Module 8 Assignment Submission Earned Value

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CS6525 – Software Requirements Analysis
University of New Brunswick

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1. Introduction

This document is a submission for the Module 8 Assignment, which is an Earned Value exercise.

2. Spreadsheet Screenshot

Your student id #	3739298					
			Planned Hours			
		Week 1	Week 2	Week 3		
Workshop Preparation	Vinay	40	10	0		
Workshop Treparation	Ashique	10	4	0		
Identifying Stakeholders	Ashique	30	0	0		
System Objectives	Vinay	0	30	40		
System Objectives	Ashique	0	36	40		
Hourly Rates	Vinay	\$223				
Tiourly Nates	Ashique	\$177				
		Act	ual Hours Worl	ked		
		Week 1	Week 2	Week 3		
Workshop Preparation	Vinay	48	10			
Workshop Freparation	Ashique	8	1			
Identifying Stakeholders	Ashique	27	0			
System Objectives	Vinay	0	34			
System Objectives	Ashique	0	44			
		What they en	tered in their t	imesheets at		
		_	he week for "E			
		Complete"				
		Week 1	Week 2	Week 3		
Washahan Duanasattas	Vinay	10	0			
Workshop Preparation	Ashique	4	0			
Identifying Stakeholders	Ashique	0	0			
Custom Objectives	Vinay	75	35			
System Objectives	Ashique	90	50			

3. Planned Value

Total planned value for the entire project: \$48,000

		Pla	nned Ho	urs	Total Planned	Hourly	Planned Value
		Week 1	Week 2	Week 3	Hours	Rates	= Hours * Rate
Workshop Preparation	Vinay	40	10	0	50	\$223	\$11,150
	Ashique	10	4	0	14	\$177	\$2,478
Identifying Stakeholders	Ashique	30	0	0	30	\$177	\$5,310
System Objectives	Vinay	0	30	40	70	\$223	\$15,610
	Ashique	0	36	40	76	\$177	\$13,452
		Total Planned Value		\$48,000			

4. Actual Cost

Total actual cost at the end of week 1: \$16,899

Total actual cost at the end of week 2: \$34,676

		Actual Hours Worked		Hourly	AC Week 1 = Week-1	AC Week 2 = (Week-1 Hrs +	
		Week 1	Week 2	Week 3	Rates	Hrs * Rate	Week 2 Hrs) * Rate
Workshop Preparation	Vinay	48	10		\$223	\$10,704	\$12,934
	Ashique	8	1		\$177	\$1,416	\$1,593
Identifying Stakeholders	Ashique	27	0		\$177	\$4,779	\$4,779
System Objectives	Vinay	0	34		\$223	\$0	\$7,582
	Ashique	0	44		\$177	\$0	\$7,788
					Total	\$16,899	\$34,676

5. Estimated Cost Required to Complete (ECRC)

Total ECRC at the end of week 1: \$35,593

Total ECRC at the end of week 2: \$16,655

		ETC at th	e end of	Hourly	ECRC (= ETC x Hourly Rate) at the en		
		Week 1	Week 2	Rates	Week 1	Week 2	
Workshop Preparation	orkshop Preparation Vinay		0	\$223	\$2,230	\$0	
	Ashique	4	0	\$177	\$708	\$0	
Identifying Stakeholders	Ashique	0	0	\$177	\$0	\$0	
System Objectives	Vinay	75	35	\$223	\$16,725	\$7,805	
	Ashique	90	50	\$177	\$15,930	\$8,850	
				Total	\$35,593	\$16,655	

6. Current Estimated Cost At Completion (CECC)

Total CECC at the end of week 1: \$52,492

Total CECC at the end of week 2: \$51,331

		AC at th	e end of	ECRC at t	he end of	CECC (AC + ECRC) at the end of	
		Week 1	Week 2	Week 1	Week 2	Week 1	Week 2
Workshop Preparation	Vinay	\$10,704	\$12,934	\$2,230	\$0	\$12,934	\$12,934
	Ashique	\$1,416	\$1,593	\$708	\$0	\$2,124	\$1,593
Identifying Stakeholders	Ashique	\$4,779	\$4,779	\$0	\$0	\$4,779	\$4,779
System Objectives	Vinay	\$0	\$7,582	\$16,725	\$7,805	\$16,725	\$15,387
	Ashique	\$0	\$7,788	\$15,930	\$8,850	\$15,930	\$16,638
	Total	\$16,899	\$34,676	\$35,593	\$16,655	\$52,492	\$51,331

