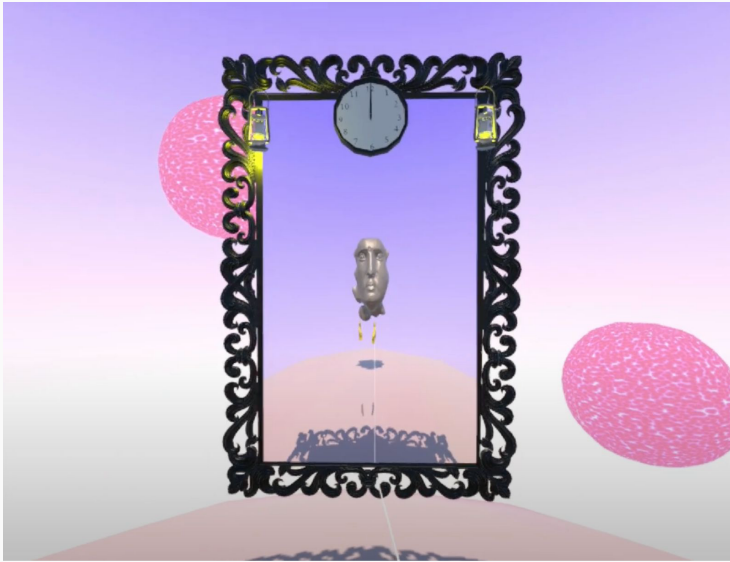


# Concept Overview



Set on an abstract planet after an accident, this VR experience follows a user with amnesia who must complete tasks to recover memory and identity. As they navigate through their forgotten world, each task brings them closer to reconstructing who they once were and what they have lost.



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# Goals



The project aims to create an immersive, narrative-driven experience that merges storytelling with exploration and achievement, engaging players through discovery and character progression.

# Timeline

## Week 1

### Ideating

Conceptualizing visuals and creating a story to follow. Setting goals for what the user should gain from the experience.

Bringing in Annie's Blender scene to create the base planets

## Week 2

### First Phase

Creating design elements in Blender and bringing them into Xcode

Creating the entire visual scene and adding text popups/directions in Unity

## Week 3

### Testing

Using the headset to refine UI/UX elements and adding detail to improve user navigation and flow

## Week 4

### Final Phase

Adding audio

Final testing of the entire experience

# Team Task Distribution

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01

Katie: Narrative & Audio

02

Cici: Blender

03

Annie: Blender

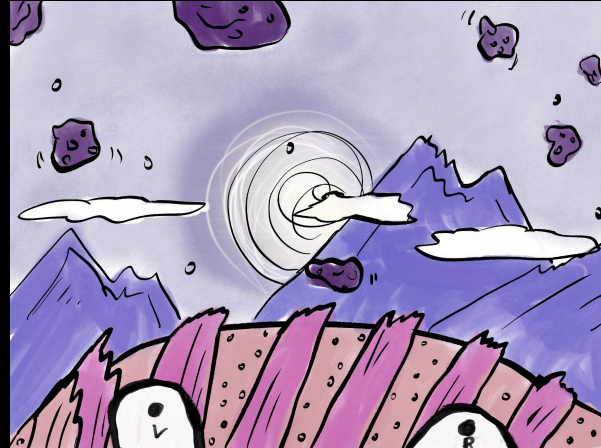
04

Olivia: Unity

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# Project phase: Ideation

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Deciding on color scheme and setting

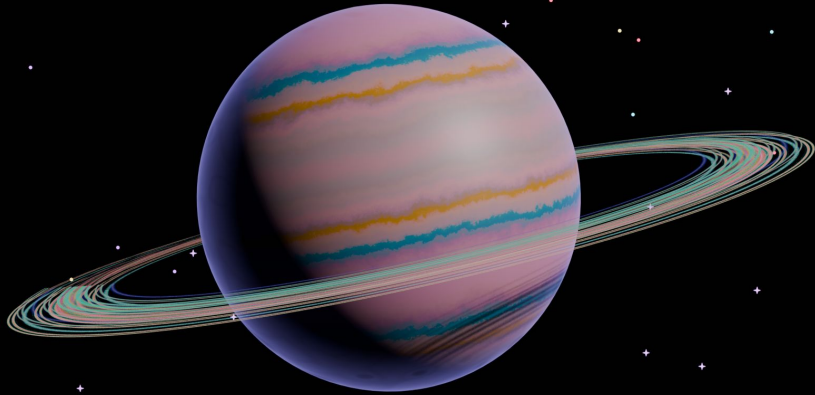
Narrative writing

Scene sketching and marking down key interactions such as grabbing, pointing, or pop-up interactions

