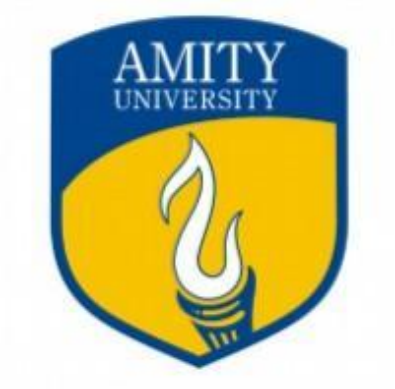
LAB RECORD

SOFTWARE PROJECT MANAGEMENT

(CSE-432)

Amity University Uttar Pradesh



Submitted to

Dr. Roshan Lal Chokar

Submitted by:

Name: Akshat Bhatnagar
Class & Sec: 7CSE 1Y
Enrollment number: A2305219047

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY

AMITY UNIVERSITY UTTAR PRADESH

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INDEX

Exp. No.	Name of Experiment	Date of Allotment	Date of Evaluation	Remarks	Sign. of Faculty
1.	To answer the following questions about Software Project Management and softwares such as MS Project and ProjectLibre.	19/07/22			
2.	To assign the task of an activity including starting date and finishing date, predecessor and set the calendar properties.	19/07/22			
3.	Draw the Gantt chart for the software project.	26/07/22			
4.	Using Project Planning Activities draw the PERT for the project.	02/08/22			
5.	To configure Fixed Units to tasks and allocate time and resource for the same.	09/08/22			

6.	To configure Fixed Duration to tasks and allocate time and resource for the same.	16/08/22			
7.	To lay out tasks and subtasks and their timings (Work Breakdown Structure) and present the result in form of a Gantt Chart.	19/09/22			

Date: 19th July, 2022

LAB 1

Aim: To answer the following questions about Software Project Management and softwares such as MS Project and ProjectLibre.

Theory:

Q.1 What is MS Project 2007/2010? Differentiate between the two versions.

MS Project 2007	MS Project 2010
Has Menus and Toolbars.	Contains a fully customizable Ribbon that encapsulates all the commands needed for various tasks.
Only has the options command in the Tools menu to deal with projects.	Contains the backstage that aids in managing project files.
Does not have the right-click functionality that allows users to see commonly used commands for an item.	Right-Clicking any item in a view shows commonly used commands associated with the component.
Only allows automatic updation of task dates.	Manual Scheduling which allows uses to customize task dependencies and project calendar as per their requirements instead of automatically adjusted task dates.

Q.2 Differentiate Between MS Project and ProjectLibre in Tabular Form.

ProjectLibre	MS Project
Does not integrate with other softwares and works only as a stand-alone.	Integrates seamlessly with the Microsoft Environment as a part of their overall package.
Does not allow personalization for users.	Allows custom personalization and UI skins as per user requirements or preferences.
Is Free and Open Source	Requires a subscription from Microsoft.
Offers fewer features but incorporates a simple, easy-to-use AI	Has extra features such as workload, collaboration, resource management, personal calendars and preconfigured templates, among others.

Q.3 What are the tools available in SPM?

Some tools we can use in Software Project Management are:

- Gantt Charts
- PERT Charts
- Logic Network
- Product Breakdown Structure
- Work Breakdown Structure
- Resource Histogram
- Critical Path Analysis

Softwares such as MS Project, ProjectLibre, MeisterTask, Basecamp, Trello, Nifty etc. are useful for software project management as they help assign and update task lists, schedules, create gantt and PERT charts, allocate work breakdown and resources, and facilitate communication and reporting.

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria			
Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 19th July, 2022

LAB 2

Aim: To assign the task of an activity including starting date and finishing date, predecessor and set the calendar properties.

Theory:

ProjectLibre desktop is a free and open-source project management software system intended ultimately as a standalone replacement for Microsoft Project. ProjectLibre is written in the Java programming language and will thus theoretically run on any machine for which a fully functioning Java virtual machine (JVM) exists. Currently, ProjectLibre is certified to run on Linux, MacOS, and Microsoft Windows

Implementation:

Table for Project Time in Hours:

		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	0.25 days	19/7/22 8:00 AM	19/7/22 10:00 AM	
2		Designing	0.5 days	19/7/22 10:00 AM	19/7/22 3:00 PM	1
3		Coding	0.75 days	19/7/22 3:00 PM	20/7/22 1:00 PM	2
4		Implementation	1 day	20/7/22 1:00 PM	21/7/22 1:00 PM	3
5		Maintenance	1.25 days	21/7/22 1:00 PM	22/7/22 3:00 PM	4

Table for Project Time in Days:

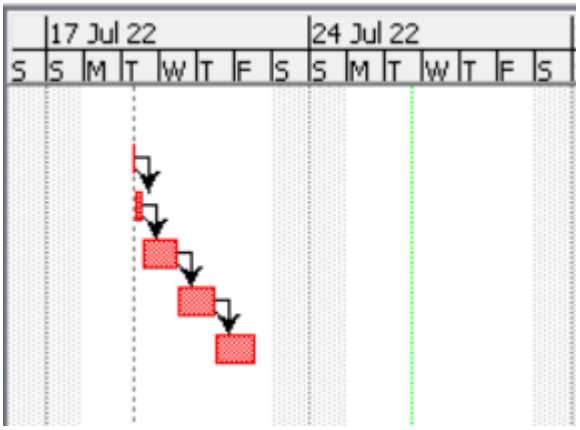
		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	1 day	19/7/22 8:00 AM	19/7/22 5:00 PM	
2		Designing	3 days	20/7/22 8:00 AM	22/7/22 5:00 PM	1
3		Coding	5 days	25/7/22 8:00 AM	29/7/22 5:00 PM	2
4		Implementation	7 days	1/8/22 8:00 AM	9/8/22 5:00 PM	3
5		Maintenance	9 days	10/8/22 8:00 AM	22/8/22 5:00 PM	4

Table for Project Time in Months:

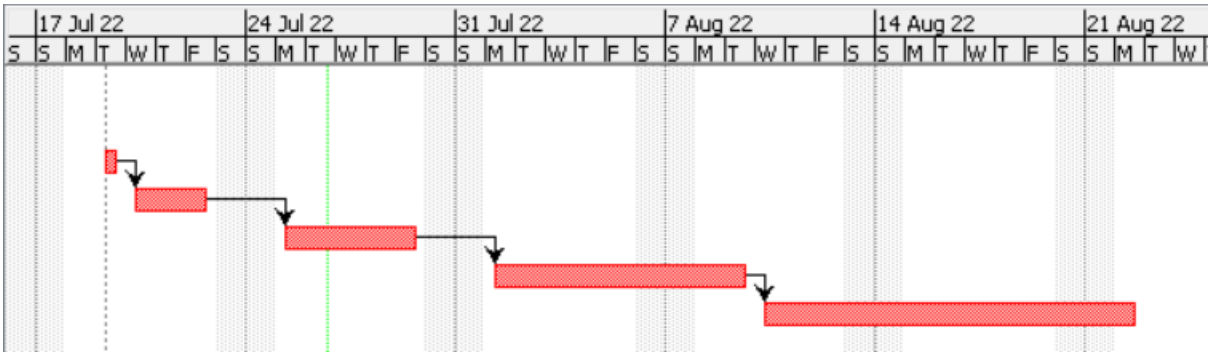
		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	20 days	19/7/22 8:00 AM	15/8/22 5:00 PM	
2		Designing	40 days	16/8/22 8:00 AM	10/10/22 5:00 PM	1
3		Coding	60 days	11/10/22 8:00 AM	2/1/23 5:00 PM	2
4		Implementation	80 days	3/1/23 8:00 AM	24/4/23 5:00 PM	3
5		Maintenance	100 days	25/4/23 8:00 AM	11/9/23 5:00 PM	4

