

Process Steps :

1. User will enter their username & password in the Login screen
 - a. Username: IIITD@Prid , Password : IIITD@Prid#369
2. Upload any **.mp4** formatted video by clicking on the **“Uploadvideo”** button
3. Once the video upload is done, click **“Analyze Video”** to go to the next page.
4. Then click on the **“Video Preview”** to show the uploaded video along with the duration and # of frames that will be extracted from the video.
5. Then click on the **“extract Video Information”**. This will perform the following steps.
 - a. First, Extract one frame per second from the entire video.
 - b. Then, using object detection, it will annotate every human from each frame.
6. Then select any portion of the video in terms of **seconds** from the **dropdown** and click on the **“Display frame info.”**. It will perform the following steps.
 - a. Display the original frame from that portion of the video.
 - b. Display the annotated frame and display every human surrounded by a rectangle from that annotated frame.
 - c. Crop every human from that annotated frame and display all of them.
7. Click on any human image from the selected frame, which will be considered as a query image for our re-identification task. To perform re-identification, it will perform the following steps.
 - a. Extract features from all the gallery images.
 - b. Calculate **cosine similarity** between query image to every gallery image.
 - c. Sort the cosine similarity
 - d. Select the **top 10** gallery images where the similarity is maximum.