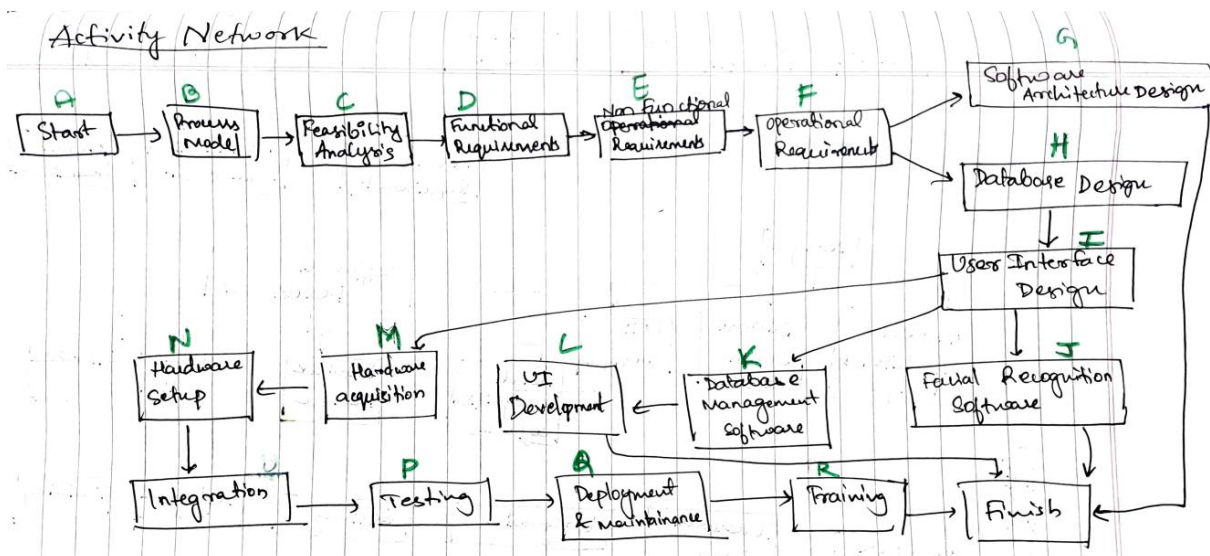
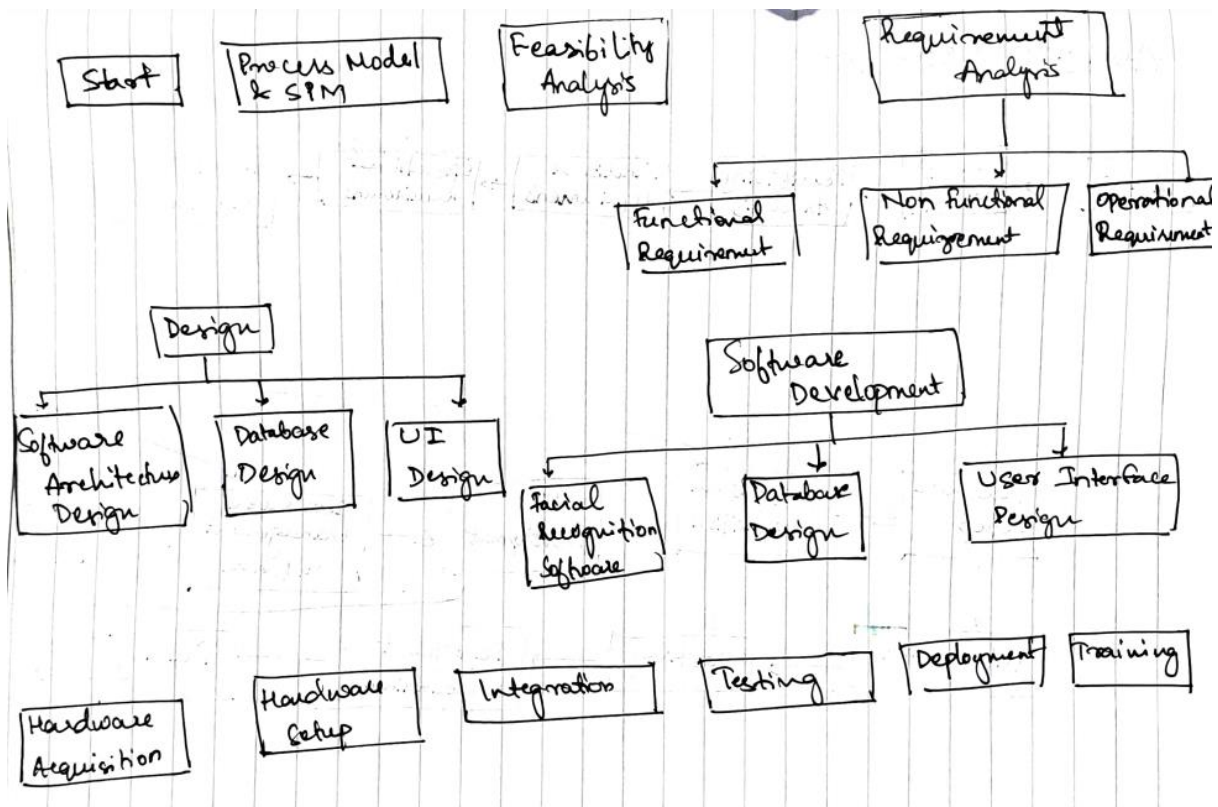


