

Laporan Penetration Testing PixAi App Mobile Application

Juni 2025 - Versi 1.0

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Executive Summary

A penetration test was conducted on the PixAi mobile application in June 2025. One medium-risk vulnerability was identified during the assessment: Broken Access Control on the Priority System and Image Size Customization. This issue allowed non-membership users to access premium-only features through unauthorized parameter manipulation on the GraphQL endpoint.

The vulnerability has been responsibly reported and was acknowledged and resolved promptly by the PixAi team. further technical details, reproduction steps, and mitigation recommendations are provided in the subsequent section of this report

Summary of Findings

One (1) finding *Medium*

NO.	FINDINGS	RISK
1	Broken Access Control on Priority System, and	Medium
	Customize Image Size For Non-Membership User	

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Finding 1 – Broken Access Control on Priority System, and Customize Image Size For Non-Membership User

Target: PixAi App

Endpoint: https://pixai.art/graphql

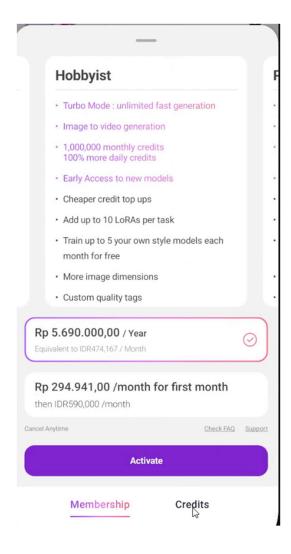
Date Identified: 2025-6-3 20:20 (UTC+7) Date Report: 2025-6-4 00:28:44 (UTC+7)

Date The Bug Resolved: 2025-6-4 15:55 (UTC+7)

CVSS Score: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L-4.3 (Medium)

Deskripsi

So the vulnerability we found lets a user without a paid membership access features that are supposed to be exclusive to members at priority createGenerationTask and customize image size that only can be created by user if the user was a Membership user. This type of issue is known as "Broken Access Control" (BAC), meaning the system isn't properly checking who is allowed to do what.



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Rapid generation

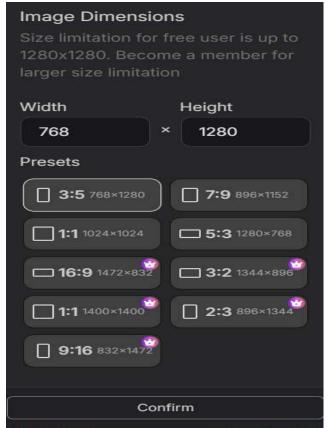
For non-members: check the box for rapid generation, typically completed within a few minutes.

For members: turbo mode is auto-turned on, providing faster generation.

Generation speed will be comparatively slow if the box is unchecked.

So basically in this website there are 3 priority sets, first the default one is 0, second the membership default is 500 (no extra credit that charge here, but the non-membership can't use this feature), and third the high priority set to 1000 (but with the extra credits).

This website to have some default size preset like this:



The crown logo in there is the size preset that only a membership account can access.

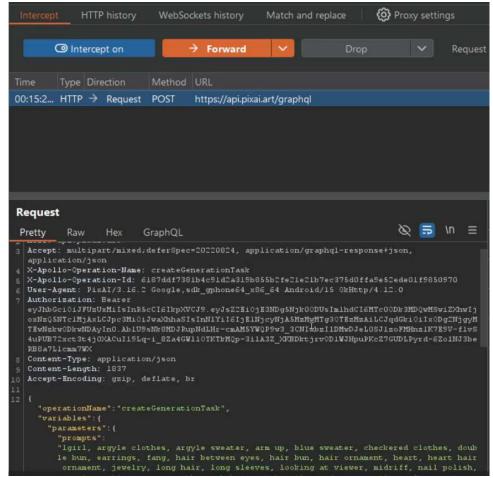
Impact

This vulnerability allows unauthorized users (non-premium members) to gain access to premium features (such as Turbo Mode and High Priority) without proper authorization. As a result, it bypasses the intended business model and access control mechanisms.

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Step to Reproduce

Obtain the createGenerationTask using the request with Burp Suite



2. After that we can see the graphql request, and we change the priority and the size to only Membership users can use it (the priority and the size).

The priority set to 500 (this is the turbo mode)

The width and the height in here we set to 2:3 (896 x 1344)

```
Request

Pretty Raw Hex GraphQL

"title":"",
    "extra":{
        "strict":true
},
        "tags":[
],
        "negativePrompts":
        "bad quality, worst quality, low quality, extra_digits, artistic_error, bad_anatomy, bad_hands, deformed, bad_reflection, bad_feet, artist_name, signature, watermark, cop yright_name, missing fingers, excess fingers, bad fingers, light particles, multiple views, (nsfw:1.2), (nude:1.6), (nipple:1.2), naked",
        "samplingSteps":28,
        "samplingMethod":"Euler",
        "cfgScale":5.0,
        "width":760,
        "height":1280,
        "autoPublish":false,
        "batchSize":4,
        "priority":500,
        "lora":{
},
        "modelId":"18691085c1160475178",
        "clipSkip":1
```

