

Solien Gallery: A User's Guide

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Introduction

Welcome to Solien Gallery! We are excited to provide our website's services to our users. Solien Gallery is a web application emerging from COS333, a project-based Computer Science course at Princeton University. We aim to provide a convenient and elegant outlet for owners of Solien NFTs, a particular set of NFTs existing on the Solana Blockchain, to create a gallery of their NFTs. More concretely, our service enables users to customize a gallery image which consists of NFTs in a given crypto wallet on top of a chosen background image in the desired format, to be used as the user's Twitter banner if they so choose. Conveniently, we have designed the dimensions of the downloadable gallery image to be the exact dimensions required for a Twitter banner.

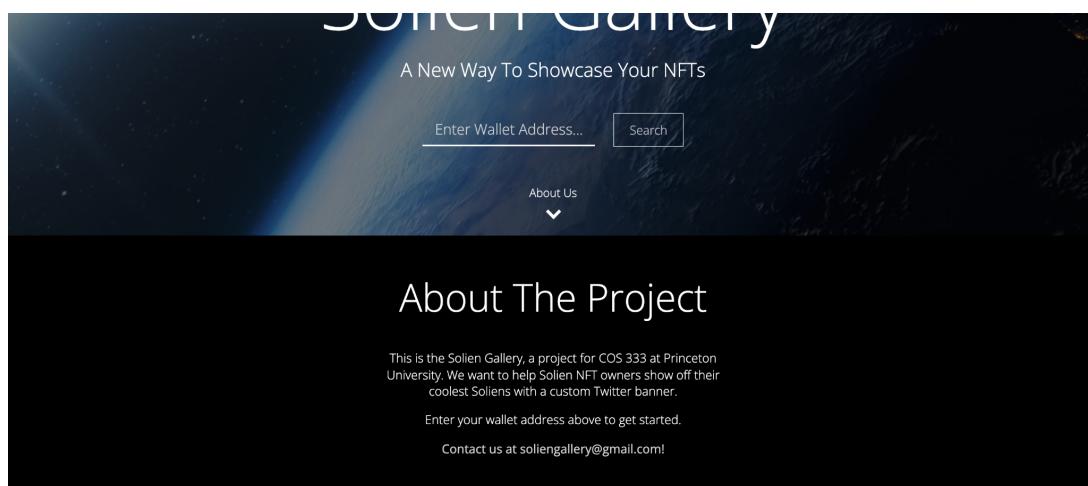
Additionally, we have limited the number of NFTs that can be featured on the gallery to four, to ensure that the image quality of the NFTs is preserved. Our application most principally consists of three distinct pages: (1) a home page allowing users to search for the NFTs contained in a given crypto wallet, (2) a gallery customization page where users are given various customization features to generate an image of a gallery to their liking, and (3) a download page, where the user can download an image of the gallery they've created. We hope you find your experience with Solien Gallery to be worthwhile, and, as always, please feel free to reach out to us at soliengallery@gmail.com with any questions or feedback! Happy gallery creating!

Use Case 1: Accessing the System



In order to access our system, please visit us at <https://sol333.herokuapp.com/>. This will bring you to our homepage, where you will notice that we have adopted a space theme. The origin of this is in the etymology of "Solien": a combination of "alien" and "Solana," since all Soliens NFTs are variations of alien images on the Solana blockchain. On our homepage, please notice the "About The Project" section at the bottom of the page, where you can find a description of our project in addition to our contact information.

