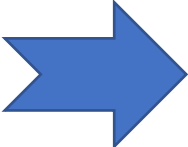**General information and guidelines:**

- **The goal:** To provide a software system (platform) for jewelry e-commerce retailers, at proof of concept level, that allows virtually try-on **jewelry products**.
- **Jewelry products** = All styles and designs of rings. Could include diamonds, gem-stones: Emerald, Ruby, Sapphire, … Metal color is not limited: yellow, white, red, …
- The solution should function exactly as shown in this video: https://www.youtube.com/watch?v=SKFSnXi2xQc
- As shown in the video, the result must be **photo-realistic** and **smooth** in **real-time**.
- This POC is targeting jewelry retailers and not end users. Therefore, it should function perfectly as shown in demo video.
- **Retailer dashboard** is a webpage where retailers can upload their **input**.
- **Input** is CAD file of the relevant 3D model as "*.3dm" format.
- Scanning the QR code should be done through a native android mobile app.
- Show **correct proportions of the product relatively to the hand**. That is why knowing the absolute dimensions of hand and product separately is needed.
- Present hand and product in a photorealistic way, as presented in the demo video.
- Hand motion and rotation is not limited. Full degrees of freedom (360 degrees on all axes) for hand rotation, movement, tilt. From front and back.
- User can choose on which finger he/she wants the product on simply by clicking on that finger.
- Marker/tracker **is not allowed** on fingers.

Retailer dashboard - Web page – Demo for retailers
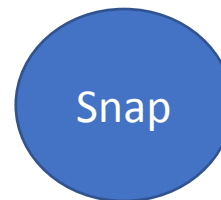
Upload item

CAD file

Upload

Get QR

Once input is uploaded, clicking on "Get QR" will generate a QR code on the same page. QR code is related to the product input just uploaded.
The QR code should be scanned via an android native app.

User can touch finger to move item from finger to another.

User can rotate, tilt and move hand freely (all degrees of freedom including front and back) while seeing the item sitting on finger, in real-time, as shown in this demo (not only top-view):
https://www.youtube.com/watch?v=SKFSnXi2xQc

Snap

When clicking on "Snap", a photo is captured of item on finger in the specific pose it was snapped (like screen-shot).

Terms:
- Delivery includes execution files, complete source code and all libraries.
- Level of functionality and smoothness should be as the level of the demo video.
- Level of realistic view should be as in the demo video.
- We don't have any data-sets. Freelancer should take care of that if needed without additional costs.
- This is a full-turn-key project. Which means full payment on full delivery. In other words, no advance payment and no milestones.
- Deadline is critical.