School: .... Campus: ....

Academic Year: .... Subject Name: .... Subject Code: ....

Semester: .... Program: .... Branch: .... Specialization: ....

Date: ....

Centurion
UNIVERSITY
Shaping Lives
Empowering Communities...

Classroom Learning
(Learning by Listening and Observations)

Name of the Topic: Boarded Ape Collection

Learning Outcome:

Concepts learned (Mention 2/3 principles):

Based on the classwork, the principal concepts I have learned include:

1. The fundamental concept of a "Profile Picture" (PFP) NFT collection as a social and cultural status symbol built on blockchain technology.

2. The complete architecture of how the Bored Ape Yacht Club (BAYC) smart contract operates, minting 10,000 unique, algorithmically generated NFTs with verifiable ownership.

3. The characteristics of an NFT project that provides utility beyond art, including exclusive access, commercial rights, and a community governance model.

* New techniques learned:

Additionally, I have acquired new knowledge in the following areas:

1. Techniques for verifying the authenticity of an NFT by checking its contract address on a blockchain explorer like Etherscan to ensure it is from the official, verified smart contract.

2. Procedures for understanding the token-gating mechanism, where ownership of a specific NFT (like a Bored Ape) acts as a key to access exclusive online and real-world experiences.

3. The process of how IPFS (InterPlanetary File System) is used to store the immutable artwork and trait metadata for each token, separate from the on-chain token itself.

4. Methods for evaluating the rarity of an NFT based on its combination of traits and its subsequent impact on market value.

* Related Project/Practice work experienced and learned:

During the practice sessions of the lab work, I engaged in and developed proficiency with programs and simulations in the following areas:

1. Analyzing the official BAYC smart contract on Etherscan to understand functions like mint, transfer, and tokenOfOwnerByIndex.
2. Writing a simple Web3.js script to connect to the Ethereum blockchain and query all NFTs held by a specific wallet address.
3. Simulating a trait-based rarity scoring system by parsing the IPFS-hosted metadata for a set of tokens.
4. Creating a basic mock-up of a token-gated website that checks for BAYC ownership before granting access.

* New Software/Machine/Tool/Equipment/Experiment learned:

During the lab session, I used **Etherscan** to analyze the BAYC smart contract, **MetaMask** to simulate wallet interactions, **Pinata** for IPFS storage simulations, and **Alchemy** or **Infura** as blockchain node providers to query on-chain data efficiently.

* Application of concept(s) (preferably real life scenario):

1. **Digital Identity and Community:** Ownership of a Bored Ape NFT serves as a digital identity, granting membership to an exclusive online community (the "Yacht Club") and signaling status.

2. **Intellectual Property and Licensing:** The commercial rights granted to owners allow them to create and sell derivative products based on their specific Ape, demonstrating a new model for IP licensing.

3. **Phygital Experiences:** The blockchain-based proof of ownership is used to grant access to real-world (physical) events, such as the ApeFest party, merging digital assets with tangible benefits.

* Case Studies/Examples:

1. **Brand Partnerships:** Adidas partnered with BAYC, incorporating their NFTs into its "Into the Metaverse" campaign, showing how traditional brands leverage established NFT communities for marketing.

2. **Media Expansion:** The owners of BAYC, Yuga Labs, used the project's success and treasury to fund and launch new projects like ApeCoin ($APE) and the Otherside metaverse, creating an entire ecosystem.

3. **Commercial Utilization:** Famous owners like Jimmy Fallon and Snoop Dogg use their Bored Apes as their verified social media profile pictures, showcasing its role as a verifiable digital status symbol.

Assessment:

Marks Obtained: .... / 10

Signature of the Student:

Name : PN Archana

Regn. No. : 240720100147

Signature of the Faculty:

** As applicable according to the topic.
One sheet per topic (10-20) to be used.*