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META NFT

V2B: Creating NFT Opportunities on Metaverse for Art VET Trainees

UNIT 3: How to Create NFT on the Metaverse

Trainer guidelines

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ACTIVITY 1: NFTs Unveiled

Abstract

In this activity, trainees will put to practice the content learned on [“3.1 Introduction to Creating NFTs on the Metaverse: Opportunities and Challenges”](#) This interactive workshop, "NFTs Unveiled," offers participants a comprehensive introduction to creating Non-Fungible Tokens (NFTs) within the Metaverse. Participants will delve into the opportunities and challenges associated with NFT creation and explore the impact of these digital assets on the evolving landscape of the Metaverse.

Keywords

NFTs, Metaverse, Digital Assets, Blockchain, Opportunities and Challenges

Duration

60 minutes

Learning Objectives

- Understand the concept of NFTs and their role in the Metaverse.
- Explore the opportunities presented by NFT creation, including artistic expression, tokenization of assets, and new economic models.
- Identify challenges related to NFTs, such as environmental concerns, copyright issues, and market saturation.
- Gain insights into the broader implications of NFTs on the Metaverse ecosystem.

Necessary Equipment and Materials

- Internet-connected devices (computer, tablet, or smartphone)
- Presentation slides
- Examples of NFTs and their creators
- Access to an NFT marketplace for demonstration purposes

Task



The task involves conducting an interactive workshop titled "NFTs Unveiled," designed to provide participants with a comprehensive introduction to the creation of Non-Fungible Tokens (NFTs) within the Metaverse. Throughout the workshop, participants will explore the opportunities and challenges associated with NFT creation, gaining insights into the unique characteristics and potential impact of these digital assets on the dynamic landscape of the Metaverse. The workshop aims to be hands-on, allowing participants to engage in practical aspects of NFT creation while fostering a deeper understanding of their role in shaping the future of digital spaces.

- Introduction to NFTs and the Metaverse
 - Provide a brief overview of NFTs, their underlying blockchain technology, and their integration into the Metaverse.
 - Highlight real-world examples of successful NFT projects and their impact.
- Opportunities in NFT Creation
 - Discuss the various opportunities NFTs present, including:
 - Artistic expression and empowerment of digital creators.
 - Tokenization of real-world assets.
 - New economic models for creators and consumers.
- Challenges in NFT Ecosystem
 - Explore challenges associated with NFTs, covering:
 - Environmental concerns related to energy consumption.
 - Copyright and intellectual property issues.
 - Market saturation and the potential for scams.
- Demo and Hands-On Session
 - Provide a live demonstration of creating a simple NFT.
 - Guide participants through the process of minting an NFT on a popular blockchain platform.
- Q&A and Open Discussion
 - Open the floor for questions from participants.
 - Encourage a discussion on the presented opportunities and challenges.
 - Create a concept map using digital tools to facilitate the sharing of experiences and insights.

Solution:



Participants will explore sustainable and environmentally friendly blockchain platforms for creating NFTs, knowing responsible NFT practices, including proper attribution and respect for intellectual property rights, will be directed towards community-driven initiatives that address challenges in the NFT space. By combining theory, practical demonstrations, and open discussions, this workshop aims to provide a well-rounded understanding of NFTs in the Metaverse, empowering participants to navigate the opportunities and challenges within this dynamic digital landscape.



ACTIVITY 2: THE REVOLUTION OF WEB3.0 WORKSHOP

Abstract

In this activity, trainees will put to practice the content learned on [“3.2 The Revolution of Web3.0”](#) “The Revolution of Web3.0” workshop explores the transformative shift from a centralized internet to the decentralized, community-powered paradigm of Web3.0, driven by blockchain technology. Participants will delve into fundamental concepts, practical applications, and the associated opportunities and challenges, gaining insights into the Web3.0 ecosystem.

Keywords

Web3.0, Blockchain, Decentralization, dApps, Smart Contracts, DeFi, NFTs, Metaverse, Web3 Games, Privacy, Digital Identity.

Duration

60 minutes

Learning Objectives

- Define Web3.0 and its Core Technologies.
- Identify Current Operations and Use Cases of Web3.0.
- Estimate the Openings and Challenges Associated with the Adoption of Web3.0.
- Develop an Understanding of the Web3.0 Ecosystem and its Crucial Players.

