Instructions for Creating Video

Note: Please ensure that the video uploaded is of good quality and conforms to the instructions given below.

1. Setup the arena before you start shooting the video.
2. The resolution of the video should be good enough for judging. You have to use a 5 Megapixel or higher camera to shoot the video.
3. The video should be in one of the two following formats: .avi or.mp4.
4. The video will consist of two parts: Introduction part and Demonstration part.
5. **Introduction part**: The video **should start with a brief introduction**. Please follow the instructions below:
   - Opening screen of the video should be a shot of "Title_slide.doc" printed on A4 sheet with the team details. Hold the sheet still for 3-5 seconds along with all the team members.
   - This should be followed by an introduction limited to a maximum of **ONE minute**:
      - A **30 second** introduction by the team leader highlighting any interesting aspect of the theme's implementation.
      - A **30 second** description by the team leader highlighting any additional components like power supply, power distribution circuit, arm mechanism, algorithm.

6. **Demonstration part**: Demonstration part consists of **two** video:
   a. **one-shot continuous video** : Recorded with camera and should be uploaded to Youtube as instructed in **Uploading video/s on YouTube** section
   b. **Screencast video:** Record the video of the screen. (You can use Kazam software to screencast the fullscreen). The video should be sent along with the code submission as instructed on the portal. The following should be shown on the screen:
      i. Window showing the top view of V-REP scene.
      ii. Window showing each frame from the overhead camera.
   They should **not be edited** in any manner. Teams uploading an edited video will be **disqualified** from the competition. e-Yantra reserves the rights to disqualify any team if any foul play is suspected.

7. The **one-shot continuous video** should be taken by keeping the camera such that the entire arena is visible to the viewer. Here are a few tips for shooting good quality video:
   - Camera should be kept stable while recording.
   - Light the arena such that there is no reflection into the camera.
   - Keep the background, any lighting, etc. constant during the video shooting so that it doesn't show as a discontinuity in the video.
   - There should be no interference in terms of background noise or movement while shooting the video.

NOTE: The video MUST show both Laptop/PC and full arena during the course of its traversal in a run. See Figure 1 for reference.
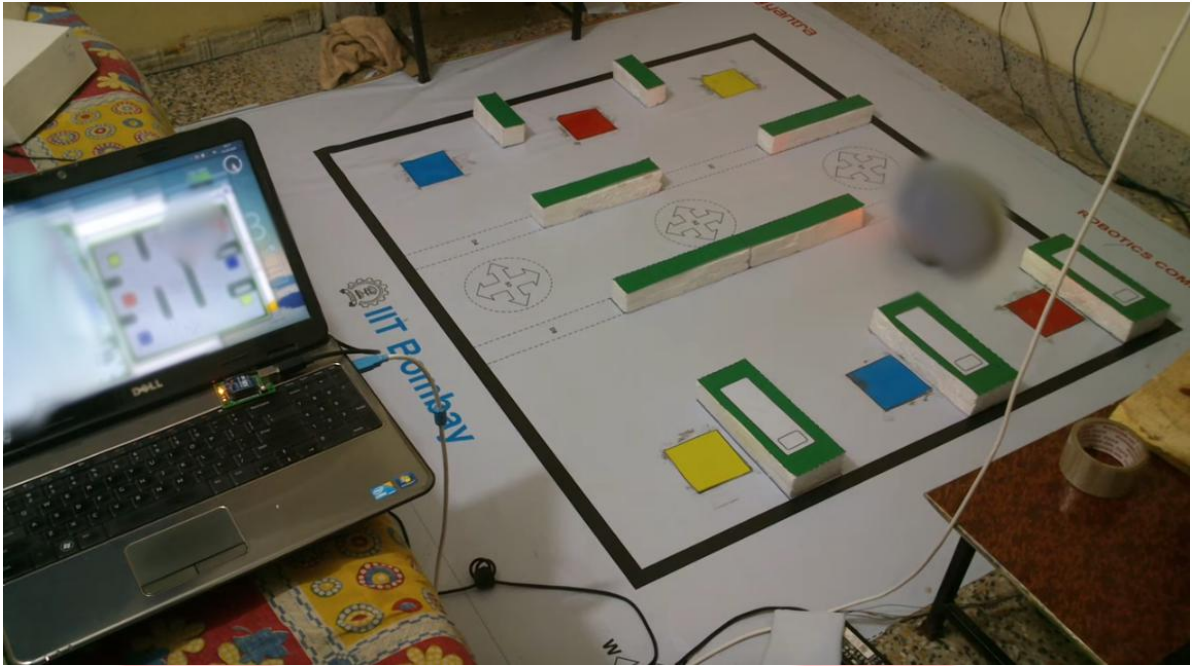
Figure 1: An Example

