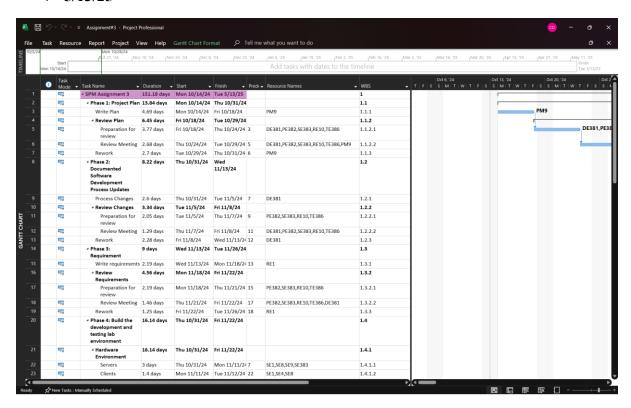
ASSIGNMENT - 3

7. What is the earliest finish date for this project if it is scheduled to start on 10/14/24?

***** 5/13/25



8. Can this project be completed 2 months after it starts? Explain why yes or no.

No, it is not possible to complete the project in 2 months. Since the pool project is the one we have chosen to prioritize in the resource pool, resources will be assigned to it according to availability.

Project 1

Start date: 9/16/24Finish Date: 11/25/24

❖ Project 2

Start date: 9/23/24Finish Date: 6/2/25

❖ Project 3

Start date: 10/14/24Finish Date: 5/13/25

10. Submit your Comments regarding the start and completion dates and resources assignments for the three projects in a PDF document called Analysis.pdf.

1. Document and comment on the WBS

Work Breakdown Structure (WBS)

> Project 1:

- 1.1- Project plan
- 1.2 Risk Mitigation and Contingency Plan
- 1.3 Requirements 1.4 Analysis
- 1.5 Design
- 1.6 Coding and unit test
- 1.7 Testing
- 1.8 Documentation

➤ Project 2:

- 1.1- Project plan
- 1.2 Requirements
- 1.3 Lab and Environment Setup
- 1.4 Analysis/Design Document
- 1.5 Data Model
- 1.6 Coding and unit test
- 1.7 Testing
- 1.8 Documentation
- 1.9 Training

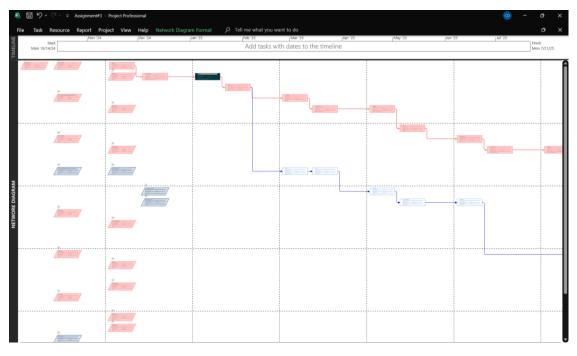
➤ Project 3:

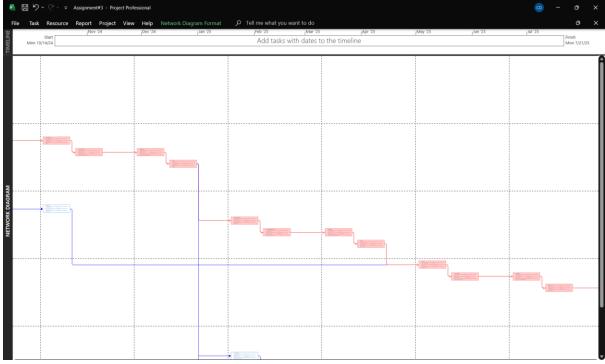
- 1.1 Project plan
- 1.2 Documented Software Development Process Updates
- 1.3 Requirement
- 1.4 Build the development and testing lab environment
- 1.5 Analysis
- 1.6 Design
- 1.7 Coding
- 1.8 Testing
- 1.9 Documentation