Results:

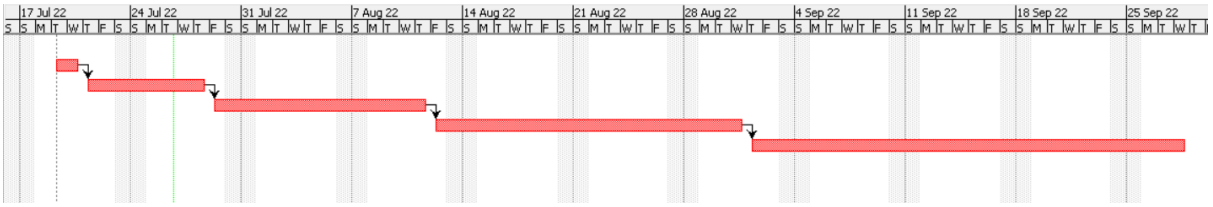
Gantt Chart for Project Time in Hours:



Gantt Chart for Project Time in Days:



Gantt Chart for Project Time in Months:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment Department of Computer Science & Engineering Amity University, Noida (UP)			
Programme	B. Tech CSE	Course Name	Software Project Management

Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047
Marking Criteria			
Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 26th July, 2022

LAB 3

Aim: Draw the Gantt chart for the software project.

Software used: Project Libre

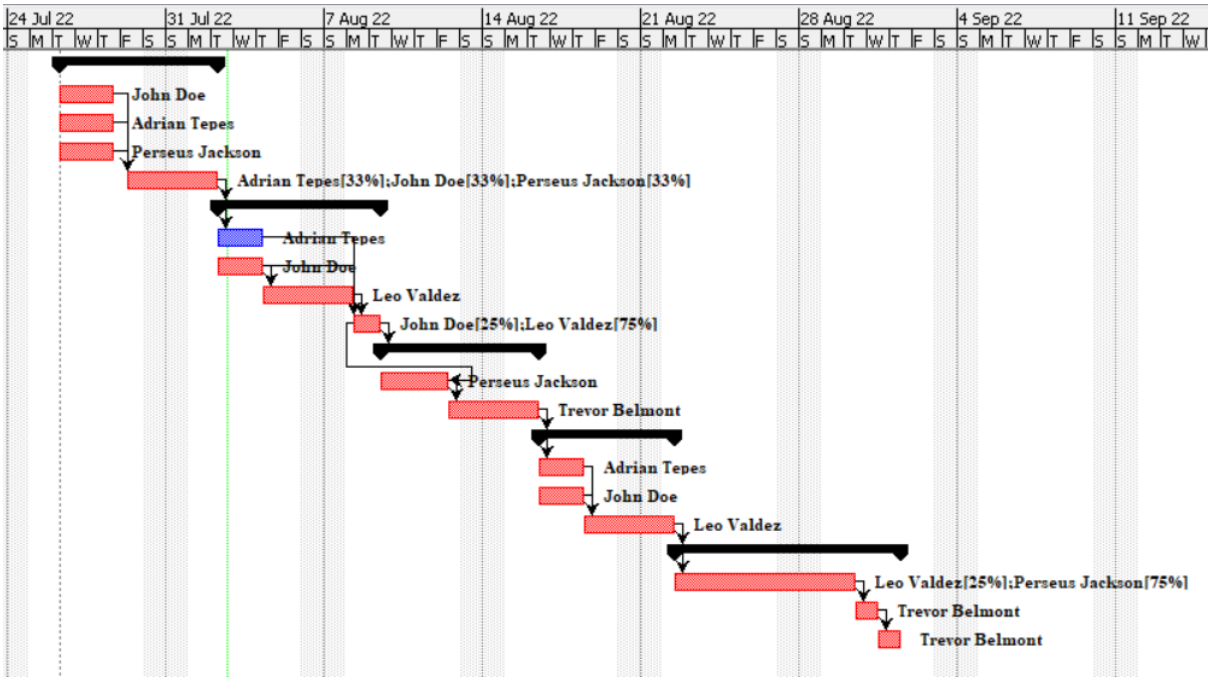
Theory:
Following are the steps to draw a Gantt chart for a project:

1. Create various tasks of the project after gathering and analysing all the requirements.
2. In each task, create some more tasks and indent them to make them sub tasks. Now, the completion of a task will be marked by completion of all its sub tasks.
3. Provide the sub tasks with their duration start and end dates and other attributes.
4. Using the predecessor property, link the sub tasks to each other and to the main tasks.
5. After setting all these properties, the Gantt chart is ready. Go to the view menu, click on the Gantt chart and the following view will be displayed.

Implementation:

	Name	Duration	Start	Finish	Predecessors	Resource Names
1	**Requirement Analysis**	5.02 days	**26/7/22 8:00 AM**	**2/8/22 8:09 AM**		
2	Determine Requirements of Product Supplier	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		John Doe
3	Determine Requirements of bank	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Adrian Tepes
4	Determine h/w and s/w requirements	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Perseus Jackson
5	Prepare SRS	2.02 days	29/7/22 8:00 AM	2/8/22 8:09 AM	2;3;4	Adrian Tepes[33%];John Doe[33%];Perseus Jackson[33%]
6	**Design**	5.5 days	**2/8/22 8:09 AM**	**9/8/22 1:09 PM**	**5**	
7	Design Phase	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM	5	Adrian Tepes
8	Design Bank Transaction and Security Module	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM		John Doe
9	Design Purchasing and Delivery Module	2 days	4/8/22 8:09 AM	8/8/22 8:09 AM	8	Leo Valdez
10	Final Use Case Design	1.5 days	8/8/22 8:09 AM	9/8/22 1:09 PM	7;8;9	John Doe[25%];Leo Valdez[75%]
11	**Coding**	5 days	**9/8/22 1:09 PM**	**16/8/22 1:09 PM**	**10**	
12	Database	3 days	9/8/22 1:09 PM	12/8/22 1:09 PM	10SF	Perseus Jackson
13	Database and User Interface Connectivity	2 days	12/8/22 1:09 PM	16/8/22 1:09 PM	12	Trevor Belmont
14	**Testing**	4 days	**16/8/22 1:09 PM**	**22/8/22 1:09 PM**	**13**	
15	Unit Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM	13	Adrian Tepes
16	White and Black Box Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM		John Doe
17	Integrated Testing	2 days	18/8/22 1:09 PM	22/8/22 1:09 PM	15;16	Leo Valdez
18	**Delivery of the Product**	30 days	**22/8/22 1:09 PM**	**1/9/22 1:09 PM**	**17**	
19	Update Changes	6 days	22/8/22 1:09 PM	30/8/22 1:09 PM	17	Leo Valdez[25%];Perseus Jackson[75%]
20	Training User	1 day	30/8/22 1:09 PM	31/8/22 1:09 PM	19	Trevor Belmont
21	Handover Product to Client	1 day	31/8/22 1:09 PM	1/9/22 1:09 PM	20	Trevor Belmont

Results:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		

Performance (C)	2		
Total	6		

Date: 2nd August, 2022

LAB 4

Aim: Using Project Planning Activities draw the PERT for the project.