COURSE: SOFTWARE ENGINEERING LAB

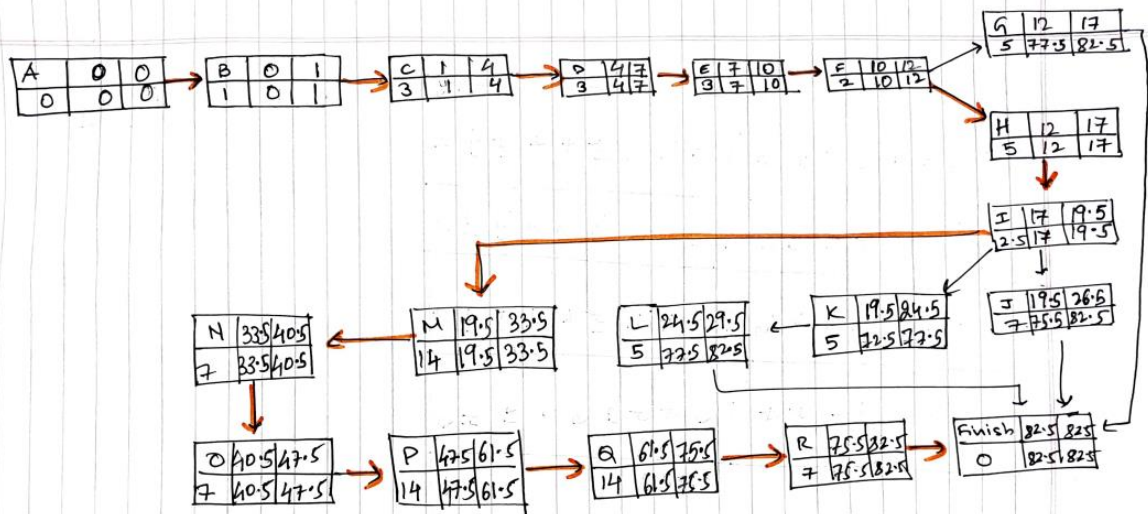
- Prepare Work Breakdown Structure, Activity Network for the project.



- Prepare PERT chart and Identify Critical path by Calculating ES, EF, LS, LF and finally slack time of individual activity.

Activity	Duration	ES	EF	LS	LF	slack time
A	0	0	0	0	0	0
B	1	0	1	0	1	0
C	3	1	4	1	4	0
D	3	4	7	4	7	0
E	3	7	10	7	10	0
F	2	10	12	10	12	0
G	5	12	17	12.5	82.5	65.5
H	5	12	17	12	17	0
I	2.5	17	19.5	17	19.5	0
J	7	19.5	26.5	25.5	82.5	58.5
K	5	19.5	24.5	20.5	27.5	53
L	5	24.5	29.5	27.5	82.5	53
M	14	19.5	33.5	19.5	33.5	0
N	7	33.5	40.5	33.5	40.5	0
O	4.7	40.5	47.5	40.5	47.5	0
P	14	47.5	61.5	47.5	61.5	0
Q	14	61.5	75.5	61.5	75.5	0
R	7	75.5	82.5	75.5	82.5	0
Finish	0	82.5	82.5	82.5	82.5	0