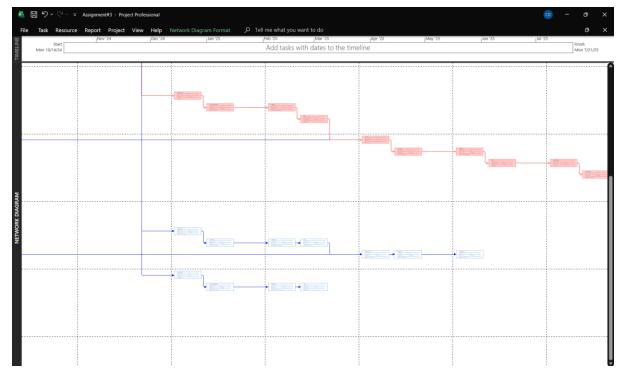
2. Document and comment on the Network Diagram

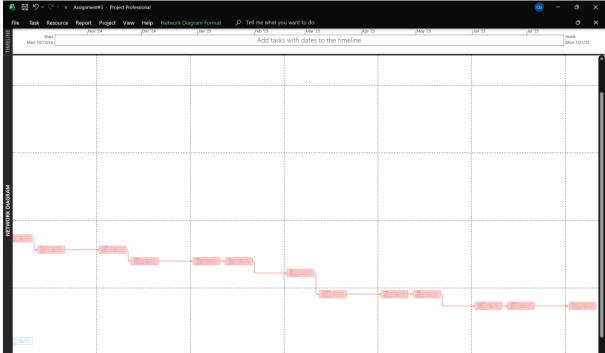
❖ Network Diagram

The network diagram, which shows the path with the longest duration, aids in our ability to identify the crucial path. It offers a clearer understanding of the workflow.









3. Document and comment on the resource pool utilization

Resource pool utilization

The same pool of resources is used by all three programmers. Assignments 1 and 2 now include the resources for assignment 3. Through three distinct initiatives, we are sharing the resource pool in the assignment. We avoid overallocation by using resources according to their availability.

4. Document the Baseline Estimation Calculations

$$p_1 p_1 = \frac{5+4}{2} = 4.5 = 5; \frac{150}{5 \times 6} = 3.75$$

rudork:
$$\frac{4+6}{2} = 5$$
; $\frac{108}{5 \times 8} = \frac{2.7}{100} = 2.7$

$$P1: \frac{22 \times 1000}{31} = 709.6 = \frac{710}{2} \Rightarrow \frac{710 + 734}{2} = 722 \Rightarrow 722 \times 0.15$$

$$\frac{31}{135} = \frac{31}{733} = \frac{31}{734} = \frac{31}{734}$$

Destware Dev

procew:
$$\frac{82}{4\times 4} = 2.562 = 2.6$$

$$81 \text{ work} : \frac{91}{5 \times 8} = 2.275 = 2.275$$

>> Requirement

write:
$$\frac{5+3}{2} = 4$$
; $\frac{210}{4\times8} = \frac{6.562}{3} = 2.187$

$$prep: 18+5 = 11.5 ? 12; 210 = 2.187$$

$$NViw$$
: $\frac{28+8}{2} = 18$; $\frac{210}{18 \times 8} = 1.458$

rwork:
$$\frac{10+5}{2} = 7.5 = 8$$
; $\frac{240}{8 \times 8} = \frac{3.75}{3} = 1.25$

Ament q work

P1:
$$136 \times 1000 = 1215$$
 $\frac{1215 + 1062}{2} = 1139 \times 0.21$

P2: $413 \times 1000 = 1062$ $= 240$

$$\Rightarrow$$
 Build Dev.
Server: $\frac{12}{4} = \frac{12}{4} = 3$

Client
$$1\frac{21}{5} = \frac{4.2}{3} = 1.4$$
Build: $\frac{12}{1\times 8} = \frac{1.5}{1} = 1.5$

Test case:
$$\frac{5}{2} = \frac{2.5}{2} = 1.25$$

Simulation: $\frac{8}{2} = \frac{4}{3} = 2$

$$\Rightarrow \frac{\text{Analysis}}{\text{write}}$$

write: 5; $\frac{172}{5\times8} = \frac{4.3}{2} = 2.15$

$$\frac{1}{4 \times 8} = \frac{1}{4 \times 8} =$$

$$9 \times 8$$

*(work: 6; $\frac{321}{6 \times 8} = 6.687 = \frac{6.7}{2} = 3.35$

Amount
$$g \text{ work}$$

$$123 \times 1000 = 1863 \times 0.172 = 321$$

$$\overline{66}$$

Design

Purite:
$$\frac{5+4}{2} = 4.5 \stackrel{?}{=} 5$$
; $\frac{220}{5\times8} = \frac{5.5}{2} = 2.75$

