# **Blueprint, Non Fungible Story**

The Non Fungible Story is a website, which we want you to generate. The purpose of the site to give utility to our NFT’s minted on our main site [www.nonfungiblibelibrary.org](http://www.nonfungiblibelibrary.org). We want to make a separate website to simplify our operations and since our developer on the main site cannot is unavailable for the task to create the Non Fungible Story according to our wishes. We are looking for a full stack developer to fulfill this task.

**Functionality/backend**

The purpose of the new website should be to give our NFT’s utility. Our NFT’s are minted on the Ethereum Blockchain. Our NFT’s are book pages with randomly generated text on it. There is 1.617 characters on each page, as well a page number on the bottom, which is also its designation or name of the page. The variables in the randomly generated text consisting of 1.617 characters are the 26 letters in the English Alphabet as well as space, comma and period, meaning 29 variables.

Our algorithm has highlighted the words in English highlighted in bold. The algorithm has high highlighted words consisting of 4 words and above, which is an arbitrary number, we have decided upon. The individual highlighted words are each appearing as properties in its metadata, as well as the number of highlighted words. The page number is the designation/name for the page/NFT. The supply for the first edition of the Non Fungible Library is 2.998 pages and 2 book covers, 1 for the front and 1 for the back

Please note the pages on the main site, Non Fungible Library, has not yet been minted. The supply of the Non Fungible Library will be 2.998 pages and 2 book covers in the first edition, we will *maybe* make a second edition of 2.998 pages and 2 book covers to succeed the first edition, if supply allows for it. The Non Fungible Story-website is intended purely a DLC to the main site, if we succeed to sellout all of our pages and therefore needs shift our focus to giving NFT’s utility. The basis of this project is therefore a bit unsettled.

The purpose of the Non Fungible Story is to use the words highlighted in bold to make a story in English based upon them. We imagine that the individual user can insert the wallet that contains the individual pages, and then through an algorithm/AI, you will generate, then be able to generate a story. This does present a lot of linguistic issues though, since our pages only contains English words above 4 letters.

**Generating the story**

Therefore, we have to supplement the words with “smaller and bigger” words so you would have a meaningful story. When I have said “smaller and bigger” I mean the whole vocabulary of the English Alphabet, all English words. For cohesion and relevance, we would therefore like the algorithm on the Non Fungible Story to highlight the words fetched from the pages, and already highlighted by our algorithm, to highlight the text in bold. This way we can distinguish the users’ text from the text generated by the website’s algorithm/AI. Please note that the website should not generate a story for the book covers, since they have no real text on them and in the metadata.

It is also extremely important for us to define what story means in at all for Non Fungible Story. The average number of words highlighted by the algorithm on each page are 5-7 words consisting of 4 letters and above. We estimate that the average customer has bought around 5 pages. The maximum you can mint per transaction on Non Fungible Library is 10 pages, so 10 pages *should* be the maximum amount each wallets store. This can maximum can in theory be higher, since the same wallet can purchase 10 pages more than once, please note this.

We imagine that the best solution and implementation is that the website fetches all of the highlighted words, which the website can easily fetch in the metadata belonging to each page as described above.

We imagine that the website should be able to generate 1-3 sentences from each page and then pair it with other pages sentences, according to the number of pages stored in the wallet of each user. The 1-3 sentences-calculation is a based upon our wish that the words fetched from the pages are the main part of the sentences, the additional text should be kept to a minimum. The crucial element in this is the website being able to generate meaningful and coherent story across of all pages in the users wallet, which we suppose will be very difficult for the algorithm. Please share your thoughts about the possibility of this.

If this implementation is too difficult then we would have to introduce another layer/page to the website, where the user gets his NFT’s displayed on the site. The user should then be able to choose the page he wants Non Fungible Story to make a story about. Since we would only generate 1 “story” at a time. We do not prefer this implementation, and this is why we will not describe it in detail, since we really want to make it possible to make a coherent story across all of the pages in the users’ wallet.

**Integration with the main website**

As you can see in the link for the main website, the front page is just an interactive bookshelf. We will rename one of the current books to “Non Fungible Story”, which then will open a new tab in the customers browser and redirect the customer to the URL belonging to Non Fungible Story.

**Accounts**

We will make all of the necessary accounts for hosting and the domain provider

**Design/frontend**

The design on the main site is very modular and minimalistic. Please have a look at the following links for reference:

1, <http://3.249.122.161:4001/>

2, [www.nonfungiblibelibrary.org](http://www.nonfungiblibelibrary.org)

(I have attached 2 links, since the build is yet to be published on the domain, and will be uploaded in the future)

Please research the site thoroughly to get a grasp of our design language and vision with the project(s).

As you can see the page has 1 font, being “Courier”, and 2 color themes being brown and cream, with the following HEX’:

Brown: #442D23

Cream: #f7f3eb

The font and the current color scheme should also be applied to Non Fungible Story.

The background and the individual boxes displaying the UI elements is the square, I have attached as “*Attachment 1”.*

The frontend elements are besides the squares and text comprised of pixel art in a pretty high resolution.

As you can see the design is very straightforward and modular.