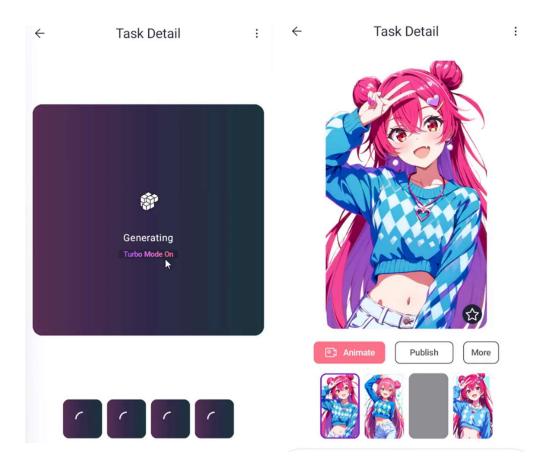
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Here is our full graphql request to change the priority to turbo mode, and change the size preset using membership preset 2:3 (896 x 1344):

```
"operationName": "createGenerationTask",
  "variables": {
    "parameters": {
      "prompts": " 1girl, argyle clothes, argyle sweater, arm up, blue
sweater, checkered clothes, double bun, earrings, fang, hair between eyes,
hair bun, hair ornament, heart, heart hair ornament, jewelry, long hair, long
sleeves, looking at viewer, midriff, nail polish, navel, necklace, open mouth,
pink hair, pink nails, red eyes, smile, solo, sweater, v, very long hair,
tatsuroumaru, ",
      "extra": {},
      "priority": 500,
      "width": 896,
      "height": 1344,
      "modelId": "1869108561160475178",
      "negativePrompts": "bad quality, worst quality, low quality,
extra_digits, artistic_error, bad_anatomy, bad_hands, deformed,
bad_reflection, bad_feet,artist_name,signature, watermark, copyright_name,
missing fingers, excess fingers, bad fingers, light particles, multiple
views",
      "samplingSteps": 28,
      "samplingMethod": "Euler",
      "cfgScale": 5,
      "seed": "",
      "clipSkip": 2,
      "lora": {
        "1783176266424593961": 0.7,
        "1860344075094177094": 0.9,
        "1867004451879626080": 0.7
      },
      "upscale": 1.5,
      "upscaleDenoisingStrength": 0.6,
      "upscaleDenoisingSteps": 20,
      "controlNets": [],
      "lightning": false,
      "inferenceConfig": {
        "modelSampling": {
          "inputs": {
            "shift": 2
```

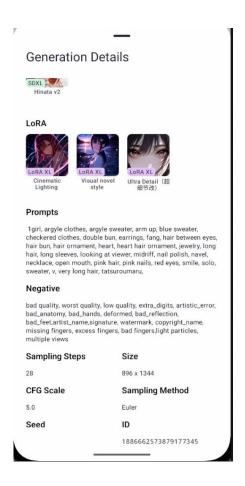
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This task is created using Turbo Mode, and using a 2:3 size that only a membership account can use.



And here is the result if we change the size using the membership preset (In here we forgot to do the documentation in the video, but by using the full graphql request that we mention in this report the bug can be reproduced).

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 Here is the full video that how we do this vulnerability (Forgot to add the bug that we can change the preset to membership preset only): https://drive.google.com/file/d/1pHzA11Lf0w-Z5a09HITCI_ndzvpaRSAi/view?usp=sharing

Here is all the image ID that We create using this vulnerability:

From @user-axl account:

- 1. 1886662573879177345
- 2. 1886688188485461129

The main part where the bug is:

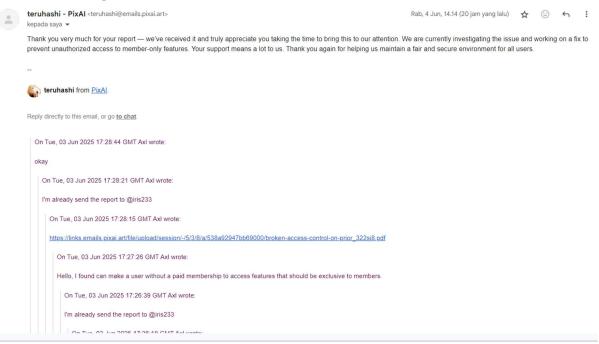
"priority": 500, "width": 896, "height": 1344,

Mitigation

Input Validation: Validate all user inputs, especially values that are passed through requests (e.g., the priority parameter). Reject any values that do not correspond to legitimate user permissions or membership levels.

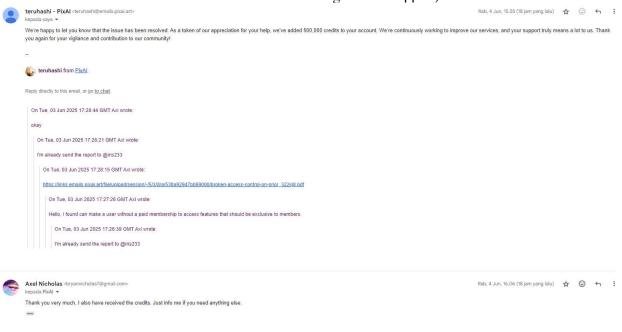
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Submission Bug Prove:



Bug Resolved Prove With The Reward:

(Credits in here is the credits that use to create an ai image in their app to)



Prove that we received the credits

+500,000 Operator change Jun 4, 2025 3:48 PM (19 hours ago)

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