Project Robotina (5 min+ Head Strap Mount Video Generation)

Labeling Workflow Instructions

GOOD/BAD VIDEOS EXAMPLES: PLEASE GO THROUGH THE CATALOG TO SEE THE EXAMPLES OF SOME GOOD AND BAD SUBMISSIONS:

CHECK THE CATALOG

⚠ DO NOT PROCEED WITH THIS PROJECT IF YOU CANNOT USE THE FOLLOWING SPECS REQUIREMENTS WITH A MOBILE PHONE DEVICE:

- **iPhone 11 or newer or Android equivalent (Samsung Galaxy S10, OnePlus 7T, Google Pixel 4).**

IF YOU PROCEED WITH WORKING ON THIS PROJECT AND YOUR MOBILE DEVICE IS FLAGGED FOR NOT MEETING THE DEVICE SPECS REQUIREMENTS - WE WILL REMOVE YOU FROM THE PROJECT AND YOU WILL NOT BE REIMBURSED FOR ANY COSTS. Please follow the instructions carefully. Thank you!

Objective:
This project aims to collect data focused on egocentric (first person) domestic video of human activities in realistic residential environments(at home) or non-residential environments (a second location such as industrial, services, etc.).

The data must be captured using head-mounted smartphones (or equivalent first-person, point of view, POV devices) while participants perform natural, everyday domestic chores or activities in their home.

IMPORTANT: **Your face will NOT be visible during this project so your identity is protected.**

Completing the Setup for the Project

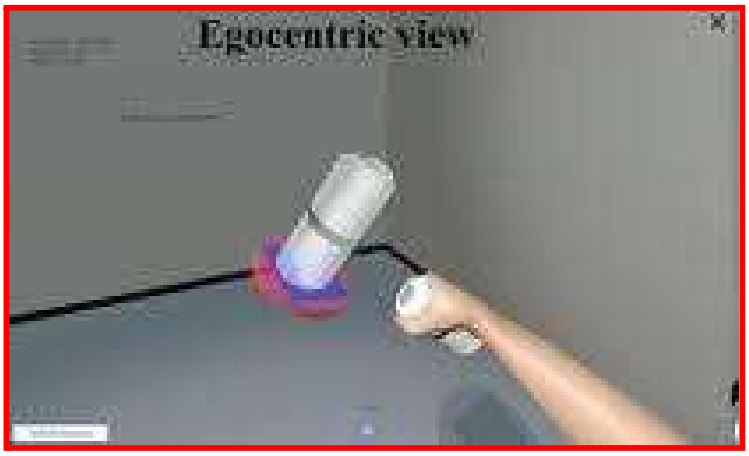
1. **Purchase Head Strap Mount for Recording with Using Your Mobile Device:**
    a. You are required to purchase a proper **Head Strap Mount** for recording videos using **your mobile phone**.
    b. You will have to purchase the item on your own however **we will ensure reimbursement for the purchase** amount once you submit your first video data row via the [data sharing] Platform.

c. Please follow the link to make your purchase of the Head Strap Mount via Amazon: **Link here**
d. IF THE AMAZON LINK IS "OUT OF STOCK" - PLEASE COMPLETE THE PURCHASE FINDING AN ALTERNATIVE THAT MEETS THE SAME DESIGN SPECS. BE SURE THE COST IS SIMILAR TO ITEM IN THE AMAZON LINK AS THERE IS A BUDGET THAT WE WILL BE REIMBURSING.

2. **Preparing for video recording with your mobile phone and Head Mount Instructions:**
   a. It is **mandatory** that you **set up the head strap mount on your head** and assemble the mobile phone device properly **before you begin video recording**.
   b. **Device:** Smartphone mounted on the participant's head (forehead/eye-level) and at a downward angle at 45 degrees and ensure that your arms/hands are fully in view during the activity.



   c. **Perspective:** Egocentric (How it should look from the mobile phone camera) **First person point of view.**



   d. **You must watch the video examples** on how the mobile phone device should be strapped onto your Head Strap Mount.
      i. Example 1: **Link 1**
      ii. Example 2: **Link 2**