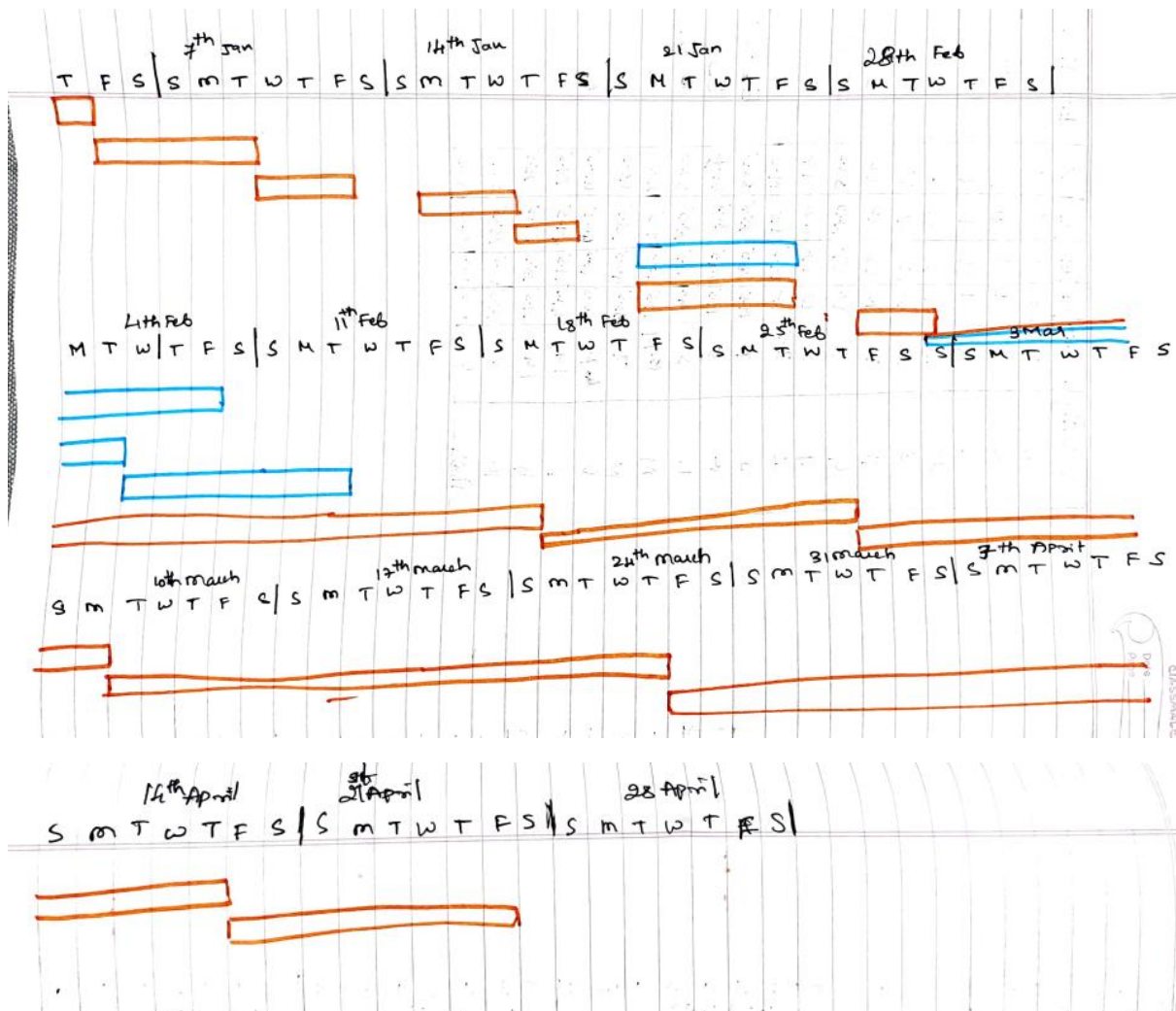
PERT CHART



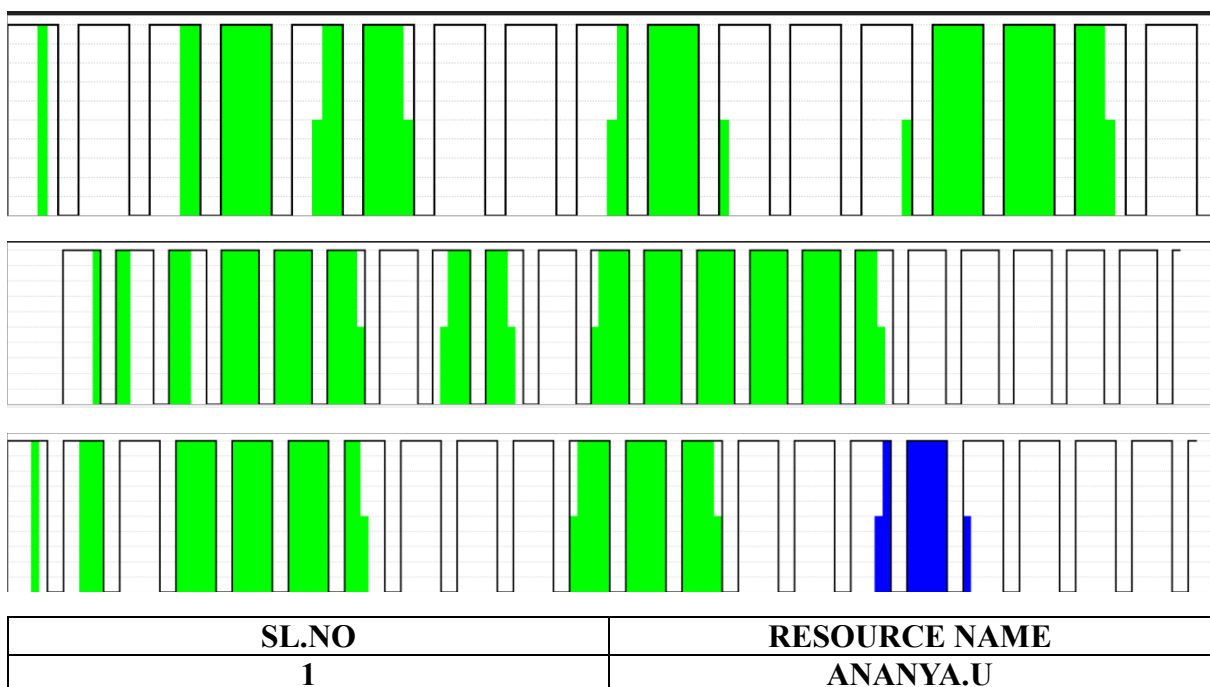
Critical Path : A → B → C → D → E → F → G → H → I → M → N → O → P → Q → R → Finish

Activity	a	m	b	Te
A	0	0	0	0
B	0.5	1	2	1
C	2	3	4	3
D	2	3	4	3
E	2	3	4	3
F	1	2	3	2
G	4	5	6	5
H	4	5	6	5
I	2	2.5	3	2.5
J	6	7	8	7
K	4	5	6	5
L	4	5	6	5
M	13	14	15	14
N	6	7	8	7
O	6	7	8	7
P	13	14	15	14
Q	11	12	13	12
R	6	7	8	7

- Prepare the Gantt chart based on activities and display slack time of activities.



- Assign the necessary resources to each activity and show the Histogram to show non-conflict among resources.

