Reporting No:1 Week No:1 From :22/05/2025 To:30/05/2025 College ID: 22IT116

Project Title: performance analysis of app

**WEEKLY REPORT**

**Work done in last week ( Attach supporting Documents):**

26/05/2025 Monday

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| --- | --- |
| 9:30 – 11:30 | Completed *Introduction to Blockchain:*  Core concepts, types of blockchains, assets, consensus. |
| 12:00– 2:30 | Completed *Introduction to Linux Foundation Decentralized Trust* Covered LF umbrella projects. |
| 3:00– 5:00 | Studied *Introduction to Hyperledger Fabric* |

27/05/2025 Tuesday

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| --- | --- |
| 9:30 – 11:30 | Completed *Hyperledger Fabric Model*  *Assets and architecture.* |
| 12:00– 2:30 | Studied *MSP, Identity, and Certificate Authority* |
| 3:00– 5:00 | Learned *Fabric Components – Peer, Orderer, Channel, Ledger* |

28/05/2025 Wednesday

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| --- | --- |
| 9:30 – 11:30 | Studied *Ordering Service and Raft/BFT Implementations* |
| 12:00– 2:30 | Completed *Transaction Lifecycle and Gossip Protocol* |
| 3:00– 5:00 | Covered *Smart Contracts and Fabric Chaincode Lifecycle* |

29/05/2025 Thursday

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| --- | --- |
| 9:30 – 11:30 | Installed prerequisites for Fabric on Linux (Lab) |
| 12:00– 2:30 | Completed installation and testing of Fabric network |
| 3:00– 5:00 | Network configuration for Peer and Orderer nodes (Labs 1 & 2) |

30/05/2025 Friday

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| --- | --- |
| 9:30 – 11:30 | Created and joined Fabric channels (Channel Config Lab) |
| 12:00– 2:30 | Developed and deployed Smart Contracts on Fabric (Chaincode Lab) |
| 3:00– 5:00 | Interacted with Chaincode using CLI |

**Reason for incomplete work:**

1. Due to the hands-on nature of labs (especially CA implementation and Gateway service), some advanced sections (Modules 20 to 25) were only partially explored and are scheduled for next week after environment optimization.

**Plans for next week:**

1. Completing Module 20 to 25 and working in Hyperledger caliper

**References:**

1. Linux Foundation : [trainingportal.linuxfoundation.org/hyperledger-fabric-design-develop-and-deploy-lfs270](https://trainingportal.linuxfoundation.org/learn/course/hyperledger-fabric-design-develop-and-deploy-lfs270/course-introduction/course-information)

**Signature of External Guide Signature of Internal Guide**

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