

```
1 // Selecting the DOM element that displays the remaining time
2
3 const timeElement = document.getElementById("time");
4
5 // Selecting the DOM element where the result (correct/incorrect/time's up) will be shown
6
7 const resultElement = document.getElementById("result");
8
9 // Selecting the submit button element
10
11 const submitButton = document.getElementById("submitBtn");
12
13 // Selecting the input box where user types the answer
14
15 const answerInput = document.getElementById("answer");
16
17 // Initial time (in seconds) for the quiz timer
18
19 let timeLeft = 10;
20
21 // Will store the setInterval ID so we can clear it later
22
23 let timeInterval;
24
25 // Will store the setTimeout ID so we can cancel the auto-fail message if needed
26
27 let timeoutId;
28
29 /*
30
31 =====
32
33 🕒 Start the Countdown Timer
34
35 =====
36
37 This function uses setInterval to decrease the timer every second. Once time reaches 0, it clears the interval to stop the
  countdown.
```

```
38
39  */
40
41  const startTimer = () => {
42
43      timeInterval = setInterval(() => {
44
45          timeLeft--;          // Decrease time by 1 second
46
47          timeElement.textContent = timeLeft;  // Update the UI with the new time
48
49          if (timeLeft === 0) {
50
51              clearInterval(timeInterval);      // Stop the countdown when time is up
52          }
53
54      }, 1000); // Runs every 1000 milliseconds (1 second)
55  }
56
57  /*
58
59  =====
60
61  ⚠ Show Auto-Fail Message after 10 seconds
62
63  =====
64
65  This function uses setTimeout to show a message if the user doesn't submit an answer within the allotted time. It also
66  disables the submit button and input box.
67
68  */
69  const showAutoFailMessage = () => {
70
71      timeoutId = setTimeout(() => {
72
73          resultElement.textContent = "⌚ Time's up! You didn't answer in the allotted time.";
74

```

```
75     submitButton.disabled = true;    // Prevent further submissions
76
77     answerInput.disabled = true;    // Disable input after timeout
78
79     }, 10000); // Executes after 10,000 milliseconds (10 seconds)
80 }
81
82 /*
83
84 =====
85
86  Submit Button Event Handler
87
88 =====
89
90 Triggered when the user clicks the "Submit" button. It checks the answer, stops the countdown and cancels the auto-fail
91 message timeout.
92
93 */
94 submitButton.addEventListener("click", () => {
95
96     const answer = answerInput.value.trim().toLowerCase(); // Get user's input, clean it, and make it lowercase
97
98     clearInterval(timeInterval); // Stop the countdown (setInterval)
99
100    clearTimeout(timeoutId);    // Cancel the auto-fail timeout
101
102    if (answer === "paris") {
103
104        // Correct answer case
105
106        resultElement.textContent = "🎉 Correct! The capital of France is Paris.";
107
108    } else if (answer === "") {
109
110        // If input is empty
111
```

```
112     resultElement.textContent = "⚠ Please enter an answer.";
113
114   } else {
115
116     // Incorrect answer case
117
118     resultElement.textContent = "❌ Incorrect! The capital of France is Paris.";
119   }
120
121   // Disable further interaction after submission
122
123   submitButton.disabled = true;
124
125   answerInput.disabled = true;
126 });
127
128 // 🔄 Start both the timer and the auto-fail countdown as soon as the page loads
129
130 startTimer();
131
132 showAutoFailMessage();
```