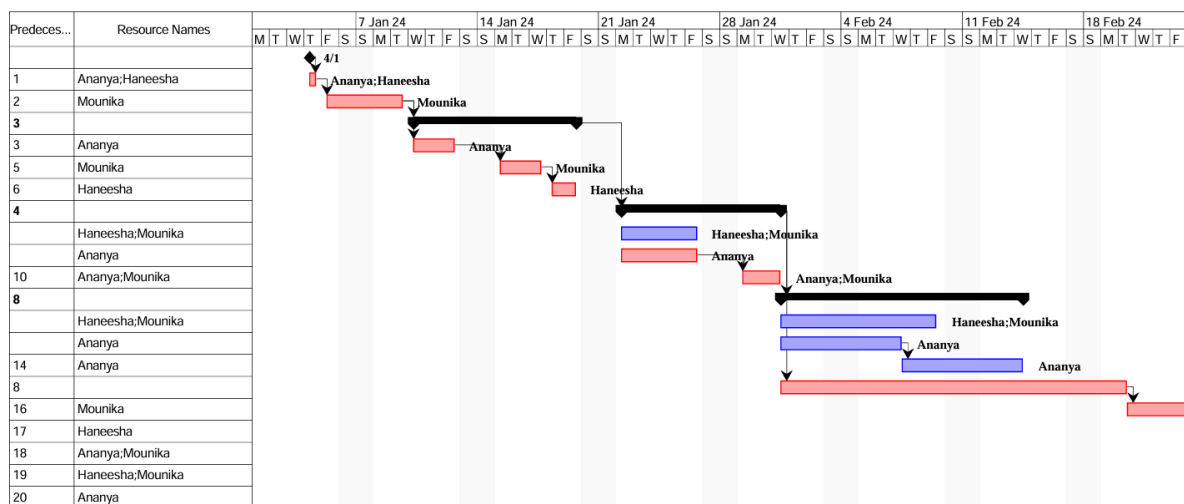


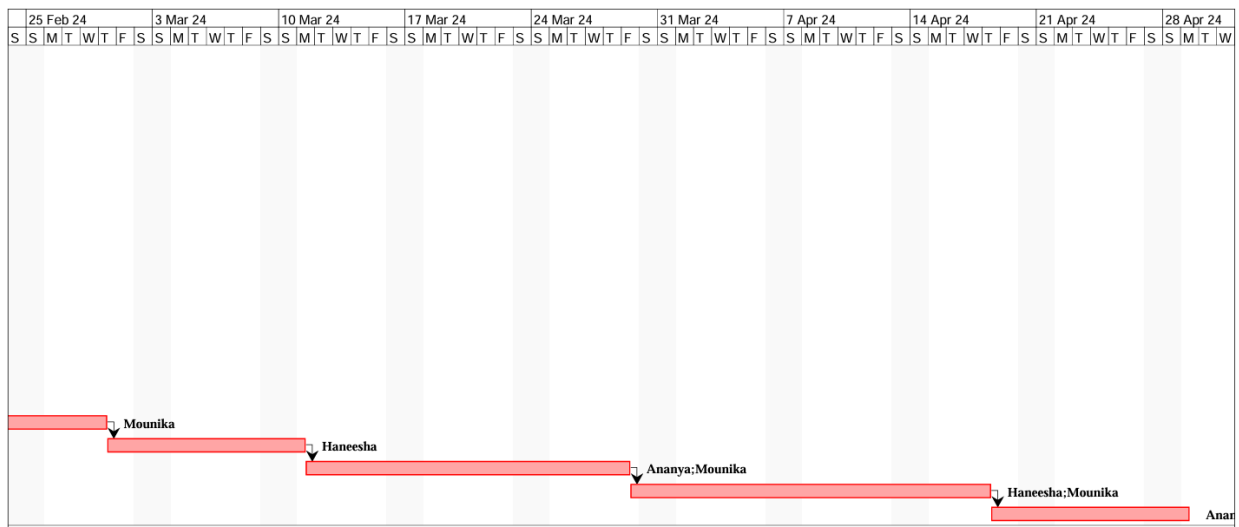
2.	MOUNIKA RUDRARAJU
3.	HANEESHA REDDY

- Using ProjectLibre tool, complete all the software project management activity and attach the images for the following functionalities.
 - Activity List (List must display sub-activities (multiple depth), Duration, Start Date and End Date, EST, EFT, LST, LFT, Predecessor, Resource Name)