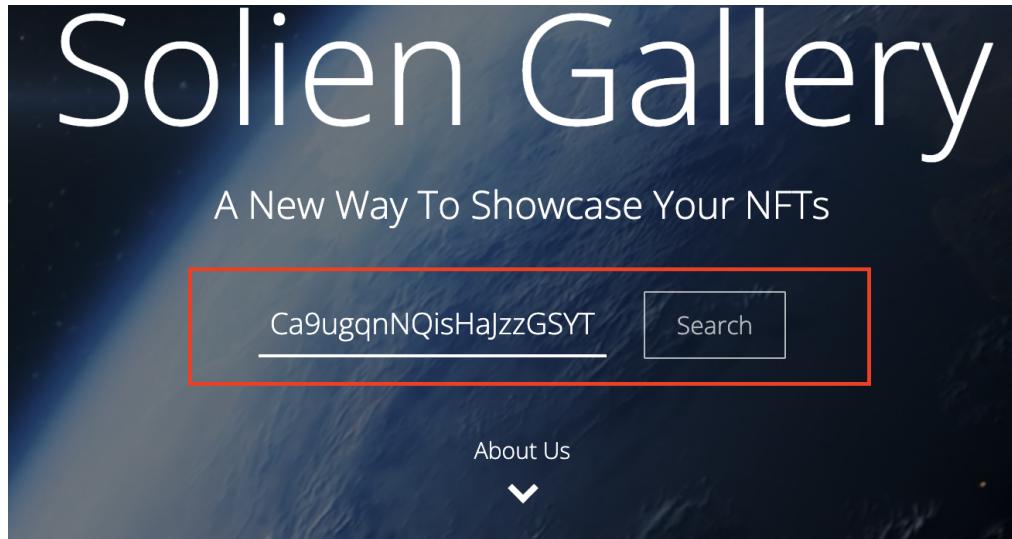
Use Case 2: Contact Us



To contact us, please click on the link with the text "Contact us at soliengallery@gmail.com" at the bottom of our homepage in the "About The Project" section. Doing this will automatically create an email editing window in your system's default email application,

where the recipient email address will be prepopulated with our email address, soliengallery@gmail.com. To send the email, please proceed with editing the email editing window as you like.

Use Case 3: Inputting Wallet Address to Search



The first thing that users are likely interested in doing upon visiting our website is searching for the Solien NFTs contained in their wallet so that they can then be brought to the gallery customization page where they can customize their gallery. In order to search for the NFTs contained in a given Solana wallet¹, please write the wallet address that you are interested in searching in the text input field with the placeholder of value “Enter Wallet Address...”.

We have listed several example addresses below. Once you have input the wallet address you wish to use to perform this search, click on the button labeled “Search.” This will bring you to a loading page followed by the gallery customization page entitled “Gallery Builder.”

Example Wallet Addresses:

- Ca9ugqnNQisHaJzzGSYT6orWtbdYwK4qnKs5D2PhmXYC
- 6KQDNrJoPJRa1UHX7C4Wf5FHgjvnswLMTePyUTySFKeQ
- Dp32k9fx6mDo7FnvGaqaPDHX9fPEQXyYKUevjrypGkF8

¹ Presumably the user is most interested in the Solien NFTs that are contained in their own wallet. However, the nature of blockchain technology is such that you can see all data associated with any given wallet address that you know. For example, visiting Solana Explorer (<https://explorer.solana.com/>) demonstrates this. Therefore, the user need not only enter their own wallet address, but rather any wallet address would work.

All of the following use cases can only be performed after having performed this use case, and this use case along with the following ones can be performed once again if using a different wallet address.

