

# (Un)Rest

Level Design Portfolio

# 1

# Ideation & Planning

Concepts, Inspirations,  
Research, and Theory

# Brief & Concept

This portfolio contains research, pre-production, implementation, and evaluation for my level, *(Un)rest*.

My chosen brief is *Psychology*.

The player plays as a person suffering from insomnia and hallucinations caused by their sleep deprivation. They must wander through their house and get ready for bed as the rooms around them shift and change locations. They experience auditory and visual hallucinations in the form of murmuring, shadows appearing in the corners of the rooms and figures appearing behind the windows.

The main goal is to make the player experience the feelings of unsettling, wary, and disturbance while performing tasks that are common practice to the player to hopefully partially imitate the experiences of what it is like to go through sleep deprivation inflicted hallucinations.

I have decided to go ahead with this idea as I have previously studied psychology in school and psychological horror is one of the genres of games I most enjoy playing and studying.

# Early Concepts

Before deciding on my concrete concept, these are some ideas I was exploring:

## *Visible Portals vs. Invisible Triggers*

- Initially considered using visible, seamless portals (similar to *Portal*) to create the non-Euclidean geometry.
- Decided to use hidden triggers instead as it played better into the simulation of visual hallucinations and unreliable memory of the player character

## *Large Map vs. Dense Loop*

- Considered creating one large map that included copies of rooms and long hallways
- After looking through some of my inspirations, I realized that games similar to mine usually rely on the anxiety cause by repetition and claustrophobia, so I reduced the scale and went for a smaller but denser layout that forces the player to backtrack

# Key Inspiration & Analysis

<i>Layers of Fear (2016)</i>	Instead of using complex portals, I will analyse how <i>Layers of Fear</i> uses simple triggers to swap room distinct assets when the player is not looking. This will help simulate the protagonist's unreliable memory due to sleep deprivation and the uncanny valley phenomenon.
<i>P.T. (2014)</i>	My level requires the player to perform tasks that are common practice (getting ready for bed) and <i>P.T.</i> proves that you do not need a large map to create "unsettling" feelings. I will use this inspiration to keep my level size small but dense with detail, forcing the player to backtrack through the same hallway and rooms.
<i>Superliminal (2019)</i>	My goal is to make the player feel the disturbance of insomnia; thus, I will analyse how <i>Superliminal</i> visually represents the breaking mind without using standard "horror" tropes (like blood or jump scares), implementing figures appearing behind windows and shadows instead.
<i>The Uncanny</i>	Freud's theory is that horror is most potent when something familiar becomes strange or foreign. By using a standard house setting where the player wanders to get ready for bed, I am establishing the <i>familiar</i> . The shifting rooms and murmuring introduce the <i>strange</i> , creating the uncanny experience.

# Research & Theory

## The Pathology

### *Insomnia and Sleep Deprivation*

= Prolonged sleep deprivation leads to the brain's inability to filter sensory input, thus causing *perceptual distortions*

Pareidolia is a phenomenon wherein the human brain tends to "perceive likenesses on random images – such as faces animals, or objects" as part of our survival instincts (Psychology Today, 2023). When sleep-deprived, the brain's "filter" begins to fail, causing it to misinterpret the visual data it receives as a threat (e.g. mistaking a coat rack for an intruder).

Hypnagogic hallucinations are hallucinations that happen as a person is falling asleep that up to 70% of people experience at least once in their life. Up to 34% of hypnagogic hallucinations are auditory that may involve "words or names, people talking, and environmental or animal sounds" (Clinic, 2022).

# Research & Theory

## The Space

### *Non-Euclidean Level Design*

= Non-Euclidean geometry breaks down the real-world rules of plane and solid shapes including, but not limited to, parallel lines remaining parallel, rooms having fixed coordinates, and light affecting shadows.

The 'cognitive map' hypothesis "proposes that brain builds a unified representation of the spatial environment to support memory and guide future action" (Epstein et al., 2017) By using non-Euclidean geometry in the level design, the player's cognitive map is purposefully disrupted to create a sense of unease, helplessness, and confusion, feelings which fall into the game's main goal for player experience.

Games such as *The Stanley Parable* and *Antichamber* use impossible (i.e. non-Euclidean) spaces to force the players to question their own perception of the environments around them.

# Research & Theory

## The Emotions

### *The Uncanny*

= The Uncanny is Sigmund Freud's theory that suggests true horror comes for something familiar suddenly becoming unfamiliar

"Uncanny Valley" usually refers to "the feelings of unease or revulsion that people tend to have toward artificial representations of human beings" (Dictionary.com, 2023). In architecture however, it can also refer to "the disconcerting effect that occurs when we can't quite sort out the relationship of an image to the world." (Archinect, 2018) In the level design this can be achieved with silence where there should be noise, doors leading to nowhere, or hallways looping back.

# Research & Theory

## The Logic

### *Unreal Engine Mechanics*

For the level design I have used the following YouTube video tutorials along with the class tutorial videos provided by the lecturer to help me achieve the aforementioned player experiences and psychological phenomenon using Unreal Engine mechanics:

#### 1. Door Opening

*Gorka Games (2022c). Learn How to Open and Close Doors in Unreal Engine 5. Youtube.com. Available at: <https://www.youtube.com/watch?v=07vmp73ue4Y>*

#### 2. Pick-Up System

*Gorka Games (2022b). How to Make a Simple Pick Up System in Unreal Engine 5 - Beginner Tutorial. Youtube.com. Available at: <https://www.youtube.com/watch?v=qVtoemgM7wI>*

#### 3. Interaction Prompt

*Gorka Games (2022a). How to Make a 3D Interaction Prompt in Unreal Engine 5. Youtube.com. Available at: <https://www.youtube.com/watch?v=VU7jdKPdjLw>*

# 2

# Pre- Production

Mood Boards, Sketches,  
and Flow Diagrams

# Mood Boards

## Visual Style & Colour

Trying to balance the feelings of familiarity and unease to create the slightly disturbing, uncanny valley feelings for the player

“Domestic Horror”

- Aiming for “uncanny valley”, slightly dated that feels “off”

Colour Palette

- Browns, beiges, dark reds – warm but stifling

Visual Distortion

- Hypnagogic visual hallucinations



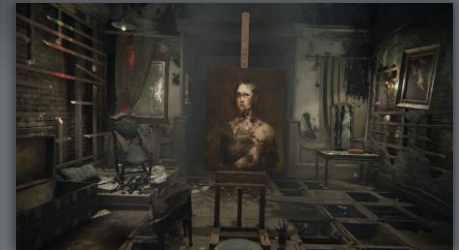
(Brink, 2011)



(University of New South Wales, 2016)



(Steamcommunity.com, 2023)



(Bloober Team, 2018)

# Mood Boards

## Architecture & Layout

Aiming to make the otherwise familiar environment of a standard home feel unwelcoming and break the player's cognitive map

Non-Euclidean Architecture

- Impossible geometry (door leading to a room bigger than the house, hallways looping etc.)

"Familiar" Layout

- Standard 1900s and 2000s homes

Claustrophobia

- Narrow hallways, low ceilings, cramped floorplans



(Escher, 1938)



(Pillow Castle, 2020)



(Escher, 1960)



(VELUX Skylights, 2021)

# Mood Boards

## *Lighting & Atmosphere*

Create the feelings of unease, as if something is hiding behind every corner by adding clear examples of pareidolia, the player's brain will continue to create further instances on its own, as it is expecting to see shadows and figures in ordinary objects

### Harsh Contrasts

- Low light, flickering lights
- Single light source in a dark room

### Shadows

- Pareidolia



(Sensebe, 2014)



(roddiemacdonald8, 2023)



(Becker, 2019)



(Young, 2023)



(Felicette\_space\_cat, 2022)

# Mood Boards

## *Mechanics & Props*

Further help create the feelings of familiarity while still feeling a bit "off". Also allow the player to keep a track of the objects they are interacting with

### The "Routine" Objects

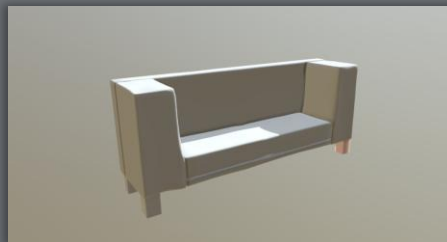
- Lunch, books, toothbrush, t-shirt, desk setup, washing machine

### Item Icons

- Icons for the above mentioned

### Low-poly Furniture

- Basic home furniture (couch, bookshelves, kitchen counters, desk, wardrobe, etc.)