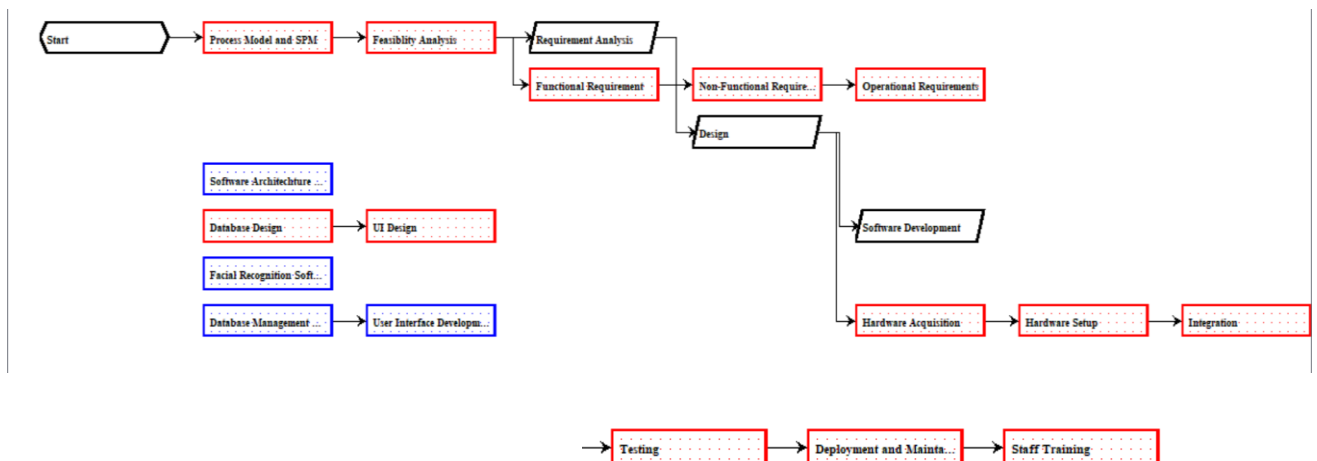
	⊞	Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Predec...	Resource Names
1		Start	0 days?	4/1/24 8:00 AM	4/1/24 8:00 AM	4/1/24 8:00 AM	4/1/24 8:00 AM	4/1/24 8:00 AM	4/1/24 8:00 AM		
2		Process Model and SPM	1 day	4/1/24 8:00 AM	4/1/24 5:00 PM	4/1/24 8:00 AM	4/1/24 5:00 PM	4/1/24 8:00 AM	4/1/24 5:00 PM	1	Ananya;Haneesha
3		Feasibility Analysis	3 days	5/1/24 8:00 AM	9/1/24 5:00 PM	5/1/24 8:00 AM	9/1/24 5:00 PM	5/1/24 8:00 AM	9/1/24 5:00 PM	2	Mounika
4	⊞	Requirement Analysis	8 days?	10/1/24 8:00 AM	19/1/24 5:00 PM	10/1/24 8:00 ...	19/1/24 5:00 PM	10/1/24 8:00 AM	19/1/24 5:00 PM	3	
5		Functional Requirement	3 days?	10/1/24 8:00 AM	12/1/24 5:00 PM	10/1/24 8:00 AM	12/1/24 5:00 PM	10/1/24 8:00 AM	12/1/24 5:00 PM	3	Ananya
6		Non-Functional Requirements	3 days	15/1/24 8:00 AM	17/1/24 5:00 PM	15/1/24 8:00 AM	17/1/24 5:00 PM	15/1/24 8:00 AM	17/1/24 5:00 PM	5	Mounika
7		Operational Requirements	2 days	18/1/24 8:00 AM	19/1/24 5:00 PM	18/1/24 8:00 AM	19/1/24 5:00 PM	18/1/24 8:00 AM	19/1/24 5:00 PM	6	Haneesha
8	⊞	Design	7.5 days	22/1/24 8:00 AM	31/1/24 1:00 PM	22/1/24 8:00 ...	31/1/24 1:00 PM	22/1/24 8:00 AM	31/1/24 12:00 PM	4	
9		Software Architecture Design	5 days	22/1/24 8:00 AM	26/1/24 5:00 PM	22/1/24 8:00 AM	26/1/24 5:00 PM	24/1/24 12:00 PM	31/1/24 12:00 PM		Haneesha;Mounika
10		Database Design	5 days	22/1/24 8:00 AM	26/1/24 5:00 PM	22/1/24 8:00 AM	26/1/24 5:00 PM	22/1/24 8:00 AM	26/1/24 5:00 PM		Ananya
11		UI Design	2.5 days	29/1/24 8:00 AM	31/1/24 1:00 PM	29/1/24 8:00 AM	31/1/24 1:00 PM	29/1/24 8:00 AM	31/1/24 12:00 PM	10	Ananya;Mounika
12	⊞	Software Development	10 days	31/1/24 1:00 PM	14/2/24 1:00 PM	31/1/24 1:00 P...	14/2/24 1:00 PM	11/4/24 12:00 ...	25/4/24 1:00 PM	8	
13		Facial Recognition Software	7 days	31/1/24 1:00 PM	9/2/24 1:00 PM	31/1/24 1:00 PM	9/2/24 1:00 PM	16/4/24 12:00 PM	25/4/24 1:00 PM		Haneesha;Mounika
14		Database Management Softwa	5 days	31/1/24 1:00 PM	7/2/24 1:00 PM	31/1/24 1:00 PM	7/2/24 1:00 PM	11/4/24 12:00 PM	18/4/24 12:00 PM		Ananya
15		User Interface Development	5 days	7/2/24 1:00 PM	14/2/24 1:00 PM	7/2/24 1:00 PM	14/2/24 1:00 PM	18/4/24 12:00 PM	25/4/24 1:00 PM	14	Ananya
16		Hardware Acquisition	14 days	31/1/24 1:00 PM	20/2/24 1:00 PM	31/1/24 1:00 PM	20/2/24 1:00 PM	31/1/24 12:00 PM	20/2/24 12:00 PM	8	
17		Hardware Setup	7 days	20/2/24 1:00 PM	29/2/24 1:00 PM	20/2/24 1:00 PM	29/2/24 1:00 PM	20/2/24 12:00 PM	29/2/24 12:00 PM	16	Mounika
18		Integration	7 days	29/2/24 1:00 PM	11/3/24 1:00 PM	29/2/24 1:00 PM	11/3/24 1:00 PM	29/2/24 12:00 PM	11/3/24 12:00 PM	17	Haneesha
19		Testing	14 days	11/3/24 1:00 PM	29/3/24 1:00 PM	11/3/24 1:00 PM	29/3/24 1:00 PM	11/3/24 12:00 PM	29/3/24 12:00 PM	18	Ananya;Mounika
20		Deployment and Maintainance	12 days	29/3/24 1:00 PM	16/4/24 1:00 PM	29/3/24 1:00 PM	16/4/24 1:00 PM	29/3/24 12:00 PM	16/4/24 12:00 PM	19	Haneesha;Mounika
21		Staff Training	7 days	16/4/24 1:00 PM	25/4/24 1:00 PM	16/4/24 1:00 PM	25/4/24 1:00 PM	16/4/24 12:00 PM	25/4/24 1:00 PM	20	Ananya