Software used: Project Libre

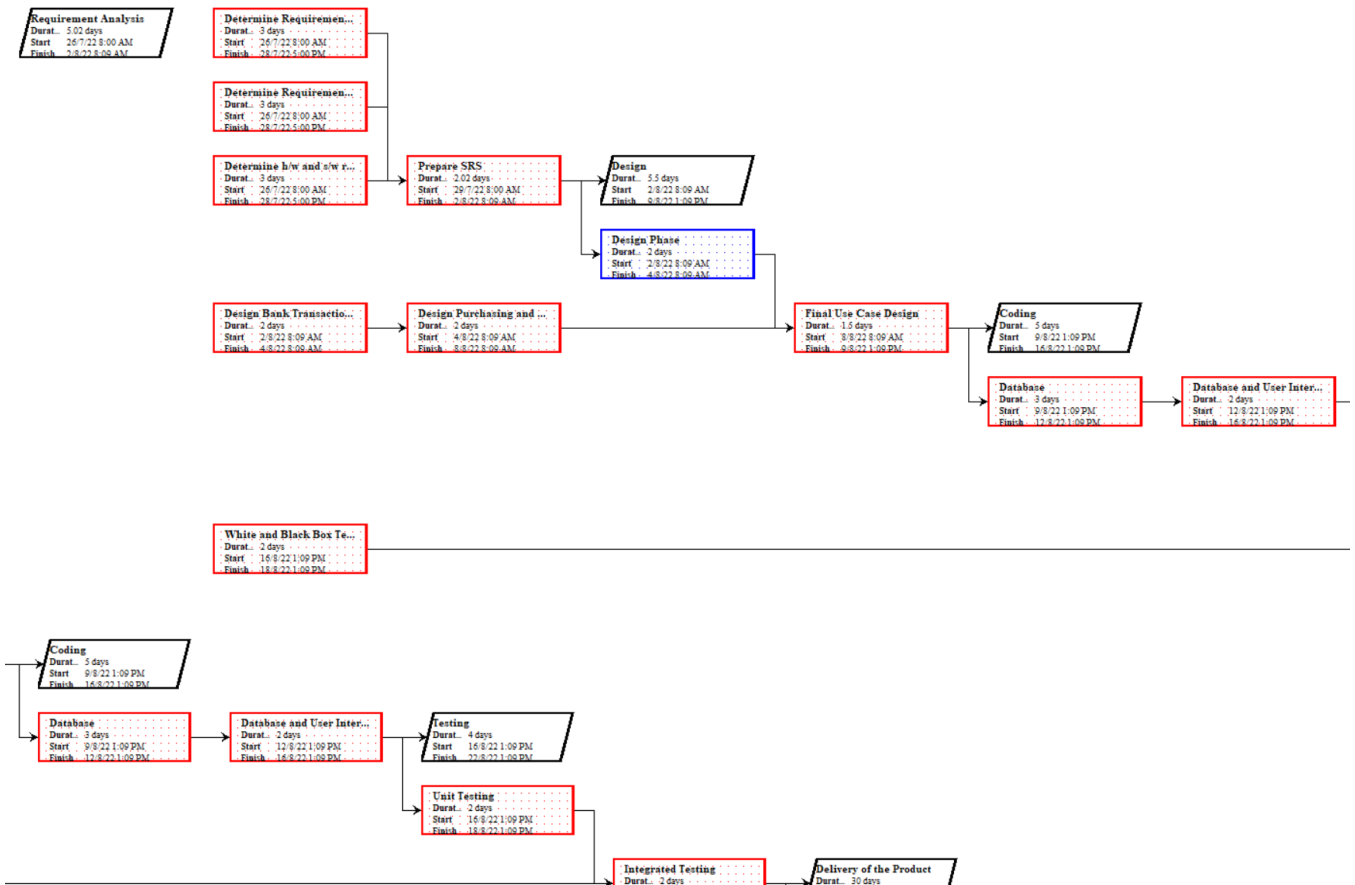
Theory:
Steps to create a PERT chart are as follows:

1. Create various tasks of the project after gathering and analysing all the requirements.
2. In each task, create some more tasks and indent them to make them sub tasks. Now, the completion of a task will be marked by completion of all its sub tasks.
3. Provide the sub tasks with their duration start and end dates and other attributes.
4. Using the predecessor property, link the sub tasks to each other and to the main tasks.
5. Now that the PERT chart is ready, go to the view menu, click on the Network Diagram tab and the following PERT chart will be displayed.

Implementation:

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		**Requirement Analysis**	5.02 days	**26/7/22 8:00 AM**	**2/8/22 8:09 AM**		
2		Determine Requirements of Product Supplier	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		John Doe
3		Determine Requirements of bank	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Adrian Tepes
4		Determine h/w and s/w requirements	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Perseus Jackson
5		Prepare SRS	2.02 days	29/7/22 8:00 AM	2/8/22 8:09 AM	2;3;4	Adrian Tepes[33%];John Doe[33%];Perseus Jackson[33%]
6		**Design**	5.5 days	**2/8/22 8:09 AM**	**9/8/22 1:09 PM**	**5**	
7		Design Phase	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM	5	Adrian Tepes
8		Design Bank Transaction and Security Module	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM		John Doe
9		Design Purchasing and Delivery Module	2 days	4/8/22 8:09 AM	8/8/22 8:09 AM	8	Leo Valdez

Result:


Requirement Analysis
Durat.. 5.02 days
Start 26/7/22 8:00 AM
Finish 2/8/22 8:09 AM
Determine Requiremen...
Durat.. 3 days
Start 26/7/22 8:00 AM
Finish 28/7/22 5:00 PM
Determine Requiremen...
Durat.. 3 days
Start 26/7/22 8:00 AM
Finish 28/7/22 5:00 PM
Determine h/w and s/w r...
Durat.. 3 days
Start 26/7/22 8:00 AM
Finish 28/7/22 5:00 PM
Prepare SRS
Durat.. 2.02 days
Start 29/7/22 8:00 AM
Finish 2/8/22 8:09 AM
Design
Durat.. 5.5 days
Start 2/8/22 8:09 AM
Finish 9/8/22 1:09 PM
Design Phase
Durat.. 2 days
Start 2/8/22 8:09 AM
Finish 4/8/22 8:09 AM
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Durat.. 2 days
Start 2/8/22 8:09 AM
Finish 4/8/22 8:09 AM
Design Purchasing and ...
Durat.. 2 days
Start 4/8/22 8:09 AM
Finish 8/8/22 8:09 AM
Final Use Case Design
Durat.. 1.5 days
Start 8/8/22 8:09 AM
Finish 9/8/22 1:09 PM
Coding
Durat.. 5 days
Start 9/8/22 1:09 PM
Finish 16/8/22 1:09 PM
Database
Durat.. 3 days
Start 9/8/22 1:09 PM
Finish 12/8/22 1:09 PM
Database and User Inter...
Durat.. 2 days
Start 12/8/22 1:09 PM
Finish 16/8/22 1:09 PM
White and Black Box Te...
Durat.. 2 days
Start 16/8/22 1:09 PM
Finish 18/8/22 1:09 PM
Coding
Durat.. 5 days
Start 9/8/22 1:09 PM
Finish 16/8/22 1:09 PM
Database
Durat.. 3 days
Start 9/8/22 1:09 PM
Finish 12/8/22 1:09 PM
Database and User Inter...
Durat.. 2 days
Start 12/8/22 1:09 PM
Finish 16/8/22 1:09 PM
Testing
Durat.. 4 days
Start 16/8/22 1:09 PM
Finish 22/8/22 1:09 PM
Unit Testing
Durat.. 2 days
Start 16/8/22 1:09 PM
Finish 18/8/22 1:09 PM
Integrated Testing
Durat.. 2 days
Delivery of the Product
Durat.. 30 days

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		

Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 9th August, 2022

LAB 5

Aim: To configure Fixed Units to tasks and allocate time and resources for the same.

Software used: Project Libre

Theory:
A task in which the assigned units (or resources) are a fixed value and any changes to the amount of work or the task's duration does not affect the task's units.

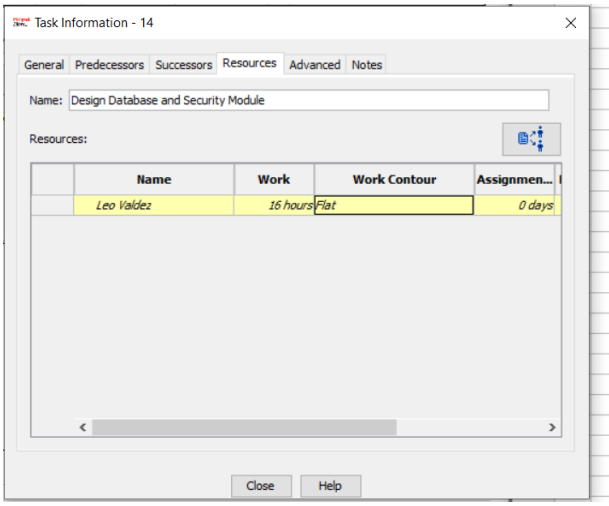
This means that adding Work or Duration to the task will not affect the Units. In this case, adding Work will increase the Duration of the task, and vice versa. Fixed Units and Fixed Work are most commonly used Task Types because they represent most project realities.

On Fixed Units task, units will be fixed. If you change the work, duration will be changed.

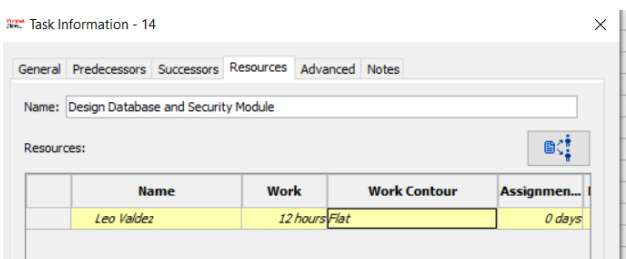
Implementation:

	Name	Duration	Start	Finish	Pre...	Resource Names
	Planning and Control	**16 days?**	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Identify Industry Standards for Project Objectives	4 days	16/8/22 8:00 AM	19/8/22 5:00 PM		Leo Valdez
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
	Planning and Control	**16 days?**	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Identify Industry Standards for Project Objectives	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM		Leo Valdez;Trevor Belmont
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
	Design	**16 days?**	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Design Phase	5 days	16/8/22 8:00 AM	29/8/22 5:00 PM		Leo Valdez
	Design Database and Security Module	2 days	30/8/22 8:00 AM	31/8/22 5:00 PM	8	Leo Valdez
	Design Purchasing and Delivery Module	2 days	1/9/22 8:00 AM	2/9/22 5:00 PM	9	Leo Valdez
	Final Use Case Design	2 days	5/9/22 8:00 AM	6/9/22 5:00 PM	10	Leo Valdez
	Design	**15 days?**	**16/8/22 8:00 AM**	**5/9/22 5:00 PM**		
	Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
	Design Database and Security Module	2 days	23/8/22 8:00 AM	23/8/22 5:00 PM	13	Leo Valdez
	Design Purchasing and Delivery Module	2 days	24/8/22 8:00 AM	24/8/22 5:00 PM	14	Leo Valdez

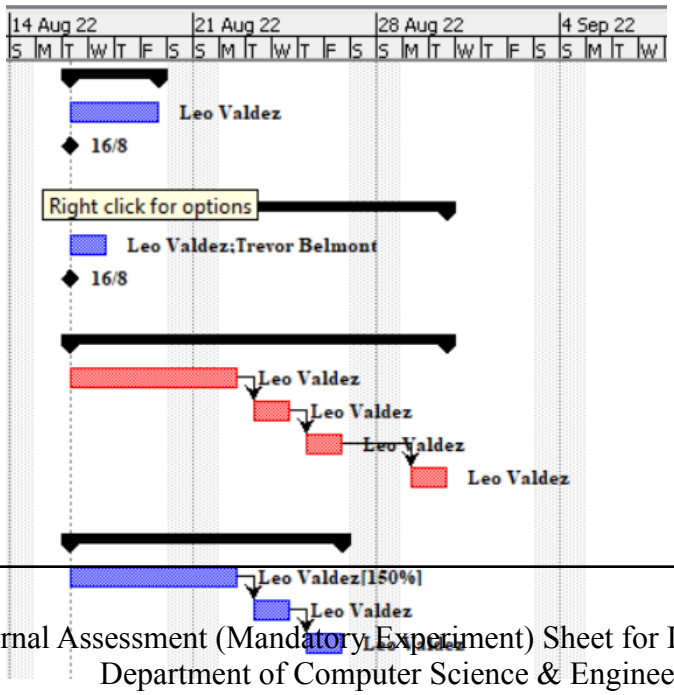
Result:



0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
11 days	**16/8/22 8:00 AM**	**30/8/22 5:00 PM**		
5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez
2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8	Leo Valdez
2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9	Leo Valdez
2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10	Leo Valdez
9 days	**16/8/22 8:00 AM**	**26/8/22 5:00 PM**		
5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13	Leo Valdez
2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14	Leo Valdez



0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
11 days	**16/8/22 8:00 AM**	**30/8/22 5:00 PM**		
5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez
2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8	Leo Valdez
2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9	Leo Valdez
2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10	Leo Valdez
8.5 days	**16/8/22 8:00 AM**	**26/8/22 1:00 PM**		
5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
1.5 days	23/8/22 8:00 AM	24/8/22 1:00 PM	13	Leo Valdez
2 days	24/8/22 1:00 PM	26/8/22 1:00 PM	14	Leo Valdez



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		

Total	6		

Date: 16th August, 2022

LAB 6

Aim: To configure Fixed Duration to tasks and allocate time and resources for the same.

