

Rocommunications writeup

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Challenge

168 Solves

✕

Rocommunications

263

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Yet another Rogue Robloxian is on the loose! Apparently, this one is communicating through its shirt.

<https://www.roblox.com/communities/917253937/SunshineCTF#!/about>

Note: Roblox Studio, as well as a Roblox account, are required for the intended solve, however this is solvable without it.

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1 Abstract of challenge

This challenge is similar in scope to Tribble with my skin, but instead of finding the minecraft skin online, we need to extract the decal from a shirt from the Roblox asset store.

1.1 Problem description

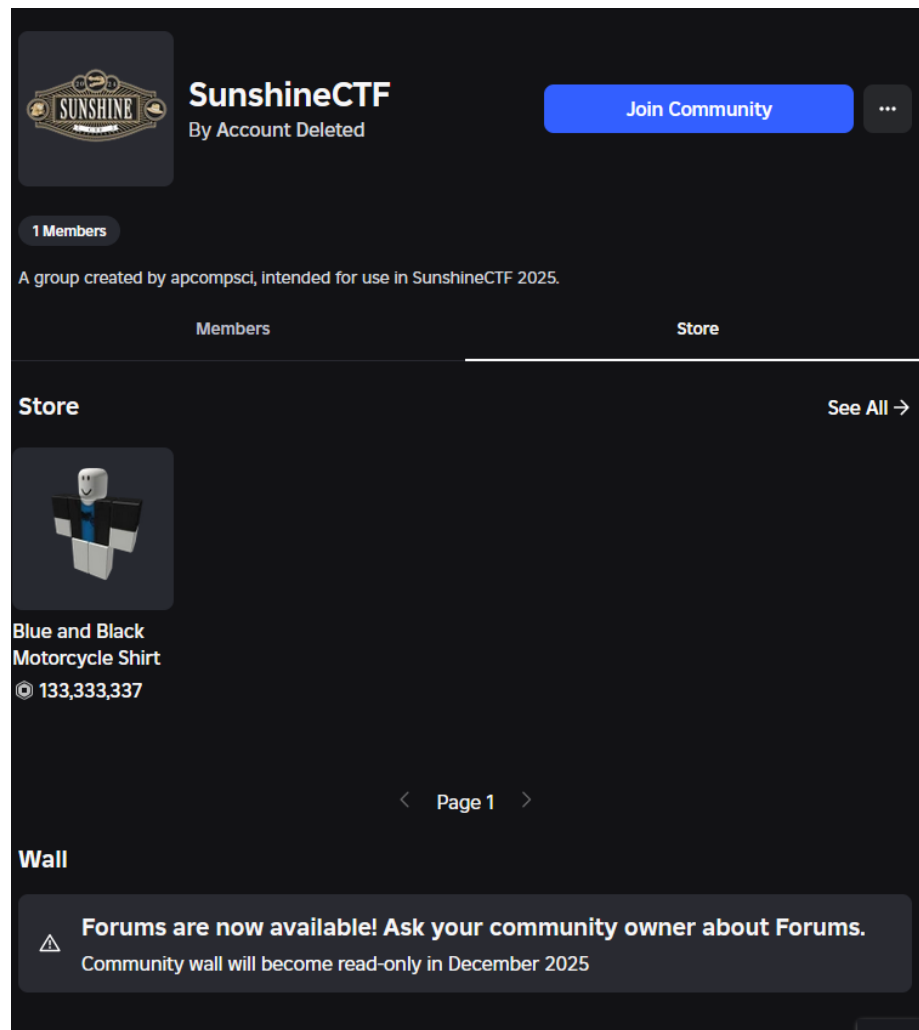
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<https://www.roblox.comcommunities917253937SunshineCTF#!about>

