

HTI Major Project : Try-on Jewelry



Final presentation

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- I. Goal of our project
- II. Different apps developed
 - ⦿ Try-on glasses
 - ⦿ Try-on watch
- III. Demo
- IV. Problems with the apps and way to upgrade

I. Goal of our project

Try glasses, jewels, watches in AR

Main pipeline :

- Object tracking (face, marker)
- Anchor the object on the scene



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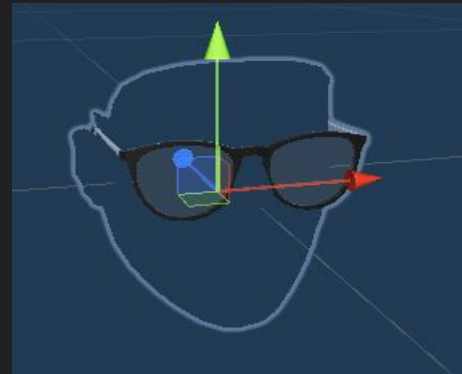
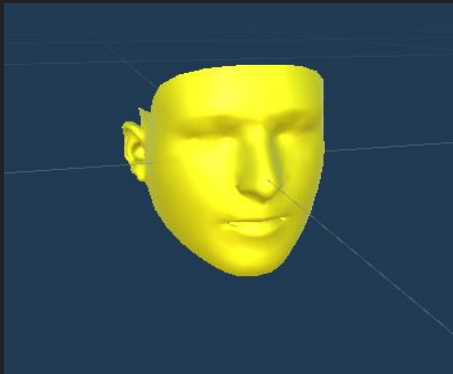
II. Try-on glasses : Main requirements

- Switch between different glasses (3 types)
- Good alignment on the face, possibility to adjust



II. Try-on glasses : How it's working

- Face detection
- Setting up the glasses on the face (for each one) (Automatic alignment when using the app)
- Adding a shader to mask part of face hidden, display face + glasses



II. Try-on glasses : Design of the app

- To switch between glasses, we need to activate one pair and deactivate all the other
- Link this functionality to Buttons with a script
- Buttons to adjust the size

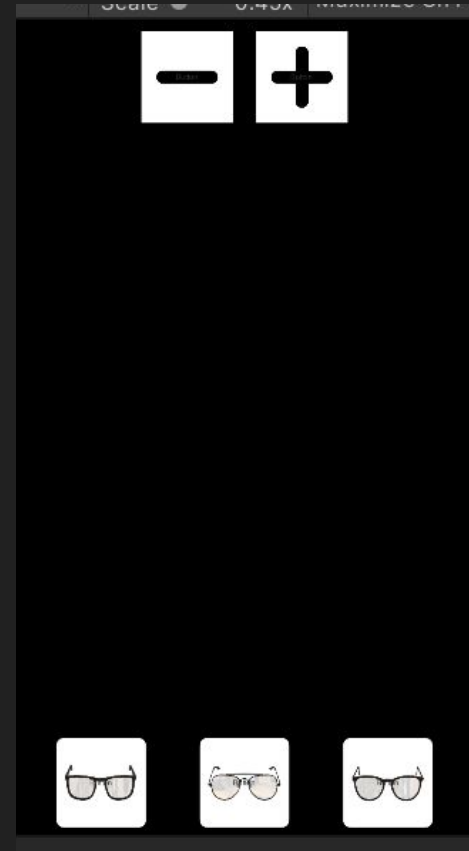


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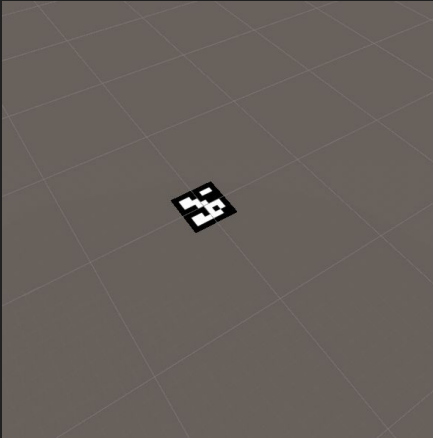
III. Try-on watches: Main requirements

- Switch between different watches and color
- Look the more realistic as possible



III. Try-on watches: How it's working

- Anchor detection
- Place the watch around the wrist
- Add a virtual wrist that will hide the bracelet



III. Try-on glasses : Design of the app

- We need buttons to switch watches
- Link this functionality to Buttons with a script
- Buttons to change the color