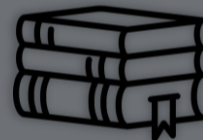
(ankitpassi, 2018)



(lucaboecat, 2023)



(Karolina Renkiewicz, 2021)



(mikan933, 2020)



(Freepik, 2019)



(Freepik, 2021)



(angicon, 2024)

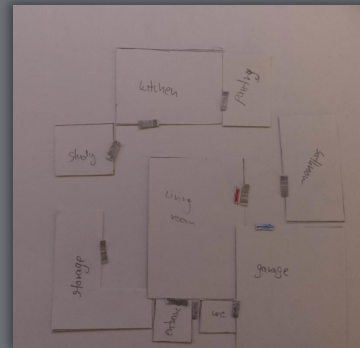
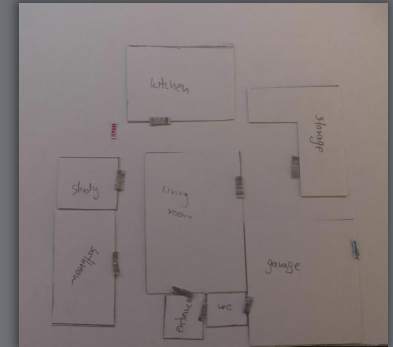
# Sketches & Iterations

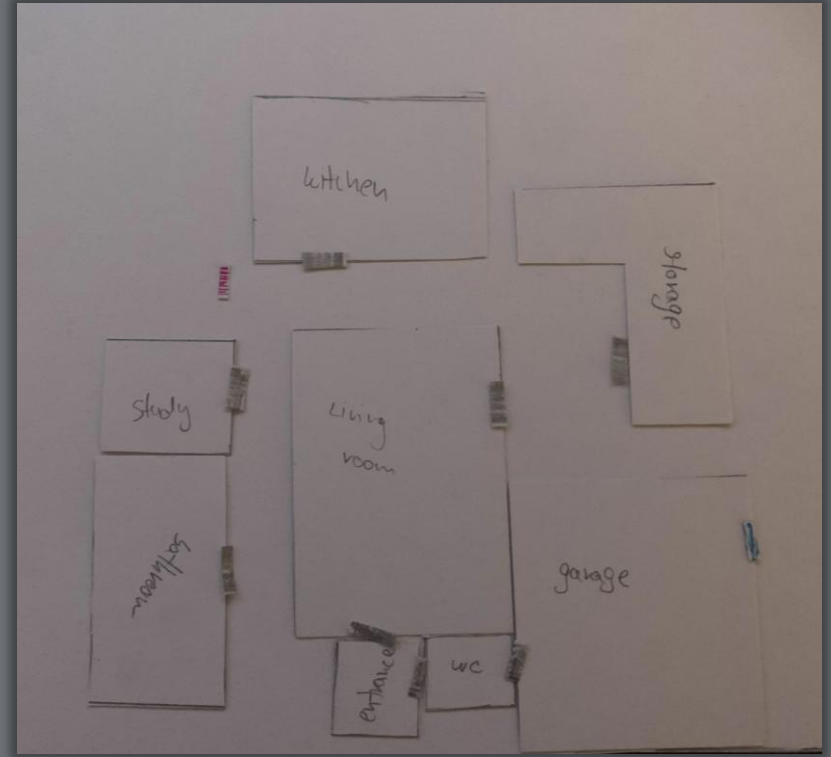
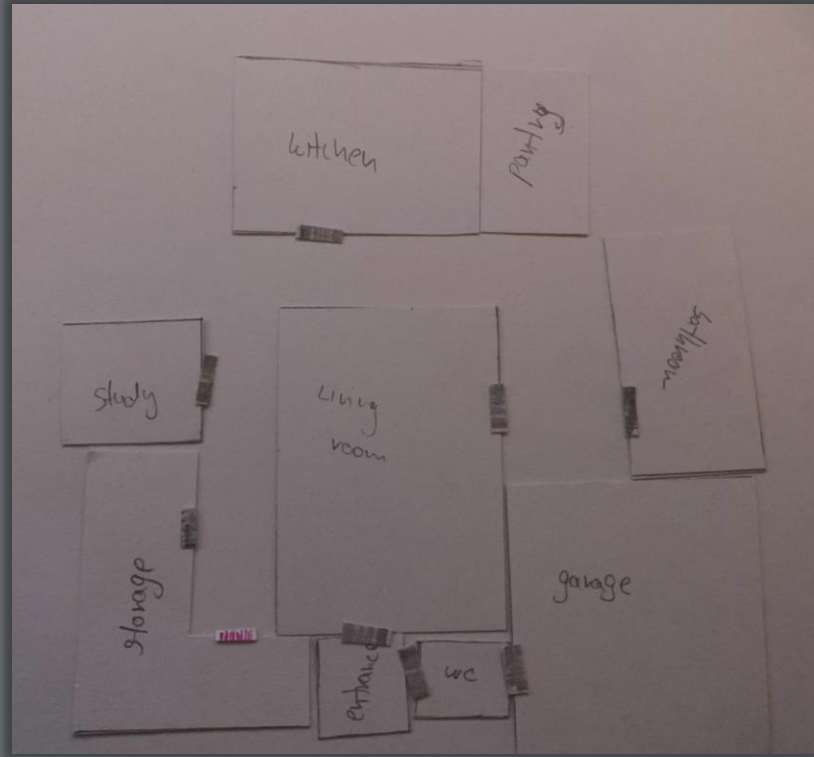
## 1

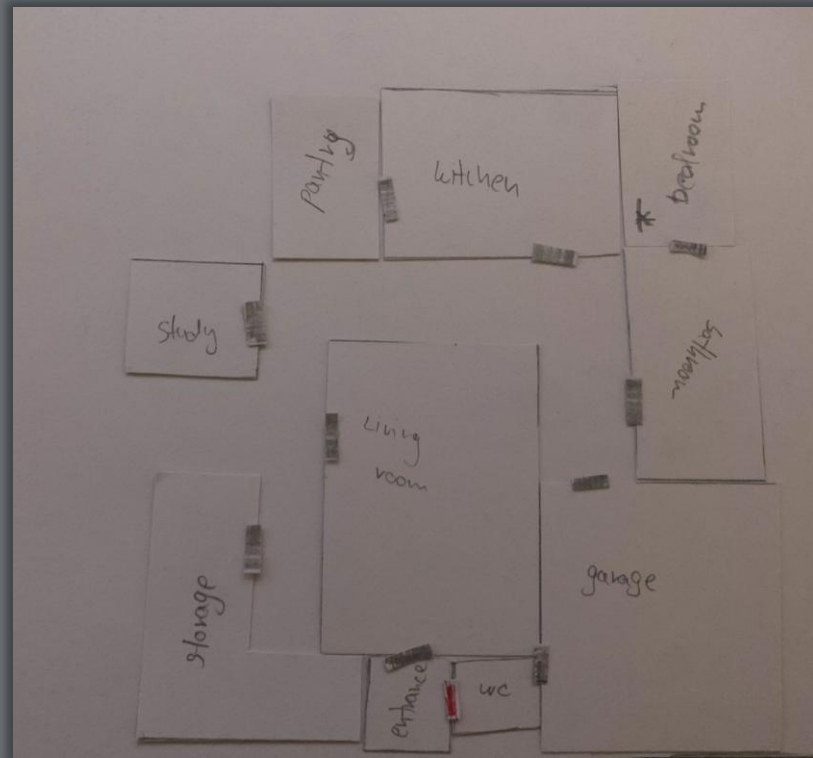
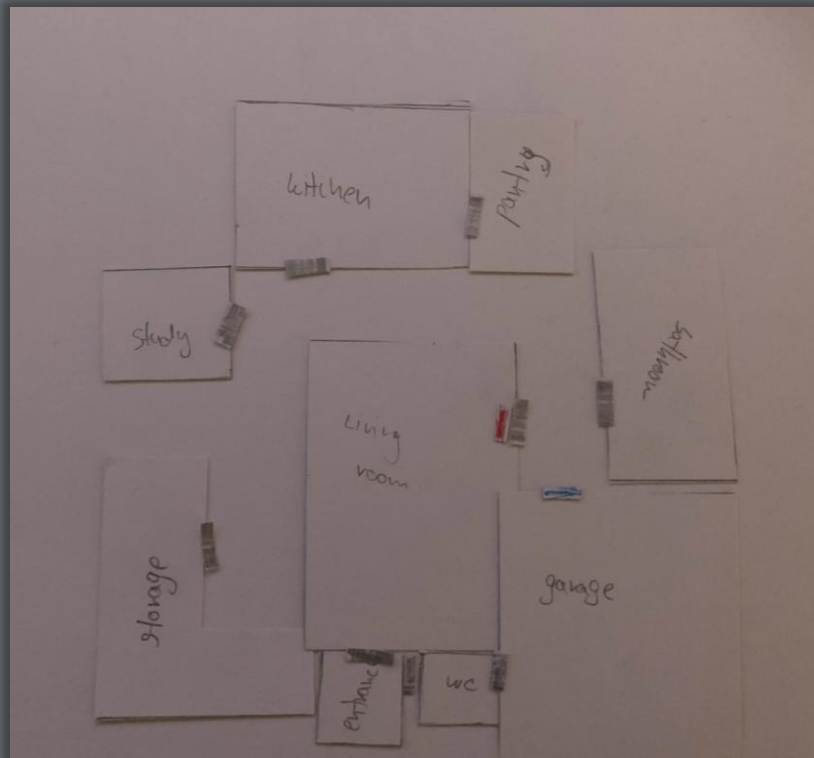
For the first iterations I have cut out the individual rooms out of paper and arranged them together into four different layouts.

