings or video conferencing.	
SCED Development schedule	Value Chosen: Low – 85% of Nominal Schedule
Justification: The schedule of the project needs to be compressed as the estimated time is already exceeding given timeline and also the project needs to be delivered in the allotted timeline so we choose the development schedule to be low.	
TIME Execution time constraint	Value Chosen: High – 70% use of available execution time
Justification: As DMS is a web-based application it will use very high execution time as there would be both frontend and backend processing and validations during customer operations and the merchant operations and hence we have marked execution time constraint as high.	
STOR Main storage constraint	Value Chosen: High – 70% use of available storage.
Justification: As the DMS system is a web-based application which also contains the internal system of the company which stores all the details of the employees and also the application will have to display various car makers and models along with their specs. So, we have chosen the main storage constraint to be high.	
PVOL Platform volatility	Value Chosen: Low – Major Changes every 12 months.
Justification: The platform volatility value is chosen to be low since the changes in the coding platform, server, databases is assumed to be slow i.e. once in a year as even the new version of Visual studio is released merely once every year.	
RELY Required reliability	Value Chosen: Nominal - Moderate
Justification: As the DMS system would be housed in the client's own data center the major risk of server failure would be handled by the client in the later phases and there won't be any severe consequences because of software failure, we have chosen required reliability to be moderate, easily recoverable losses.	
DATA Database size	Value Chosen: High
Justification: As DMS system provides different functionalities for different users and also since the application would be used by the employees of the company as well as the	

customers, the data that is needed to test the software and whether the application is running as per the design would be High.	
CPLX Product complexity	Value Chosen: Nominal – Nested code
Justification: The project is assumed to be not highly complex. There wouldn't be frequent hits to the databases and it would just include multiple type of files for both frontend and backend, standard math routines and nested code	
RUSE Required reusability	Value Chosen: Nominal – Across Project
Justification: The software components developed for the DMS system are reusable across the project as it would save substantial amount of time.	
DOCU Documentation	Value Chosen: Nominal – Right-sized to life-cycle needs
Justification: As we are following Waterfall methodology, documentation would be done after every phase of the project and these would be done in right amount and at right times. Hence, we have chosen the documentation driver to be Nominal.	

★ SystemStar - Dealership Management System (Component1)

File View Reports Components Tools Preferences Monte Carlo Help

Estimate: Dealership Manag ID: Model: COCOMO® II 2000

Component: Component1 ID: Increment: 1

ACT ARC CBR CDF CDR CMP CST DET EBR EFF EQS GCS GMI GST IDT ISM MSZ NAM PDF RSK SCH SZ SSM STR

Totals for entire Project		Effort (PM)	Duration (Mo)	Cost (K\$)	Productivity	Equivalent Size
Requirements	RQ:	0.4	0.9	7.3		Total Size: 5,000
Development	PD+DD+CT+IT:	6.2	5.2	209.0	807.5	
Total	RQ+PD+DD+CT+IT:	6.6	6.1	216.3	754.7	

COCOMO II Cost Drivers for Component: Component1

Personnel	Platform	Product
ACAP... High	TIME... High	RELY... Nominal
APEX... Very High	STOR... High	DATA... High
PCAP... High	PVOL... Low	CPLX... Nominal
PLEX... High		RUSE... Nominal
LTEX... High		DOCU... Nominal
PCON... High		

Project	Size Summary	User Defined
TOOL... Very High	Size: 5000	USR1... Undefined
SITE... Very High	Method: SLOC	USR2... Undefined
SCED... Low		USR3... Undefined
		USR4... Undefined

Drivers & Size / Model / REVL / Reuse / Function Points / Increments / Breakage / Costs / Rates / Maint / Filter / Descr.