3. **Guidelines for when Recording Using Your Mobile Phone Device: PLEASE NOTE THAT THESE REQUIREMENTS ARE MANDATORY. IF YOU DO NOT MEET THESE REQUIREMENTS, YOUR DATA ROW WILL AUTOMATICALLY BE REJECTED.**
    a. Technical specifications for your mobile phone camera settings:
        i. **30 FPS or greater**
            1. **STEPS TO ADJUST FPS ON IPHONE OR ANDROID CAMERA**
                a. **IPHONE: CLICK HERE**
                b. **ANDROID: CLICK HERE**
        ii. **720p resolution, or greater**
            1. **STEPS TO ADJUST THE RESOLUTION ON IPHONE OR ANDROID CAMERA**
                a. **IPHONE: CLICK HERE**
                b. **ANDROID: CLICK HERE**
        iii. **Always horizontal camera angle (landscape shooting)** with **0.6x zoom or 0.5x zoom to get a better view. WATCH THE SAMPLE VIDEO TO GET AN UNDERSTANDING OF THE CAMERA ANGLE AND HAND MOVEMENT. DO NOT RECORD VERTICALLY (DO NOT DO PORTRAIT SHOOTING!**



        iv. **DO NOT have 1x zoom or greater.**
    b. **Hands Visibility: Camera should be *placed at a downward angle* to maximize hands in frame when manipulating objects**.
    c. **Make sure that your arms and hands are visible when doing the tasks**.
        i. It is okay to have only (1) hand/arm visible in the event that the task requires only (1) hand/arm.
    d. **DO NOT** have **jerking or jolty movements** while recording as we want **the video recording to be smooth and natural**.
        i. However, you can move your head when moving around and changing room locations.
    e. If you're bringing in object, record that as well
        i. picking → holding → placing → demonstrating should all be captured in the video. Always keep the object fully in frame, even while picking it up. For instance, For example you have multiple clothing for folding. You take one move and fold it. Once you place it in the bin you can move the camera to the next object and the first can disappear until you put the second piece of clothing on top of the first.

Getting Started on the [platform for submitting data] Project

Environment Settings Requirements:

- **Reminder, this project is completing tasks around a residential home with modern appliances and accessories.**
- If you need to find a more fitting environment to record, please **feel free to record at another home of a family member or friend.**
- **You must review the standard example video** of what kind of video content we are requiring for this project when recording with your mobile phone camera: **Project Robotina - Standard Video**

Example: link here (MUST WATCH)



When recording, select from these List of Household Activities:

- **You are required to select tasks from the list given below when recording the video:**
  - **Home Task Criteria**

Mandatory Requirements:

- ☐ You are asked to submit **a MINIMUM 5 minute video**. **Do not submit anything smaller than that.**
- ☐ **You can only submit 1 datarow!!!**
- ☐ Make sure you **select from the provided categories and tasks mentioned above**.
- ☐ **The environment which you're using to record the video must maintain a high standard of visual appeal. The environment needs to look good.**
- ☐ **DO NOT show ANY faces in the video - including your own face from a mirror reflection, or another person's face in a photograph, etc. If this occurs, your data row will automatically be REJECTED.**
- ☐ **DO NOT show any documentation or ID that displays personal identification information (i.e. phone number, email addresses, SSN, etc).**

MUST-SEE SAMPLE VIDEOS VERY GOOD. AMAZING. WATCH IT:

Sample Video.mp4
Sample Video 2.MOV
Sample Video 3.mp4

Examples of Common Mistakes:

These are examples of common mistakes and if you submit a video recording with these, it will automatically be **rejected**.

- Example of recording vertically: link here
  - Any video file that has the user recording in Portrait Mode (vertically), this should **not** be approved.
- Example of the video file being recorded in slow motion: link here
  - This video has the user recording in slow motion.
- Examples of the user not using a head mount strap with their mobile phone device:
  - Example 1 - link here
    - This user is suspected of holding their phone with their left-hand throughout the video and using their right-hand to do all of the tasks.
  - Example 2 - link here
    - This user is seen propping their mobile phone device on the side and recording themselves cleaning the refrigerator. It is clear that the user is not using a head mount strap in this video.
- Example of the phone camera is **not** zoomed out during the recording: link here
  - Though sometimes it is difficult to truly see if the mobile camera has the proper settings for the zoom requirement, there are cases where it is very clear that the user did not zoom-out properly with the mobile phone device during their recording. This video example is easy to see that the zoom setting is not correct as it is difficult to see the full view of their hands/arms during the task activity.
  - If you are in doubt, give the user the benefit of doubt and **do not** penalize them for the zoom requirement. We have a script that can check if the user has the proper zoom settings.
- Example of video being upside down: link here
  - This video in the file was recorded upside down and this would be a data row that should be **rejected.**