I chose this method as it allowed me to try out many different layouts before settling on the ones, I liked the best.

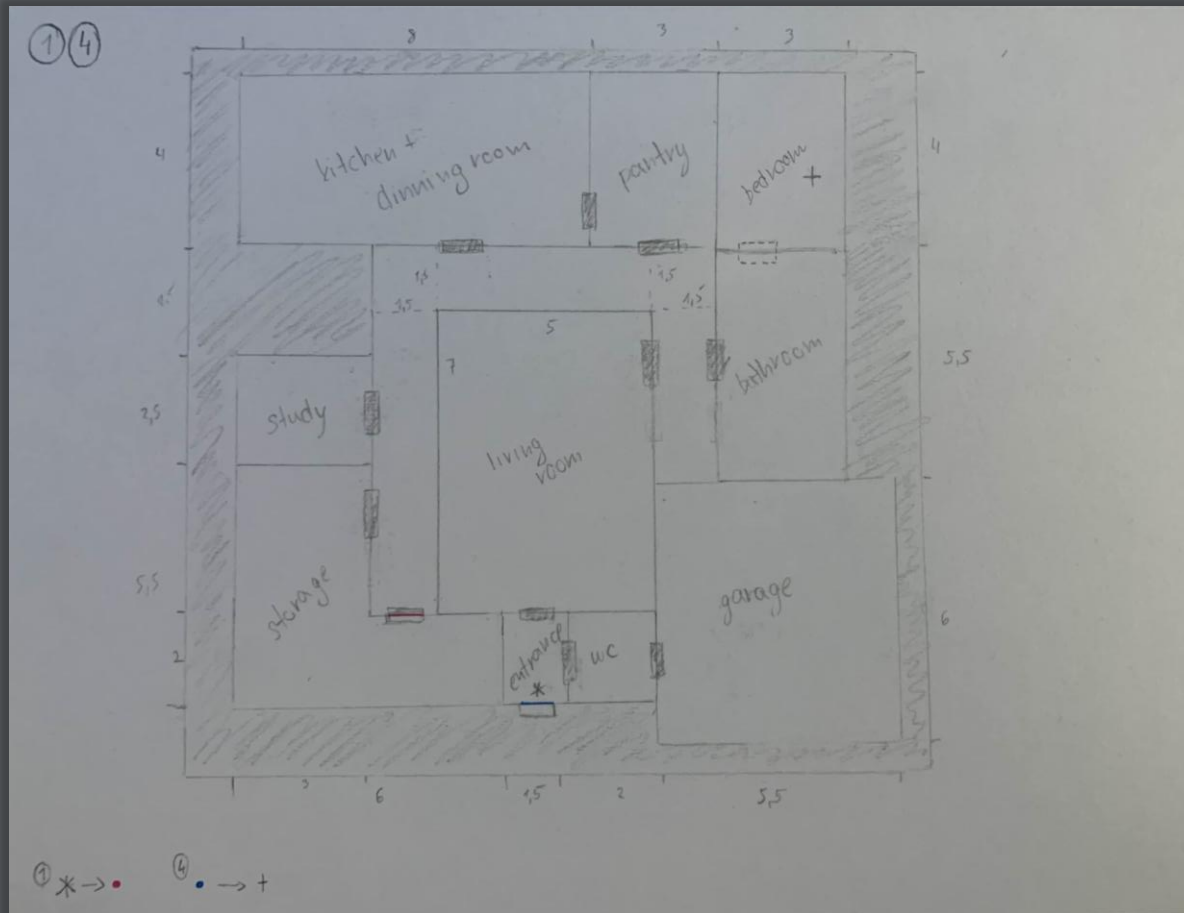
At this point, I have only decided on the size ratio of each of the rooms, as opposed to concrete measurements, as I wanted to wait and see how everything looks in Unreal Engine first before making solid decisions.





