

PROJECT PLAN TEMPLATE

Process models:

The process model that is used in the project is the Scrum model. Scrum being an iterative and agile software development methodology fits the project needs. It helps in working together with all of members involved in development, quality assurance and testing. The agile and iterative model helps in increasing the accuracy of the predictive model.

Effort Estimation using COCOMO Model:

Software Labor Rates

Cost per Person-Month (Dollars)

Results

Software Development (Elaboration and Construction)

Effort = 15.8 Person-months

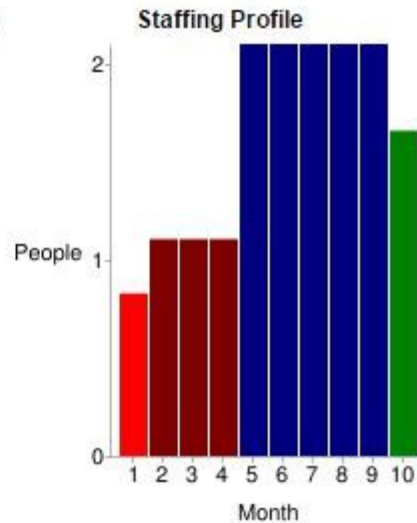
Schedule = 4.1 Months

Cost = \$36228

Total Equivalent Size = 8615 SLOC

Acquisition Phase Distribution

Phase	Effort (Person-months)	Schedule (Months)	Average Staff	Cost (Dollars)
Inception	0.9	1.1	0.8	\$2174
Elaboration	3.8	3.4	1.1	\$8695
Construction	12.0	5.7	2.1	\$27533
Transition	1.9	1.1	1.7	\$4347



Software Effort Distribution for RUP/MBASE (Person-Months)

Phase/Activity	Inception	Elaboration	Construction	Transition
Management	0.1	0.5	1.2	0.3
Environment/CM	0.1	0.3	0.6	0.1
Requirements	0.4	0.7	1.0	0.1
Design	0.2	1.4	1.9	0.1
Implementation	0.1	0.5	4.1	0.4
Assessment	0.1	0.4	2.9	0.5
Deployment	0.0	0.1	0.4	0.6

Risk Identification and mitigation:

Insufficient accuracy:

The final results may not have the required amount of accuracy. The level of accuracy obtained from the machine learning modules might not be sufficient.

Mitigation:

In order to have a better accuracy for the end results, the data sets used for the training of neural nets must be made exhaustive. Wide array of inputs and repeated training will lead to better accuracy of the project.

Learning curves lead to delay:

The team members are not efficient in the tools and technologies used. The hurdles faced might take a longer duration to resolve which in turn might disrupt the project schedule.

Mitigation:

Learning of tools and technologies efficiently must be made a priority for the team members in the initial stages of the project. The team members must be proficient in the tools and technologies used in the project.

Architecture lacks flexibility:

The different software and tools used for the project may not be compatible with each other. The underlying architectures may not support all of the tools used.

Mitigation:

Before selecting the tools for the projects, the underlying architecture must be decided. While selecting the tools, the architecture compatibility must be taken care of.

Personal shortfall:



-
-
-
-
- The number of members in the team may not be able to complete the project in the required duration. The human resources do to the coding and implementation may not be sufficient.

Mitigation:



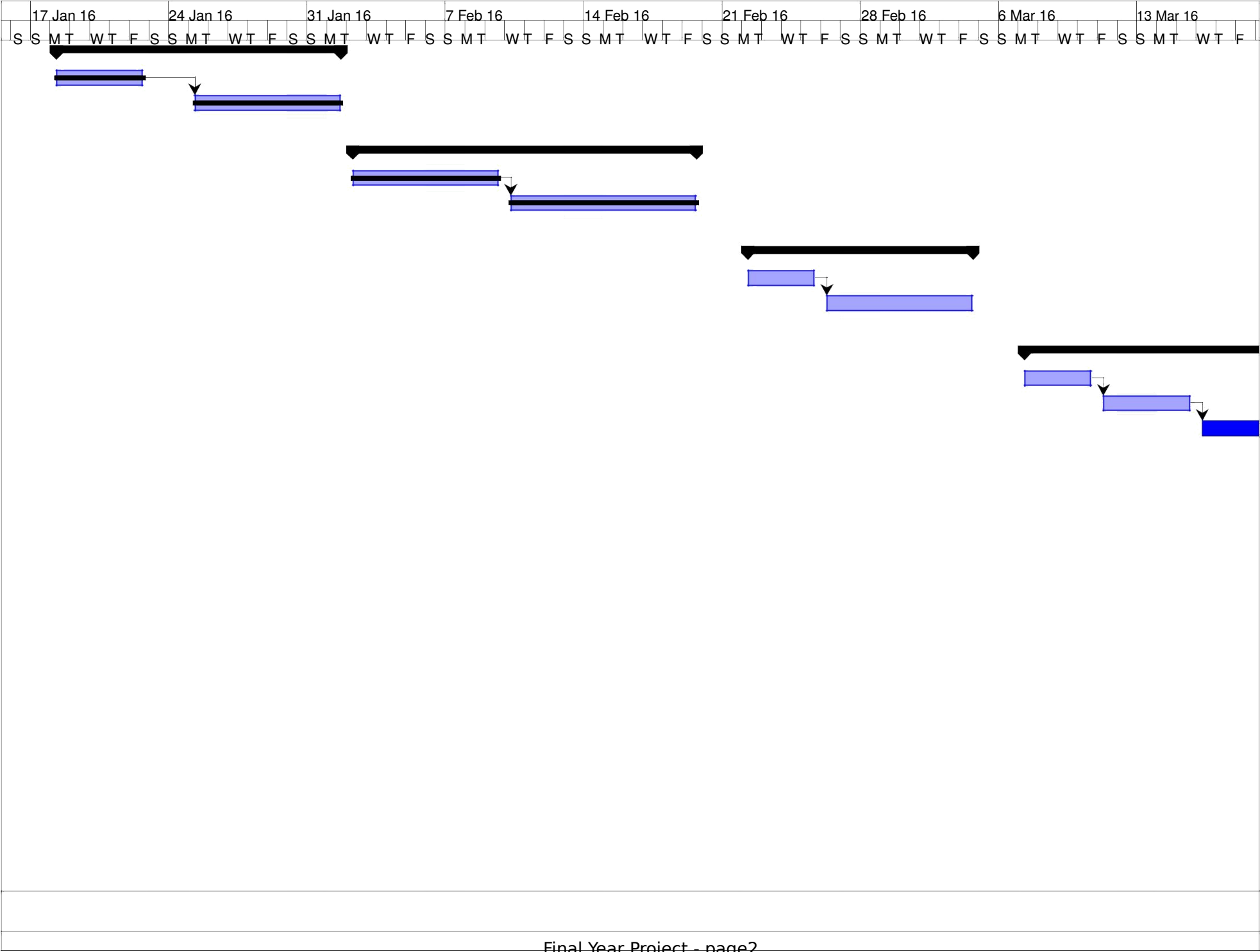
-
- If there are chances of personal shortfall happening, some external help can be taken or the team members could work overtime in order to maintain the deadlines.
-