Dealership Management System: 6.6 PM, 6.1 Months Component1: 6.6 PM EAF: 0.3992 Level: 1

3. PROJECT FINAL TIMELINE AND COST STRUCTURE

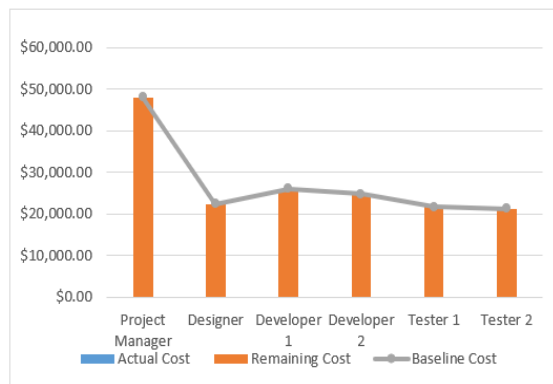
1. COST ESTIMATION

1.1 Cost estimation before **COCOMO** using Microsoft project plan is as follows:

RESOURCE COST OVERVIEW

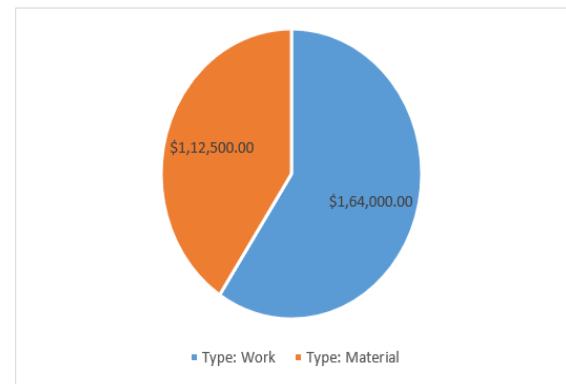
COST STATUS

Cost status for work resources.



COST DISTRIBUTION

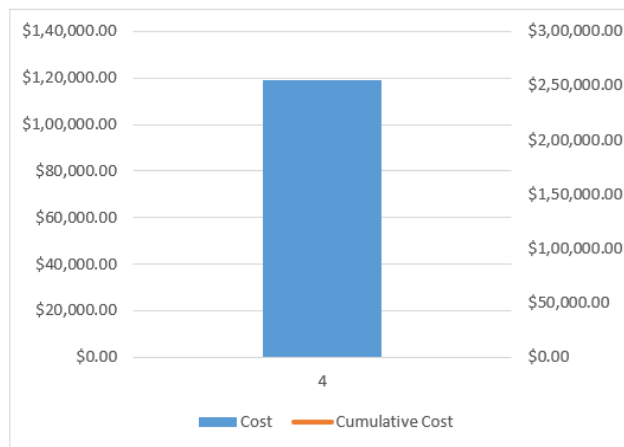
How costs are spread out amongst different resource types.



CASH FLOW

Baseline Cost

\$276,500.00



Name	Remaining Cost	Cost
DMS - Project Management	\$276,500.00	\$276,500.00

Some of the **non-human resources** included in calculating the cost is shown in the following table:

Machine	Specifications	Quantity	Cost	Total
Apple MacBook pro	2.3GHz 8-core Intel Core i9, Turbo Boost up to 4.8GHz, with 16MB shared L3 cache	6	\$ 2900	\$ 17000
Microsoft visual studio	Enterprise edition with MSDN 2 (yearly subscription for access to Microsoft dev)	6	\$ 6000	\$36,000.00
Telerik Reporting tool	devCraft Ultimate	1	\$ 2200	\$ 2200
MongoDB	Atlas M90 Database	1	\$38000	\$38000
Apache HTTP server	Version 2.4	1	Open-source	\$0
Azure Backup Server	Version 3	1	\$5000	\$5000
Hardware Setup in Clients datacenter			\$300	\$300
TestComplete Testing tool	PRO Bundle	2	\$7000	\$14000
Total				\$112,500

The cost for the **human resources** is as follows:

Resource	Hourly wage	Monthly wage
Project Manager	\$ 100/ hour	\$ 16,000 / month
Developer	\$ 50/ hour	\$ 8,000 / month

COST DETAILS

Cost details for all work resources.

