My contributions to the group project:

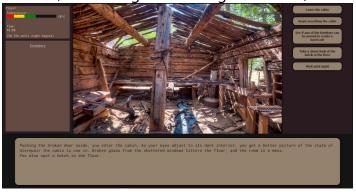
- Built the initial CSS layout, following that has since been contributed to by everybody else, with a map and inventory on the left, dialogue on the bottom and choices on the left, and iterated on this to improve it. The map was later on replaced with displaying the temperature and timer systems.



(Image showing initial testing of the layout CSS)

(Image of the final CSS, updated and properly themed)

- Created the cabin location, containing a wide range of events, items and endings



(A screenshot of part of the location)

```
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```

(An image of some of the data used to create the location – see cabin.js and cabinData.js for the full source)

- Took Andrew's prototype typewriter system and rewrote it to be significantly more robust (allowing any HTML element tags, not breaking when the user choices too quickly, etc.) while still remaining fully compatible with code that expected Andrew's version.

(A section of the typewriter's code – see Typewriter.js for the full source)

- Implemented a system for cross-fading audio, allowing a smooth transition between audio effects in different scenes, as I found the abrupt transition that we were initially using to be extremely jarring
- This audio system was also updated to support playing short, non-repeating sounds
- Later on, it was also updated to integrate with the volume slider Ryan had added

```
audioIn.volume = 0;
audioIn.src = newSource;
if (newSource) {
    audioIn.play();

    // If a new source is provided, fade into it on an interval
    let fadeIn = setInterval(function () {
        // Only fade if not at one already
        if (audioIn.volume < 0.999 * volumeMult - fadeInStep) {
            audioIn.volume += fadeInStep;
        } else {
            // Stop when volume is near-one
            clearInterval(fadeIn);
            audioIn.volume = volumeMult;
        }
}, fadeInTime * fadeInStep);
}</pre>
```

(A section of the code that controls cross-fading audio – see crossfade.js for the full source)

- Created a temperature system, compatible with Andrew's initial prototype, that also allows each location to be more flexible with increasing and decreasing the temperature, made sure the temperature was saved to session storage so it would carry over between locations, allowing specific events to be called to end the game if the player gets too hot/cold, and displayed the temperature to the player both as a number and as a colour-coded bar that can be read easily at a glance

```
Temperature:
```

(The visual output of the temperature system)

(A small sample of the code used to create the temperature system, see Temperature.js for the full source)

- Improved Andrew's initial version of the timer by getting it to display the time remaining as part of the UI, and added functionality to run specific text nodes whenever the night started/ended, to make sure the time limit of 5 minutes was actually enforced

```
function StartTimer() {
    myTimer = setInterval(incrementTime, 1000);
    displayTime();
}

function incrementTime() {
    time++;
    timePlayed++;
    saveTime();

displayTime();

if (time >= dayLength && lhasNightStarted) {
    hasNightStarted = true;
    try {
        vaultClear();
    } catch {}
    showNextModeFunctionTimer(onDayEndId);
} else if (time >= dayLength + nightLength) {
    stopTimer();
    try {
        vaultClear();
    } catch {}
    showNextModeFunctionTimer(onNightEndId);
} catch {}

showNextModeFunctionTimer(onNightEndId);
}
}
```

(A section of the timer's code, see Timer.js for the full source)

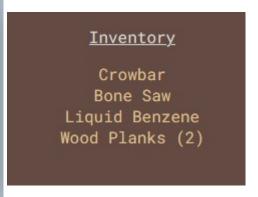
```
Time:
12:05

(4m 7s until night begins)
```

(The output of the timer system)

- Improved Ryan's inventory system by moving it to its own file to allow everyone to integrate it more easily (same as all the other systems), and allowed it to save the state of the inventory to session storage to allow it to be carried between locations, and finally allowed the player to pick up multiple items of the same type (e.g. have 2 sets of wood planks)

(Part of the inventory's code, see inventory.js for the full source)



(An example of the inventory's UI)