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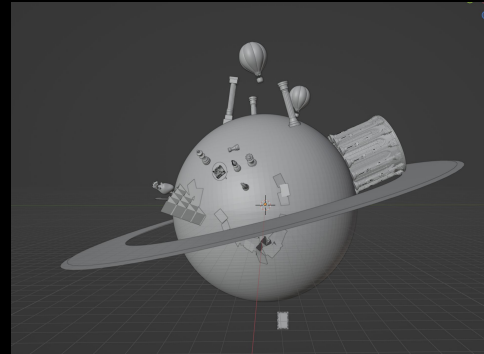
# Project phase: Design Elements

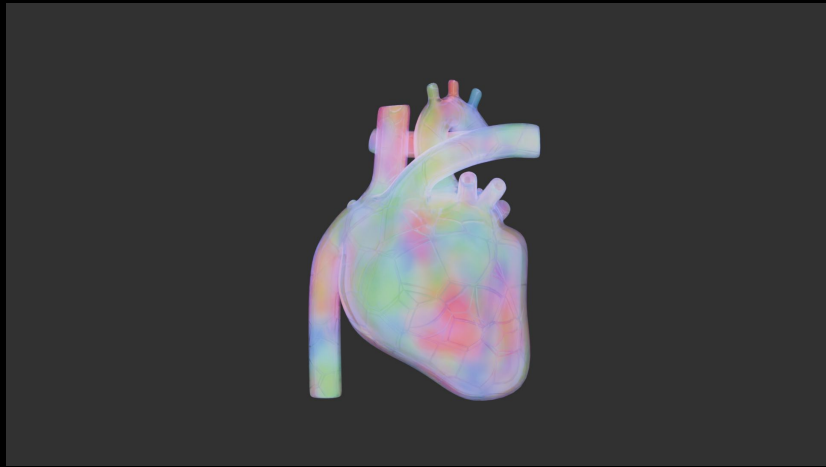
