



Course Title: IT Project Management and Entrepreneurship

Course code: CSE495

Section: 2

**Implementation and Deployment Project of Intelligent System for
Enhancing Artistic Expression**

Submitted To:

Dipayan Bhadra

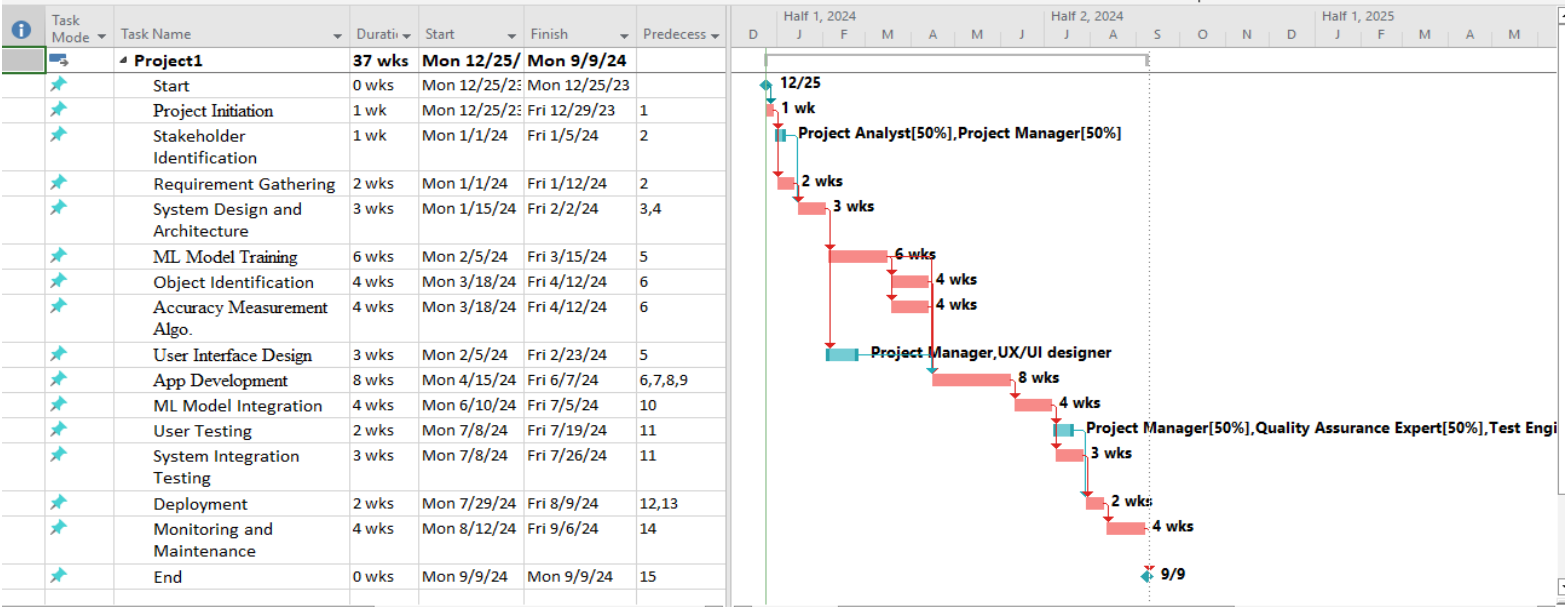
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Gantt Chart:



CRITICAL TASKS

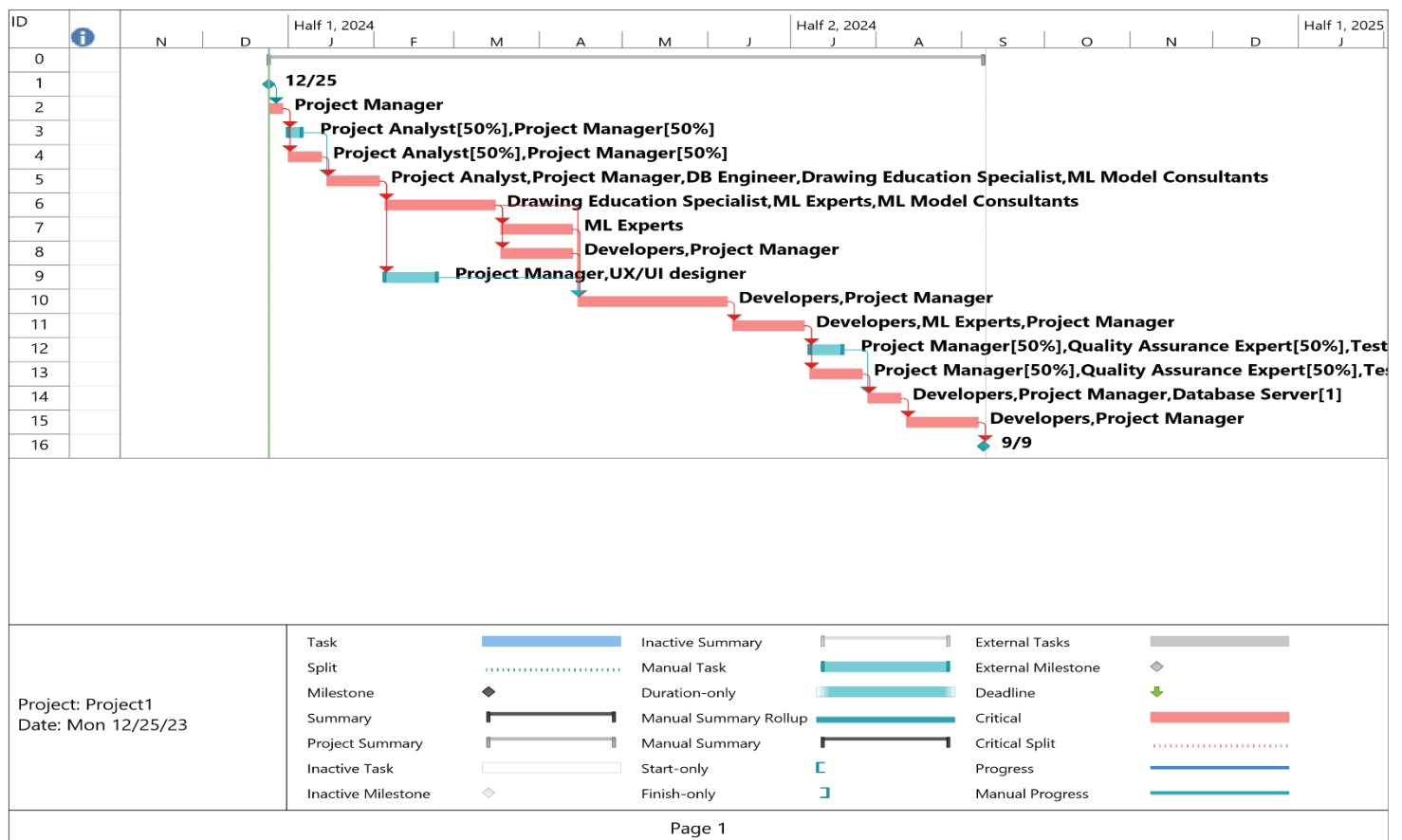


■ Status: On Schedule
■ Status: Future Task

A task is critical if there is no room in the schedule for it to slip.
[Learn more about managing your project's critical path.](#)