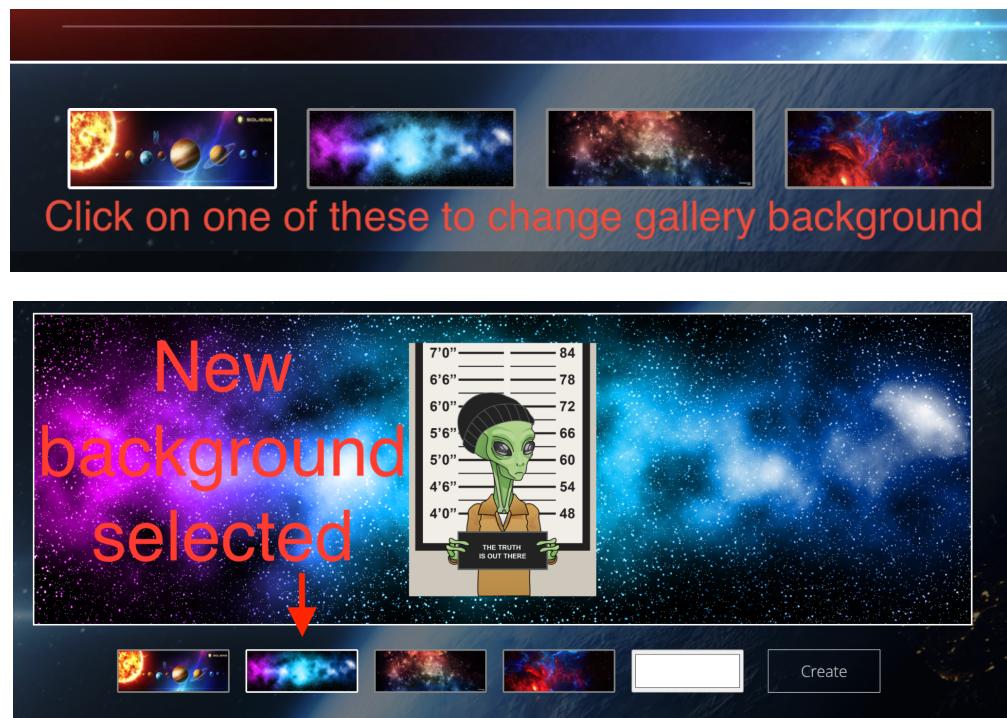
Use Case 4: Adding NFTs to Gallery



This use case can only be performed after having already performed use case 3. Upon having performed use case 3, you will first be brought to a loading page and subsequently to the gallery customization page entitled "Gallery Builder." Upon arriving at this second page, you now will have reached the page where you can customize your gallery, and the NFTs contained in the specified wallet will be displayed in a container at the bottom of the page. This page is where most of the use cases can be performed (4, 5, 6, 7, 8). In order to add any of the resultant NFTs (from use case 3) to your gallery with the default background, click anywhere on the image of an NFT (located at the bottom of the page) that you are interested in adding to the gallery. This step can be repeated until there are four NFTs in the gallery. You will notice that when adding an additional NFT to the gallery, the NFTs that

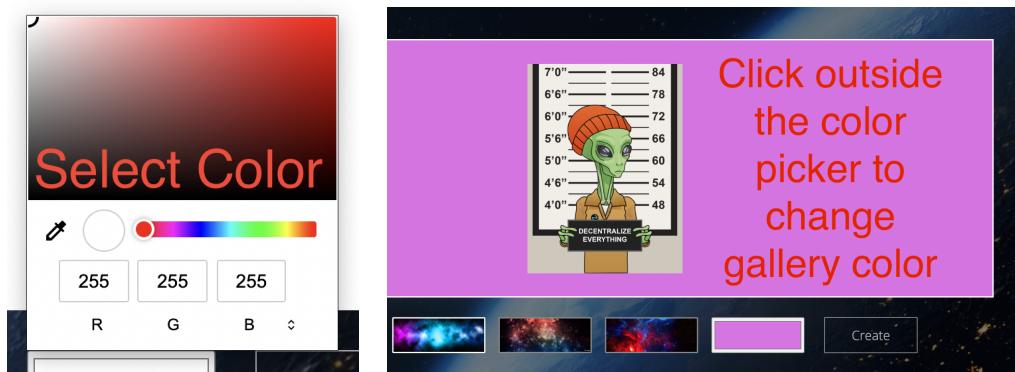
are already in the gallery will shift left to make room for a new entry. Furthermore, by adding an NFT to the gallery, you are removing it from the container at the bottom of the page, meaning that a single NFT cannot be added to the gallery twice. It is required that this use case be performed at least one more time than use case 8 is performed in order to perform use cases 7, 8, and 9.

