

Welcome to our NVAI API. This cloud-based service allows you to upload images to receive detailed AI-generated descriptions or object detection results. The service is designed to help developers building vision-based applications, or anyone in need of image analysis.

Key Guidelines:

1. **Secure Your API Key:** Your API key is essential for authentication and access to the service. Keep it confidential, as it grants access to your account and uploads. The company is not responsible for any misuse or loss of your API key on your end.
2. **API Usage:**
 - `/nvailimages`: Provides detailed written descriptions of the uploaded images or videos.
 - `/nvailimagesbb`: Returns object names and their bounding box locations for detected objects in the images or videos.

Both endpoints require an API key and support image formats such as .jpg, .jpeg, and .png.

By using this service, you agree to adhere to these guidelines and ensure that your API key remains secure.

`/nvailimages`

Method: POST

This endpoint allows users to upload images or videos to receive a detailed, AI-generated description of the contents within the media. It is particularly useful for providing contextual information about objects, people, and environments. The narrative-style summary helps visually impaired users or anyone requiring a textual description of an image.



In this image, two women are sitting across from each other at a small round table, engaged in conversation. The woman facing the camera has long, wavy hair and is gesturing with her hands while speaking, looking attentive and friendly. She is wearing a light pink blouse, and there is a large window behind her. The other woman, seen from the back, has short, curly hair and is wearing a dark blue shirt. The setting appears to be a modern office or meeting space, creating a professional and casual atmosphere.

Request Format

- **key:** (string) [Required]

- This is your unique API key used to authenticate and track your uploads. Ensure it is kept secure and not exposed publicly, as the company will not be responsible for misuse due to mishandling on your end.
- **images:** (file list) [Required]
 - A list of image or video files to upload. All image files must be named as 0.jpg or 0.png (strictly no other filename format allowed).
 - Allowed formats: .jpg, .jpeg, .png.

Response

- **response:** (string)
 - This contains the textual description generated by the AI, which includes details about the objects, people, and the environment in the image. The description is in a readable, narrative format that aims to provide an immersive understanding of the scene, making it ideal for accessibility use cases like assistance for the visually impaired.
- **success:** (boolean)
 - Indicates whether the image was successfully processed. A true value means the request was handled successfully, while a false value indicates an error occurred, such as file format issues or missing API key.

Example Response

```
{response": "In the image, there are five individuals inside a vehicle. The person in the foreground is holding the steering wheel and has facial hair; they are smiling and directly facing the camera. This individual wears a striped top with dark and light horizontal bands. To their right, in the passenger seat, there is a person with long dark hair and a white top, who is also smiling towards the camera. In the back seat, three additional individuals can be seen. The one in the middle has a light beard and is wearing a dark colored top, the person to the left has blonde hair and a light-colored top, and the one on the right has dark hair and a charcoal colored top. The group appears joyful, which likely suggests a positive atmosphere within the vehicle. From what's visible through the car windows, the setting outside seems bright, indicating daytime, and the vehicle appears to be in motion, as suggested by the blurred scenery in the background. The composition of this image implies a shared experience, likely a journey or road trip, involving a group of friends or acquaintances.", "success": true }
```

Example Request

```
import requests

# Your actual API endpoint URL
url = "https://fye-be.azurewebsites.net/api/Images"

# Payload (form-data)
payload = {
    'api_key': 'your_api_key_here', # Replace with the actual API key
}

# Placeholder for the file path (you will replace this when running the script)
file_path = "path/to/your/0.png" # Replace this with your actual file path when running the script

# File upload (generic, replace with any file)
files = [
    ('images', ('0.png', open(file_path, 'rb'), 'image/png')) # Generic file placeholder, replace path when running
]

# Headers (if needed, can be left empty)
headers = {}

# Sending the POST request
response = requests.request(method='POST', url=url, headers=headers, data=payload, files=files)

# Print the response from the server
print(response.text)
```

/nvailimagesbb

Method: POST

This endpoint is designed for object detection within images or videos. It identifies objects in the media and provides their corresponding locations via **bounding box coordinates**. It is especially useful in applications involving automated object detection or computer vision tasks, such as security, autonomous vehicles, or object classification.

Request Format

- **key:** (string) [Required]
 - Your unique API key to authenticate and track user-specific uploads. Keep this key confidential to avoid unauthorized access.
- **images:** (file list) [Required]
 - A list of image or video files to upload. Filenames must adhere strictly to the format 0.jpg or 0.png.
 - Allowed formats: .jpg, .jpeg, .png.

Response

- **object_name:** (string)
 - The detected object's name or label (e.g., "car", "person", "dog"). This label is derived from the model's trained class names.
- **bounding_box:** (array of float)
 - An array representing the bounding box coordinates of the detected object. The coordinates specify the top-left corner (x, y), width, and height of the object within the image:
 - **x:** The x-coordinate of the top-left corner.
 - **y:** The y-coordinate of the top-left corner.
 - **width:** The width of the bounding box.
 - **height:** The height of the bounding box.

Example Response

```
{
  "response": [
    {
      "bounding_box": [
        343.2427978515625,
        765.6058349609375,
        198.4862060546875,
        276.23681640625
      ],
      "object_name": "Human face"
    },
  ],
  "success": true
}
```

Security Best Practices:

- **Protect Your API Key:** Treat your API key like a password. Keep it confidential and avoid sharing it in public spaces like GitHub repositories or client-side code.