Name	Standard Rate	Work
Project Manager	\$100.00/hr	480 hrs
Designer	\$50.00/hr	448 hrs
Developer 1	\$50.00/hr	520 hrs
Developer 2	\$50.00/hr	496 hrs
Tester 1	\$50.00/hr	432 hrs
Tester 2	\$50.00/hr	424 hrs

Final cost estimation before using Microsoft project plan is as follows:

Human Resources cost	\$ 164,000
Hardware cost and other Software costs	\$ 112,500
Total Cost	\$ 276,500

1.2 Cost Estimation using COCOMO II is as follows:

Since we are using Waterfall process model, we calculate cost at each phase of the software development.

Development phases wise cost is as follows:

The screenshot shows the SystemStar software interface for 'Dealership Management System (Component1)'. The 'Estimate' tab is active, displaying the COCOMO II model results. The 'Component' is 'Component1' and the 'Increment' is '1'. The 'Model' is 'COCOMO® II 2000'. The 'ACT' tab is selected in the bottom navigation bar.

Totals for entire Project	Effort (PM)	Duration (Mo)	Cost (K\$)	Productivity	Equivalent Size
Requirements RQ:	0.4	0.9	7.3		Total Size: 5,000
Development PD+DD+CT+IT:	6.2	5.2	209.0	807.5	
Total RQ+PD+DD+CT+IT:	6.6	6.1	216.3	754.7	

Costs for Component: Component1

Phase	Cost per Person-Month	Inherit	Use Rates Tab & Labor Distribution
Requirements	\$ 16800	<input type="checkbox"/> Inherit RQ	<input type="checkbox"/> Use Rates Tab & Labor Distribution
Product Design	\$ 7200	<input type="checkbox"/> Inherit PD	<input type="checkbox"/> Use Rates Tab & Labor Distribution
Detailed Design	\$ 16000	<input type="checkbox"/> Inherit DD	<input type="checkbox"/> Use Rates Tab & Labor Distribution
Code & Unit Test	\$ 54000	<input type="checkbox"/> Inherit CT	<input type="checkbox"/> Use Rates Tab & Labor Distribution
Integration & Test	\$ 43200	<input type="checkbox"/> Inherit IT	<input type="checkbox"/> Use Rates Tab & Labor Distribution
Maintenance	\$ 26800	<input type="checkbox"/> Inherit MN	<input type="checkbox"/> Use Rates Tab & Labor Distribution

Drivers & Size / Model / REVL / Reuse / Function Points / Increments / Breakage / Costs / Rates / Maint / Filter / Descr /

Dealership Management System: 6.6 PM, 6.1 Months | Component1: 6.6 PM | EAF: 0.3992 | Level: 1