Use Case 5: Changing Gallery Background to Space-Themed Background



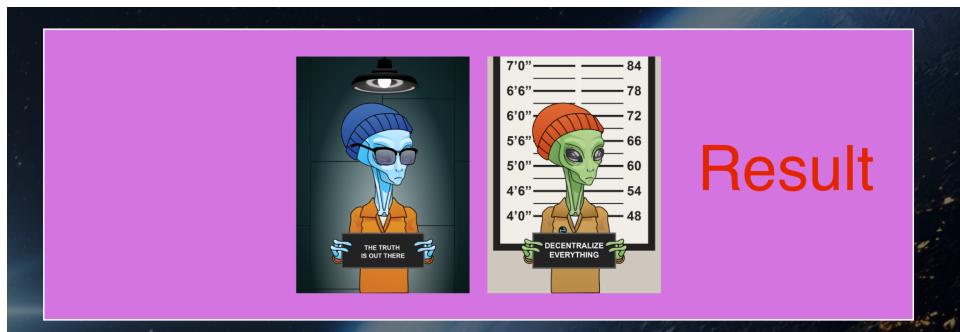
You may notice that upon reaching the gallery customization page entitled "Gallery Builder," there will be a default background image for the gallery. (It is an image resembling our solar system, and it is the current Twitter banner of Soliens' official Twitter account, @SoliensNFT.) There are three other space-themed background images which you may choose as your gallery's background image. To set the gallery's background image to one of the space-themed backgrounds, click on one of the four image selectors that are directly below where the gallery is displayed. These four image selectors offer a preview of what the background image looks like. This change can be applied before or after use case 4, 6, 7, and 8. This use case can only be performed after having already performed use case 3.

Use Case 6: Changing Gallery Background to a Custom Color Background



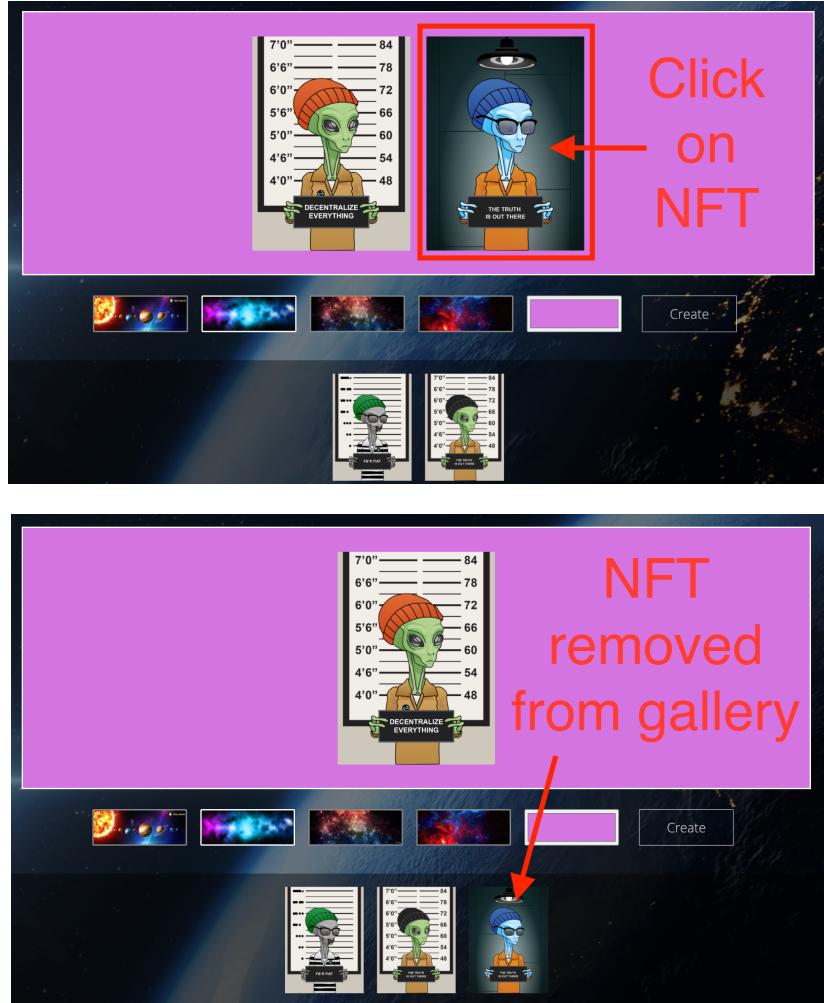
On the gallery customization page entitled "Gallery Builder," you also have the ability to change the background image to an image consisting entirely of a solid color of your choosing. To change the gallery's background image to a solid color, click on the color selector which is to the right of the four aforementioned space-themed background image selectors. If the desired color is already displayed by the selector, click anywhere else on the screen to apply it as the color of the background image. If you would like to use a different color, use the standard color selector that pops up when the background color preview is clicked to find and click on the color you are interested in using. Then click anywhere else on the screen to apply that color as your background. This use case can be applied before or after use case 4, 5, 7, and 8. This use case can only be performed after having already performed use case 3.

