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|  | **Dr. Ambedkar Institute of Technology** |
| Department of Computer Science & Engineering |

**Mini Project Information**

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| Mini Project Batch-Id: | B20 |
| Title of the Mini Project: | Decentralized NFT Minting and Marketplace Platform |

**Details of Project Members**

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**Abstract**

This project, "NFT Minting and Marketplace Platform," aims to create a user-friendly platform for minting and trading Non-Fungible Tokens (NFTs), similar to OpenSea. Utilizing the Ethereum blockchain, the platform will support the creation of ERC-721 compliant NFTs and provide a marketplace for their exchange.

The backend, built with Node.js and Express, will handle blockchain interactions, while the frontend, developed with React.js, will offer a seamless user experience. IPFS will be used for decentralized storage of NFT metadata.

Key features include user authentication via MetaMask, secure NFT minting, detailed listings, and a marketplace for buying and selling NFTs. This project aims to enhance the digital ownership landscape by providing a secure and transparent environment for NFT creators and collectors.

**Details of Guide**

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| **Name of the Guide** | **Designation** | **Signature of the Guide** |
| Dr.SMITHA SHEKAR B | ASSOCIATE PROFESSOR |  |