How To Submit a New Data Row in Rework Workflow (Rejected Data Rows):

If your data row was **rejected**, then that means you did not pass the quality requirements when submitting your data row (video file) in the project and it was sent back to you in the Rework (all rejected) queue. We require the Labeling Team to address all of the Issue comments and to re-record a new video file that meets the quality requirements in this instructions document so that it passes the quality check from the Review Team.

For Alignerrs Only:

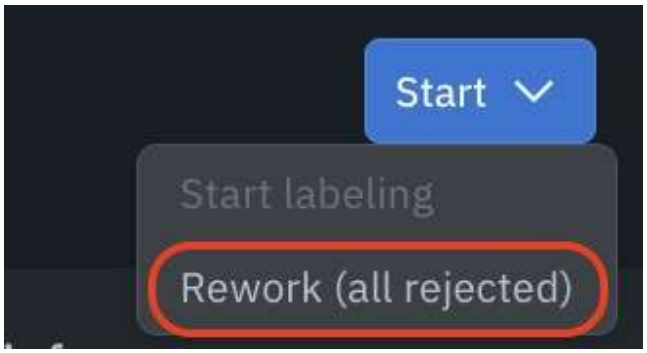
- For Alignerrs in the Evaluation project, you will need to submit a data row that meets quality standards in order to pass evaluation and be promoted to the Production Team where you can work on as many tasks as you can and be **paid** for each accepted task.

- For the Alignerrs in the Production project, you are encouraged to **rework** all of your **rejected** data rows as the project is **only** paid based on the tasks that are approved by the Review Team where your video file meets all of the quality standards in this Labeling Workflow Instructions document.

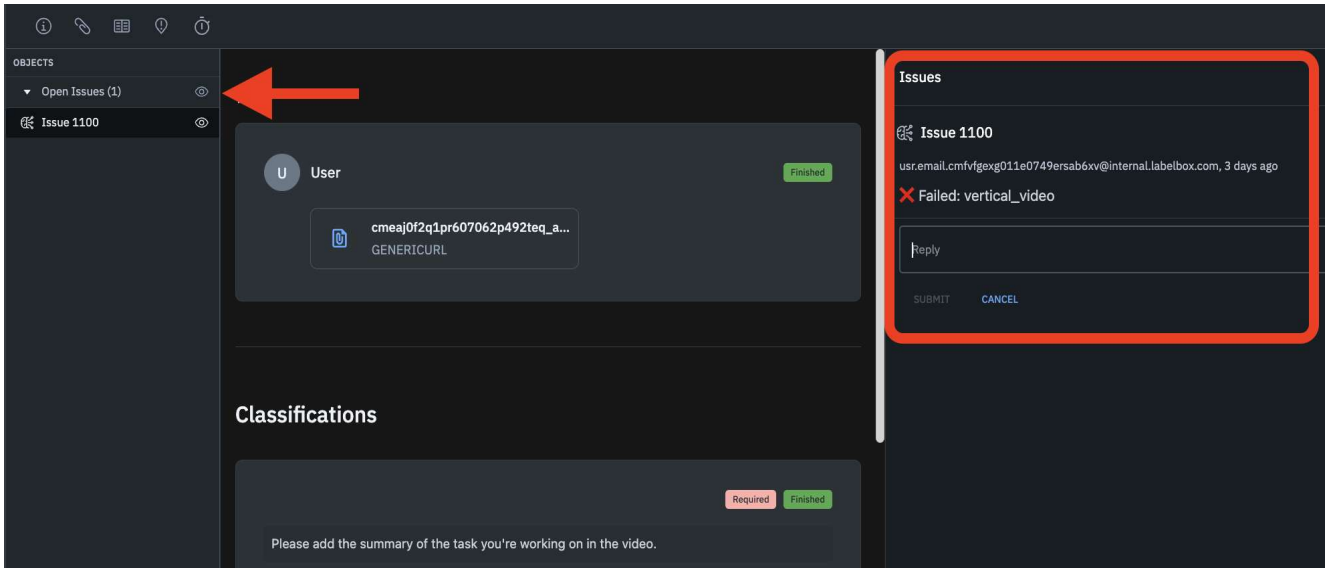
Steps on How To Submit a New Data Row from the Rework Workflow:

- **Watch this Loom Video Guide for the Rework Workflow:** link here

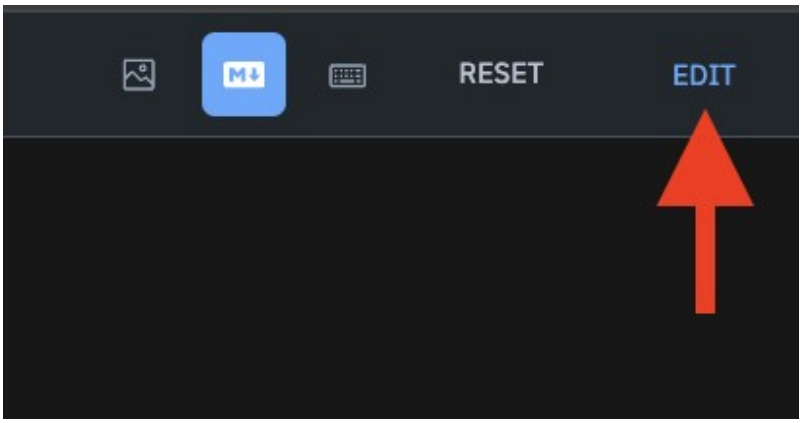
1. If you have rejected data rows, open the project in the platform and click on the “Start” button on the upper-right corner of the screen.



2. The platform will take you to your rejected data rows which contain all of the Issue comments that explains the reason(s) that your video file failed to meet quality standards. Click on the dropdown for “Open Issues” to view all of the issues comments. Then, the “Issues” window will pop-up on the right-side with all of the issue comments.



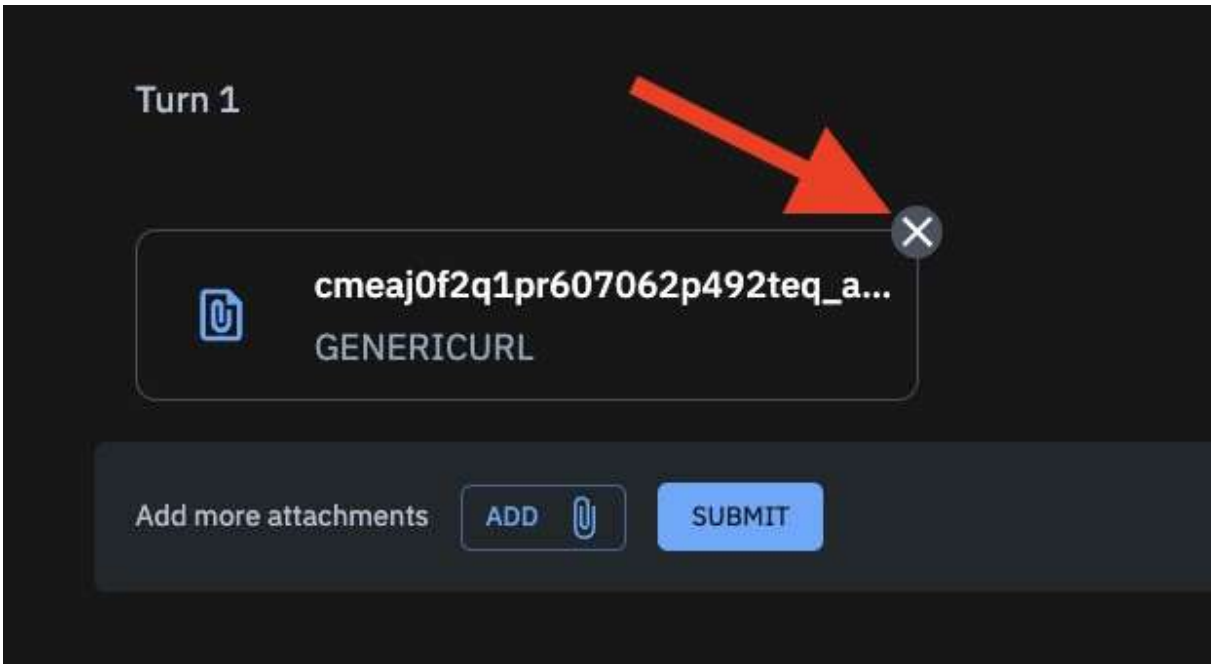
3. **RECORD A NEW VIDEO WHILE FIXING THE ISSUES NOTED:** Make note of all of the issues so that when you re-record a new video, you will be able to fix those mistakes when you resubmit a new video file.
4. **UPLOADING YOUR NEW VIDEO FILE (AFTER CORRECTING THE ISSUES):**
    a. To begin uploading your new video file in the respective data row, press the **EDIT** button.



