# **Assignment from Big Rattle Technologies - Data Entry Operator**

## Task 1: Annotation

# **Objective:**

Please review and annotate the images:

- If the images have already been annotated, kindly ensure that the annotations are accurate and properly reflect the product.
- If the images are not yet annotated, create the necessary annotations and save your work.

# **Instructions:**

The dataset consists of images and JSON files. Please use the tool called "Labelme". You can download this tool from "<a href="https://github.com/labelmeai/labelme">https://github.com/labelmeai/labelme</a>" for this task. Follow these steps:

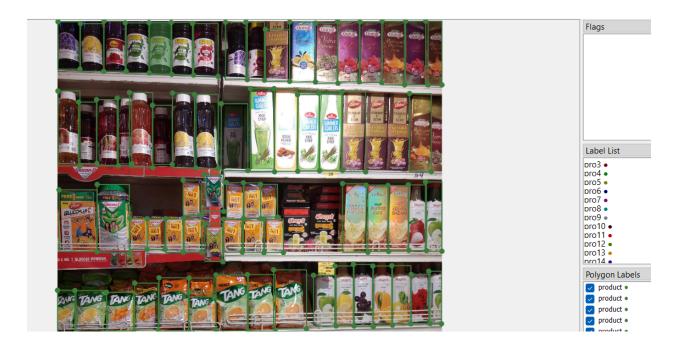
- 1. Search for the command line terminal in Windows
- 2. Type below given commands to open the labelme tool.
  - -> labelme

Once the Tool is opened: Click on "Open Dir" to select the directory containing the images.

- 3. Ensure that each instructed product in the images has proper annotations.
- 4. If an image is missing annotations, kindly create a new annotation for the product.
- 5. Create a rectangle box of annotations for the given product. Use a mouse for better accuracy. Use commands like "Ctrl+R" to enable the annotation.
- 6. After creating the annotation box, the popup window appears labeled "product".
- 7. You have to name every annotation as "product" only. "Ctrl+S" to save the annotations.
- 8. After completing the annotation, save your work and proceed to the next image.

Feel free to reach out if you have any questions!

# Sample Annotated Image for the reference:



# Task 2: Image Validation and Data Preparation for Model Training

# **Objective:**

To organize and validate image datasets by comparing reference images in the "Master" folder with their corresponding subfolders in the "Data". Any mismatched or unrelated images will be moved to a separate Dump folder. This process is essential for ensuring accurate data preparation for model training.

#### Instructions:

#### **Task Overview:**

## 1. Master Folder:

 Contains four reference images (eg: Real Guava Juice1L) that serve as the baseline for comparison.

#### 2. Data Folder:

 Contains multiple subfolders. Each subfolder's name corresponds to one of the reference image names from the Master folder.

## 3. Comparison Process:

- o For each reference image in the Master folder:
  - 1. Go to the corresponding subfolder in the Data folder.
  - 2. Check if the subfolder contains the same image as the reference image from the Master folder.
  - 3. If the image in the subfolder does not match the reference image, move the mismatched image(s) to a new **Dump** folder for further review.

#### 4. Final Step:

 Repeat the process for all reference images in the Master folder to ensure that each subfolder in the Data folder contains the correct image.

# **Output:**

The correct images will remain in their respective folders for training, while incorrect images will be moved to the Dump folder, creating a clean and validated dataset.

Submission: Submit the dataset in a new folder named "Done (your name)."

Deadline: 2 hours

Evaluation Criteria: Your annotation speed and accuracy will be measured.