**Front page**

The front page of the Non Fungible Story will essentially be a big search bar in the middle, we imagine now. We will display you with the graphical elements besides the big “search bar”, which we have not yet decided upon yet. The “search bar” and all of the elements needs to be generated in our design language according to the specifications, which I informed you about above. Please note that all front elements in this blue print will only be detailing the basic principles of the front end, in the future will give you a detailed new paper about the exact implementation that will resemble the design language of our main site: [www.nonfungiblibelibrary.org](http://www.nonfungiblibelibrary.org).

The website should also have a home button, we do not have the exact vision for it yet, but it should redirect you to the main website, [www.nonfungiblibelibrary.org](http://www.nonfungiblibelibrary.org), in order to make them coherent.

Please note that we would like animations to be present in the website. They are all prerendered and static in MOV-, MP4- and GIF-formats.

Entering the wallet in the “search bar” will then display the story of based upon the content of the pages of each user’s wallet. The website should be able to display relevant error messages.

I suppose that the fetching of metadata and generating a story will take some time, therefore a loading page may be needed and relevant.

If we avoid having the third layer I described in the section “Generating the story” then the website should be able to display the content of newly generated story that the algorithm/AI has made.

**Scenario 1**

But how will we display the story exactly, and which functions will it have? We have 2 scenarios in mind, as you can see in the blue print. The first scenario will explore the option where the website purely displays the newly generated story fetched from the pages content. The website should have an option to share the content, we do not know how yet.

The website with scenario 1 should have hyperlinks to:

* Twitter, belonging to the project
* Opensea, belonging to the project
* LooksRare, belonging to the project
* Discord, belonging to the project

We will provide you with the icons for the hyperlinks and the actual links later in the progress.

**Scenario 1, hosting**

We do not suppose that the website should have that much computing power to fulfill its purpose. We would like the website to be able to handle 500 users and execute its tasks at any giving moment. We would prefer the hosting to be on AWS, but we just want the best and most effective option.

**Scenario 1, general overview of your tasks**

* The website should have SSL.
* An algorithm/AI as specified
* Create all front elements for the 2-4 pages described above (Front page, display text page, Loading page, third layer page)
* Upload the website to the relevant hosting platform

**Scenario 1, What will we provide**

* Swift and fast communication
* The domain for the Non Fungible Story
* The necessary accounts for hosting and the domain
* The art needed for frontend elements
* The favicon
* All text for the website

**Scenario 2**

Scenario 2 is technically more difficult since this scenario will make the newly generated stories “mintable” as new NFT’s. This requires a new smart contract, and a new template of the NFT’s that hosts the newly generated stories. The specifications for the required smart contract are listed below. The template will be given later in the process, but will resemble the design elements of the current pages from our main site, Non Fungible Library. We will provide you with all of the design elements, the main purpose of scenario 2 in this blue print is for us to enquire the cost and timeline needed for such additions to the Non Fungible Story.

The website should have hyperlinks to:

* Twitter, belonging to the project
* Opensea, belonging to the project
* LooksRare, belonging to the project
* Discord, belonging to the project
* Etherscan, belonging to the new smart contract, which you will generate

We will provide you with the icons for the hyperlinks and the actual links later in the progress.

There should also be a mint button.

**Scenario 2, smart contract and minting**

In scenario 2, you would also be charged with making the smart contract for the new site. The smart contract should have variable pricing, variable supply and be secure. We have no real preference regarding ERC721 or ERC1155 or other tokens. We just want the most cost-efficient smart contract and minting process. The smart contract should be verified on Etherscan. We require Metamask as the payment option for the minting process, but if you can integrate more wallets that would be great. The mint price is not yet found.

**Scenario 2, Hosting and storage**

We want you to take care of hosting and data storage. We want you to find to the cheapest and most scalable option for the website. Since, it should only be able to function in a small timeframe to accommodate minting, with a lot of traffic and afterwards be taken down, but with all of the now minted PNGs being stored in the most effective solution, whether it is IPFS or a third party. Cost and reliability are the main concerns. We would like the website to be able to handle 500 users at once and execute its tasks at any giving moment. We would prefer the hosting to be on AWS, but we just want the best and most effective option.

**Scenario 2, General overview of your tasks**

* Create smart contract according to the specifications
* Create NFT’s according to our templates and apply properties as metadata
* Upload the content to IPFS- or another cost-effective platform
* Create all elements of the Non Fungible Story as described in this blue print
* Upload the website to the relevant hosting platform
* The website should have SSL.
* An algorithm/AI as specified
* Create all front elements for the 2-4 pages described above (Front page, display text page, Loading page, third layer page)

**Scenario 2, What will we provide?**

* The template and art needed for the NFT’s
* Swift and fast communication
* The domain for the Non Fungible Story
* The necessary accounts for hosting and the domain
* The art needed for frontend elements
* The favicon
* All text for the website

**Collaboration and expectation**

We imagine a timeline consisting of 1 week for this project. Please tell about your thoughts about the cost for this project, we will only pay through Upwork. Please be very specific and create a list of costs for each of the individual tasks and the scenarios in this way, we know what we can scrap if the cost is too expensive, or if we have room in our budget to add more to the Non Fungible Story.