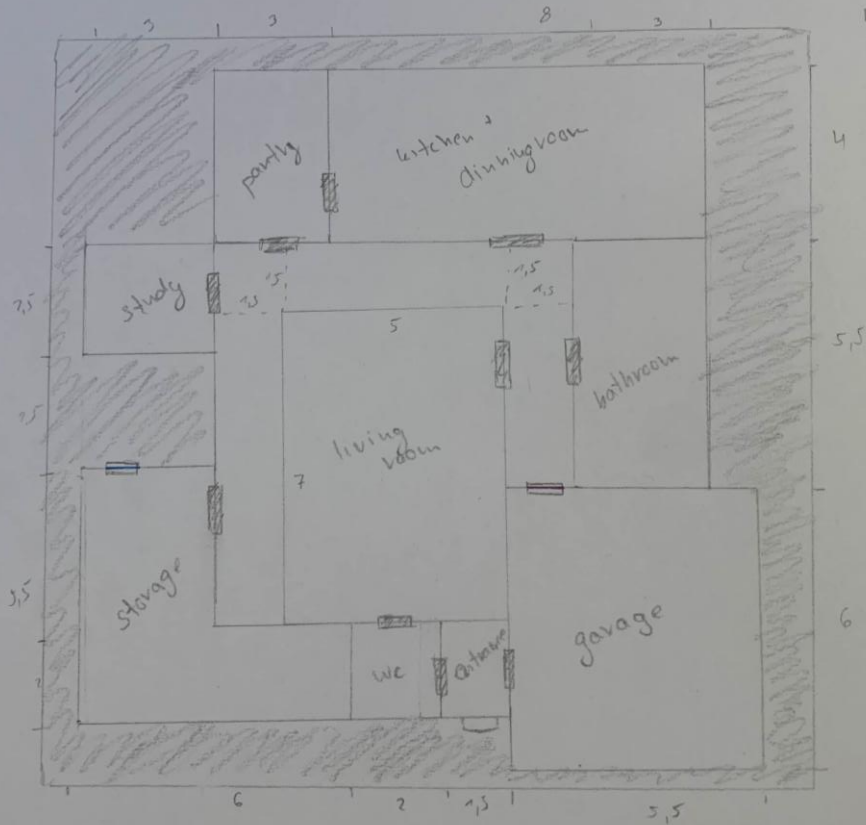








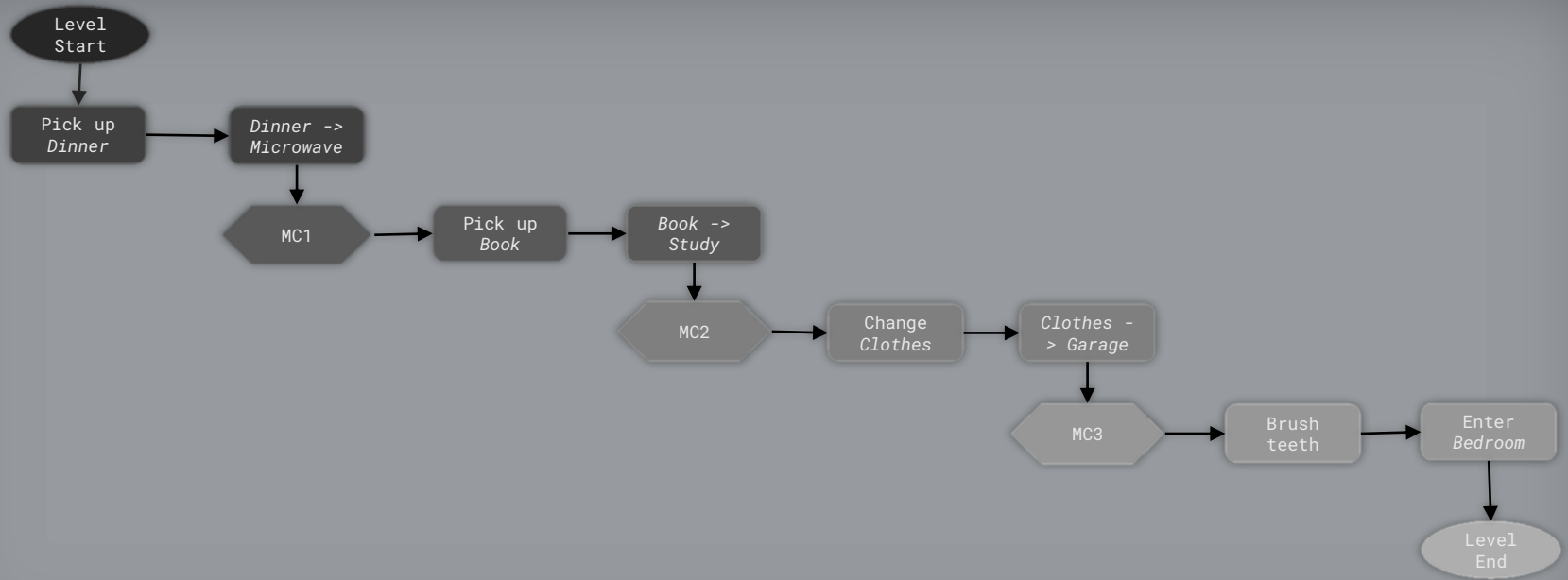
3



storage & bathroom  
pantry →  
pantry & kitchen  
garage ↓  
wc & entrance  
study →



# Flow Diagram



\*MC = map change

# 3

# Production

## Blockmesh and Testing

# Blockmesh

## Stage One

= *General Layout & Scale*

Using basic primitives (cubes, planes) to define the level layout of the first map, establishing correct room sizes, hallway widths, and ceiling heights, adding blockouts for bigger furniture, essential points etc.

## Stage Two

= *Fine Details & Functional Objects*

Adding more detailed blockouts (shelves, decorations etc), adding lighting using lamps and ceiling lights

## Stage Three

= *Visual Readability & Colour Coding*

Adding colours or textures to surfaces, cleaning up geometry, finishing mechanics

## Stage Four

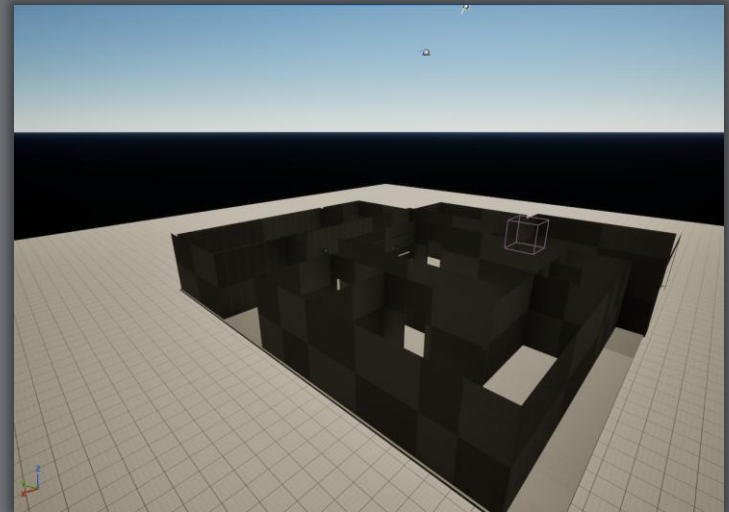
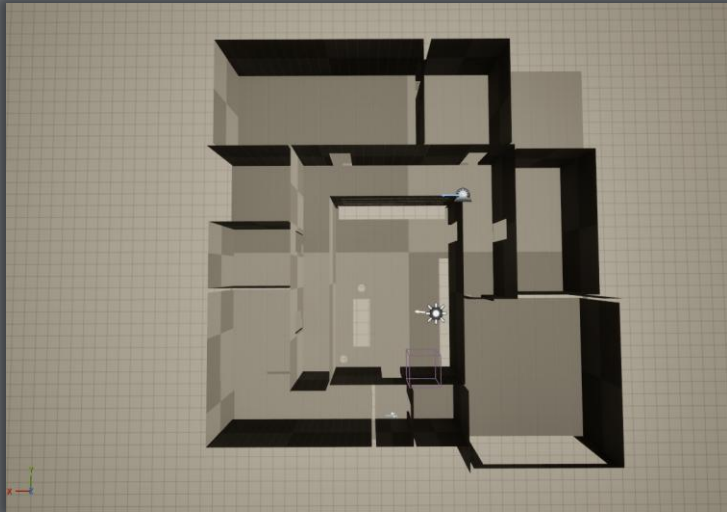
= *Concrete Layout & Playthrough Experience*

Copying the first map layout and mechanics to create the rest of the map, and adding transitions between maps

# Blockmesh

## Stage One

- Focusing on creating a claustrophobic layout with tight hallways and semi-uniform room scales



# Blockmesh

## Stage Two

- Using the engine's built in geometry shapes to create low-poly furniture, keeping everything as generic as possible to allow the players to imagine themselves living in the house (building up the feeling of familiarity)



# Blockmesh



# Blockmesh

## Stage Three

- Using mainly neutral and warm tones for the furniture and details, sticking to strict palettes and reusing colours and textures to “blend” the rooms together (will make it easier to confuse the players by moving the rooms around)



# Blockmesh



# Blockmesh

## Stage Four

- Copying the first map to create three more and moving the individual rooms around, for map four added a bedroom (game end), kept everything else intact



# Testing

## Round One

= conducted in October during the grey boxing and blockmesh stage one and two

*Area:* restricted to map #1 only, at this point the environment consisted of only basic shapes and low-poly furniture blockouts without any detailed materials

*Mechanics:* testing basic navigation and the door opening mechanic, primarily looking for feedback on the “claustrophobic” layout and checking that the sizes of rooms and furniture were realistic relative to the player character

*Tester Task:* “Attempt to navigate from the Entrance to the Kitchen, then Garage, then Storage room. Interact with as many doors on your way as possible to check if they open and don’t clip into geometry.”

# Testing

## Round One

### *positives*

- The "claustrophobic" layout with tight hallways successfully created a sense of unease
- The non-linear room structure disrupted the tester's cognitive map

### *negatives*

- The player character got sometimes stuck on doors that open towards them
- The player height and the doorway height felt disproportionate to the rest of the map

### *changes*

- Adjust the line trace length for the interaction prompt for the doors, as players had to stand too close to them to trigger them
- Make the player character 50% taller and heighten and widen the doorways

# Testing

## Round Two

= conducted in November during blockmesh stage three and four

*Area:* the full map, including the transitions between maps #1, #2, #3, and #4, already included all materials and lights

*Mechanics:* testing teleportation mechanic between the maps, the pickup/ put down mechanic and audio asset volumes

*Tester Task:* "Complete the full 'get ready for bed' routine. Report any bugs you think you have encounter."