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Start	Mon 12/25/23	Mon 12/25/23	0%	0 hrs	
Project Initiation	Mon 12/25/23	Fri 12/29/23	0%	40 hrs	Project Manager
Requirement Gathering	Mon 1/1/24	Fri 1/12/24	0%	80 hrs	Project Analyst[50%],Project Manager[50%]
System Design and Architecture	Mon 1/15/24	Fri 2/2/24	0%	600 hrs	Project Analyst,Project Manager,DB Engineer,Drawing Education Specialist,ML Model Consultants
ML Model Training	Mon 2/5/24	Fri 3/15/24	0%	720 hrs	Drawing Education Specialist,ML Experts,ML Model Consultants
Object Identification	Mon 3/18/24	Fri 4/12/24	0%	160 hrs	ML Experts
Accuracy Measurement Algo.	Mon 3/18/24	Fri 4/12/24	0%	320 hrs	Developers,Project Manager
App Development	Mon 4/15/24	Fri 6/7/24	0%	640 hrs	Developers,Project Manager
ML Model Integration	Mon 6/10/24	Fri 7/5/24	0%	480 hrs	Developers,ML Experts,Project Manager
System Integration Testing	Mon 7/8/24	Fri 7/26/24	0%	180 hrs	Project Manager[50%],Quality Assurance Expert[50%],Test Engineer[50%]
Deployment	Mon 7/29/24	Fri 8/9/24	0%	160 hrs	Developers,Project Manager,Database Server[1]
Monitoring and Maintenance	Mon 8/12/24	Fri 9/6/24	0%	320 hrs	Developers,Project Manager
End	Mon 9/9/24	Mon 9/9/24	0%	0 hrs	

Resource Allocation:

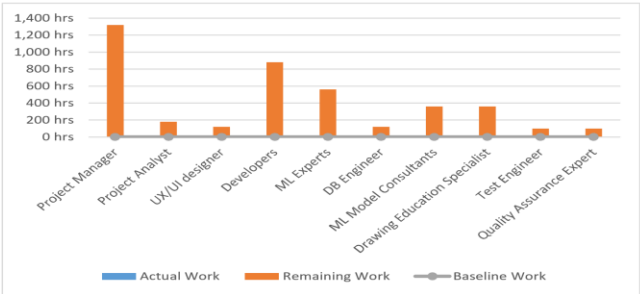
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Resource Overview:

RESOURCE OVERVIEW

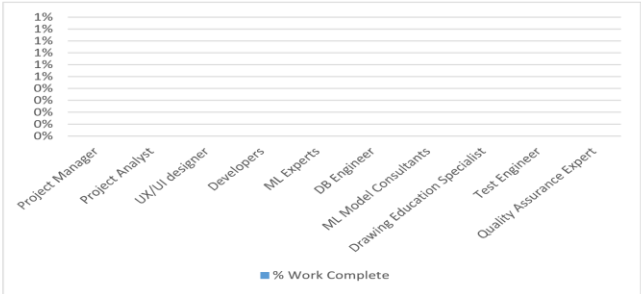
RESOURCE STATS

Work status for all work resources.



WORK STATUS

% work done by all the work resources.



RESOURCE STATUS

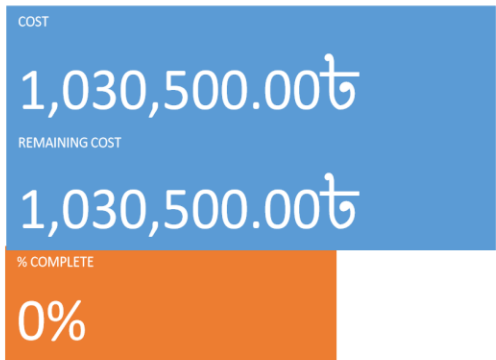
Remaining work for all work resources.

Name	Start	Finish	Remaining Work
Project Manager	Mon 12/25/23	Fri 9/6/24	1,320 hrs
Project Analyst	Mon 1/1/24	Fri 2/2/24	180 hrs
UX/UI designer	Mon 2/5/24	Fri 2/23/24	120 hrs
Developers	Mon 3/18/24	Fri 9/6/24	880 hrs
ML Experts	Mon 2/5/24	Fri 7/5/24	560 hrs
DB Engineer	Mon 1/15/24	Fri 2/2/24	120 hrs
ML Model Consultants	Mon 1/15/24	Fri 3/15/24	360 hrs
Drawing Education Specialist	Mon 1/15/24	Fri 3/15/24	360 hrs
Test Engineer	Mon 7/8/24	Fri 7/26/24	100 hrs
Quality Assurance Expert	Mon 7/8/24	Fri 7/26/24	100 hrs