Necessary Equipment and Materials

- Internet – connected devices (computer, tablet, smartphone)
- Access to virtual platforms for interactive experiences.
- Online Resources: links to video/ multimedia.
- Presentation Slides
- Feedback Forms for learners to share feedback on the module



Task

During the "Revolution of Web3.0" workshop, participants and trainers engage in a dynamic learning experience through a variety of instructional strategies. Participants actively contribute to interactive discussions, sharing insights and perspectives on the fundamental concepts of Web3.0. These discussions are complemented by hands-on activities, where participants gain practical experience in navigating decentralized applications, exploring blockchain transactions, and understanding smart contract interactions. Trainers play a pivotal role in facilitating these activities, guiding participants through the intricacies of Web3.0 technologies.

Interactive Discussions:

Encourage active participation in discussions on Web3.0 concepts.

Facilitate group tasks to explore practical applications and challenges.

Engage participants in brainstorming sessions to stimulate critical thinking.

Promote active thinking through reflective discussions on each chapter.

Indicative Topic for Discussion 1: Definition and Core Technologies:

Discuss the three fundamentals of Web3.0: decentralization, trustless and permissionless interaction, and reliance on smart tech, AI, and machine learning.

Explore how Web3.0 differs from its predecessors (Web 1.0 and Web 2.0) in terms of architecture and philosophy.

Indicative Topic for Discussion 2: Metaverse and Web3:

Debate the advantages and disadvantages of centralized vs. decentralized Metaverse projects.

Discuss how Web3 technologies like IoT and AI enhance the user experience within the Metaverse.

Indicative Topic for Discussion 3: Opportunities and Challenges:

Engage in a debate on the opportunities presented by Web3.0, such as decentralization, data ownership, and tokenization.

Brainstorm strategies to address key challenges like scalability, regulatory uncertainty, and user experience.

General Discussion Topics

Indicative Topic for Discussion 4: Future of Web3.0:

Share predictions on how Web3.0 might further evolve and impact various industries in the coming years.

Discuss potential challenges and opportunities that may arise in the future Web3 landscape.



Indicative Topic for Discussion 5: Ethical Considerations:

Reflect on the ethical implications of decentralized systems and the potential dilemmas they may introduce.

Discuss how the Web3.0 community can address legal and ethical challenges.

Indicative Topic for Discussion 6: Education and Awareness:

Brainstorm initiatives to educate a broader audience about Web3.0 concepts and technologies.

Discuss the role of informative content, tutorials, and workshops in promoting Web3.0 accessibility.

Hands-On Activities:

Facilitate practical tasks to reinforce theoretical concepts.

Guide participants in exploring Web3.0 tools, such as decentralized applications.

Conduct hands-on exercises to simulate blockchain transactions and smart contract interactions.

Activity 1: Setting Up a Web3.0 Environment

Objective: Familiarize participants with the tools and environment of Web3.0.

Task: Guide participants to set up a Web3.0 development environment on their computers. Provide instructions on installing a Web3 library (e.g., Web3.js) and connecting to a local or testnet Ethereum node.

Discussion:

Discuss the importance of having a local development environment for building and testing decentralized applications (dApps).

Share experiences and challenges faced during the setup process.

Activity 2: Exploring a Decentralized Application (dApp)

Objective: Allow participants to interact with a real decentralized application.

Task: Introduce participants to a simple decentralized application (e.g., a basic voting or token transfer dApp). Guide them through the process of interacting with the dApp using a Web3.0-enabled browser or a browser extension like MetaMask.

Discussion: Discuss the user experience of interacting with a dApp compared to traditional applications.

Explore potential use cases for the demonstrated dApp in various industries.

Feedback Sessions:

Encourage participants to share insights and ask questions during the workshop (Annex I)

Provide constructive feedback on hands-on activities and interactive discussions.

Participants are asked to rate their understanding of Web3.0 concepts, share key insights, and express any areas of confusion. The hands-on activities are evaluated for their effectiveness, with participants encouraged to identify the most valuable activity and provide suggestions for



improvement. The engagement level of interactive discussions is assessed, and participants are prompted to highlight interesting topics and comment on their comfort level in participating. The overall effectiveness of the workshop is measured, and participants are given the opportunity to suggest improvements and propose future topics

Solution

The workshop provides a holistic understanding of Web3.0, incorporating theoretical knowledge and practical applications. Participants actively engage in discussions, hands-on activities, and feedback sessions. Trainers facilitate guest speaker sessions to enhance the learning experience. By the end, participants emerge well-equipped to define Web3.0, identify its applications, assess opportunities and challenges, and comprehend the Web3.0 ecosystem's dynamics. The workshop aims to empower participants to navigate the evolving landscape of decentralized technologies confidently.



