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):

22/05/2025 Thursday

9:30 – 11:30	Introduction: What to Do During an Internship and About the Project
12:00– 2:30	Completed "Quick Blockchain Refresher" section (Modules 2.1–2.10) from KBA course.
3:00– 5:00	Studied Docker basics and container lifecycle (Modules 3.1–3.5).

23/05/2025 Friday

9:30 – 11:30	Hands-on setup of Docker for Fabric networks.
12:00– 2:30	Covered real-world blockchain case studies (Modules 4.1–5.2).
3:00– 5:00	Studied transparency, traceability, fraud prevention in blockchain (Modules 6.1–6.5).

26/05/2025 Monday

9:30 – 11:30	Explored Hyperledger implementations like Corda, Ethereum, and Fabric (Modules 8.1–8.4).
12:00– 2:30	Completed "Why Hyperledger Fabric" (Modules 10.1–10.7).
3:00– 5:00	Studied Fabric Network Architecture (Modules 11.1–11.10).

27/05/2025 Tuesday

9:30 – 11:30	Practiced orderer setup and channel creation.
12:00– 2:30	Learned about peers, client nodes, and endorsement logic (Modules 12.1–12.10).
3:00– 5:00	Studied PKI, MSP, and certificate authorities (Modules 13.1–13.7).

28/05/2025 Wednesday

9:30 – 11:30	Explored Fabric transaction flow and message passing (Modules 14.1–14.9).
12:00– 2:30	Bootstrapped the Fabric network with VSCode (Modules 15.1–15.8).
3:00– 5:00	Completed hands-on car auction network and related solution (Modules 16.1–16.3).

29/05/2025 Thursday

9:30 – 11:30	Learned about chaincode basics and transaction lifecycles (Modules 18.1–19.4).
12:00– 2:30	Studied writing and deploying chaincode (Modules 20.1–22.7).
3:00– 5:00	Completed exercises on PDC and rich queries (Modules 24.1–25.2).

30/05/2025 Friday

9:30 – 11:30	Finalized chaincode development (Module 26.1).
12:00– 2:30	Completed Assessments 2 & 3 and reviewed RAFT consensus (Modules 28.1, 33.1, 40.1–40.5).
3:00– 5:00	Started LFS270 course: Completed Course Introduction (Module 1).

Reason for incomplete work:

1. No major tasks remained incomplete. However, detailed exploration of some advanced modules from the LFS270 course (such as Fabric CA setup and production-level deployment strategies) was deferred to next week due to the extensive time needed for hands-on lab configuration and system setup compatibility issues.

Plans for next week:

1. Progress through Module 2 to 5 of the LFS270 course:
    a. Deep dive into Hyperledger Fabric architecture and components.
    b. Study Certificate Authorities (CAs), Ordering Services, and network configuration best practices.
2. Complete hands-on labs:
    a. Set up a basic network using cryptogen and configtxgen.
    b. Deploy and test smart contracts using Fabric CLI.
3. Explore advanced features:
    a. Identity management using Fabric CA.
    b. Integrating applications with Fabric SDKs.
4. Begin drafting initial proposal for a capstone project using Hyperledger Fabric:
    a. Define use-case, architecture, roles, and transaction model.

References:

1. KBA : https://learn.kba.ai/course/certified-hyperledger-fabric-developer/
2. Linux Foundation : trainingportal.linuxfoundation.org/hyperledger-fabric-design-develop-and-deploy-lfs270

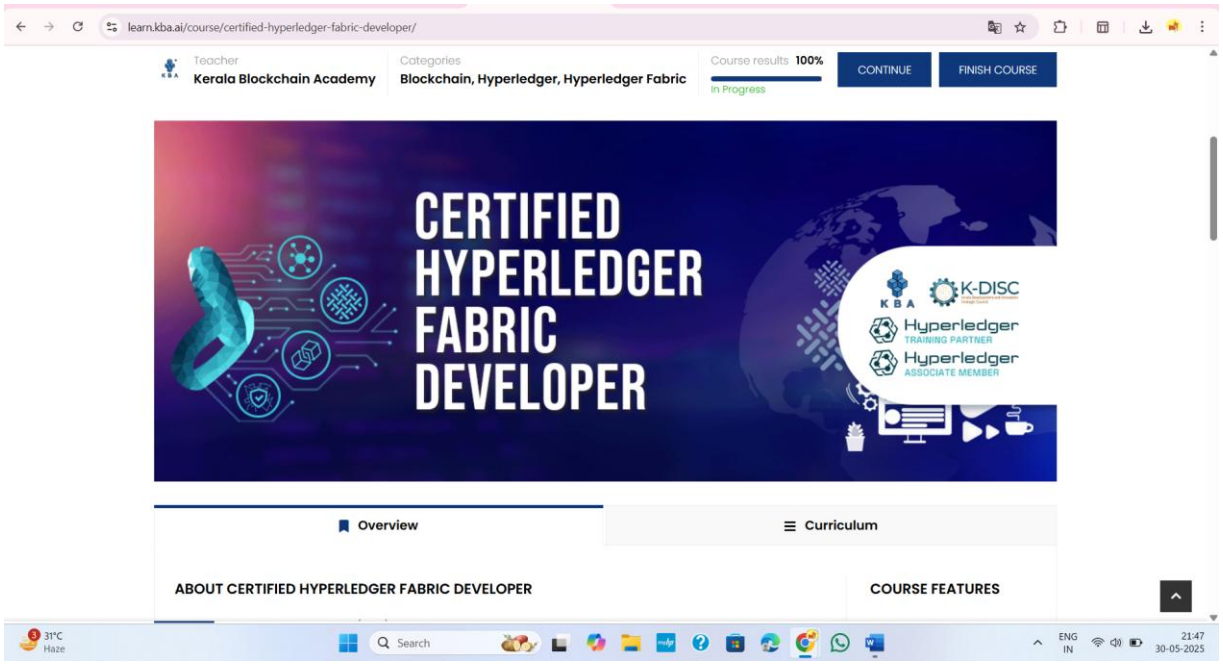

Figure 1:Complete the Certified Hyperledger Fabric Developer course 100%

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

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