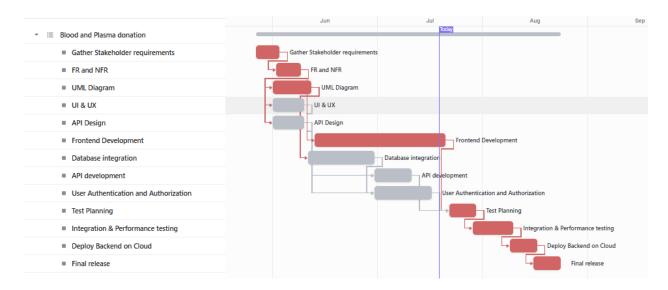
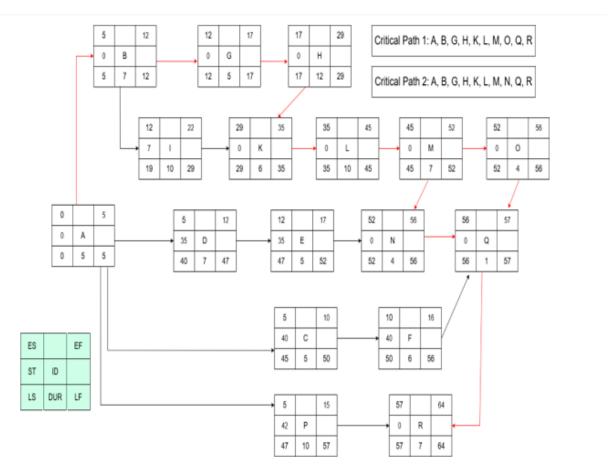
Gantt Chart:



Network diagram and Critical Path:



Critical Path 1: $A \rightarrow B \rightarrow G \rightarrow H \rightarrow K \rightarrow L \rightarrow M \rightarrow O \rightarrow Q \rightarrow R$

Critical Path 2: $A \rightarrow B \rightarrow G \rightarrow H \rightarrow K \rightarrow L \rightarrow M \rightarrow N \rightarrow Q \rightarrow R$

Activity Table:

Activity Table:

Phase Name	Activity Name	ID	Duration (weeks)	Predecessors
Requirements Analysis	Gather Stakeholder Requirements	A	1	_
	Define Functional & Nonfunctional Requirements	В	1	A
System Design	UML Diagram Design (Use Case, Activity, Sequence, DFD, ERD)	С	1.5	В
	UI & UX Design	D	1	В
	API Design	E	1	В
Web App Development	Develop Web App Frontend	F	4.5	C, D, E
Backend Development	Database Design & Development	G	2.5	С
	API Development	Н	1.5	G, E
	User Authentication & Authorization	I	2	G, E
Testing	Test Planning	J	1	F, H, I
	Integration & Performance Testing	K	1.5	J
Deployment & Release	Deploy Backend on Cloud	L	1	K
	Final Release	M	1	L