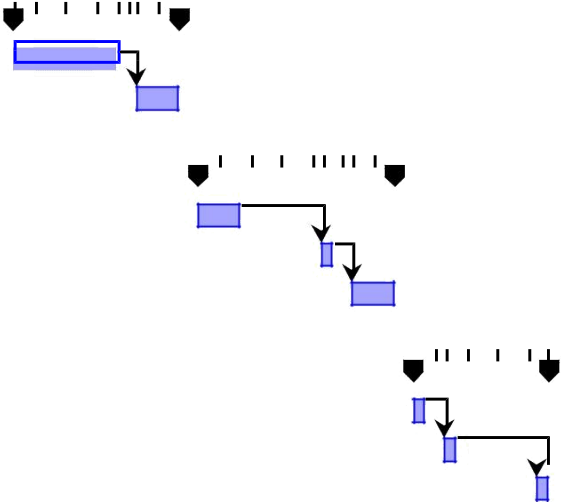
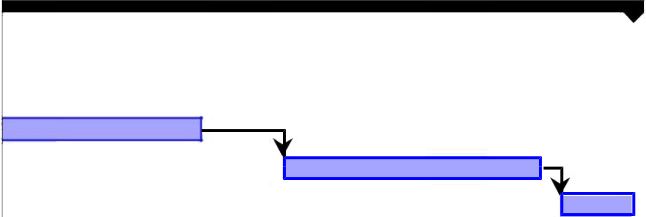
Project Schedule using Gantt Chart:



		Name	Duration	Start	Finish	Predecessors	Resource Names
1		Abstract	11 days?	1/18/16 8:00 AM	2/1/16 5:00 PM		
2		Objectives	5 days?	1/18/16 8:00 AM	1/22/16 5:00 PM		
3		Synopsis	6 days?	1/25/16 8:00 AM	2/1/16 5:00 PM	2	
5		Project Planning	14 days?	2/2/16 8:00 AM	2/19/16 5:00 PM		
6		Methodology	6 days?	2/2/16 8:00 AM	2/9/16 5:00 PM		
7		Project Plan	8 days?	2/10/16 8:00 AM	2/19/16 5:00 PM	6	
9		Survey	10 days?	2/22/16 8:00 AM	3/4/16 5:00 PM		
10		Literature Survey	4 days?	2/22/16 8:00 AM	2/25/16 5:00 PM		
11		SRS	6 days?	2/26/16 8:00 AM	3/4/16 5:00 PM	10	
13		Design & Implementati...	25 days?	3/7/16 8:00 AM	4/8/16 5:00 PM		
14		Installation and testing	4 days?	3/7/16 8:00 AM	3/10/16 5:00 PM		
15		Build a demo model	3 days?	3/11/16 8:00 AM	3/15/16 5:00 PM	14	
16		Network Training	8 days?	3/16/16 8:00 AM	3/25/16 5:00 PM	15	
17		Increase Accuracy	7 days?	3/28/16 8:00 AM	4/5/16 5:00 PM	16	
18		User Feedback	3 days?	4/6/16 8:00 AM	4/8/16 5:00 PM	17	
20		Testing	4 days?	4/15/16 8:00 AM	4/20/16 5:00 PM		
21		Unit Testing	2 days?	4/15/16 8:00 AM	4/18/16 5:00 PM		
22		Integration Testing	2 days?	4/19/16 8:00 AM	4/20/16 5:00 PM	21	
24		Results and Analysis	5 days?	4/21/16 8:00 AM	4/27/16 5:00 PM		
25		Plot	2 days?	4/21/16 8:00 AM	4/22/16 5:00 PM		
26		Analysis of Plot to determ...	1 day?	4/25/16 8:00 AM	4/25/16 5:00 PM	25	
27		Conclusions	2 days?	4/26/16 8:00 AM	4/27/16 5:00 PM	26	
29		Report Writing	3 days?	4/28/16 8:00 AM	5/2/16 5:00 PM		
30		First Draft	1 day?	4/28/16 8:00 AM	4/28/16 5:00 PM		
31		Plagiarism Check	1 day?	4/29/16 8:00 AM	4/29/16 5:00 PM	30	
32		Final Draft	1 day?	5/2/16 8:00 AM	5/2/16 5:00 PM	31	
34		Research Paper	3 days?	5/3/16 8:00 AM	5/5/16 5:00 PM		



20 Mar 16							27 Mar 16							3 Apr 16							10 Apr 16							17 Apr 16							24 Apr 16							1 May 16							8 May 16							15 May 16						
S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S						



22 May 16							29 May 16						
S	M	T	W	T	F	S	S	M	T	W	T	F	S