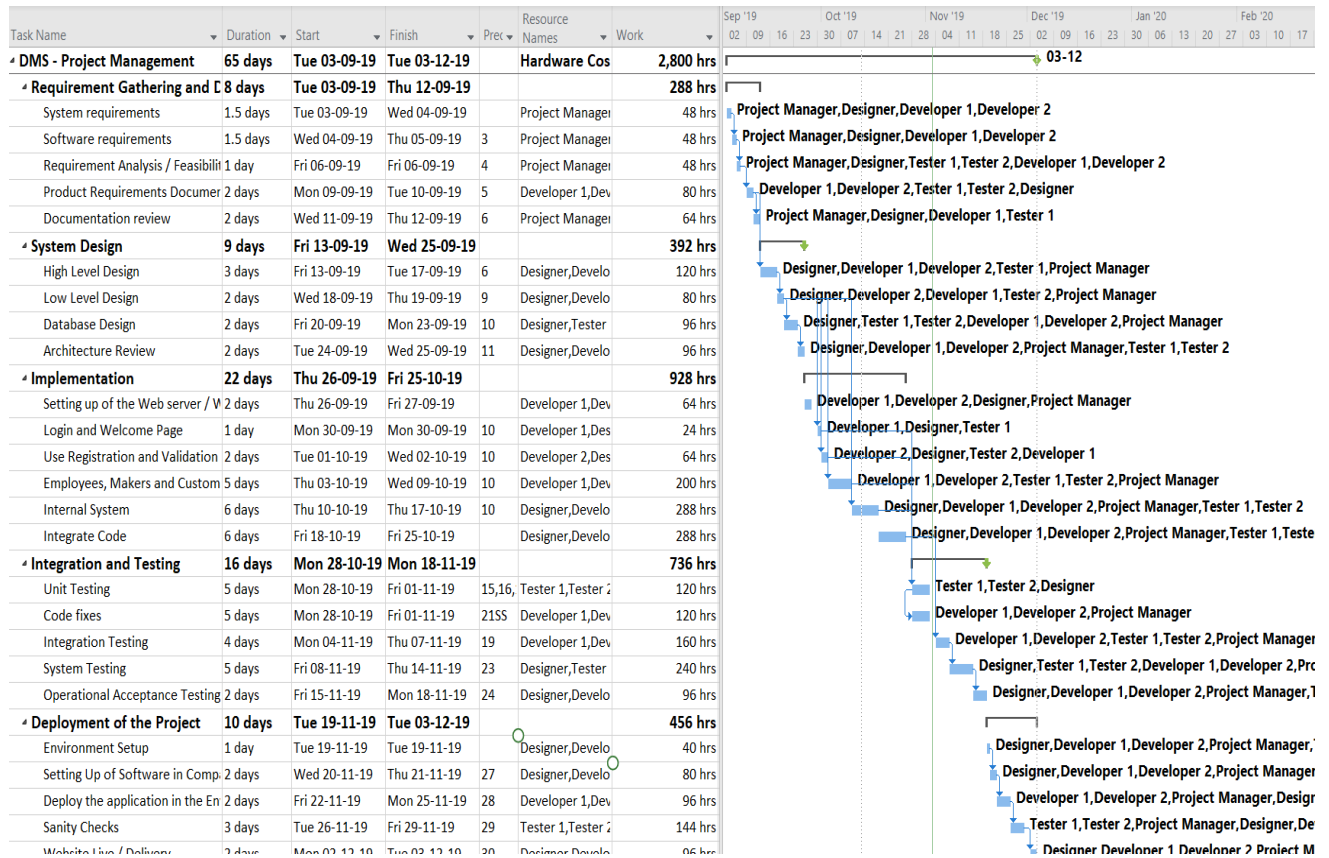
Final cost estimation using COCOMO II is as follows:

RQ+PD+DD+CT+IT	\$ 216,300
Hardware cost and other Software costs	\$ 112,500
Total Cost	\$ 328,800

Total Cost estimation after adding **50% profit** is **\$493,200**.
Hence, we charge our client **\$493,200**.

2. WORK AND TIME ESTIMATION

2.1 Work and Time estimation before COCOMO using Microsoft project plan is as follows:



Time estimated with Microsoft Project Planner is 3 months.

Start Date is 3rd September and estimated End date is 3rd December.

2.2 Work and Time estimation using COCOMO II is as follows:

As we are using Waterfall Process model, the time required to complete all the phases of the Waterfall Model according to COCOMO II is estimated to be 6.1 months. This estimate is calculated based on the 5 scale drivers and the 17 cost drivers. So, the actual time to deliver this project would be around 6 months.

Totals for entire Project	Effort (PM)	Duration (Mo)	Cost (K\$)	Productivity	Equivalent Size
Requirements RQ:	0.4	0.9	7.3		Total Size: 5,000
Development PD+DD+CT+IT:	6.2	5.2	209.0	807.5	
Total RQ+PD+DD+CT+IT:	6.6	6.1	216.3	754.7	

Time Estimated using the COCOMO II tool is 6 months.

