Technical Features and Skill Points

- **Selection**: 1 skill point (+1 for non-standard methods, i.e., **NOT** ray-casting or virtual hand)
 - Select objects: pill bottle, pulse oximeter, vr goggles
- Manipulation: 1 skill point
 - Be able to grab a pill bottle, "pulse oximeter" from the simulated backpack.
 - Highlight compartments of the simulated backpack.
- Wayfinding: 1 skill point
- **Travel**: 1 skill point (+1 for non-standard methods, i.e., **NOT** teleport, steering by head/controller direction, etc.)
 - Pull up a map → fast travel to a new VR location, like a forest lake that feels calm.
- System Control (e.g., menu): 1 skill point (need to have at least 2 different types of widgets, such as action/toggle button, dial/slider, choice list, sub-menu, etc.)
 - Drop down list of symptoms
- Symbolic Input (e.g., text or number input) with at least 10 symbols: 1 skill point (+1 if done with voice recognition needs to have 80% recognition rate or better)
 - Additional textbox with "please enter additional symptoms seen" plus an area where the user can type their responses.
- Multi-User: 2 skill points. Link up two users to collaborate in AR or in VR.
 Each user needs to be visible for the other user as an avatar (minimum: head and hands). (+2 if multi-user across AR and VR)
- Hand tracking: 1 skill point (need to have complicated gesture more than pinching/grabbing)

We may extend this list throughout the duration of the project. We may allow skill points for other things on a case by case basis with prior instructor approval.

The final project has to be presented during our final exam slot. The agenda for presentation day will be:

- 3-4pm: video screening
- 4-6pm: science-fair style demonstrations

Your application grade will be based on your video and your demonstration. It will consist of the following components:

• Technical quality: 60% (10% per skill point)

Usability: 25%Creativity: 15%

Software requirements

Figma prototype for Drug Psychosis:

https://www.figma.com/proto/pbNXsKzmk6wHAfshxyMnLw/Jeff-Barstow?node-id=956-5236&t=h66ilwd3eeFspAKA-0&scaling=scale-down&page-id=246%3A2&starting-point-node-id=949%3A966&show-proto-sidebar=1

Slides:

https://docs.google.com/presentation/d/1nhRV1oUpZgYcHy2R2BpxPFXviHJ-kmXs9II9m4_cMHw/edit?usp=sharing

Forest Map:

- https://assetstore.unity.com/packages/3d/environments/low-poly-vegetation-kit-lite-17690
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Backpack model:

https://assetstore.unity.com/packages/3d/props/clothing/accessories/military-camo-bag-62496

Task:

Get AR origin down
Scanning ui
Dropdown ui
Simulate backpack in AR scene
Arrow pointing to backpack (wayfinding)
☐ Make backpack compartments and spawn points for
☐ Pills
pulse oximeter
☐ Headset
☐ Spawn objects if the user selects them
Forest Scene
Make forest map
Teleport to different forest places

```
backpack + unconscious body
scan body
scan output: psychosis
buttons to input symptoms
submit symptoms (just print out symptoms)
put oximeter on body
put pills on body (?)
put vr headset on body (last -> transition to forest scene)
forest scene
breathe in/breathe out text
pull up big map with buttons
teleport to locations
end?
```