Communication is very important for us regarding this project, we would like you to create a list of tasks and display them on Google Docs, and update them, so we can monitor progress, and add minor frond end tasks, which we like to reserve the possibility to do so. This will also make it possible to get a total overview of all tasks for both parties. We would like you to available every day through process, and we expect fast replies.

We are a team that this is extremely perfectionistic. We would therefore like plenty of samples and the we will probably do a lot of revisions in order to make the website look perfect according to our visions. We expect you to be available in the future for further additions for the website, if we want to expand Non Fungible Story.

We expect you to deliver on deadlines and be very transparent about your work. We would like that the communication should be carried out on Slack.

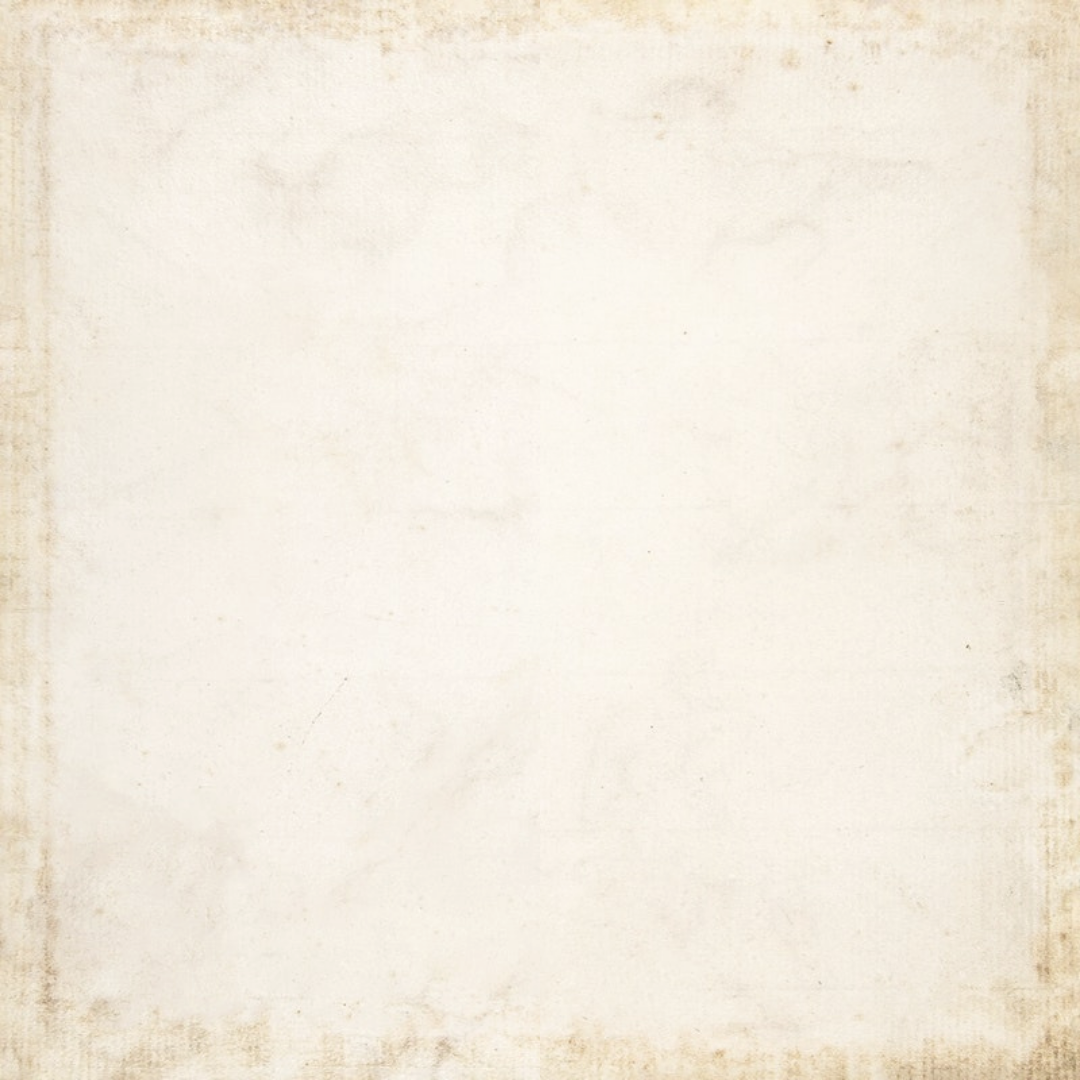
Thank you for taking time to read all of this, it is important for us to emphasize that this is just a blue print, and will not be the final implementation of Non Fungible Story.

Please do not hesitate asking any questions about the project, or adding technical elements that you deem beneficial for the project.

We are still very early in development so we are fairly flexible about the implementation and we are open to ideas. Please get back to us here on Upwork with a serious response about your initial thoughts about the projects and its feasibility. We will not answer you if you do not provide us with any meaningful information or questions for that matter, since we do not have that much for video calls right now.

## **Attachments**

**Attachment 1:**

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