Start Date is 3rd September, 2019 and the estimated end date is 3rd March, 2020.

4. CONCLUSION AND RECOMMENDATIONS

By using COCOMO II we get an accurate idea of how much time the DMS project will take and the accurate cost needed to develop the project. By considering all the scale factors and the cost factors in accordance to our Web Lab Technologies and by using the effort and the duration equation we get an estimate of the project cost and duration.

The duration of the project would be 6.1 months as estimated by the COCOMO II tool and we determine that the project would not be completed within the allotted 3 months of time period. It is because of many factors like the expected number of functionalities, experience of the developers and testers, database size, familiarity with using the software development tools, etc. The project would cost \$493,200 including the 50% profit for the duration of 6.1 months.

As our team consists of 2 developers, 2 testers, 1 designer and 1 project manager it would be too ambitious to complete the entire project within the allotted time frame. As the time schedule is very limited and aggressive it is very ambitious to use waterfall process model for the development of the project. One recommendation would be to provide the major functionalities of the system first then integrate rest of the functionalities later once the major functionalities have been delivered and deployed and taking into consideration the customers response and behavior towards the initial product and improvising it. In this way the project can be delivered in two phases – first phase including the major functionalities and internal system and second phase containing the rest of the functionalities.

If following the timeline is a strict constraint then it is recommended to use Rapid application development model also called the incremental model. Here the phases of the project are developed in parallel as if they are a project of its own and then integrated to form the final product.

5. Appendices

Some of the reports generated by the COCOMO II tool is as follows :

★ Dealership Management System - Activity Report

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Dealership Management System - Activity Report

SystemStar 3.0 Demo November 3, 2019 14:03:53 Page: 1

Estimate Name:	Dealership Management System	Estimate ID:	
Model Name:	COCOMO® II 2000	Model ID:	2000
Process Model:	COCOMO® II Model	Phases:	Waterfall

Activity	Effort in Person-Months					Total	MN
	RQ	PD	DD	CT	IT	RQ to IT	
Requirements	0.2	0.1	0.1	0.1	0.0	0.5	0.0
Product Design	0.1	0.4	0.1	0.2	0.1	0.9	0.0
Programming	0.0	0.1	0.9	1.3	0.4	2.8	0.0
Test Plans	0.0	0.0	0.1	0.1	0.0	0.3	0.0
V & V	0.0	0.1	0.1	0.2	0.4	0.8	0.0
Project Office	0.1	0.1	0.1	0.2	0.1	0.6	0.0
CM/QA	0.0	0.0	0.1	0.2	0.1	0.4	0.0
Manuals	0.0	0.1	0.1	0.1	0.1	0.4	0.0
Totals	0.4	1.1	1.6	2.2	1.3	6.6	0.0

★ Dealership Management System - Cost Report

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Dealership Management System - Cost Report

SystemStar 3.0 Demo November 3, 2019 14:05:38 Page: 1

Estimate Name:	Dealership Management System	Estimate ID:	
Model Name:	COCOMO® II 2000	Model ID:	2000
Process Model:	COCOMO® II Model	Phases:	Waterfall

Cost per Component (K\$)						
Component Name	RQ	PD	DD	CT	IT	Total RQ to IT
Component1	7.3	7.6	26.3	120.4	54.8	216.3

Cost Summary						
Component Totals	7.3	7.6	26.3	120.4	54.8	216.3
Grand Total	7.3	7.6	26.3	120.4	54.8	216.3

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Dealership Management System - Cost & Breakage Report

SystemStar 3.0 Demo

November 3, 2019

14:04:46

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Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Increment 1 of 1

Names of Leaf Components	Developed Size	RQ Cost	PD Cost	DD Cost	CT Cost	IT Cost	Total Cost (K\$)
Component1	5,000	7.3	7.6	26.3	120.4	54.8	216.3
Incr 1 Total	5,000	7.3	7.6	26.3	120.4	54.8	216.3
Grand Total	5,000	7.3	7.6	26.3	120.4	54.8	216.3