ACTIVITY 3: NFT WEARABLES DESIGN CHALLENGE

Abstract

In this activity, trainees will put to practice the content learned on “[3.4 Designing and Creating NFT Wearables with VoxEdit](#)”. This activity challenges students to apply their creativity and the skills learned from using VoxEdit to design unique NFT wearables. Students will conceptualize, create, and present an NFT wearable, such as hats, glasses, or shirts, showcasing their understanding of voxel art and NFT creation.

Keywords

Design, Creativity, NFT, Wearables, VoxEdit, Presentation

Duration

90 minutes

Learning Objectives

- Apply VoxEdit skills to design unique NFT wearables.
- Enhance creativity in digital art and understand the principles of NFT creation.
- Develop presentation skills by showcasing and discussing their designs.

Necessary Equipment and Materials

- PCs or laptops with VoxEdit software installed and tested for functionality.
- Internet access for supplemental resources and design inspiration.
- Digital projector or large screen for showcasing student presentations.
- Worksheets or digital forms for note-taking and feedback during presentations.



Task

1. Design Phase (60 minutes):

- Start with a 10-minute introduction to the task, emphasizing creativity, functionality, and the potential market value of NFT wearables in The Sandbox metaverse.

Provide examples of successful NFT wearables to inspire and illustrate the diversity of possibilities.

- Students spend 50 minutes in VoxEdit, crafting their wearables. They can opt for accessories like hats, glasses, or more complex items like shirts or shoes. Encourage exploration of VoxEdit's modeling and texturing tools to bring their vision to life.

2. Presentation Preparation (15 minutes):

- Students prepare a short slide deck (2-3 slides) summarizing their design concept, the choice of wearable, and any unique features or challenges they encountered. Include visuals of the wearable from different angles.
- Briefly rehearse their presentation, focusing on clear communication of their design process and the wearable's potential use in the metaverse.

3. Presentation and Feedback Session (15 minutes):

- Each student or group has 3-5 minutes to present their wearable design to the class. Use the projector or screen to display their slide deck and VoxEdit model.
- After each presentation, allocate 2-3 minutes for questions and constructive feedback from peers and the trainer. Focus on design innovation, technical execution, and presentation skills.

Solution

Upon completing the presentations, engage the class in a reflective discussion on the learning experience. Highlight the diversity of creative approaches and the importance of presentation and feedback in the design process. Acknowledge standout designs for their creativity, technical skill, or presentation clarity. Conclude by reinforcing the importance of digital creativity and market understanding in the burgeoning field of NFTs and the metaverse.



Additional Notes for Trainers:

- Ensure VoxEdit is installed and functioning on all devices prior to the activity.
- Prepare a backup plan for technical difficulties, such as having additional devices ready or screenshots of the wearable design process.
- Consider creating a shared online gallery where students can upload their designs for ongoing inspiration and community building.



ACTIVITY 4: WORKSHOP FOR MINTING AND LISTING YOUR NFTs THE PATH TO MONETIZING YOUR ART

Abstract

In this activity, trainees will put to practice the content learned on “[3.6 Minting and Listing Your NFTs: The Path to Monetizing Your Art](#).” This workshop is designed for young artists and individuals curious about creating and selling NFTs. Participants will explore the world of Non-Fungible Tokens (NFTs), gaining insights into minting and listing processes, understanding NFT platforms, and learning effective marketing strategies. The goal is to empower learners to confidently navigate the digital art realm and monetize their creative endeavors through NFTs.

Keywords

NFTs, Digital Art, Minting, Listing, Blockchain, Marketing Strategies, Creative Monetization.

Duration

60 minutes

Learning Objectives

- Explain the fundamental concept of NFTs in art.
- Assess the pros and cons of creating and selling NFTs in the art realm.
- Navigate the process of creating NFTs, including choosing the blockchain platform.
- Explore and evaluate different platforms for listing NFTs.
- Develop effective marketing strategies for promoting and selling NFTs.