○ Gantt Chart

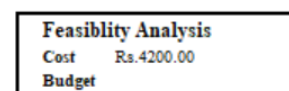
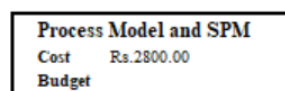
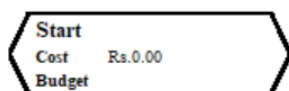


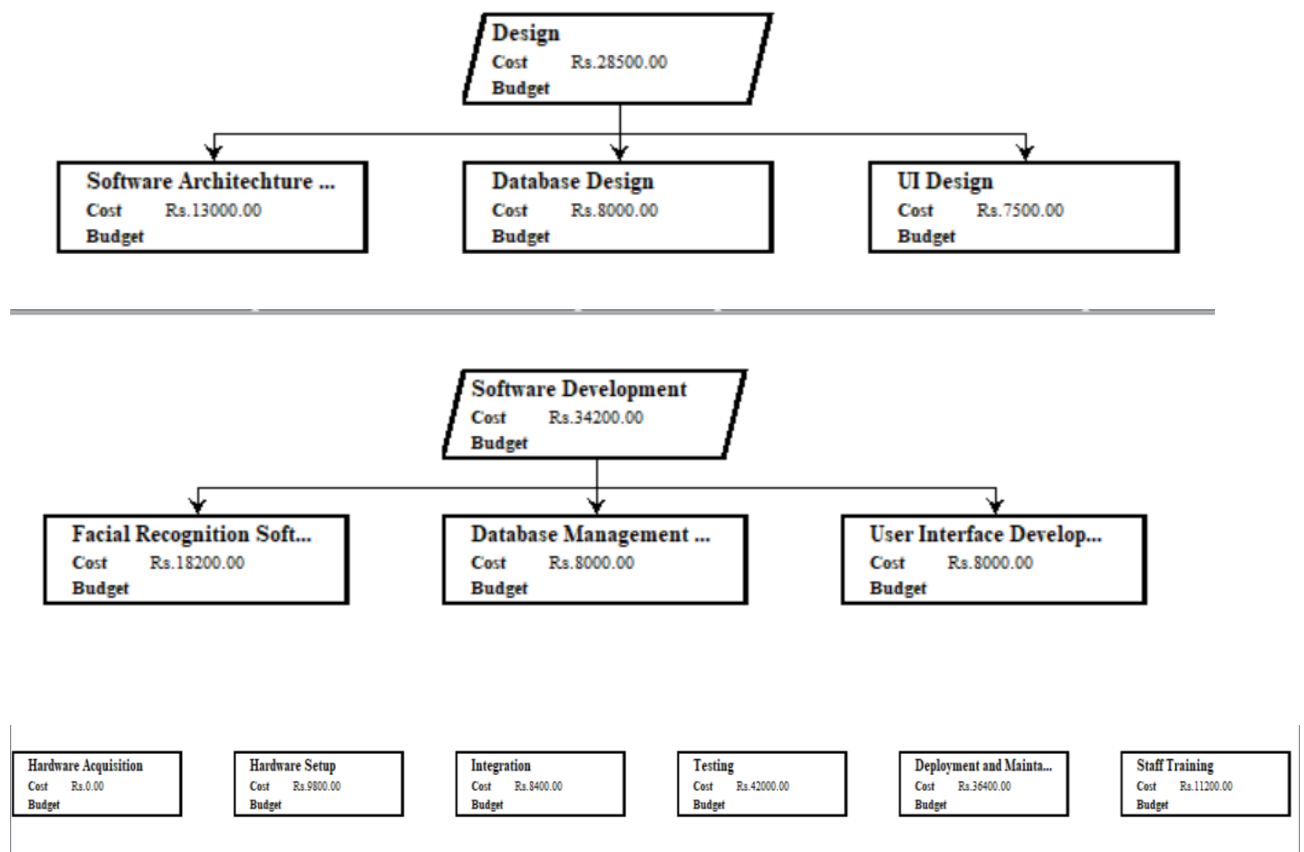


Activity Network



Work Breakdown Structure (WBS)





