Project Description

1. Name:

Digital clock

2. Description:

The content of the system includes a digital clock based on reading the system time, an animation effect of a layer of raindrops falling, with the ticking sound of the clock and the sound of rain. A digital clock and raindrops combine to create a relaxing animation, supplemented by white noise music with random volume changes, it creates a feeling of ignoring the external environment when entering a state of concentration. So that the whole system can be used to zone out yourself, and it can also be used as wallpaper.

3. Procedure:

• Style:

Overall:

Define the colour of the canvas to be #0f3854 and fill the entire page and frame 100%. And no white edges and no bleed lines (Margin: 0px)

Clock:

Overall: Set the font for the entire clock module to Arial,sans-serif, in the light blue colour #daf6ff, positioned absolutely centred. Add a shading/glowing effect with a 20px size and a gradient from #0aafe6 to #0AAFE6.

Separate-content (time, date, text): Set the relative character spacing of the time displayed by the time parameter to 0.05em, and the size is 80px and the padding is 5px. The date has a character spacing of 0.1em and a size of 24px.

The description text has a character spacing of 0.1em, a size of 14px and a padding of 24px.

Rain:

Set the scope of the 'rain' element to be the entire screen and fixed. Set the position of the raindrops to be absolute and filled with a pure white transparency gradient.

• Background:

Libraries& Sources added:

```
k rel="stylesheet" href="styleCSS" />
<meta charset="utf-8">
<style type="text/css">
</script src="https://cdn.bootcss.com/vue/2.4.4/vue.min.js"></script>
```

Body:

Script (clock):

Building a front-end framework - Vue

Define how the week shows (Monday, etc.)

Use the get function to get the system time (day/ month/ year and hours/ minutes/ seconds) to fill the created zeroPadding and limit or extend the step size to 2 or 4 (e.g. 4 digits for the year), while the code to get month needs +1 (zeroPadding(cd.getMonth()+1, 2)). As a variable for the updateTime parameter defined in the previous step.

Define the numeric display to show 0 when the first digit is 0.

Script (Rain):

Variations that limit the element's "rain" style are not affected. And associate the size of the rainbox with the style of the rainbox defined in 'style'.

Add a class name to the raindrop after defining it, and set the position of the raindrop to fall from the top, and apply the transparency randomly generated by math.random. At the same time, define a timer function to set the frequency and falling speed of raindrops.

Script(Audio):

After uploading and reading the required audio, because the native JS does not have a direct fade-in and fade-out effect, and this system is not worth introducing the jQuery library, the next best thing is to use Math.random to change the volume of the audio to a random size and set it to Loop playback, use the play function to play.

4. Results:

A digital clock effect with rain has been created to create the atmosphere of a pleasant rainy day listening to the white noise of the rain and feeling the passage of time.