Necessary Equipment and Materials

- Internet – connected devices (computer, tablet, smartphone)
- Access to virtual platforms for interactive experiences.
- Online Resources: links to video/ multimedia.
- Presentation Slides
- Feedback Forms for learners to share feedback on the module



Task

During the workshop on "Minting and Listing Your NFTs: The Path to Monetizing Your Art," participants will engage in a variety of tasks aimed at providing them with a comprehensive understanding of Non-Fungible Tokens (NFTs) and the process of creating and selling them. The tasks are designed to be interactive, hands-on, and collaborative, fostering active participation and practical skill development.

Interactive Discussions:

Encourage active participation in discussions on the fundamental concepts of NFTs, their applications in the art world, and associated advantages and challenges.

Facilitate brainstorming sessions on potential ideas for NFT creation and effective marketing strategies.

Engage participants in active thinking about the impact of NFTs on the art market and the importance of responsible usage.

Indicative Topic for Discussion 1: Fundamental Concepts of NFTs: Understanding Uniqueness:

Discuss the concept of uniqueness in NFTs. How does the non-fungible nature of tokens enhance their value in the digital art space?

Indicative Topic for Discussion 2: Blockchain and Ownership: Explore the role of blockchain in confirming ownership. How does blockchain technology contribute to transparency and authenticity in the NFT ecosystem?

Discuss the role of blockchain in confirming ownership. How does blockchain technology contribute to transparency and authenticity in the NFT ecosystem?

Indicative Topic for Discussion 3: NFT Metadata: Dive into the significance of metadata in NFTs. How can detailed metadata enhance the value of digital assets and provide additional context for collectors?

Discuss the significance of metadata in NFTs. How can detailed metadata enhance the value of digital assets and provide additional context for collectors?

Indicative Topic for Discussion 4: NFT Creation and Minting: Blockchain Choices: Facilitate a discussion on the factors influencing the choice of blockchain for minting NFTs. Discuss the pros and cons of popular platforms like Ethereum, Binance Smart Chain, Flow, and Tezos.

Discuss the factors influencing the choice of blockchain for minting NFTs. Discuss the pros and cons of popular platforms like Ethereum, Binance Smart Chain, Flow, and Tezos.

Indicative Topic for Discussion 5: Environmental Concerns: Discuss the environmental impact of minting NFTs, particularly on platforms like Ethereum. How can artists balance their creative endeavors with responsible environmental considerations?

Discuss the environmental impact of minting NFTs, particularly on platforms like Ethereum. How can artists balance their creative endeavors with responsible environmental considerations?



Indicative Topic for Discussion 6: NFT Listing Platforms and Strategies: Choosing the Right Platform: Engage participants in a discussion on the factors to consider when selecting an NFT marketplace. What features, fees, and community dynamics are crucial for a successful listing?

Indicative Topic for Discussion 7: Marketing and Promotion of NFTs: Social Media Engagement: Encourage participants to share their experiences with social media promotion. What platforms have been most effective for them, and how do they engage with their audience?

Indicative Topic for Discussion 8: Collaborations and Cross-Promotion: Facilitate a discussion on the power of collaborations in the NFT space. How can artists benefit from partnering with other creators, influencers, or collectors?

Indicative Topic for Discussion 9: Virtual Exhibitions and Email Marketing: Explore alternative avenues for promoting NFTs, such as virtual exhibitions and email marketing. How can these strategies contribute to increased visibility and sales?

Indicative Topic for Discussion 10: Impact and Responsible Usage: Environmental and Ethical Considerations: Discuss the ethical responsibilities of NFT creators. How can artists balance their desire for success with ethical considerations, especially concerning environmental impact and copyright issues?

Hands-On Activities:

Guide participants through the step-by-step process of minting an NFT, using sample digital content. Provide practical insights into choosing the appropriate blockchain platform and creating metadata. Facilitate discussions and activities related to the important factors to consider before minting an NFT.

Indicative Hands -On Activity Topic Blockchain Platform Exploration: Participants explore different blockchain platforms (e.g., Ethereum, Binance Smart Chain, Flow) and consider factors like fees, environmental impact, and community.

Discussion: Discuss the advantages and disadvantages of each platform and share insights about their preferences.