# Testing

## Round Two

### *positives*

- The neutral and warm colour tones successfully blended the rooms, making the "teleport" mechanic smoother and more confusing for the tester
- The background audio (whispers) effectively increased tension

### *negatives*

- The "Game End" fade-to-black happened too abruptly, breaking the immersion
- The 'unlocking door' audio was too quiet, making the players confused as to how to progress in the game if they missed the on-screen text

### *changes*

- Increase the duration on the "Start Camera Fade" node from 1 second to 3 seconds
- Lower the volume of the background audio and increase the 'unlocking door' audio

4

# Scripting

Mechanics and Systems

# Mechanics

## *Interaction Prompts*

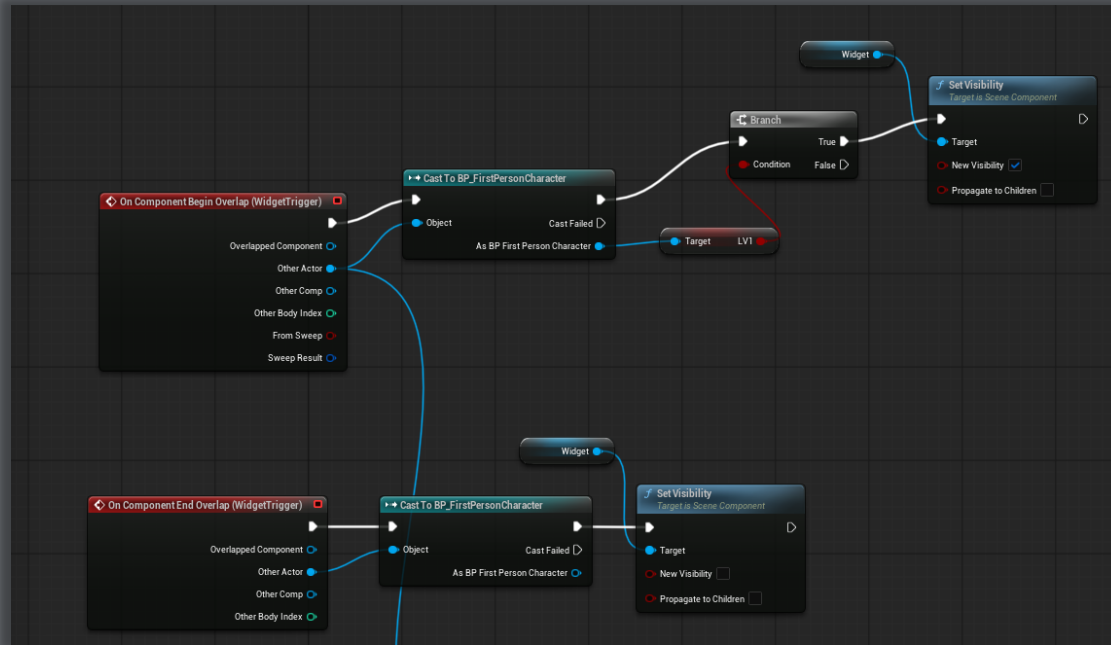
= Guides the player through the environment by visually signalling when they are within range of an interactable object (doors and items)

The system uses *On Component Begin Overlap* and *On Component End Overlap* events to detect the player's proximity to specific actors (doors, items).

Upon overlap, the blueprint casts to the *BP\_FirstPersonCharacter* to ensure it is the player triggering the event.

It toggles the visibility of a *widget* (different for each actor) on the player's HUD. The visibility is set to true when entering the *WidgetTrigger* and false when leaving, ensuring the screen remains uncluttered

# Mechanics



(Gorka Games, 2022a)

# Mechanics

## *Door Opening*

= Provides a standard method of movement between rooms, makes the level more claustrophobic

The interaction is initiated by the player pressing a specific key (Input Action 'F'), which fires a *Line Trace By Channel* from the *First Person Camera* to detect objects in front of the player.

The system checks the hit result for a specific actor tag ("*Door*") to prevent the script from running on non-door objects.

Instead of snapping the door open instantly, a Timeline node (*OpenDoorTL*) is used to smoothly update the door's rotation over time. A Lerp (Linear Interpolation) node calculates the rotation between 0 and 90 degrees.



# Mechanics

## *Pick Up*

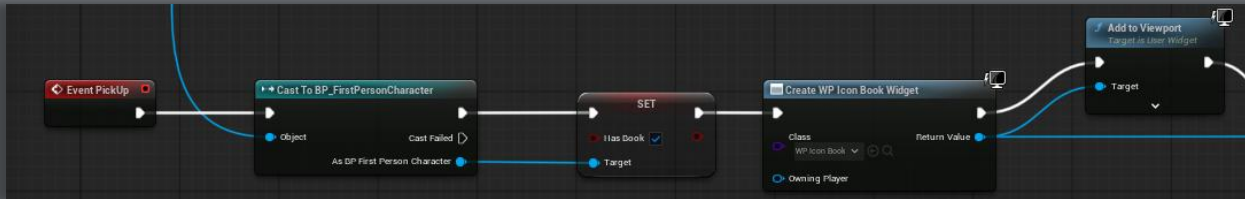
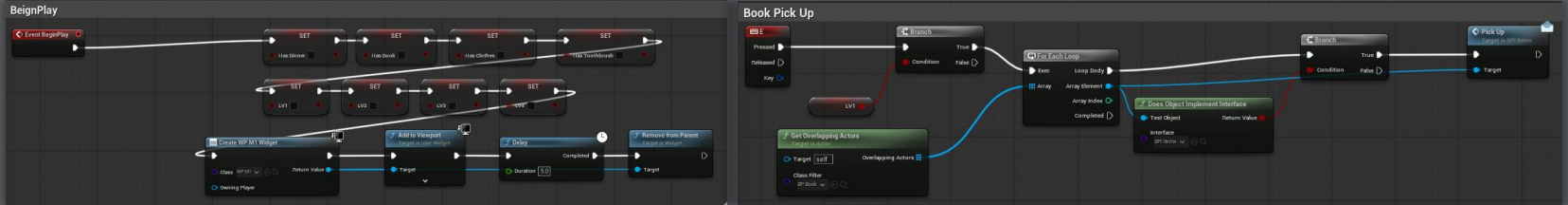
= Manages the inventory system, allowing the player to collect essential items (Dinner, Book, Clothes) required to progress

The script utilizes boolean variables (e.g., *Has Dinner*, *Has Book*) to track the player's inventory state.

Upon a successful pick-up event, the system creates a specific UI widget (e.g., *WP Icon Book*) and adds it to the viewport to confirm the action to the player.

After the item is collected and the UI feedback is shown, the script calls *Destroy Actor* to remove the mesh from the game world, preventing duplicate interactions

# Mechanics



(Gorka Games, 2022b)



# Mechanics

## *Put Down*

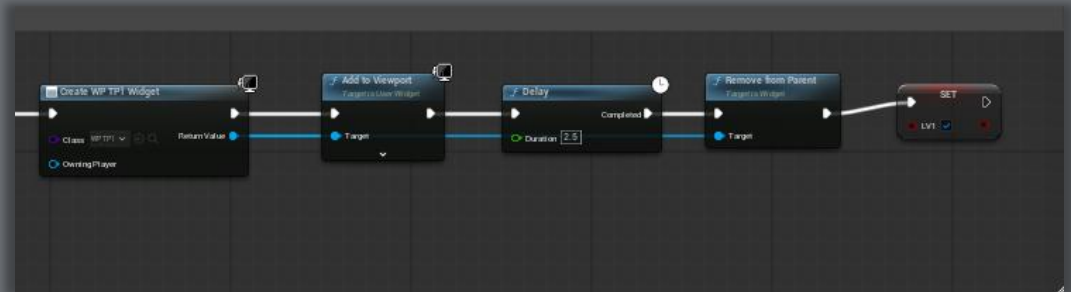
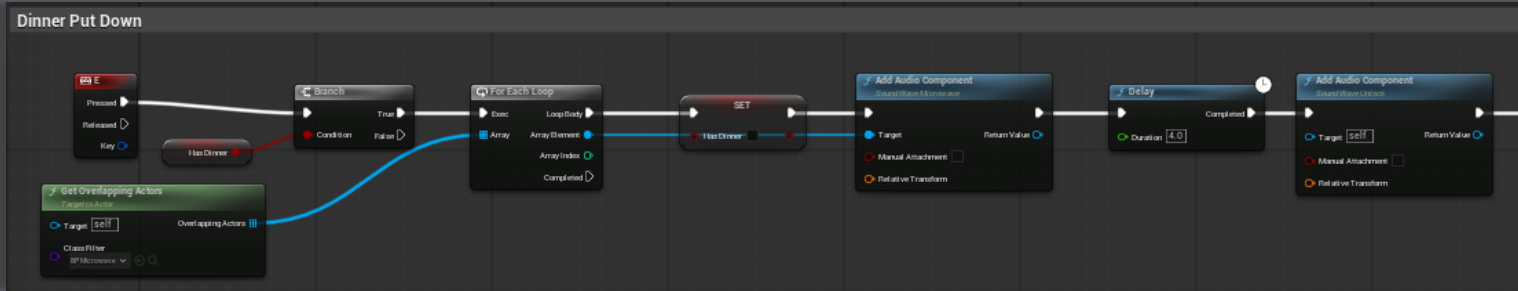
= Handles the completion of objectives by allowing the player to place collected items in their designated locations (e.g., placing dinner in the microwave).

