3d dress simulator project

Why?

Customer

1. Online shopping becomes easier.
2. Reduce time on fitting room. Customers can try more clothes.

On the company side

1. they can promote on sale and best sell clothes
2. Reduce the chances of return
3. Can have better management inventory

Brainstorm

System

* Platform
  + PC application?
    - Language: Python?
  + Web?
    - Language: Python? JavaScript?
    - Web platform: Django? Apache?
  + Phone? Andriod?
    - Language: Java?
* Feature
  + Main
    - How to setup the environment?
      * Which library used?
        + Handle the requirement of speed and model’s clarity (like real)
    - Photo to 3D model
      * Algorithm
        + Complexity
        + Accuracy
      * Scale Standard
      * Detail of the 3D model
        + Skins detail? ( No need)
        + Face detail? (Priority)
        + Body Shape? (Priority)

Can it be simplify?

* + - * Photo format
        + Size
        + How many ( ideal: at least 4 : 0,90,180,360 degree)
        + Clarity
        + Source?

Photo?

Camera?

Any?

* + - * Interface to main system
    - Dressing Simulation
      * Clothes
        + Parameter

Dimension

Elastic coefficient

opacity

* + - * + Model import from common 3D software

Easiness for company to generate their model

Interface between the mode

Standard requirement

Pixel

Format

Scale

…….

Level of reality of the clothes

* + - * Dressing
  + Sub
    - Scene
    - Pos
    - Light
    - Make up
    - Environment
      * Wind
* Requirement
  + System for generation user
    - Android: Low end CUP + GPU
    - Web : Server side computation, Low-Middle end CPU + Low end GPU
    - PC : Low-End CPU
  + Time
    - Instant / low latency
    - Good algorithm to reduce time
  + Package/Model size
    - Andriod
      * 4G
      * 5G : neglectable
    - Web/PC
      * Less concern