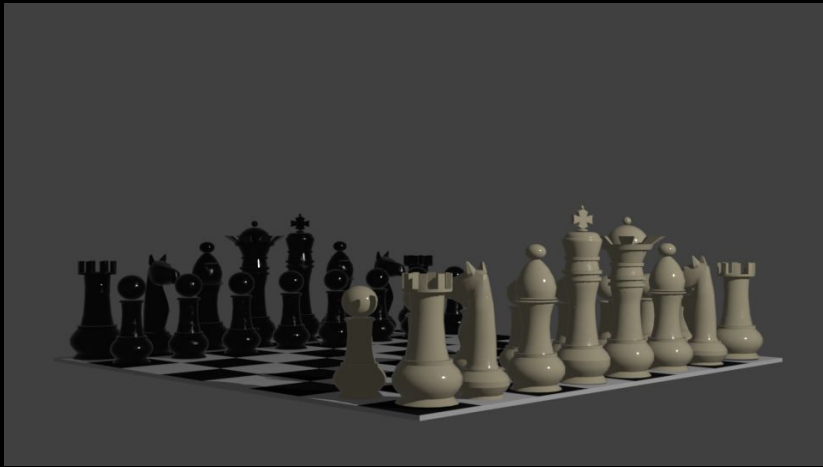
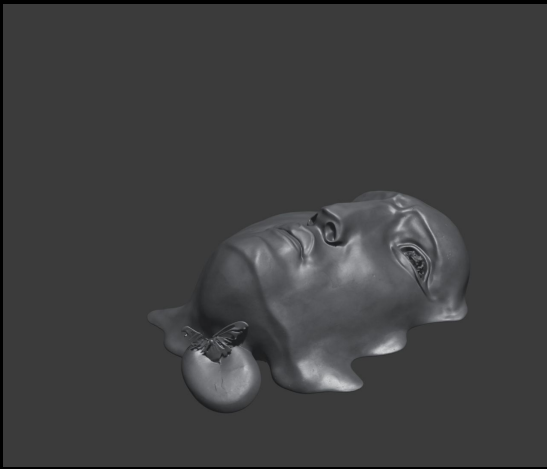
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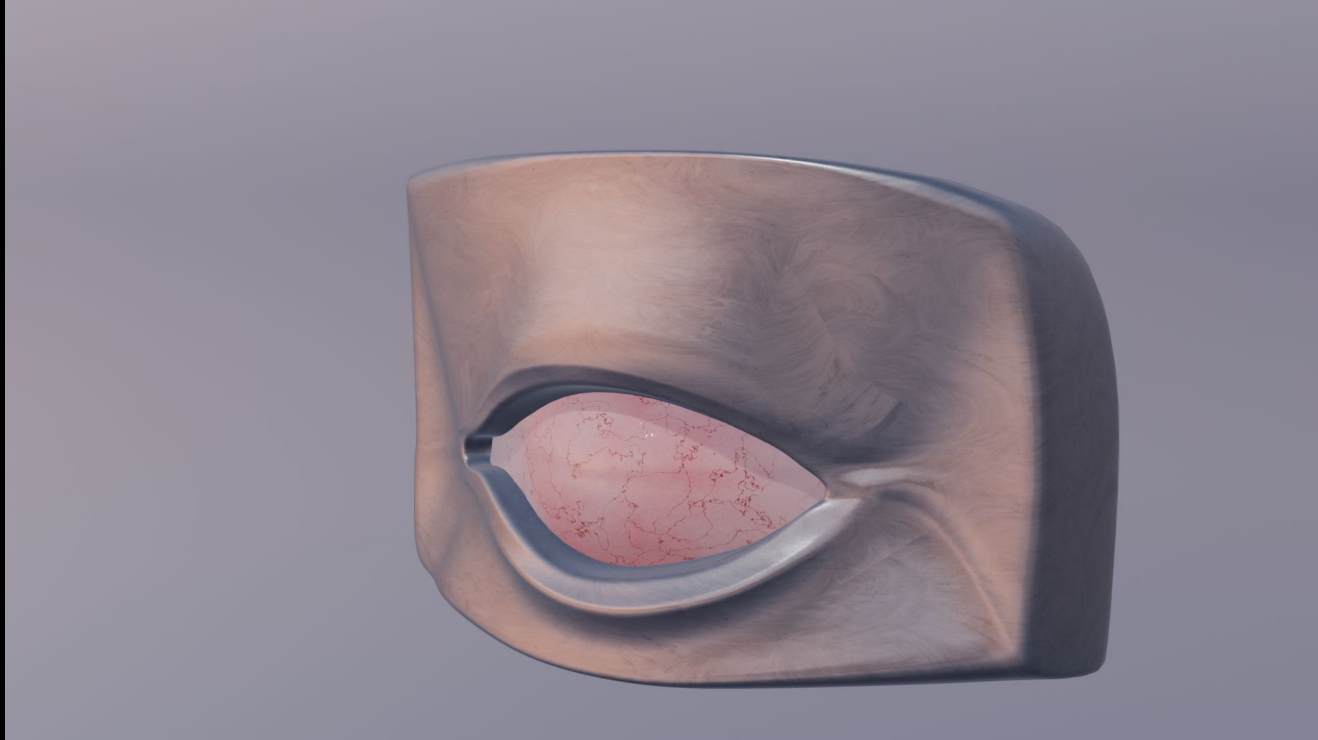