Software used: Project Libre

Theory:
A task in which the assigned units (or resources) are a fixed value and any changes to the amount of work or the task's duration does not affect the task's units.

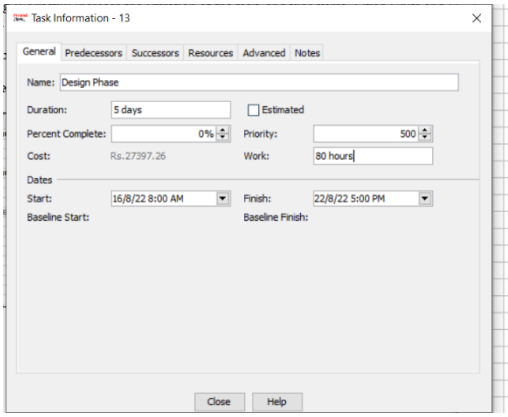
This means that adding Work or Duration to the task will not affect the Units. In this case, adding Work will increase the Duration of the task, and vice versa. Fixed Units and Fixed Work are most commonly used Task Types because they represent most project realities.

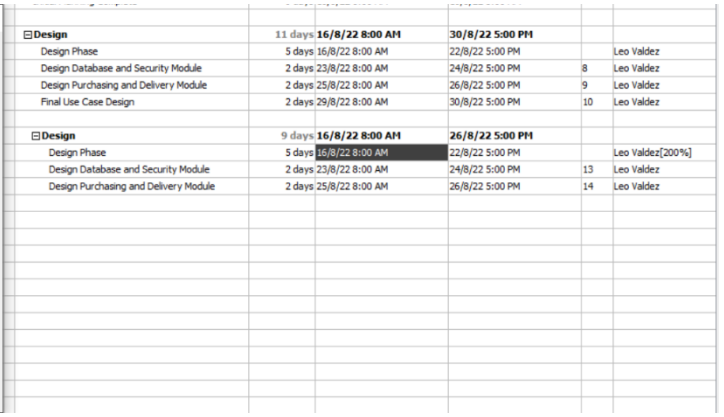
On Fixed Duration task, time will be fixed. If you change the work, units will be changed.

Implementation:

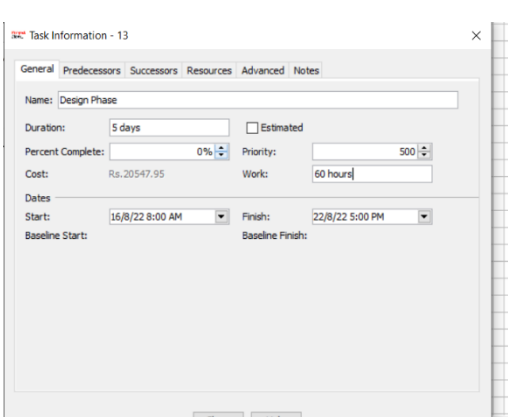
	Name	Duration	Start	Finish	Pre...	Resource Names
	Planning and Control	16 days?	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Identify Industry Standards for Project Objectives	4 days	16/8/22 8:00 AM	19/8/22 5:00 PM		Leo Valdez
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
	Planning and Control	16 days?	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Identify Industry Standards for Project Objectives	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM		Leo Valdez;Trevor Belmont
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
	Design	16 days?	**16/8/22 8:00 AM**	**6/9/22 5:00 PM**		
	Design Phase	5 days	16/8/22 8:00 AM	29/8/22 5:00 PM		Leo Valdez
	Design Database and Security Module	2 days	30/8/22 8:00 AM	31/8/22 5:00 PM	8	Leo Valdez
	Design Purchasing and Delivery Module	2 days	1/9/22 8:00 AM	2/9/22 5:00 PM	9	Leo Valdez
	Final Use Case Design	2 days	5/9/22 8:00 AM	6/9/22 5:00 PM	10	Leo Valdez
	Design	15 days?	**16/8/22 8:00 AM**	**5/9/22 5:00 PM**		
	Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
	Design Database and Security Module	2 days	23/8/22 8:00 AM	23/8/22 5:00 PM	13	Leo Valdez
	Design Purchasing and Delivery Module	2 days	24/8/22 8:00 AM	24/8/22 5:00 PM	14	Leo Valdez

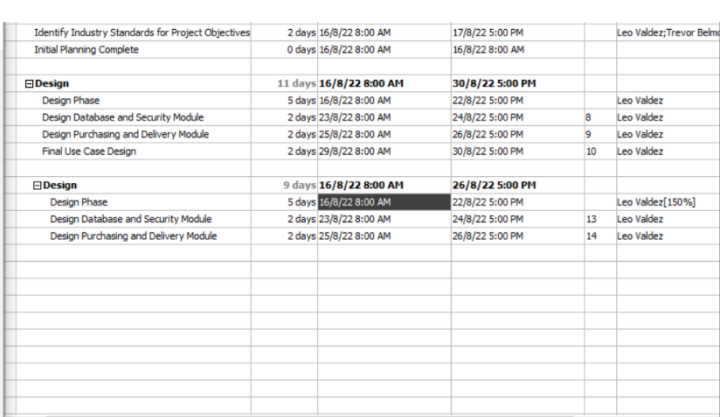
Result:



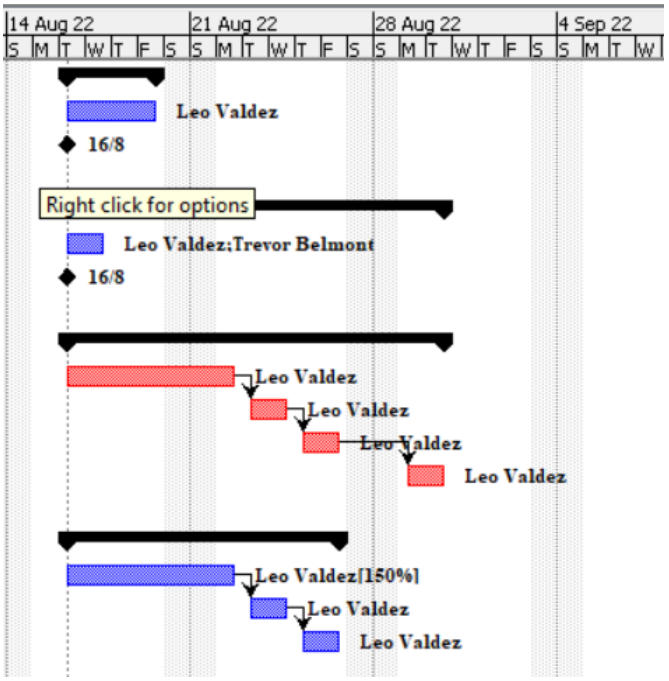


Design	11 days	**16/8/22 8:00 AM**	**30/8/22 5:00 PM**		
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8	Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9	Leo Valdez
Final Use Case Design	2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10	Leo Valdez
Design	9 days	**16/8/22 8:00 AM**	**26/8/22 5:00 PM**		
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13	Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14	Leo Valdez