Use Case 7: Changing the Order of the NFTs Displayed in Your Gallery



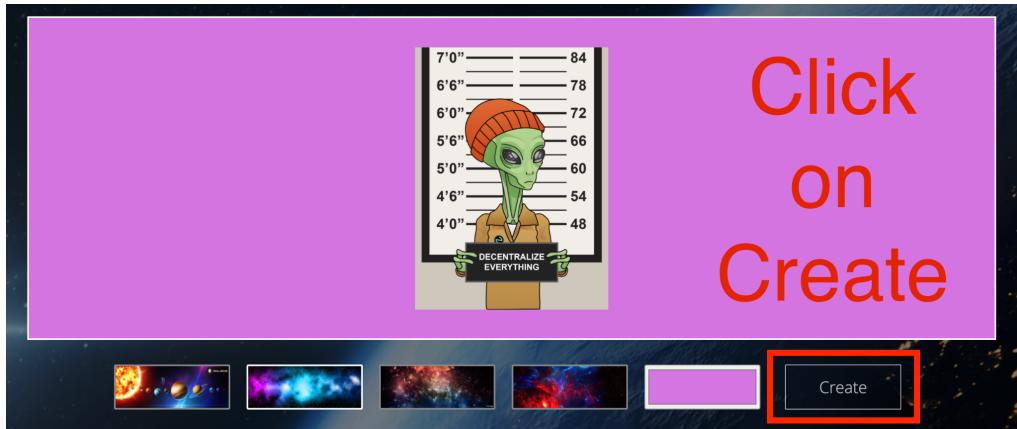
If there are anywhere between two and four NFTs currently in your gallery (meaning the difference between the number of times that use case 4 and use case 8 have been completed is at least 2), you have the ability to change the order in which they are displayed in the gallery. To move an NFT to another position in the gallery, click and hold the NFT that you would like to move, drag it to the desired position, and release your mouse. You can repeat this process with any of the NFTs in the gallery until all of the NFTs are ordered according to your liking. This use case can be performed before or after use cases 4, 5, 6, and 8, and, of course, only after use case 3.

Use Case 8: Removing NFTs Displayed in Gallery



You also have the capability to remove NFTs from your gallery once you've added them. To do this for a given NFT in your gallery, click on it. It will then be removed from your gallery and added back to the bottom of the page, where it will now once again be among the options for NFTs that can be added to your gallery. The highest number of times that this use case can be performed is, intuitively, equal to the number of times that use case 4 is performed, since you can only remove as many NFTs from your gallery as have been added to it in the first place. As such, as long as there is at least one NFT currently in your gallery, this use case can be performed before or after use cases 4, 5, 6, and 7, and, of course, only after use case 3 has been performed.

Use Case 9: Downloading Generated Gallery



Once you have performed use cases 1 and 3 followed by whatever combination of use cases 4, 5, 6, 7, and 8 that result in a gallery image which is to your liking, you may then be interested in downloading it. To do so, perform the following steps: click on the button labeled "Create" on the gallery creator page entitled "Gallery Builder." Disclaimer: you must have at least one NFT in your gallery for the "Create" button to work, meaning you must have done use case 4 at least one more time than use case 8. With at least one NFT in your gallery, clicking the "Create" button will create a new tab leading you first to a loading page followed by a download page. On the download page, you will once again (the first time being on the gallery customizing page) see a preview of the image of your gallery. To actually proceed to downloading the image, click on the "Click Here to Download Image" link at the bottom of the page. This will then lead you to a Cloudinary webpage. Once on that page, right click on the image of your gallery and select "Save Image As..." and enter the filename "my_gallery.png". Finally, click save. The image will now download on your computer.