Technical tasks: modelling the  
environmental scene & objects

Process & Software: Blender







# Project phase: Build with OpenXR in Unity

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## Process & Software:

- Unity and Meta Quest 3S
- Learning to cast from editor to headset

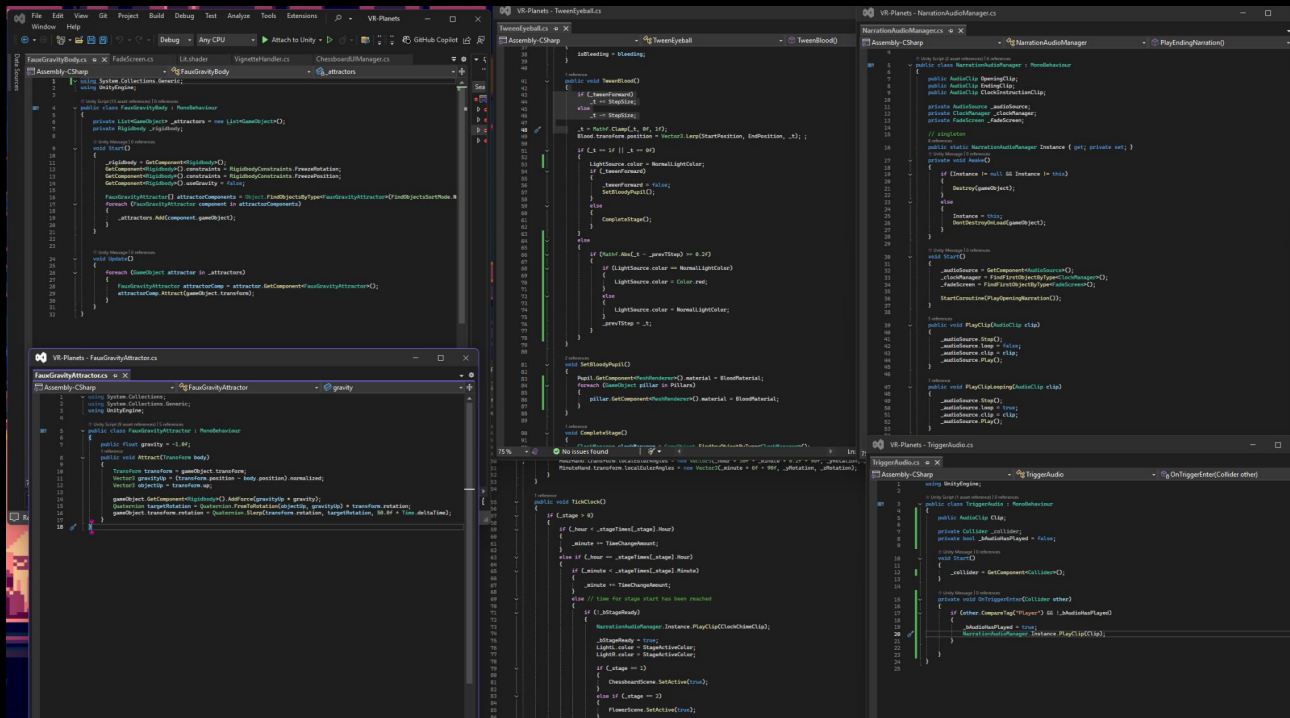
## Technical tasks:

- Gameplay features
    - Faux planetary gravity, game state manager, animations, post-processing/shaders, SFX/trigger volume audio
  - XR features
    - Near-far interactors
    - Locomotion with Vignette
    - Grabbable objects
    - Sockets
-

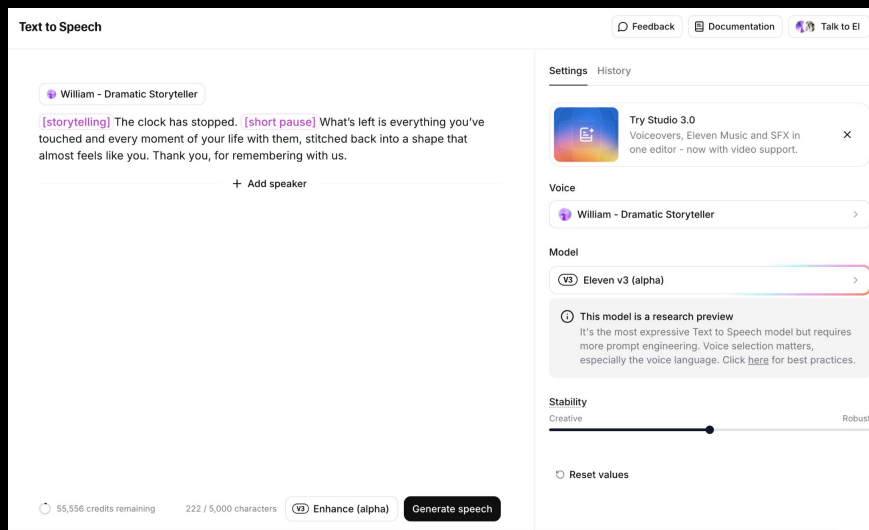
# Script

## 13 custom MonoBehaviors (on top of OpenXR's scripts)

- Game state + sequencing
- Audio planning
- Tweening positions/colors for animations
- Billboarding UI elements
- Custom inputs