Pry: $\frac{4+5}{2} = 4.5 \stackrel{\sim}{=} 5$; $\frac{220}{5\times8} = 5.5$

YIVias: $\frac{8+8}{2} = 86 \stackrel{\sim}{=} 8$; $\frac{220}{8\times8} = 3.05$

$$10007k^{\frac{1}{2}} \frac{6+6}{2} = 6.4 \frac{34}{2}; \frac{64}{2} = \frac{1034}{2} = \frac$$

Vework:
$$\frac{6+6}{2} = 6$$
; $\frac{692}{2000} = \frac{14}{31} = \frac{4835}{6\times8} = \frac{10.916}{6\times8}$

Amount of work

 $\frac{296}{28} = \frac{3.64}{2000} = \frac{3.64}{2000} = \frac{3.64}{2000} = \frac{296}{2000} = \frac{3.64}{2000} = \frac{3.64}{200$

 $\frac{2000}{234}$ write: $\frac{5+5}{2} = 5$; $\frac{3800}{5\times8} = \frac{95}{5} = 19$ $\frac{99}{624} = \frac{25}{2} = \frac{315}{2} = \frac{335}{3} = \frac{19}{4} = \frac{28}{4} = \frac{28}{4}$ $\frac{112}{2} = 10$; $\frac{266}{10} = \frac{26.6}{4} = 6.65$

text:
$$\frac{12+8}{102} = 10$$
; $\frac{266}{10} = \frac{26.6}{4} = 6.65$
 $\frac{113+90}{2} = 101.5 = 102$; $\frac{3800}{102 \times 8} = 4.66$

meeting: $\frac{189 + 135}{2} = 162$; $\frac{3800}{162 \times 8} = 2.932$ meeting: $\frac{5+5}{2} = 5$; $\frac{334}{5\times 8} = \frac{63.4}{5}$ MS 248 $\frac{8.425}{5} = 1.685$

Pi :
$$\frac{256 \times 1000}{3800} = 67.36 \approx 68$$
 $\frac{68 + 108}{2} = 88 \times 3.8 = \frac{68 \times 3.8}{2} = \frac{1045 \times 1000}{335} = 107.45 \approx 108$

P2:
$$902 \times 1000 = 92.75 = 93$$

$$\frac{9725}{2800} = 49.47 \stackrel{?}{=} 50 \quad 1000 = 88.5 \times 3.8 \stackrel{?}{=} 337$$

$$\frac{188 \times 1000}{3800} = 126.47 \stackrel{?}{=} 127$$

$$\frac{\text{Tuting}!}{\text{writ}} : \frac{205}{8} = \frac{25.625}{4} = 6.406$$

$$\frac{prq!}{5\times8} = 5.125$$
 $\frac{205}{5\times8} = 2.562$
 $\frac{205}{10\times8} = 2.562$

Yework 1
$$\frac{101}{4 \times 8} = \frac{3.156}{4} = 0.789$$

execute: $\frac{194}{8} = \frac{24.25}{4} = 6.06$

$$\frac{113}{5} = \frac{22.6}{4} = 5.65$$

$$\text{Lat} : \frac{113}{10} = \frac{11.3}{4} = 2.825$$

User :
$$\frac{4+6}{2} = 5$$
; $\frac{177}{5\times8} = \frac{4.425}{2} = 2.212$

$$P^{1}\phi^{1} = 4.5 = 5; \frac{177}{5 \times 8} = 4.425$$

Yework:
$$\frac{6+9}{2} = 7.5$$
; $\frac{237}{8\times8} = \frac{20-3.71}{2} = 1.85$

P1:
$$\frac{174 \times 1000}{134} \approx 1299$$
 $\frac{1299 + 1368}{2} \approx 1334 \times 0.177$
P2: $\frac{532 \times 1000}{389} \approx 1368$ $= 237$

$$72: \frac{532 \times 1000}{2} \approx 1368$$