

how to install webpack?

- You use npm run build to copy from index.htm in src to index.htm in dist
- You import all your .mjs files in src, to index.js in src, this will bundle them all into one js file bundle.js.
- You only import bundle.js in your js file.
- Make sure your entry is src/index.js → so that webpack knows where to start

ui.js

- You update your minute display, second display.
- You get the remaining time in seconds.
- ex: 90 seconds → 1:30
 - 90 / 60 = 1.5 = 1 (place in minutes).
 - 90 % 60 = 1 → reminder = 30 so place 30.
- You will get time from timer.js.
- String (any number) will give you the number in a string.
- string(7) = "7" ↑ you can put anything
- string.padStart (number of min digits, what to put at the beginning when the length is less).
 - padStart (2, "0") when string = "A" → nothing
 - " " = "A" → "0A"
- padStart (3, "0") → string = "A" → "00A" update UI → update Timer.

switch mode → change color.

- document.querySelector ("name").style.name = "value"

↳ will change style

- condition ? true : false

↳ Ternary operator

start / pause / reset are all timer.js function.

You call them in ui.js.

- use arrow function so that we don't call them instantly.

- one of the event listeners isDOMContentLoaded

↳ Run when all UI is loaded into page.

- document.addEventListener (event, function)

DOMContentLoaded ← | click (anywhere in the page)
hover → |

↳ can only apply to

document and it means once all of

your document elements are loaded.

do the function

→ once the page is loaded get the preferred work durations from local storage and place them in inputs, also send them to the timer.

input.addEventListener ("change", C) => {

↳ when the user changes the input.

→ when it changes → change local storage

→ change timer.js logic

→ element.textContent = "Value"

↳ will change the value to that.

→ input.value will change input value.

→ change vs input

. Both mean that user change value.

. But input runs instantly.

. change runs when user leaves input field.

→ when you have a pointer to element ex btn.

and you make a variable = to that. You can now modify and work with the element using variable

→ you can pass it through modules easily.

notification.js

→ you put a sound.mp3 in your files.

→ sound has a class called Audio.

→ Sound.play() will play it.

→ const sound = new Audio("./audio.mp3") → works normally without bundlers.

→ sound.play to play.

→ when using bundlers like webpack, the actual working code will be in dist/

→ So they expect it to be there, but actually it is not.

→ so you use require("mp3")

↳ This will find the audio.

→ const sound = new audio(require("./mp3"));

sound.play();

↳ will put the right path

(use for assets) → when they are in src and you want them in dist/

→ Notice that when you npm run build all your assets will be loaded into dist/ manually.

settings.js

→ localStorage.setItem("key", value)

will store the value as string.

localStorage.getItem("key") will return the value as string.

Timer.js

→ you need a variable, when you click start, it becomes true. → if time was not running and you click start it becomes true.

→ That value will prevent multiple timers from going at once, which may cause some faster count down.

→ you need start timer, pause timer, Reset timer functions.

→ you need to know how many work sessions you did, for long break implementation.

setTimeout vs setInterval

→ both have the same syntax (function, time in ms)

→ setTimeout will run once, after the time specified for it.

→ setInterval will run every (after time you put).

→ ex: time = 1000

Timeout → will run once every 1s, setInterval will run every second.

- You can stop the interval from going by using `clearInterval(intervalName)`
- so let `timer = setInterval(function, time in ms)`
- after you want to stop it (calling the function) use `clearInterval(timer)`
- So you need a variable to store your `setInterval`
- when you click start, while time is running do nothing.

- every second: `timeleft > 0 ? timeleft--:`
- update UI with time.
- Time passed in seconds. (and will be displayed)

- Time left = 0 then you:

- switch modes
- update remaining time
- `clearInterval` → stop clock from going
- `playsound` → automatically played.
- Increase work session numbers.
↳ will help with the long break

initial work = 25
break = 5
long = 25

switch durations (long, short, work)

`workduration = work * 25`

long
:
short

- To change between modes.

- 1 - add buttons
- 2 - add eventlisteners and call functions from timers
- 3 - pass the type of session you want.
- 4 - pass update UI, to update timers.
- 5 - pass switchmode to add colors.
- 6 - make if statements for each case

→ work → short → long.

- in all you stop the interval
- . you make time left = user preference

→ For pause, you just make running = false.

→ clearInterval

→ For reset you work depending on the mode.

→ clearInterval

→ updateUI

→ running false

- You can export functions

- But you can't export variables even when they are let

- To export them you use an object and put the variables in.