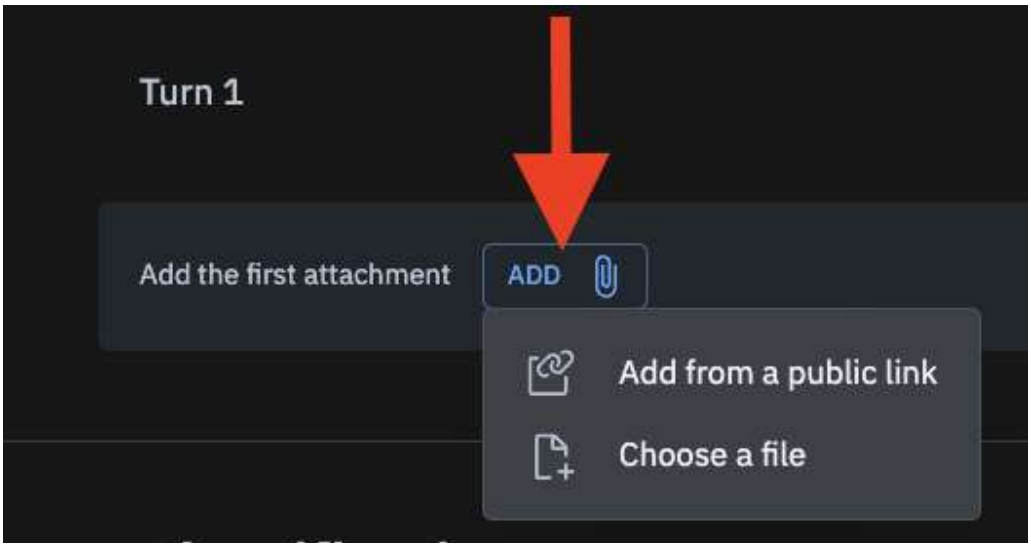
b. Then, press the **RESET LAST PROMPT** button.



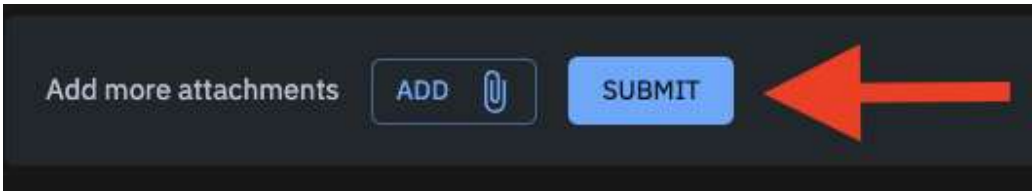
c. Remove any old video files from the rejected data row by pressing the “x” button attached to the video file.



d. Then, select the **ADD** button and select the option for “Choose a file” to upload your new video file. Be sure to wait for the entire video file to be uploaded.



e. Then press the **SUBMIT** button to complete the attachment of the new video file to the data row.



f. Then, press the **SAVE** button (upper-right corner) to submit the reworked data row to be reviewed by the Review Team.