# Project phase: Audio



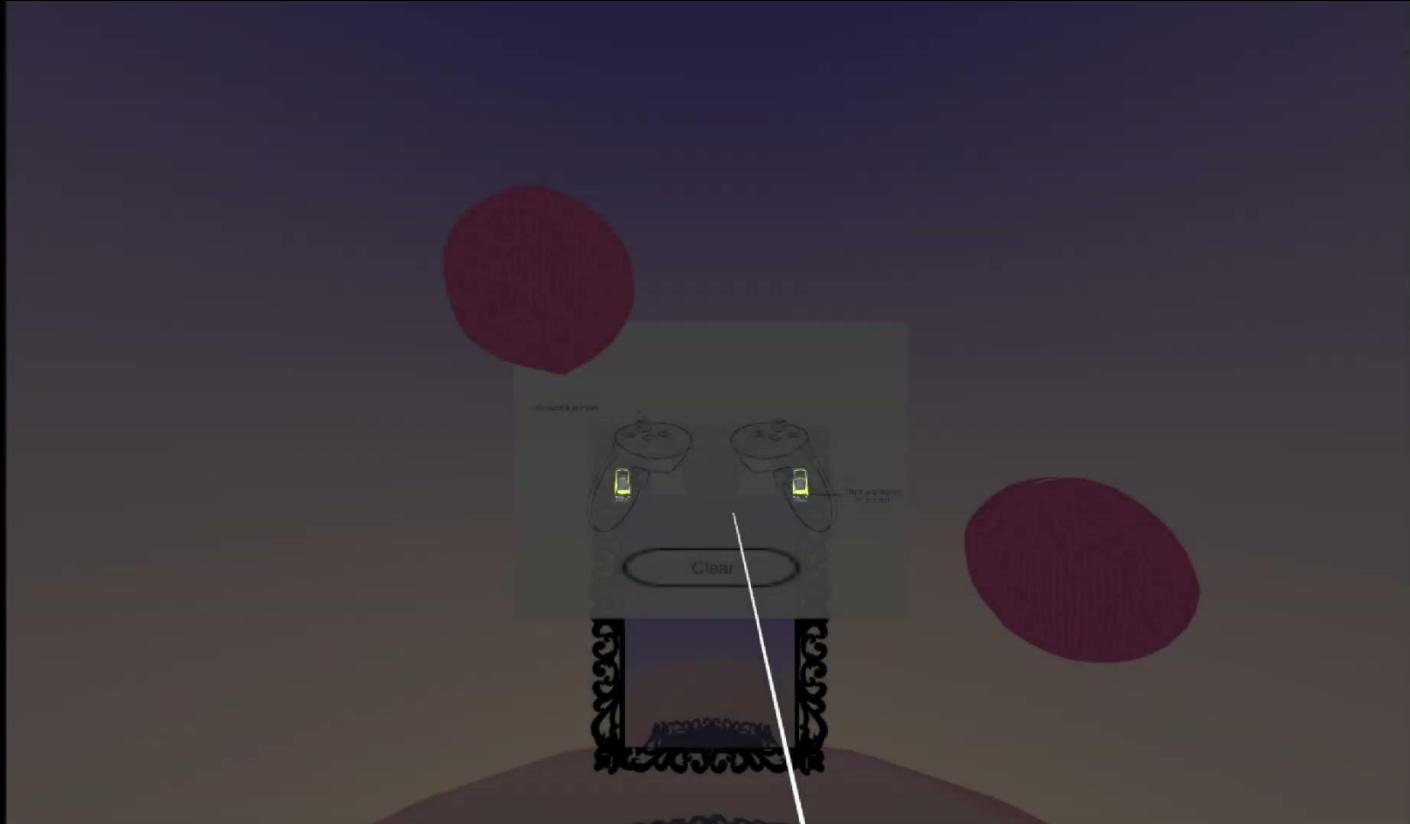
## Process & Software:

- Elevenlabs.io
  - Narration AI generated
- Sourced sounds from online sound libraries

# Project phase: OnBoard



# Final Experience



# Challenges

01

A lot of the objects either looked weird or different or the texture wasn't right when imported to Unity from Blender. I had to bake the texture or make the model less complex to make sure everything looked right in Unity before handing off to Olivia.

02

We developed our narrative as the project progressed. In the beginning, we imagined an adventure-themed journey that simply guide audience through planets and objects. But then we realized that constructing an experience needs a strong anchor to resonate with users, so we found the idea of tracing back memories and assigning meanings and timelines to those objects. This also helped us to give each object a clearer function and build up a hierarchy of storytelling.

For example, the clock iterated from only being purely aesthetic to a button of reset and move on, helping us to explore more interactivity with the environment such as tuning the ambient from bright to dark to showcase a day – a life of a person. This makes this experience more understandable and fun to play with rather than just wandering around aimlessly.

# Takeaways

01

A lot of time was spent figuring out how to customize Unity's OpenXR inputs to our specific mechanics. We also had to tune values to the time step of the headset, which runs at a slower frame rate than the computer.

02

When Professor Becker tested the headset, we saw how crucial guidance and audio cues are in shaping the user's experience.

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Thank you!

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