7. % Complete

% complete for all effort at the end of week 1: 32.19%

% complete for all effort at the end of week 2: 67.55%

		AC at the	e end of	CECC at t	he end of	% C (= AC / CECC) at the end of		
		Week 1	Week 2	Week 1	Week 2	Week 1	Week 2	
Workshop Preparation	Vinay	\$10,704	\$12,934	\$12,934	\$12,934	82.76%	100.00%	
	Ashique	\$1,416	\$1,593	\$2,124	\$1,593	66.67%	100.00%	
Identifying Stakeholders	Ashique	\$4,779	\$4,779	\$4,779	\$4,779	100.00%	100.00%	
System Objectives	Vinay	\$0	\$7,582	\$16,725	\$15,387	0.00%	49.28%	
	Ashique	\$0	\$7,788	\$15,930	\$16,638	0.00%	46.81%	
	Total	\$16,899	\$34,676	\$52,492	\$51,331	32.19%	67.55%	

8. Earned Value

Total earned value at the end of week 1: \$15,453

Total earned value at the end of week 2: \$32,426

		% C at th	e end of	Planned	Earned Value (= % C * PV) at the end		
		Week 1	Week 2	Value	Week 1	Week 2	
Workshop Preparation	Vinay	82.76%	100.00%	\$11,150	\$9,228	\$11,150	
	Ashique		100.00%	\$2,478	\$1,652	\$2,478	
Identifying Stakeholders	Ashique	100.00%	100.00%	\$5,310	\$5,310	\$5,310	
System Objectives	Vinay	0.00%	49.28%	\$15,610	\$0	\$7,692	
	Ashique	0.00%	46.81%	\$13,452	\$0	\$6,297	
	Total	32.19%	67.55%	\$48,000	\$15,453	\$32,426	

9. Cost Variance %

		AC at the	e end of	EV at the	e end of	Cost Variance (= (EV-AC)/EV) at the end of		
		Week 1	Week 2	Week 1	Week 2	Week 1	Week 2	
Workshop Preparation	Vinay	\$10,704	\$12,934	\$9,228	\$11,150	-16.00%	-16.00%	
	Ashique	\$1,416	\$1,593	\$1,652	\$2,478	14.29%	35.71%	
Identifying Stakeholders	Ashique	\$4,779	\$4,779	\$5,310	\$5,310	10.00%	10.00%	
System Objectives	Vinay	\$0	\$7,582	\$0	\$7,692	-	1.43%	
	Ashique	\$0	\$7,788	\$0	\$6,297	-	-23.68%	
	Total	\$16,899	\$34,676	\$15,453	\$32,426	-9.36%	-6.94%	

10. Schedule Variance %

Total schedule variance % at the end of week 1: 1.33%

Total schedule variance % at the end of week 2: _____-3.42%

		EV at the	e end of	Planne	d Value	Schedule Variance (= (EV-PV)/PV) at the end		
		Week 1	Week 2	Week 1	Week 2	Week 1	Week 2	
Workshop Preparation	Vinay	\$9,228	\$11,150	\$8,920	\$11,150	3.45%	0.00%	
	Ashique	\$1,652	\$2,478	\$1,770	\$2,478	-6.67%	0.00%	
Identifying Stakeholders	Ashique	\$5,310	\$5,310	\$5,310	\$5,310	0.00%	0.00%	
System Objectives	Vinay	\$0	\$7,692	\$0	\$6,690	-	14.98%	
	Ashique	\$0	\$6,297	\$0	\$6,372	-	-1.18%	
	Total	\$15,453	\$32,426	\$16,000	\$32,000	-3.42%	1.33%	

11. Conclusions

Is the project tracking **over** or **under** budget at the end of week 2? Over budget

Based on the values you calculated in previous sections, briefly explain here how you came to this conclusion:

For any project, if the cost and the generated value is the same then the project is right on budget. If the cost is more than the value then the project is over budget and if less then under budget. The cost variance is the indicator of how closely the actual cost is following the generated value. At the end of week 2, cost variance is -6.94% which indicates that the project is over budget by 6.94%. Alternative approach, cost is \$34,676 which is more than the generated value \$32,426, which also indicates that the project is over budget.

Is the project tracking **behind** or **ahead** of schedule at the end of week 2? Ahead of schedule

Based on the values you calculated in previous sections, briefly explain here how you came to this conclusion:

Schedule variance is the indicator of how closely the actual value generation is following the planned value generation. If the value is positive then we are ahead of schedule, and if negative then we are behind schedule. At the end of week 2, the schedule variance is 1.33%, which shows that we are 1.33% ahead of schedule. The actual value generated at the end of week 2 is \$32,426 which is more than the value \$32,000 that was planned to be generated.

12. Call to Action

As the cost variance at the end of week 2 shows that the project is over budget by almost 7 percent, it is important to resolve any persistent or forecast issues in remaining tasks. Ashique, while working on the only remaining task, has fallen behind in value generation by almost 25%. For this reason, contacting the team to find out what is causing Ashique to take more time to complete the same amount of work and to offer help to resolve the slowdown is the best way forward in my view. While we contact the team, it is also important to not just focus on the ongoing issues but to also inquire about issues that they think might come up in the 3rd week. In terms of the schedule, the project is slightly ahead of schedule, so the response should be to contact the team and find out if they are likely to be ahead or on schedule in the 3rd week and are not expecting any issues to come up that can disrupt the schedule.