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Dealership Management System - Cost Driver Report

SystemStar 3.0 Demo

November 3, 2019

14:05:03

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Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Component Name	EAF	A C A P	A P E X	C P L X	D A T A	P C A P	R E L Y	R U S E	S C E D	S T O R	T I M E	T O O L	P L E X	L T E X	P C O N	S I T E	P V O L	D O C U
Component1	0.3992	H	VH	N	H	H	N	N	L	H	H	VH	H	H	H	VH	L	N

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Dealership Management System - Effort & Breakage Report

SystemStar 3.0 Demo

November 3, 2019

14:06:08

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Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Increment 1 of 1

Names of Leaf Components	Developed Size	RQ Effort	PD Effort	DD Effort	CT Effort	IT Effort	Total Effort
Component1	5,000	0.4	1.1	1.6	2.2	1.3	6.6
Incr 1 Total	5,000	0.4	1.1	1.6	2.2	1.3	6.6
Grand Total	5,000	0.4	1.1	1.6	2.2	1.3	6.6

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Dealership Management System - Detail Report

SystemStar 3.0 Demo

November 3, 2019

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Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Component Name: Component1
Increment: 1
Developed Size: 5,000

Component ID:
Level: 1
EAF: 0.3992

Phase	Effort (Person-Months)	Cost (K\$)	Duration (Months)	Staffing
RQ -- Requirements	0.4	7.3	0.9	0.5
PD -- Product Design	1.1	7.6	1.3	0.8
DD -- Detailed Design	1.6	26.3	1.2	1.4
CT -- Code & Unit Test	2.2	120.4	1.6	1.4
IT -- Integration & Test	1.3	54.8	1.1	1.1
Development (PD+DD+CT+IT)	6.2	209.0	5.2	
Totals (RQ+PD+DD+CT+IT)	6.6	216.3	6.1	
MN -- Maintenance (per year)	0.0	0.0		0.0

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Component Structure Report

SystemStar 3.0 Demo

November 3, 2019

14:06:52

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Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Level	Component Name	Developed Size	Effort in Person- Months	Cost (K\$)	Incre- ment
1	Component1	5,000	6.6	216.3	1

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Dealership Management System - Schedule Report

SystemStar 3.0 Demo

November 3, 2019

14:07:11

Page: 1

Estimate Name: Dealership Management System
Model Name: COCOMO® II 2000
Process Model: COCOMO® II Model

Estimate ID:
Model ID: 2000
Phases: Waterfall

Month	Effort this Month (Person-Months)						Cumulative Effort	Cost (K\$) This Month	Cumulative Cost (K\$)
	RQ	PD	DD	CT	IT	Total			
1	0.4	0.1	0.0	0.0	0.0	0.5	0.5	7.9	7.9
2	0.0	0.8	0.0	0.0	0.0	0.8	1.3	5.9	13.9
3	0.0	0.1	1.1	0.0	0.0	1.3	2.6	19.2	33.0
4	0.0	0.0	0.5	0.9	0.0	1.4	4.0	54.9	88.0
5	0.0	0.0	0.0	1.4	0.0	1.4	5.4	74.0	162.0
6	0.0	0.0	0.0	0.0	1.1	1.1	6.5	48.8	210.8
7	0.0	0.0	0.0	0.0	0.1	0.1	6.6	5.5	216.3

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- [5] <https://www.mongodb.com/cloud/atlas/pricing>
- [6] <https://httpd.apache.org/docs/>
- [7] <https://www.telerik.com/purchase/individual/reporting.aspx>
- [8] <https://visualstudio.microsoft.com/vs/pricing/>
- [9] <https://smartbear.com/product/testcomplete/pricing/>
- [10] <https://azure.microsoft.com/en-us/pricing/details/backup/>