Cost Overview:

COST OVERVIEW

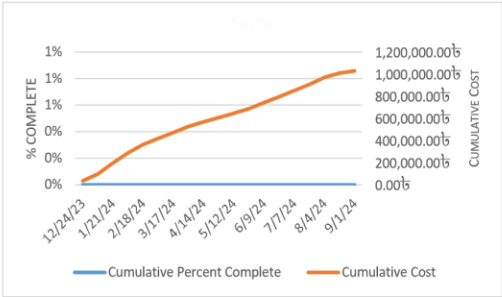
MON 12/25/23 MON 9/9/24



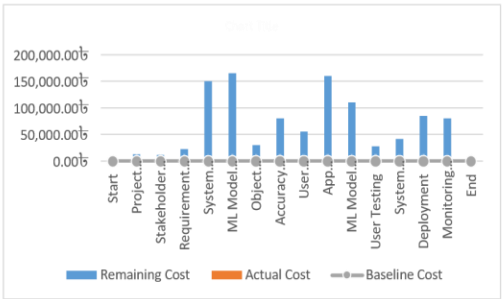
COST STATUS
Cost status for top level tasks.

Name	Actual Cost	Remaining Cost	Baseline Cost	Cost	Cost Variance
Start	0.00₮	0.00₮	0.00₮	0.00₮	0.00₮
Project Initiation	0.00₮	12,500.00₮	0.00₮	12,500.00₮	12,500.00₮
Stakeholder Identification	0.00₮	11,250.00₮	0.00₮	11,250.00₮	11,250.00₮
Requirement Gathering	0.00₮	22,500.00₮	0.00₮	22,500.00₮	22,500.00₮
System Design and Architecture	0.00₮	150,000.00₮	0.00₮	150,000.00₮	150,000.00₮
ML Model Training	0.00₮	165,000.00₮	0.00₮	165,000.00₮	165,000.00₮
Object Identification	0.00₮	30,000.00₮	0.00₮	30,000.00₮	30,000.00₮
Accuracy Measurement Algo.	0.00₮	80,000.00₮	0.00₮	80,000.00₮	80,000.00₮
User Interface Design	0.00₮	55,500.00₮	0.00₮	55,500.00₮	55,500.00₮
App Development	0.00₮	160,000.00₮	0.00₮	160,000.00₮	160,000.00₮
ML Model Integration	0.00₮	110,000.00₮	0.00₮	110,000.00₮	110,000.00₮
User Testing	0.00₮	27,500.00₮	0.00₮	27,500.00₮	27,500.00₮
System Integration Testing	0.00₮	41,250.00₮	0.00₮	41,250.00₮	41,250.00₮
Deployment	0.00₮	85,000.00₮	0.00₮	85,000.00₮	85,000.00₮
Monitoring and Maintenance	0.00₮	80,000.00₮	0.00₮	80,000.00₮	80,000.00₮
End	0.00₮	0.00₮	0.00₮	0.00₮	0.00₮

PROGRESS VERSUS COST
Progress made versus the cost spent over time. If % Complete line below the cumulative cost line,your project may be over budget.