○ Resources List

Name	RBS	Type
Haneesha		Work
Mounika		Work
Ananya		Work

Initials	Group	Max. Units	Standard Rate	Overtime Rate
H		100%	Rs.150.00/hour	Rs.0.00/hour
M		100%	Rs.175.00/hour	Rs.0.00/hour
A		100%	Rs.200.00/hour	Rs.0.00/hour

○ Resource Breakdown Structure (RBS)

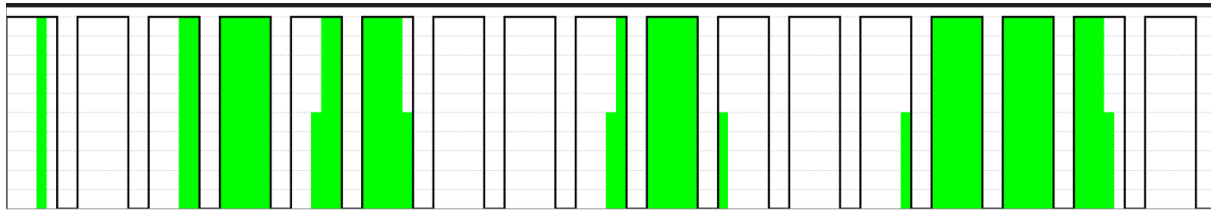
Haneesha
Cost Rs.43200.00
Budget Rs.0.00

Mounika
Cost Rs.77700.00
Budget Rs.0.00

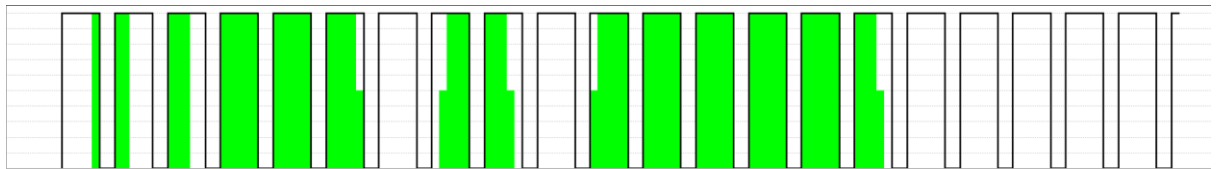
Ananya
Cost Rs.68000.00
Budget Rs.0.00

- Histogram (Separate picture for each resource showing non-conflicting scenario)

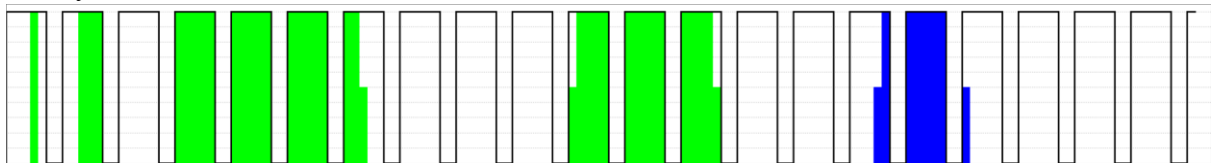
1. Haneesha:



2. Mounika:



3. Ananya.U



○ **Project Statistics Information (Showing Overall Cost, Duration etc.)**

General

Statistics

Notes

Name: AI based Attendance Management System

Start: 4/1/24 8:00 AM

Finish: 29/4/24 1:00 PM

Baseline Start:

Baseline Finish:

Actual Start:

Actual Finish:

Duration: 82.5 days

Baseline Duration: 0 days

Actual Duration: 0 days

Remaining Duration: 82.5 days

Work: 1,184 hours

Baseline Work: 0 hours

Actual Work: 0 hours

Remaining Work: 1,184 hours

Cost: Rs.188900.00

Baseline Cost: Rs.0.00

Actual Cost: Rs.0.00

Remaining Cost: Rs.188900.00