Activity	Duration	Dependency
A Requirement Gathering.	1	
B Identify Project Goals and Objectives.	2	Α
C Identify Project Stakeholders.	2	В
D Setting Up The Project Infrastructure.	4	С
E Finalizing project scope.	2	D
F Sprint 01 - Planning and Backlog	2	E
Grooming.		
G Project Initiation.	3	F
H Creating User Stories.	1	G
I Design Wireframes.	1	Н
J Design Database.	2	I
K Sprint 02 - Planning and Backlog	2	J
Grooming.		
L Design and Implement Institute Login.	2	К
M Design and Implement Offchain.	3	К
N Design and Implement Certificate	3	К
Upload and Management.		
O Design and Implement Verification	3	K
System for Students.		
P Test the Implemented Features.	1	L, M, N, O
Q Sprint 03 - Planning and	2	P
Backlog Grooming.		
R Design Blockchain Structure and	4	Q
Implement With Harmony Blockchain.		
S Design IPFS Structure and	4	Q
Implement With Client Server.		
T Implement Synchronization of IPFS.	4	Q
U Testing.	1	R, S, T
V Sprint 04 - Planning and	2	U
Backlog Grooming.		
W Develop Offchain Connection With	2	V
Blockchain.		
X Implement Offchain Connection With	2	V
Blockchain.		
Y Implement Real Time Updates.	3	V
Z Test the Implemented Features.	2	W, X, Y
AA Code Review.	1	F, K, Q, V
BB Testing, Analyze System for Any Bugs	4	AA
& Debugging.		
CC Final Approval.	1	ВВ
DD Deployment.	1	CC