When the interaction key is pressed, a Branch node checks if the relevant inventory boolean (e.g., *Has Dinner*) is set to true. If false, the action fails.

The script triggers specific sound effects, such as a microwave humming, using *Add Audio Component*. A *Delay* node creates a pause before playing a secondary sound (“*Unlock*” sound) to let the player know a new part of the map has been unlocked.

After the action sequence is complete, variables are updated (e.g., setting LV1 to true) to mark the objective as finished.

# Mechanics



# Mechanics

## *Teleport*

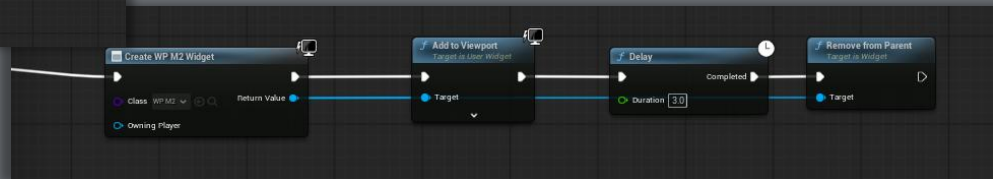
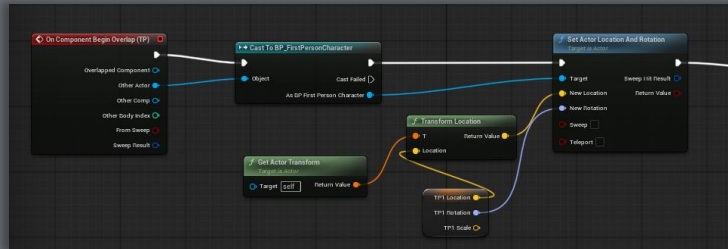
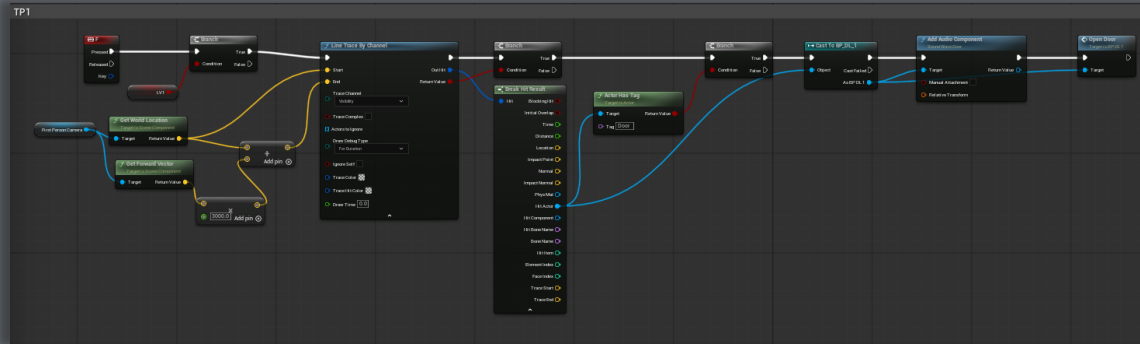
= This is the core mechanic for the "Non-Euclidean" design. It creates the illusion of shifting rooms by instantly moving the player to a different map section

Similar to the door mechanic, this uses a *Line Trace* to detect a specific interaction point. However, instead of animating a door, it triggers a *Set Actor Location and Rotation* node.

The script takes a target location and rotation (*TP1 Location*) and instantly snaps the player character to those coordinates.

By skipping the physical travel time and changing the environment instantly, this script disrupts the player's cognitive map, simulating the confusion of sleep deprivation.

# Mechanics



# Mechanics

## *Background Audio*

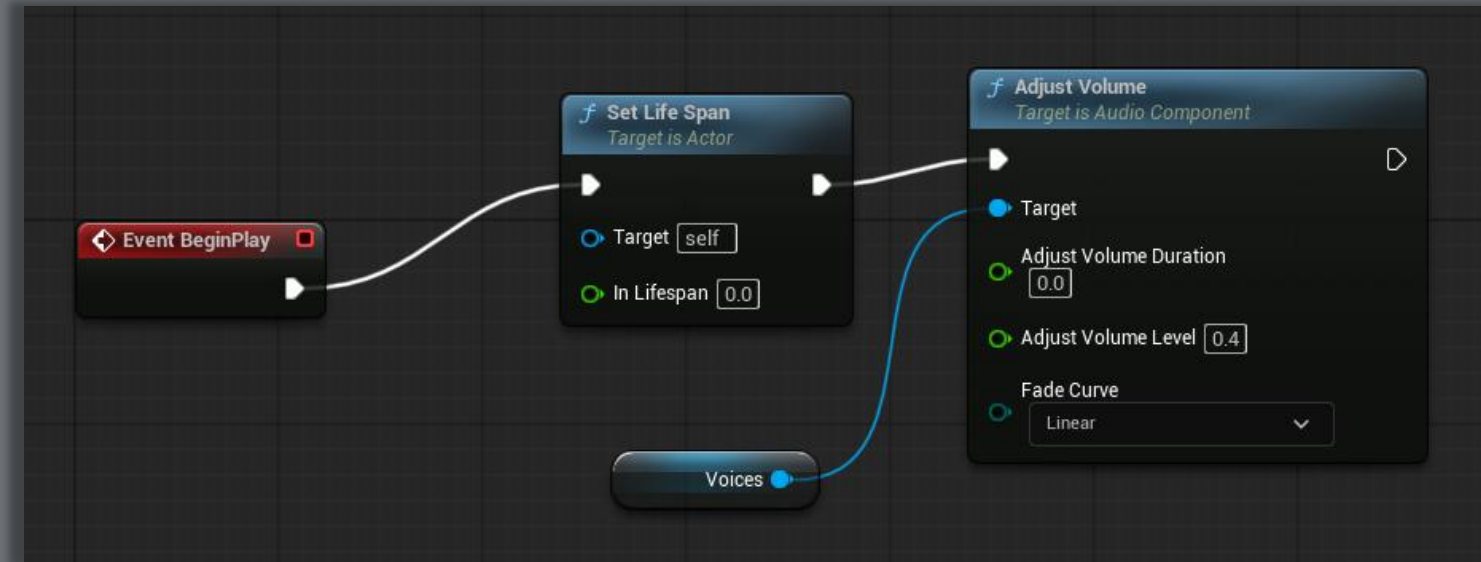
= To simulate auditory hallucinations and build atmospheric tension using whispers and murmuring

The script uses *Set Life Span* on *Event BeginPlay*, ensuring that the audio actor exists in the world for a specific duration before automatically destroying itself.

An *Adjust Volume* node is utilized to set specific volume levels.

This mechanic supports the game's psychological horror theme by introducing sounds that are fleeting and difficult to pinpoint, mimicking the effects of insomnia.

