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