

← Blockchain Hackathon - Neo Blockchain

1. Creator Funding Portal

a. Requirements

- You will need Metamask installed in your browser from the official site <https://metamask.io>.
- You must have a recent version of Node.js installed. We recommend using v16 LTS for compatibility.
- **Application Requirements**
 - Create a donation application where users can donate cryptocurrency to their favourite content creators(test cryptocurrency is fine) .
 - Create separate login and dashboard pages for content creators to update their information like photo, email id, website link and social media ids.
 - Users of content creators should have the ability to login to the portal and browse among existing content creators according to their choice.
 - Users should be able to send cryptocurrency(Neo/Ether/BTC,etc.) to the content creator after choosing one from existing content creators.
 - User Analytics and Creator Analytics should be included in a separate page. Logged in User can see only his personal analytics(ie. How much he has donated to which creator)
 - Creator Analytics should only be visible to creators which will include details regarding donation received from individual users
 - If an entity is both a creator and a user, then he shall be able to see both creator analytics and user analytics.

b. What to Submit

- Use any blockchain of your choice to store all cryptocurrency transaction details. Data excluding the transaction details can be stored on any centralized database of your choice.
- Integrate metamask for wallet transactions.
- Create the complete working User Interface for the website integration.
- You can use Hardhat/Truffle for getting test cryptocurrencies.
- Provide a URL to your working prototype.
- Provide a URL to your GitHub code repository. Repository must be public
- Include a video (3-5 minutes) that demonstrates your project in action (hosted on YouTube, LinkedIn, or Facebook Video and made public). Video must include an explanation.

2. Decentralized Finance Lending Application

a. Requirements

- You will need Metamask installed in your browser from the official site <https://metamask.io>.
- You must have a recent version of Node.js installed. We recommend using v16 LTS for compatibility.
- **Application Requirements**
 - Create an application to lend and borrow cryptocurrencies(Neo/Ether/BTC,etc.)
 - The three important entities in this application are the Lender,Borrower and DeFi lending platform.
 - The lender can deposit money in the platform(which will be some smart contracts) similar to how people deposit money in their banks.

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- The borrower first deposits crypto collateral
- He receives a specified amount of loan after successful deposit of collateral
- He makes periodic payments to the platform ,which in turn pay the amount to the lender similar to how banks work.
- After successful payment of the loan , the borrower gets back his collateral and the lender receives his investment amount with a certain interest.

a. What to Submit

- Use any blockchain of your choice to store all cryptocurrency transaction details. Data excluding the transaction details can be stored on any centralized database of your choice.
- Integrate metamask for wallet transactions.
- Create the complete working User Interface for the website integration.
- You can use Hardhat/Truffle for getting test cryptocurrencies.
- Provide a URL to your working prototype.
- Provide a URL to your GitHub code repository. Repository must be public
- Include a video (3-5 minutes) that demonstrates your project in action (hosted on YouTube, LinkedIn, or Facebook Video and made public). Video must include an explanation.

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3. Decentralized E-commerce website

a. Requirements

- You will need Metamask installed in your browser from the official site <https://metamask.io>.
- You must have a recent version of Node.js installed. We recommend using v16 LTS for compatibility.

• Application Requirements

- Create a decentralized E-commerce website where people can make payments for products in cryptocurrencies(Neo/Ether/BTC,etc.).
- The following design is suggested for the application-
 - Design a home page which contains the details of the products. Users should have an option to search for products according to product name/product category /etc.
 - Every product should have details like product image,price,description, number of items available.
 - Create an admin page which can add new products to the website with their complete details. Whenever a new product is added to the website, its metadata should be stored on the blockchain.
 - Create a user login page which enables any user to login to the website and buy products in cryptocurrency. All user transactions should be stored in the blockchain.
 - The money will be temporarily stored in the wallet address of the E-commerce website smart contract whenever a sale is made, which will then be sent to the wallet address of the product seller from E-commerce website smart contract wallet

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a. What to Submit

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- Integrate metamask for wallet transactions.
- Create the complete working User Interface for the website.
- You can use Hardhat/Truffle for getting test cryptocurrencies.
- Provide a URL to your working prototype.
- Provide a URL to your GitHub code repository. Repository must be public
- Include a video (3-5 minutes) that demonstrates your project in action (hosted on YouTube, LinkedIn, or Facebook Video and made public). Video must include an explanation.