# Mechanics



# Mechanics

## *Game End*

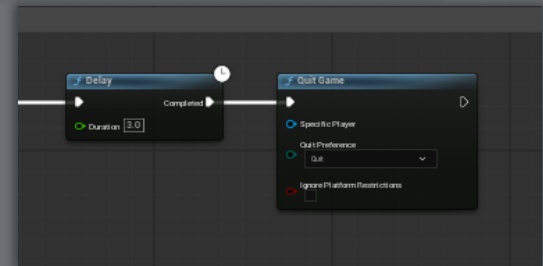
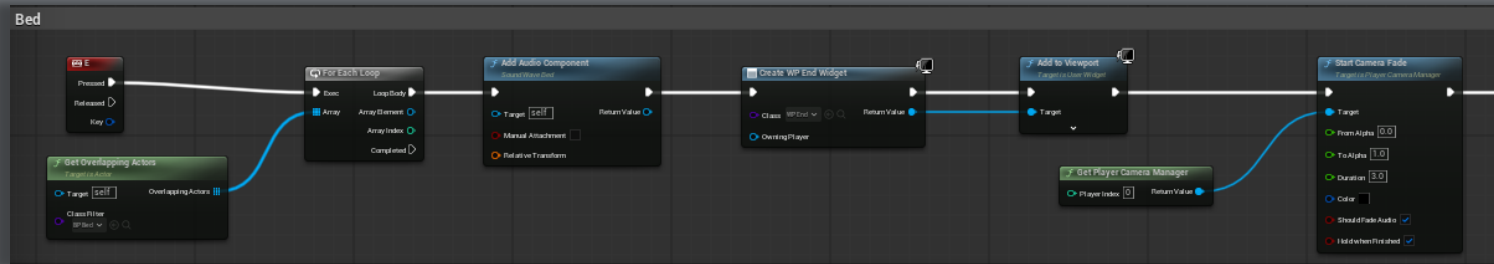
= Marks the conclusion of the narrative loop, triggered when the player finally manages to go to bed.

Triggered by interacting with the bed, the script immediately plays a "Bed" sound effect and displays an ending widget.

A *Start Camera Fade* node is used to transition the player's view from the game world to solid black over a set duration (3.0 seconds), simulating falling asleep.

After a short delay to allow the fade to complete, the *Quit Game* node is executed to close the game cleanly.


# Mechanics



# 5

# Final Renders

Finished Level Design



I can't wait to go to bed,  
need to eat something first though...







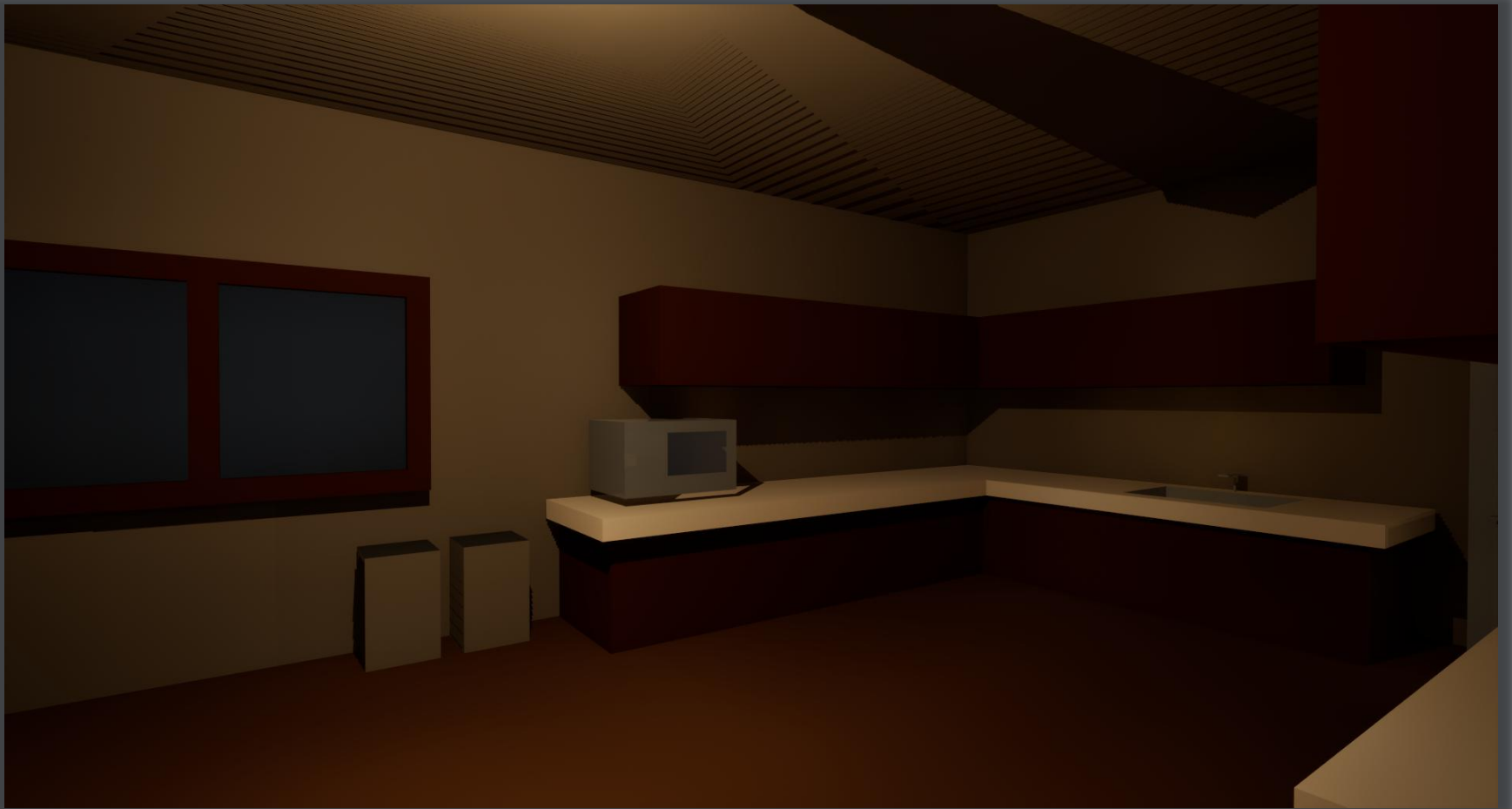
Warm Food Up [E]

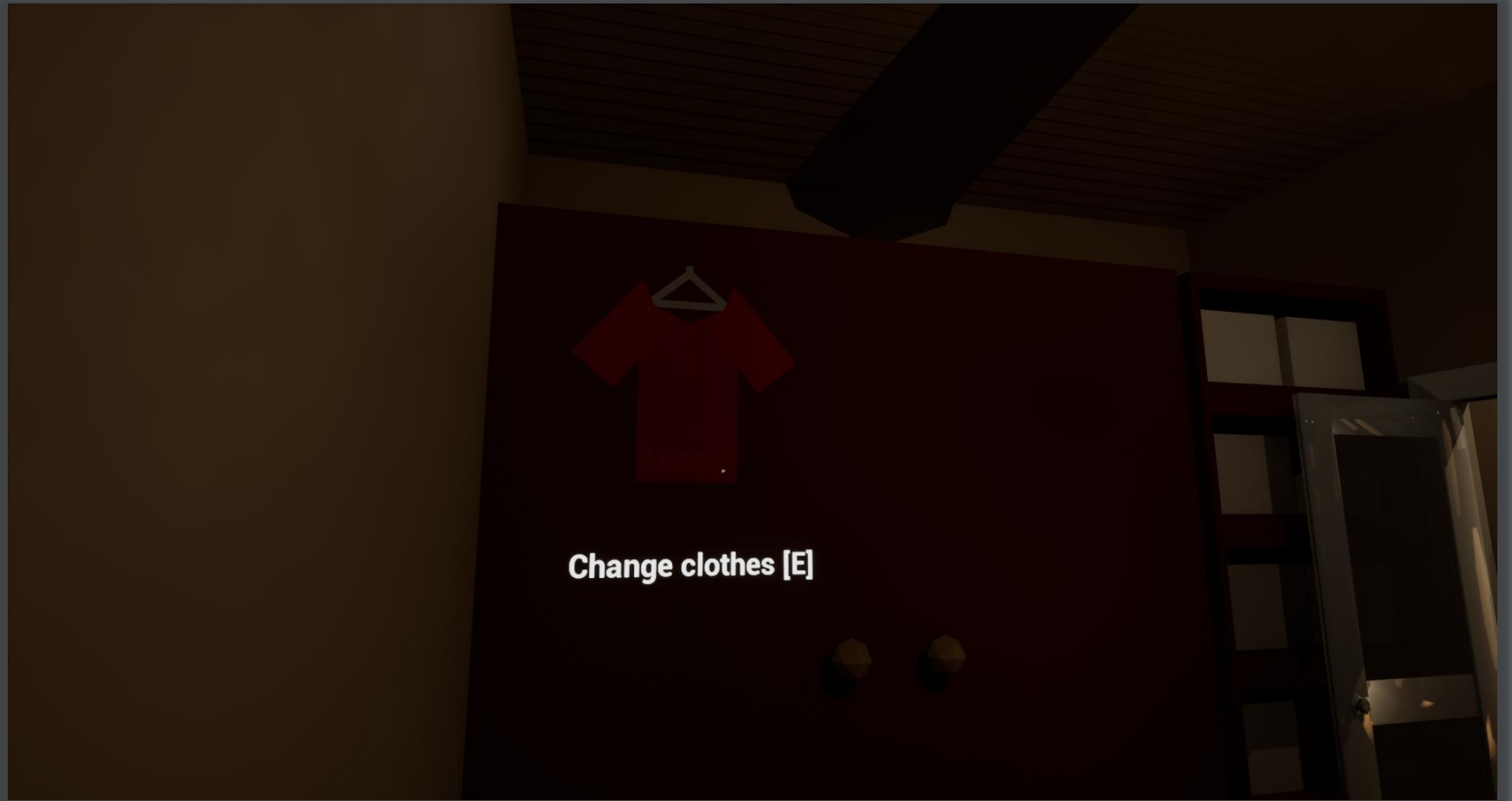
Cold pizza doesn't sound too bad, but I still better put this in the microwave for a bit









