

# Dr. Ambedkar Institute of Technology

Department of Computer Science & Engineering

## Mini Project (21CSM607) Status

<b>Mini project Id</b>	<b>B20</b>
<b>Title of the Project</b>	Decentralized NFT Minting and Marketplace Platform

<b>USN</b>	<b>NAME</b>
1DA22CS409	HAJARATALI S MOGALLI
1DA21CS073	KARTHIK V DESA

<b>Status of the Project (Brief about work Completed)</b>	<b>Name and Signature of Guide</b>
<p>The development of the online NFT marketplace using MongoDB, Express, Node.js, and React has reached a significant milestone with the successful completion of the backend phase. Here are the details:</p> <p><b>Backend Development:</b></p> <ul style="list-style-type: none"><li>• <b>Server Setup:</b> The backend server has been set up using Express.js, providing a robust framework for building the application's API.</li><li>• <b>Database Integration:</b> MongoDB has been integrated as the primary database, offering a flexible and scalable solution for storing user data and NFT information.</li><li>• <b>Core Functionalities:</b><ul style="list-style-type: none"><li>○ <b>User Authentication:</b> Implemented secure user authentication mechanisms, including registration, login, and token-based authentication to ensure user data protection.</li></ul></li></ul>	<p>Dr. SMITHA SHEKAR B</p>

- **NFT Creation:** Developed endpoints for users to create and mint NFTs, allowing them to upload digital assets and metadata.
- **Security Measures:** Applied various security measures such as input validation, error handling, and secure storage of sensitive information using environment variables.
- **Performance Optimization:** Optimized database queries and server responses to ensure efficient handling of user requests and smooth operation of the marketplace.

**Current Focus:**

- **Frontend Development:** The focus has now shifted to the frontend, where the React application is being finalized. This involves creating a user-friendly interface for browsing, buying, and selling NFTs.
- **Integration:** Ensuring seamless integration between the frontend and backend to provide a smooth user experience. This includes connecting API endpoints with frontend components, handling user sessions, and displaying real-time data.
- **Testing and Deployment:** Conducting thorough testing to identify and fix any issues, followed by deploying the application to a production environment for public use.