8. Please follow the steps below:
   - Place CB and the Truck in their respective start positions.
   - Start recording both the videos (one-shot continuous video and screencast videos)**.**
   - Switch on CB and execute Python script along with all the initializations.
   - Switch on the Truck. The timer starts at this point.
   - Once the robot starts moving, the arena along with PC/laptop should be in the camera view without any interference until the run ends.
   - After the end of the run, stop screen recording. Save the recorded video of the screen as task4.mp4. This screencast video has to be sent along with code submission as instructed on the portal.
9. In a successful run, the timer is stopped when the CB deposits all the fresh fruits in the Truck and a pop up window appears in the V-REP with the text "FRUITS COLLECTED".
10. In case you have any problem with the robot during the task (e.g. it goes out of the arena or dashes Fruits) and want to reposition the robot, you can do so subject to the rules given in the rulebook.
11. You are allowed to capture only ONE run during the demonstration; this should be a continuous video recording. Any repositions (if made) should also be a part of the one shot video.
12. It is mandatory that you upload the demo video even if your task is not completed. You may record the video of best run of the bot on the arena.

13. The video should end either
    - When the task is completed successfully or
    - If you exceed the number of re-positions or
    - The maximum time (10 minutes) given to complete the task has elapsed - as mentioned in the rulebook.

14. **Uploading video/s on YouTube:**
    - Upload **one-shot continuous video** using the given Configuration with the title **eYRC#CB#<Team ID>_Demo**
      (For example: If your team ID is 1234 then, save it as eYRC#CB#1234_Demo)
    - Please note that while uploading the video on YouTube select the privacy setting option as **Unlisted (Refer to Figure 2).**
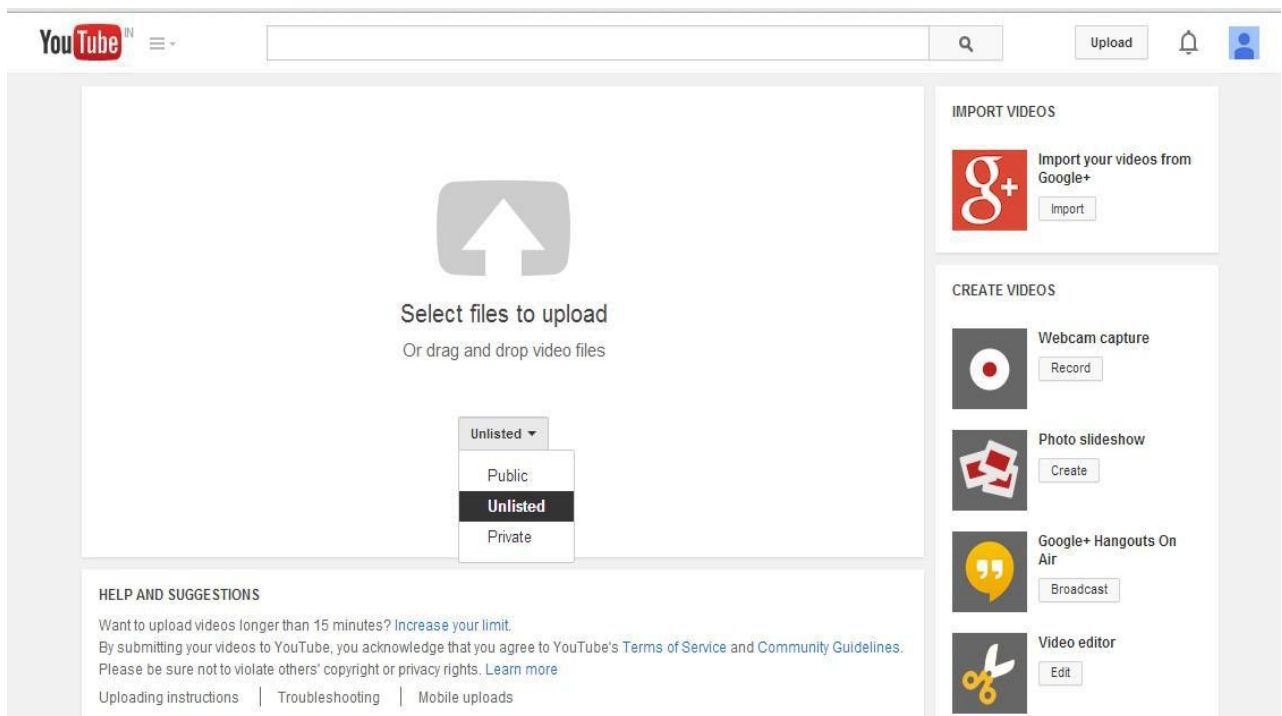
You need to upload the video as instructed on the portal.

Figure 2: YouTube page - "Unlisted" Option Selected