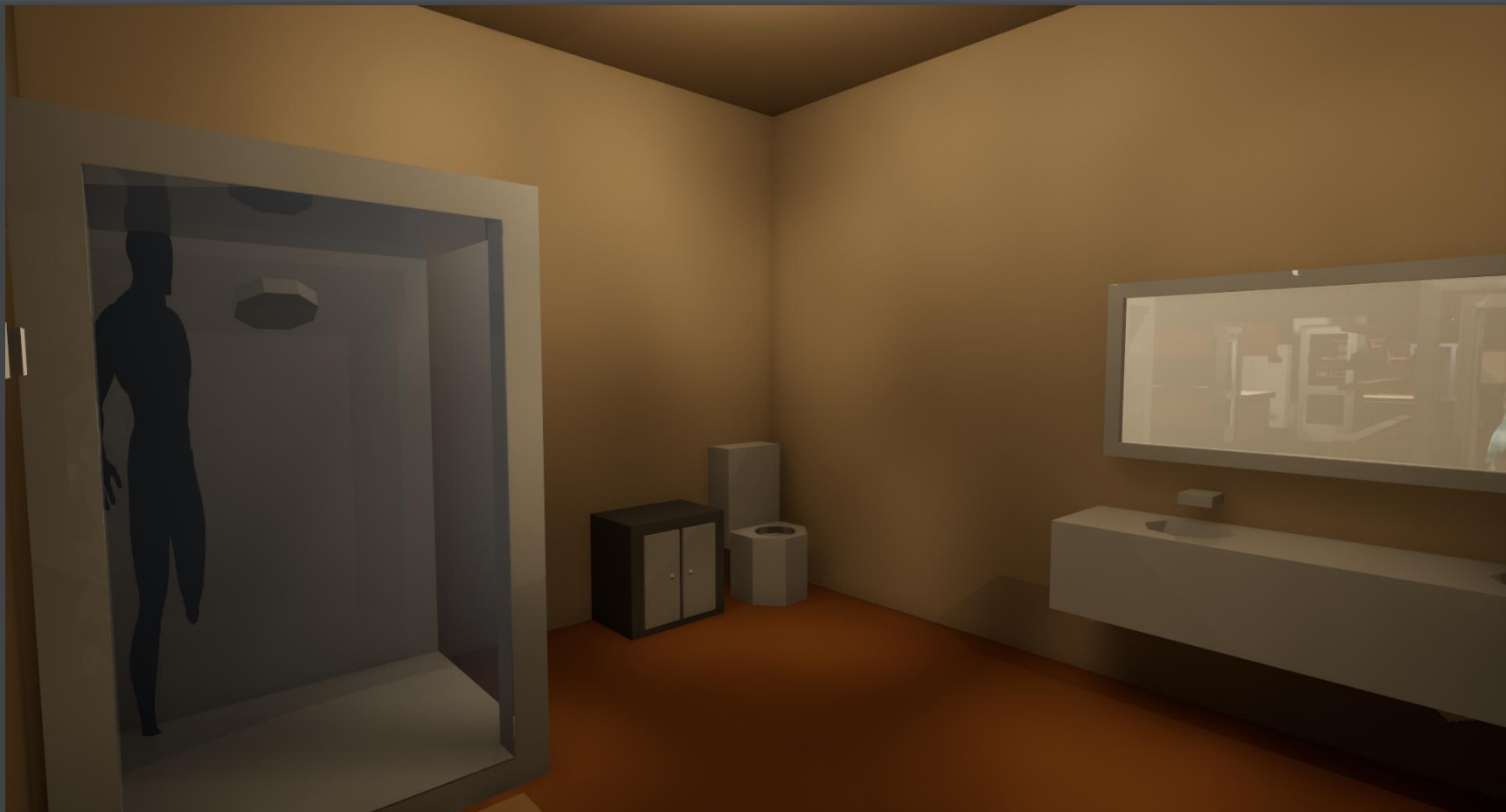





















A 3D rendered scene of a bed in a dark room. The bed has a light-colored headboard and a light-colored mattress. The text "Go to sleep [E]" is displayed on the headboard. The text "Finally..." is displayed on the mattress. The room is dark, with the bed being the central focus.

Go to sleep [E]

Finally...

# 6

# Critical Reflection

Evaluation and  
References

# Evaluation

## *What went right*

I believe I successfully met the criteria of the Psychology brief with my level, (Un)rest, by simulating the disorientation associated with insomnia and sleep deprivation. I consider my implementation of non-Euclidean geometry a major success, as I used it to effectively disrupt the player's "cognitive map." By choosing to use invisible triggers rather than visible portals, I was able to simulate unreliable memory and visual hallucinations more effectively.

Through testing, I confirmed that my decision to keep the level layout dense and claustrophobic (rather than building a large map) was the correct design choice, as I saw it evoke the intended feelings of unease and anxiety in players. I also employed a visual strategy using consistent warm, neutral tones and re-used textures, which allowed me to blend the rooms together. I found that this made my teleportation mechanic smoother, and I was pleased that testers in the second round felt the "shifting" of rooms was natural and confusing in the way I intended. Finally, I implemented an interaction prompt system that I feel succeeded in keeping the HUD uncluttered while guiding the player through the level.

# Evaluation

## *What went wrong*

The initial production phase faced some challenges regarding scale. During the first round of testing, it became apparent that the player character's height was disproportionate to the environment and the door opening mechanic caused frustration as the line trace logic required players to stand too close to interact, causing the opening doors to clip into the player character. Later on, audio balancing issues also came up, with the specific sound cue for unlocking new areas was too quiet, leading to confusion where testers missed the cue and did not know how to proceed.

There were also a few bugs which I did not manage to fix during the production due to time constraints, as I chose to prioritise other major bugs related to the mechanics. One of those is the mirror effect used in the bathroom, windows, car, and living room. The specific way I chose to create a mirror like material only reflected static meshes, which worked well with the individual items in each room, however, the rooms themselves remained simple brushes as by the time I realised this problem turning them into static meshes completely broke the game's collisions, hence why I opted for making peace with the fact the mirrors did not work as intended.

# Evaluation

*What you would do differently in future*

In future projects, I would establish concrete metrics for player character height and environmental architecture (such as door frames and ceiling heights) during the paper prototyping phase, instead of waiting until the blockmesh stage to identify scaling issues. This would prevent the need for significant geometry adjustments mid-production.

Regarding mechanics, I would refine the interaction system earlier. Instead of a simple forward vector line trace, I would implement a more complex collision check for the doors to prevent them from opening if the player is obstructing the path.

Lastly, I would like to conduct more testing stages with more participants to get as much feedback as possible all throughout the production.

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