Identify Industry Standards for Project Objectives	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM		Leo Valdez;Trevor Belm
Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
Design	11 days	**16/8/22 8:00 AM**	**30/8/22 5:00 PM**		
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8	Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9	Leo Valdez
Final Use Case Design	2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10	Leo Valdez
Design	9 days	**16/8/22 8:00 AM**	**26/8/22 5:00 PM**		
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[150%]
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13	Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14	Leo Valdez



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment Department of Computer Science & Engineering Amity University, Noida (UP)			
Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047
Marking Criteria			
Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		

Total	6		

Date: 9th September, 2022

LAB 7

Aim: To lay out tasks and subtasks and their timings (Work Breakdown Structure) and present the result in form of a Gantt Chart.

Software used: Project Libre

Theory:
You are the project manager with the contracted company selected by the City of Metropolis to work with the City's project team to carry out the work on the Geodatabase Design and Development Project. Your company responded to the City's RFP and was selected to perform the work. The contracted work for which you are responsible is summarized in section 1.2 of the RFP with more detailed explanation in subsequent RFP sections.

You must create a work breakdown structure (WBS) in which all the tasks and subtasks are laid out along with their timing, and further the results are shown in the form of Gantt Chart.

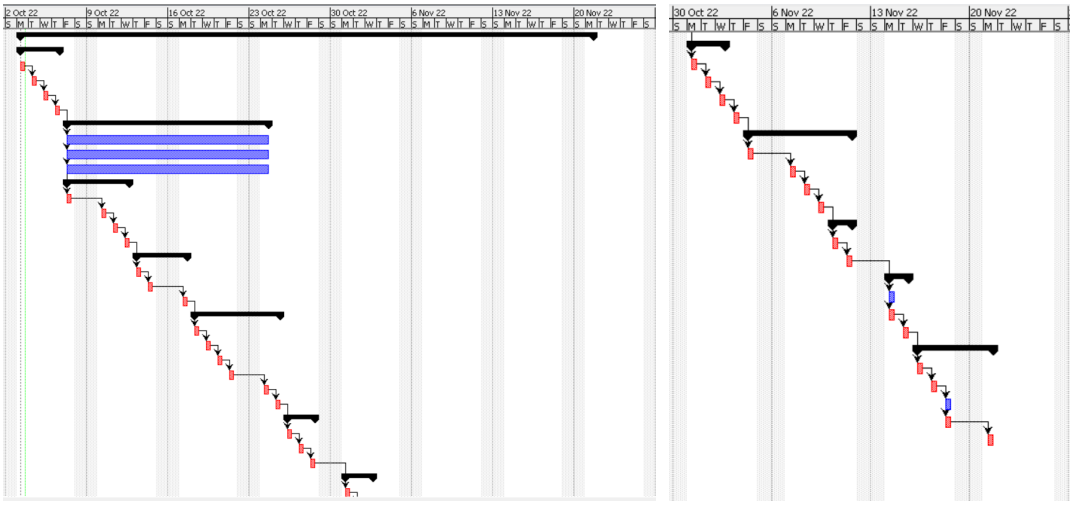
The work breakdown structure (WBS) includes a hierarchical organization of tasks (top-level tasks and subtasks), with planned start and end dates, that take into account estimated durations of time to complete the work with whatever timing constraints may influence the

starting and completion of tasks. The RFP describes the overall scope and deliverables but does not provide a specific set of tasks or approach to accomplish the work. That is the job of the contracted project manager—to prepare a plan that, based on their experience in similar projects, will provide an organized and efficient way to get the work done and which includes necessary project monitoring, status reporting, communications, quality control, and other necessary project activities.

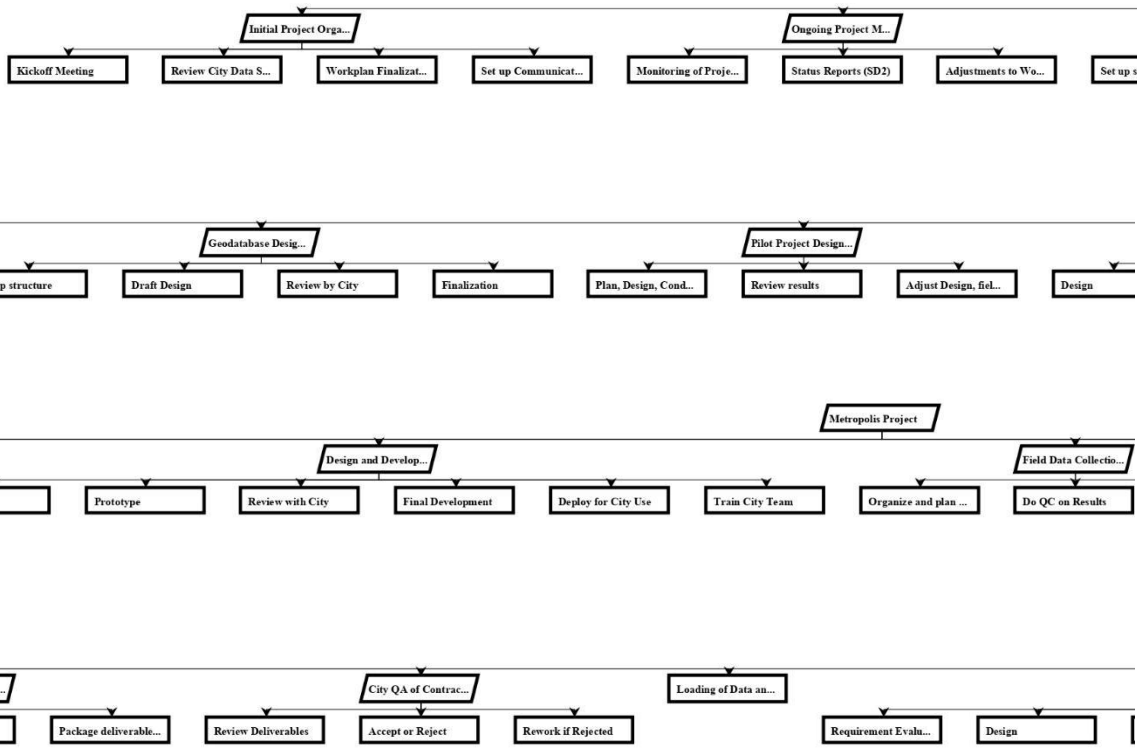
Implementation:

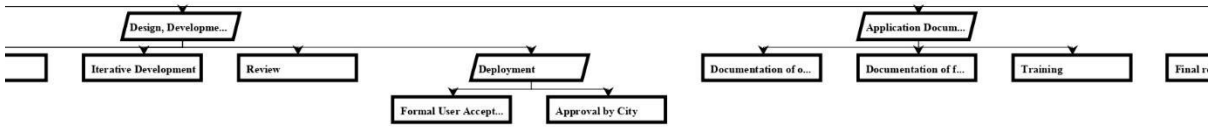
	Name	Duration	Start	Finish	Predecessors
1	**Metropolis Project**	36 days	**3/10/22 8:00 AM**	**21/11/22 5:00 PM**	
2	**Initial Project Organization, Planning,**	4 days	**3/10/22 8:00 AM**	**6/10/22 5:00 PM**	
3	Kickoff Meeting	1 day	3/10/22 8:00 AM	3/10/22 5:00 PM	
4	Review City Data Sources	1 day	4/10/22 8:00 AM	4/10/22 5:00 PM	3
5	Workplan Finalization (SD1)	1 day	5/10/22 8:00 AM	5/10/22 5:00 PM	4
6	Set up Communication Procedueres and P	1 day	6/10/22 8:00 AM	6/10/22 5:00 PM	5
7	**Ongoing Project Monitoring and Adm**	12 days	**7/10/22 8:00 AM**	**24/10/22 5:00 PM**	
8	Monitoring of Project during Execution	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
9	Status Reports (SD2)	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
10	Adjustments to Work Plan	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
11	**Geodatabase Design (MD4)**	4 days	**7/10/22 8:00 AM**	**12/10/22 5:00 PM**	
12	Set up structure	1 day	7/10/22 8:00 AM	7/10/22 5:00 PM	6
13	Draft Design	1 day	10/10/22 8:00 AM	10/10/22 5:00 PM	12
14	Review by City	1 day	11/10/22 8:00 AM	11/10/22 5:00 PM	13
15	Finalization	1 day	12/10/22 8:00 AM	12/10/22 5:00 PM	14
16	**Pilot Project Design and Execution (S**	3 days	**13/10/22 8:00 AM**	**17/10/22 5:00 PM**	
17	Plan, Design, Conduct pilot project	1 day	13/10/22 8:00 AM	13/10/22 5:00 PM	15
18	Review results	1 day	14/10/22 8:00 AM	14/10/22 5:00 PM	17
19	Adjust Design, field data collection and Q	1 day	17/10/22 8:00 AM	17/10/22 5:00 PM	18
20	**Design and Develop Data QA and Tra**	6 days	**18/10/22 8:00 AM**	**25/10/22 5:00 PM**	
21	Design	1 day	18/10/22 8:00 AM	18/10/22 5:00 PM	19
22	Prototype	1 day	19/10/22 8:00 AM	19/10/22 5:00 PM	21
23	Review with City	1 day	20/10/22 8:00 AM	20/10/22 5:00 PM	22
24	Final Development	1 day	21/10/22 8:00 AM	21/10/22 5:00 PM	23
25	Deploy for City Use	1 day	24/10/22 8:00 AM	24/10/22 5:00 PM	24
26	Train City Team	1 day	25/10/22 8:00 AM	25/10/22 5:00 PM	25
27	**Field Data Collection and QC (MD2)**	3 days	**26/10/22 8:00 AM**	**28/10/22 5:00 PM**	
28	Organize and plan contractor field collecti	1 day	26/10/22 8:00 AM	26/10/22 5:00 PM	26
29	Do QC on Results	1 day	27/10/22 8:00 AM	27/10/22 5:00 PM	28
30	Package deliverables for submittal to city	1 day	28/10/22 8:00 AM	28/10/22 5:00 PM	29
31	**City QA of Contractor Deliverables**	3 days	**31/10/22 8:00 AM**	**2/11/22 5:00 PM**	
32	Review Deliverables	1 day	31/10/22 8:00 AM	31/10/22 5:00 PM	30

	Name	Duration	Start	Finish	Predecessors
33	Accept or Reject	1 day	1/11/22 8:00 AM	1/11/22 5:00 PM	32
34	Rework if Rejected	1 day	2/11/22 8:00 AM	2/11/22 5:00 PM	33
35	Loading of Data and Metadata in City Geod	1 day	3/11/22 8:00 AM	3/11/22 5:00 PM	34
36	**Design, Development, and Deployme**	6 days	**4/11/22 8:00 AM**	**11/11/22 5:00 PM**	
37	Requirement Evaluation	1 day	4/11/22 8:00 AM	4/11/22 5:00 PM	35
38	Design	1 day	7/11/22 8:00 AM	7/11/22 5:00 PM	37
39	Iterative Development	1 day	8/11/22 8:00 AM	8/11/22 5:00 PM	38
40	Review	1 day	9/11/22 8:00 AM	9/11/22 5:00 PM	39
41	**Deployment**	2 days	**10/11/22 8:00 AM**	**11/11/22 5:00 PM**	
42	Formal User Acceptance Testing	1 day	10/11/22 8:00 AM	10/11/22 5:00 PM	40
43	Approval by City	1 day	11/11/22 8:00 AM	11/11/22 5:00 PM	42
44	**Application Documentation and Train**	2 days	**14/11/22 8:00 AM**	**15/11/22 5:00 PM**	
45	Documentation of office-based applicatior	1 day	14/11/22 8:00 AM	14/11/22 5:00 PM	43
46	Documentation of field-based applications	1 day	14/11/22 8:00 AM	14/11/22 5:00 PM	43
47	Training	1 day	15/11/22 8:00 AM	15/11/22 5:00 PM	46
48	**Project Closure**	4 days	**16/11/22 8:00 AM**	**21/11/22 5:00 PM**	
49	Final report with draft	1 day	16/11/22 8:00 AM	16/11/22 5:00 PM	47
50	Review by City	1 day	17/11/22 8:00 AM	17/11/22 5:00 PM	49
51	Final Report	1 day	18/11/22 8:00 AM	18/11/22 5:00 PM	50
52	Final Project Meeting	1 day	18/11/22 8:00 AM	18/11/22 5:00 PM	50
53	Contract Closure	1 day	21/11/22 8:00 AM	21/11/22 5:00 PM	52


2 Oct 22
9 Oct 22
16 Oct 22
23 Oct 22
30 Oct 22
6 Nov 22
13 Nov 22
20 Nov 22
30 Oct 22
6 Nov 22
13 Nov 22
20 Nov 22

Result:


Initial Project Orga...
Kickoff Meeting
Review City Data S...
Workplan Finalizat...
Set up Communicat...
Ongoing Project M...
Monitoring of Proje...
Status Reports (SD2)
Adjustments to Wo...
Geodatabase Desig...
Set up structure
Draft Design
Review by City
Finalization
Pilot Project Design...
Plan, Design, Cond...
Review results
Adjust Design, fiel...
Design
Metropolis Project
Design and Develop...
Design
Prototype
Review with City
Final Development
Deploy for City Use
Train City Team
Field Data Collectio...
Organize and plan ...
Do QC on Results
City QA of Contrac...
Package deliverable...
Review Deliverables
Accept or Reject
Rework if Rejected
Loading of Data an...
Requirement Evalu...
Design


Design, Developme...
Iterative Development
Review
Deployment
Formal User Accept...
Approval by City
Application Docum...
Documentation of o...
Documentation of f...
Training


Project Closure
Final report with d...
Review by City
Final Report
Final Project Meeting
Contract Closure

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 20th September, 2022

LAB 8

Aim: To link, move and copy tasks in Project Libre

Software used: Project Libre

Theory:

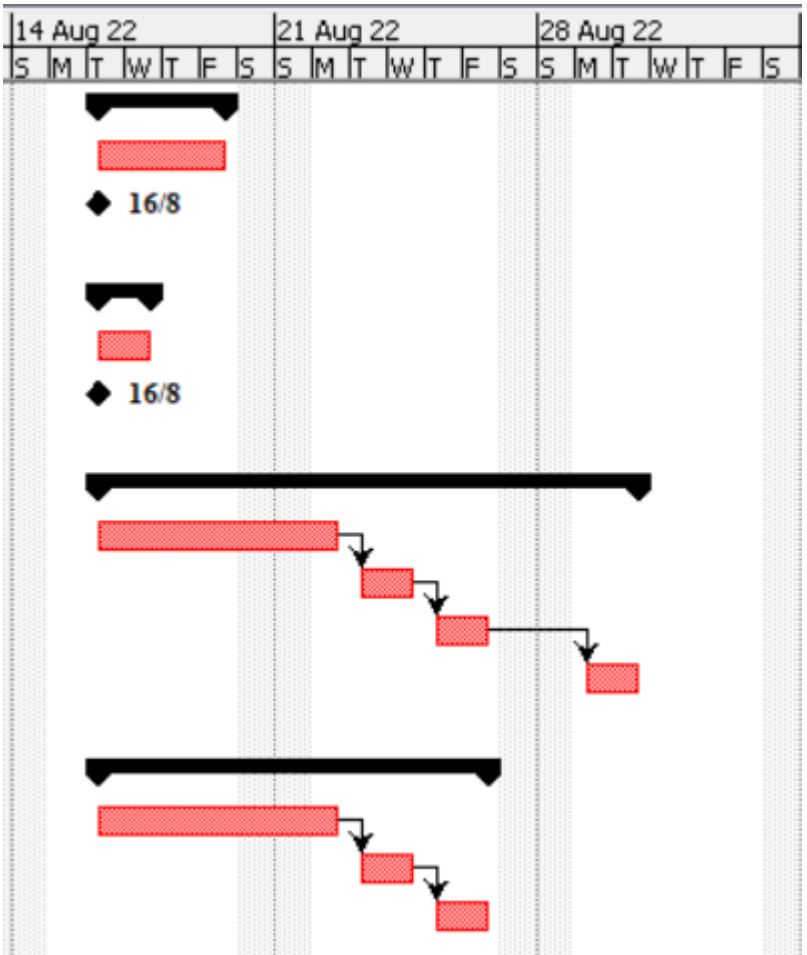
The standard approach to classifying dependencies uses the relationship between the start and finish conditions of the two elements you're comparing. This results in four potential styles of dependency:

- Finish to Start: one element requires the completion of another before you can begin it. Often, this occurs in situations in which the first element creates a critical component of the second.
- Finish to Finish: requires completion of both elements, meaning finish work on the initial element before completing the second. During this process, one may work on both elements concurrently.
- Start to Start: a first element has to start before a second one can. Once the elements start, both may run concurrently. Often, this occurs in situations where both elements require extensive work and the second has prerequisites from the first. This allows the second project to work after the initial element and progress alongside it as long as it follows behind the dependencies of the first element.
- Start to Finish: must complete one element before one can begin another. This commonly occurs when a dependency involves the transfer of materials or information between the two elements, requiring one to start work on the receiving element before one can complete the work for the other element.

Implementation:

		Name	Duration	Start	Finish	Predecessors
1		**Planning and Control**	4 days	**16/8/22 8:00 AM**	**19/8/22 5:00 PM**	
2		Identify Industry Standard	4 days	16/8/22 8:00 AM	19/8/22 5:00 PM	
3		Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM	
4		**Planning and Control**	2 days	**16/8/22 8:00 AM**	**17/8/22 5:00 PM**	
5		Identify Industry Standard	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM	
6		Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM	
7		**Design**	11 days	**16/8/22 8:00 AM**	**30/8/22 5:00 PM**	
8		Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	
9		Design Database and Secu	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8
10		Design Purchasing and Deli	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9
11		Final Use Case Design	2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10
12		**Design**	9 days	**16/8/22 8:00 AM**	**26/8/22 5:00 PM**	
13		Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	
14		Design Database and Secu	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13
15		Design Purchasing and Deli	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14

Results:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 27th September, 2022

LAB 9

Aim: To draw checkpoints and milestones of a project

Software used: Project Libre

Theory:

A milestone is a specific point within a project's life cycle used to measure the progress toward the ultimate goal. Milestones in project management are used as signal posts for a project's start or end date, external reviews or input, budget checks, submission of a major deliverable, etc. A milestone is a reference point that marks a significant event or a branching decision point within a project.

Checkpoints provide visibility to milestones in life cycle and also to system-wide issues and problems. They generally provide the following benefits:

- Synchronize management and engineering perspectives.
- Verify that goal every phase has been achieved or not.
- Provide basis for analysis and evaluation so as to determine whether or not project is proceeding as planned, and also to make correction and right action as per requirement.
- Identify risks, issues, or problems that are essential and conditions that are not tolerable.
- For entire life-cycle, they perform global assessment.

Implementation:

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 4th October, 2022

LAB 10

Aim: To use the workspace base line in Project Libre and review the critical path.

Software used: Project Libre

Theory:

Critical path method (CPM) is a resource-utilization algorithm for scheduling a set of project activities. The essential technique for using CPM is to construct a model of the project that includes the following:

- A list of all tasks required to complete the project
- The dependencies between the tasks
- The estimate of time (duration) that each activity will take to complete

With this information, we can determine the critical path by identifying the longest stretch of dependent activities and measuring them from start to finish. Once identified, the critical path can help discern which activities have total float or can be delayed without making the project longer.

Project Libre helps in identification of the critical path, and the activities on it, as it automatically highlights those activities in red in the Gantt chart during the creation of the project. Using these, we can see which activities must be completed without any delays for the particular software project.

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Akshat Bhatnagar	Enrollment No.	A2305219047

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		