Indicative Hands -on Activity Topic Metadata Creation: Participants craft detailed metadata for their NFT, including title, description, creator info, and a link to the digital file.



Discussion: Share examples of effective metadata and discuss how it can enhance the value and context of an NFT.

Indicative Hands -on Activity Topic Minting Process on a Platform: Participants choose an NFT marketplace/platform (e.g., OpenSea, Rarible) and follow the steps to mint their NFT, including uploading the digital file and setting royalties.

Discussion: Share experiences with the minting process and discuss any challenges encountered.

Feedback Sessions:

Provide constructive feedback on participants' ideas for NFT creation and marketing strategies
(Annex II)

Encourage participants to share their thoughts and experiences, fostering a collaborative learning environment.

Solution

To ensure a successful workshop, trainers should employ a variety of instructional strategies, including interactive discussions, hands-on activities, guest speakers, and feedback sessions. By combining theoretical knowledge with practical tasks and real-world insights, participants will gain a comprehensive understanding of minting and listing NFTs. Trainers should adapt the pace of the workshop based on participant engagement and encourage open communication to address any questions or concerns. Additionally, promoting collaboration and networking within the NFT community will enhance the overall learning experience, empowering participants to embark on their NFT monetization journey with confidence.



ANNEXES

Annex 1: Feedback Form for Activity 2

Section 1: Theoretical Concepts

On a scale of 1-5, how well do you understand the fundamental concepts of Web3.0 after the workshop?

1 (Poor)	2	3	4	5 (Excellent)

Please share one key insight or concept that you found particularly valuable during the theoretical sessions.

[Open Text.....]

Do you have any questions or areas of confusion regarding the theoretical concepts covered?

[Open Text for Participant Questions/Comments.....]

Section 2: Hands-On Activities

How would you rate the hands-on activities in terms of their effectiveness in reinforcing theoretical concepts?

1 (Not Effective)	2	3	4	5 (Highly Effective)

Which specific hands-on activity did you find most valuable, and why?

[Open Text for Participant Response.....]

Do you have any suggestions for improving the hands-on activities or any challenges you faced during them?

[Open Text Box for Participant Suggestions/Comments.....]



Section 3: Interactive Discussions

On a scale of 1-5, how engaging were the interactive discussions throughout the workshop?

1 (Not Engaging)	2	3	4	5 Highly Engaging

Share one topic from the interactive discussions that you found particularly interesting or thought-provoking.

[Open Text for Participant Response.....]

Did you feel comfortable asking questions or sharing your insights during the interactive discussions? If not, what can be done to improve this?

[OpenText for Participant Response.....]

Section 4: Overall Workshop Feedback

On a scale of 1-5, how would you rate the overall effectiveness of the workshop in enhancing your understanding of Web3.0 concepts?

1 (Not Effective)	2	3	4	5 (Highly Effective)

What suggestions do you have for improving future workshops or topics you would like to see covered?

[Open Text for Participant Suggestions/Comments.....]

Any additional comments or feedback you would like to provide?

[Open Text for Participant Comments.....]



Annex II for activity 4

Understanding of NFT Basics:

Rate your understanding of what NFTs are and how they are unique in the digital art space (Scale of 1-5).

1 (Poor)	2	3	4	5 (Excellent)

Blockchain Knowledge:

How well do you understand the role of blockchain in NFTs? (Scale of 1-5)

1 (Poor)	2	3	4	5 (Excellent)

Briefly explain how blockchain technology ensures authenticity of NFTs.

(Open Text for Participant.....)

NFT Minting Process:

Describe the factors to consider when choosing a blockchain for minting NFTs.

(Open Text for Participant.....)

What are the environmental impacts of NFT minting, and how can they be mitigated?

(Open Text for Participant.....)



Marketing and Selling NFTs:

Discuss the strategies for effectively marketing NFTs.

Explain the difference between auction-style and fixed-price listings and their impacts.

Ethical and Environmental Considerations:

What are the ethical responsibilities of an NFT creator?

(Open Text for Participant.....)

How can NFT artists balance creativity and environmental concerns?

(Open Text for Participant.....)

Practical Application:

Describe the process you would follow to mint and list an NFT based on what you learned.

Overall Learning Experience:

Provide feedback on the workshop's content and structure (Open-ended response).

(Open Text for Participant.....)