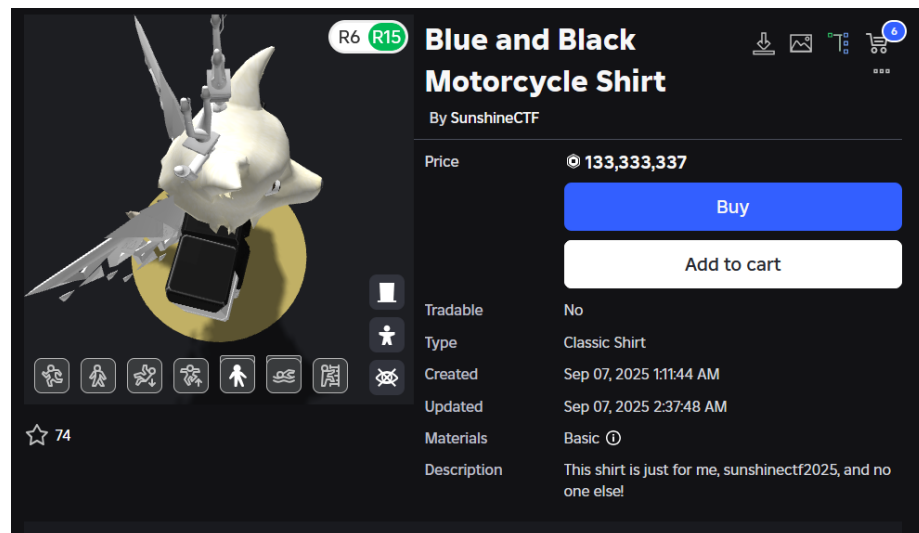
Note: Roblox Studio, as well as a Roblox account, are required for the intended solve, however this is solvable without it.

2 Solution

When opening the link, we get to a Roblox group where we find a shirt that is being sold for an impossibly high price, so that nobody can ever own it apart from the owner of the group:



The shirt that is being used here is a basic Roblox shirt that a player gets when they sign up. However, when opening the store page, we can see that the texture of the shirt has some weird errors around the shoulders, which means that this is an altered version of the original. The description also mentions confirms that this is involved with the challenge:



Although the challenge mentions that we need to have a Roblox account and to use Roblox Studio, that is not the case at all. The solution that I went with did not require any of them, but I did use it to find the assetID of the shirt in order to make a call to Roblox's API in order to download the file.

First thing I did, was use a browser extension called BTRoblox, where I was able to download the **.rbxm** file of the shirt from the website, hoping that I could get the decal from it. When I couldn't do that, I opened the file on Roblox Studio and I managed to find the asset ID of the file:

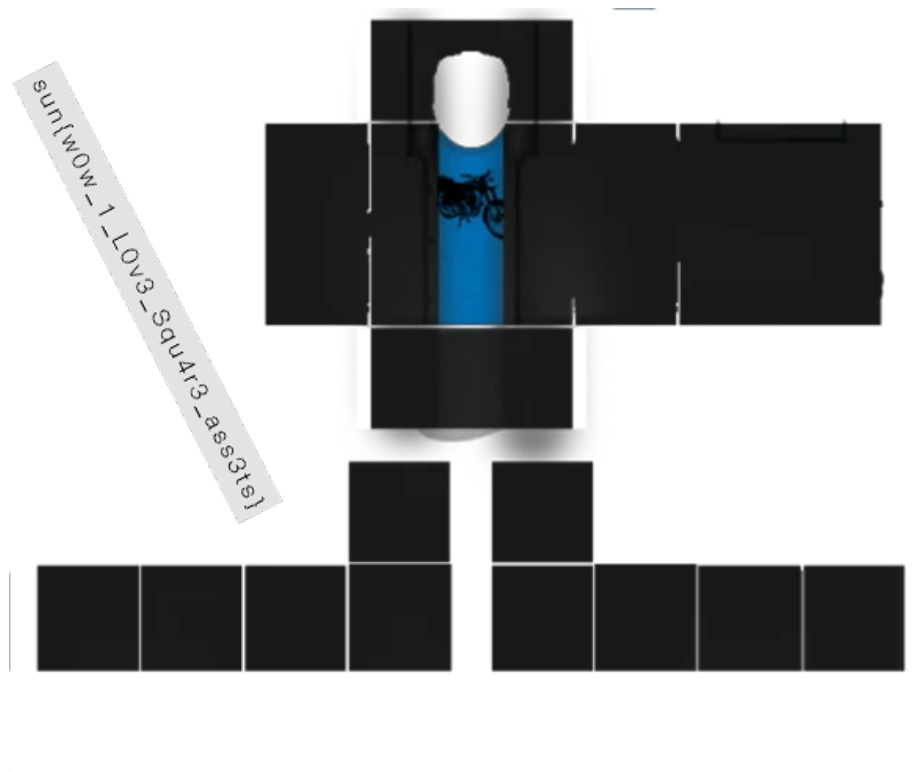
<http://www.roblox.comasset?id=99859692989451>

This link leads to a dead page, but the following leads to the decal download of the file:

<https://assetdelivery.roblox.comv1asset?id=99859692989451>

3 Flag

Finally, when you convert the file that was downloaded into a png, you get the following image:



Therefore, the flag is:
`sun{w0w_1_L0v3_Squ4r3_ass3ts}`