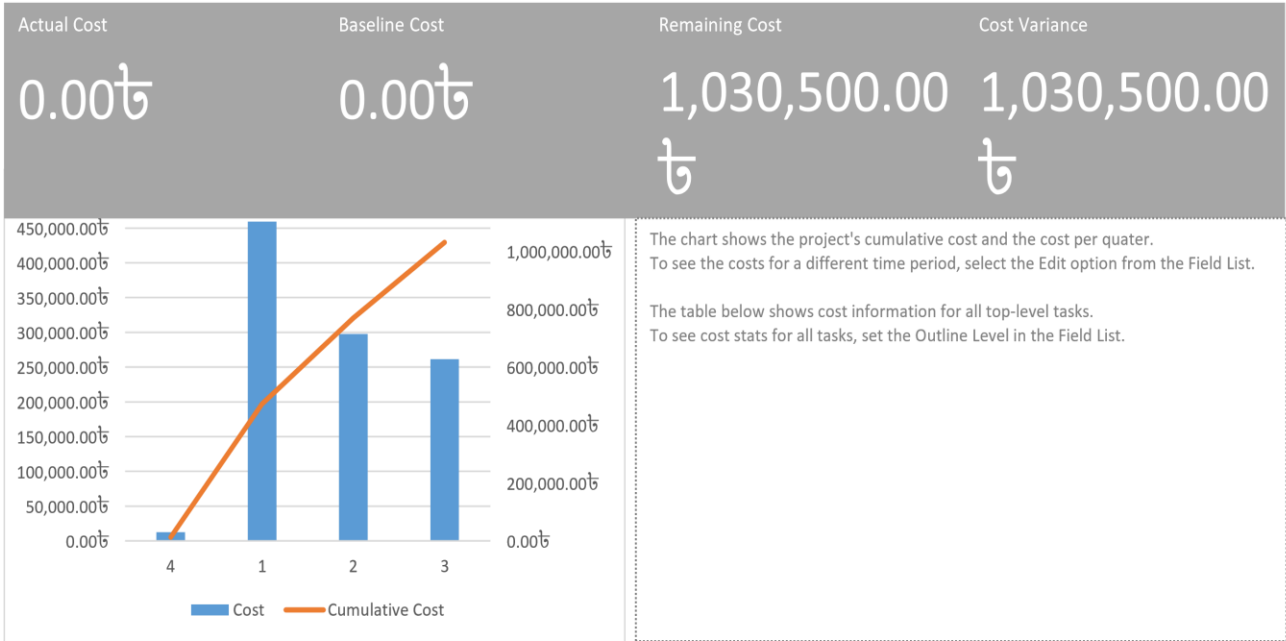


COST STATUS
Cost status for all top-level tasks. Is your baseline zero?
[Try setting as baseline](#)



CashFlow:

CASH FLOW



The chart shows the project's cumulative cost and the cost per quarter. To see the costs for a different time period, select the Edit option from the Field List.

The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outline Level in the Field List.

Assumptions of Cost – Benefit Analysis:

A. Time:

- 1) Project time is considered 1 year
- 2) Project Lifetime is considered 11 years, among 11 years, 1 year for project implementation and
10 years for project benefits

B. Benefit:

- 1) 75 Taka in considered for per download after 1 year.
- 2) 50% of the downloads will be increased every year.
- 3) 20 Taka per ad revenue is considered.
- 4) The annual rate of increment for the new AdSense considered 50%.
- 5) 500 takas will be saved per month per person for not wasting Paper while drawing practice.
Can be used for drawing without any pencil or pen cost.
- 6) 1000 persons will be beneficiary in this process monthly.
- 7) Savings of \$185 per ton of CO2 emission considered. 1000 users will have this impact on the environment. Each person will save 0.1kg of CO2,while using our app and going paperless.

C. Cost:

- 1) 3% of the investment cost per year is considered as maintenance cost (bug fixing, security update,algorithm optimization).

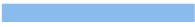




















Analysis:

- 1) 12% discount rate is considered

Discount Rate 12%												
Years	Cost	Maintaince	Total Cost	App Store, Google Play	(Google Ads)	Total Income	Net Benefit	DF	PV of Cost	PV of Income	PV of Benefit	Cumulative Cash Flow
0	1030500	0	1030500			0.00	-1030500.00	1.00	1030500.00	0.00	-1030500.00	-1030500.00
1		30915	30915	37500	40000	77500.00	46585.00	0.89	27602.68	69196.43	41593.75	-983915.00
2		30915	30915	56250	60000	116250.00	85335.00	0.80	24645.25	92673.79	68028.54	-898580.00
3		30915	30915	84375	90000	174375.00	143460.00	0.71	22004.69	124116.68	102111.99	-755120.00
4		30915	30915	126563	135000	261562.50	230647.50	0.64	19647.04	166227.70	146580.66	-524472.50
5		30915	30915	189844	202500	392343.75	361428.75	0.57	17542.00	222626.38	205084.38	-163043.75
6		30915	30915	284766	303750	588515.63	557600.63	0.51	15662.50	298160.33	282497.83	394556.88
7		30915	30915	427148	455625	882773.44	851858.44	0.45	13984.38	399321.87	385337.50	1246415.31
8		30915	30915	640723	683438	1324160.16	1293245.16	0.40	12486.05	534806.08	522320.03	2539660.47
9		30915	30915	961084	1025156	1986240.23	1955325.23	0.36	11148.26	716258.14	705109.88	4494985.70
10		30915	30915	1441626	1537734	2979360.35	2948445.35	0.32	9953.80	959274.30	949320.49	7443431.05
Sum			1339650.00	4249877.93	4533203.13	8783081.05	7443431.05	6.65	1205176.64	3582661.69	2377485.05	11763418.16

NPV 2377485.05
 BCR 2.972727448
 IRR 32%
 Payback Perio 5.29240238

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Cost
0	Project1	37 wks	Mon 12/25/	Mon 9/9/24			1,030,500.00₹
1	Start	0 wks	Mon 12/25/2	Mon 12/25/23			0.00₹
2	Project Initiation	1 wk	Mon 12/25/2	Fri 12/29/23	1	Project Manager	12,500.00₹
3	Stakeholder Identification	1 wk	Mon 1/1/24	Fri 1/5/24	2	Project Analyst[50%],Project Manager[50%]	11,250.00₹
4	Requirement Gathering	2 wks	Mon 1/1/24	Fri 1/12/24	2	Project Analyst[50%],Project Manager[50%]	22,500.00₹
5	System Design and Architecture	3 wks	Mon 1/15/24	Fri 2/2/24	3,4	Project Analyst,Project Manager,DB Engineer,Drawing Education Specialist,ML	150,000.00₹
6	ML Model Training	6 wks	Mon 2/5/24	Fri 3/15/24	5	Drawing Education Specialist,ML Experts,ML	165,000.00₹
7	Object Identification	4 wks	Mon 3/18/24	Fri 4/12/24	6	ML Experts	30,000.00₹
8	Accuracy Measurement Algo.	4 wks	Mon 3/18/24	Fri 4/12/24	6	Developers,Project Manager	80,000.00₹
9	User Interface Design	3 wks	Mon 2/5/24	Fri 2/23/24	5	Project Manager,UX/UI designer	55,500.00₹
10	App Development	8 wks	Mon 4/15/24	Fri 6/7/24	6,7,8,9	Developers,Project Manager	160,000.00₹
11	ML Model Integration	4 wks	Mon 6/10/24	Fri 7/5/24	10	Developers,ML Experts,Project Manager	110,000.00₹
12	User Testing	2 wks	Mon 7/8/24	Fri 7/19/24	11	Project Manager[50%],Quality Assurance Ex	27,500.00₹
13	System Integration Testing	3 wks	Mon 7/8/24	Fri 7/26/24	11	Project Manager[50%],Quality Assurance Expert[50%],Test Engineer[50%]	41,250.00₹
14	Deployment	2 wks	Mon 7/29/24	Fri 8/9/24	12,13	Developers,Project Manager,Database Serv	85,000.00₹
15	Monitoring and Maintenance	4 wks	Mon 8/12/24	Fri 9/6/24	14	Developers,Project Manager	80,000.00₹
16	End	0 wks	Mon 9/9/24	Mon 9/9/24	15		0.00₹

Project: Project1 Date: Mon 12/25/23	TaskInactive		SummaryExternal Tasks		
	SplitManual		TaskExternal Milestone		
	MilestoneDuration-		onlyDeadline		
	SummaryManual		Summary RollupCritical		
	Project SummaryManual		SummaryCritical Split		
	Inactive TaskStart-		onlyProgress		
	Inactive onlyManual Progress		MilestoneFinish-		
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