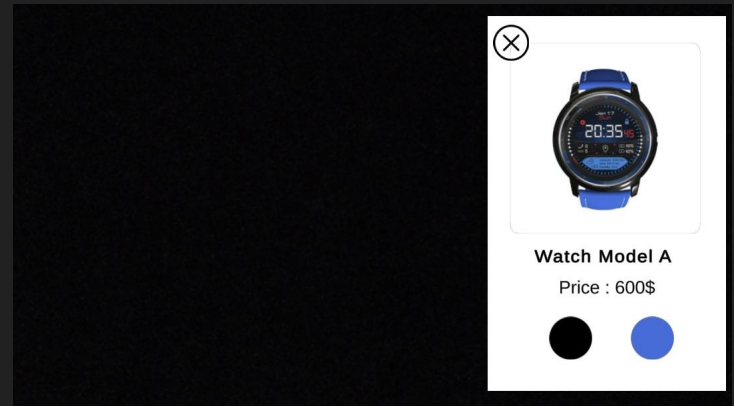
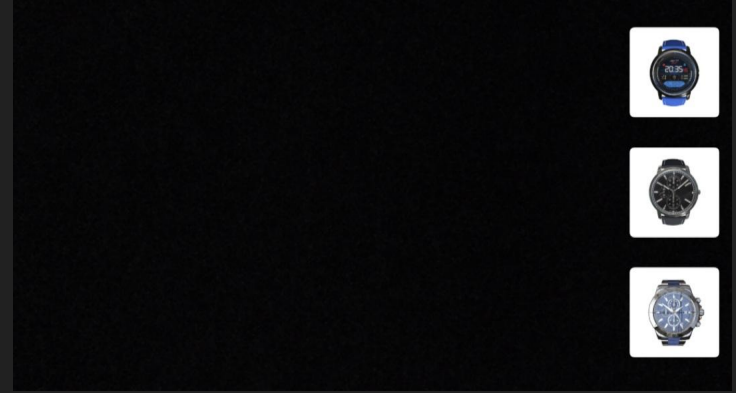


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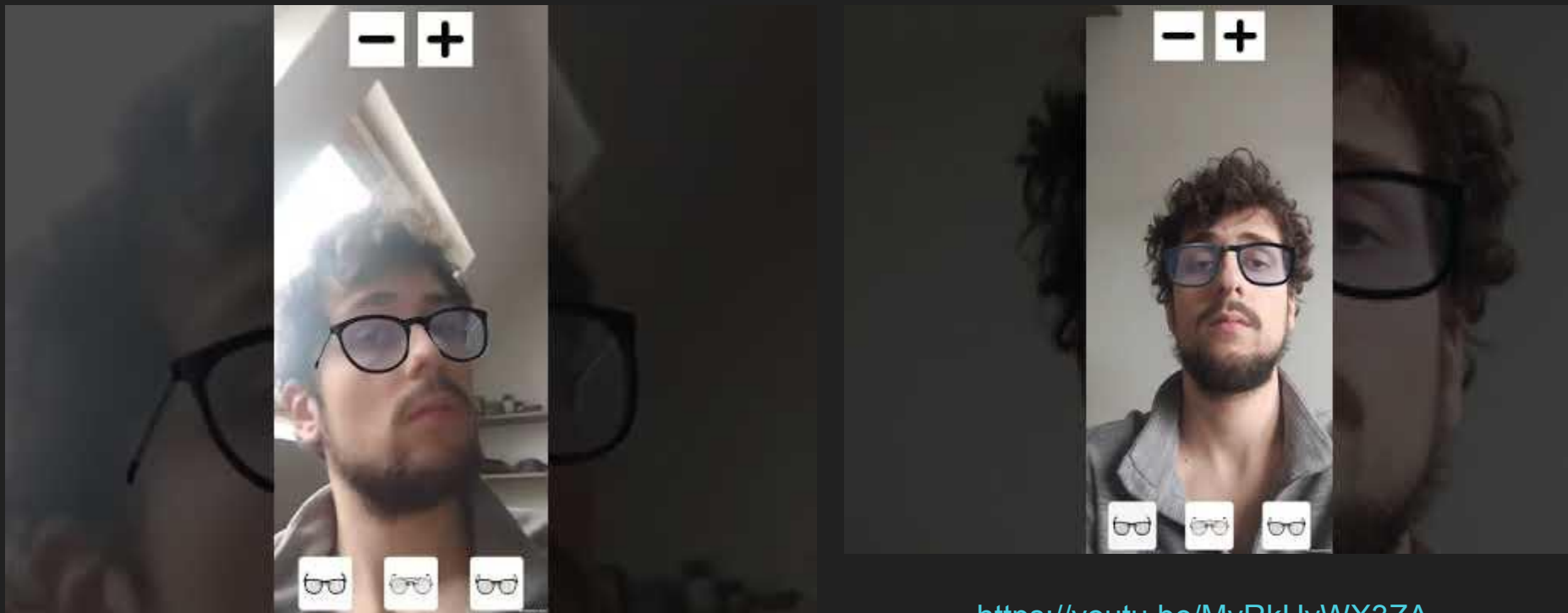
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III. demo : Watch



<https://youtu.be/mJX4iCKDId8>

III. demo : Glasses



<https://youtu.be/MvRkUyWX3ZA>

<https://youtu.be/WtsvkwOO-5I>

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IV. Problems

- Need models to work → first need to create them
- Design to rethink, buttons not easily accessible
- Alignment is not perfect for glasses and watch
- Still feels a bit unrealistic which is bad for this application
- Sensitive to lighting

IV. Problems

- Blurry camera problems for vufoia
- Need marker + still visible
- Unable to do multiple detection
- Detection distance is quite small (2 meters at most)

Thank you for your attention