

STOPWATCH

1) UI Theme

- *Neumorphism*

2) Technologies Used

- *HTML5*
- *CSS3*
- *Javascript*

3) Functionalities Implemented

- *Start Timer*
- *Stop Timer*
- *Reset Timer*
- *Lap*
- *Animation on Hover and Click*

4) CDNs Used

- *Font Awesome*
- *Animate.css*

5) Links Provided

- *Github link*
- *Pdf file download*
- *Video link*

6) Stopwatch Format

- Minutes : Seconds : Milliseconds
- 00:00:000

7) Code

HTML:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="UTF-8">
```

```
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
    <meta name="viewport" content="width=device-width,  
initial-scale=1.0">
```

```
<title>Stopwatch</title>

<link rel="icon" type="image/gif"
href="Images/logo.jpg">

<link rel="stylesheet"
href="https://use.fontawesome.com/releases/v5.5.0/css/all.cs
s" integrity="sha384-
B4dIYHKNBt8Bc12p+WXckhzcICo0wtJAoU8YZTY5qE0Id1GSseTk6S+L3B1X
eVIU" crossorigin="anonymous">

<link rel="stylesheet" type="text/css" href="style.css">

<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.1
.1/animate.min.css"/>

</head>

<body>

    <!-- Lap Container or box to store lap value which is
scrollable -->

    <div class="lap-container">

    </div>

    <!-- Timer Box -->

    <div class="timer-container">

        <div class="stopwatch">00:00:000</div>
```

```
</div>

<!-- Timer control buttons box -->

<div class="control-box">

    <button class="btn" onclick="start()"><span
class="btn-caption">START</span></button>

    <button class="btn" onclick="stop()"><span
class="btn-caption">STOP</span></button>

    <button class="btn" onclick="lap()"><span
class="btn-caption">LAP</span></button>

    <button class="btn" onclick="reset()"><span
class="btn-caption">RESET</span></button>

</div>

<!-- PDF file download button -->

<div class="button download">

    <a href="pdfFile.pdf" download>

        <!-- Remember to change the pdf file -->

        <!-- Link file after creating it -->

        <i class="fas fa-download"></i>

    </a>

</div>
```

```
<!-- Video link button -->

<div class="button video-link">

    <a href="#">

        <i class="fas fa-video"></i>

    </a>

</div>

<!-- Github link button -->

<div class="button github-link">

    <a href="#">

        <i class="fab fa-github"></i>

    </a>

</div>

<!-- External Javascript Link -->

<script src="script.js"></script>

</body>

</html>
```

CSS:

```
*{  
  
  padding: 0;  
  
  margin: 0;  
  
}  
  
body{  
  
  background-color: #ececce;  
  
  font-size: 16px;  
  
  height: 100vh;  
  
}  
  
/* LAPS */  
  
/* Container in which laps will store/show */  
  
.lap-container{  
  
  position: absolute;  
  
  height: 30rem;  
  
  width: 15rem;  
  
  left: 6rem;  
  
  top: 8rem;  
  
  display: flex;  
  
  flex-direction: column;
```

```
text-align: center;

overflow-y: scroll;

-ms-overflow-style: none;

scrollbar-width: none;

background-color: #ecec;

box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),
           10px 10px 15px rgba(70, 70, 70, 0.12);

border-radius: 20px;
}

.lap-container::-webkit-scrollbar {

display: none;

}

/* Watch */

.timer-container{

position: absolute;

height: 20rem;

width: 30rem;

left: 35rem;

top: 8rem;
```

```
display: flex;

flex-direction: column;

justify-content: center;

align-items: center;

box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),
           10px 10px 15px rgba(70, 70, 70, 0.12);

border-radius: 20px;
}

.timer-container .stopwatch{

    font-size: 6rem;

    color: #9f95d8;

}

.timer-container .stopwatch:hover{

    animation: rubberBand;

    animation-duration: 1s;

}

/* Controls */

.control-box{

    position: absolute;
```



```
height: 140px;

width: 700px;

top: 32rem;

left: 28rem;

display: flex;

flex-direction: row;

justify-content: center;

align-items: center;

box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),
            10px 10px 15px rgba(70, 70, 70, 0.12);

border-radius: 20px;

}

/* Buttons in Controls */

.btn{

height: 40px;

width: 100px;

box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),
            10px 10px 15px rgba(70, 70, 70, 0.12);

border: 2px solid #ececec;
```

```
outline: none;

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

cursor: pointer;

margin: 1rem;

border-radius: 20px;

}

.btn .btn-caption{

font-size: 15px;

color: #7a7a7a;

font-weight: 700;

padding: 10px;

}

.btn:hover .btn-caption{

animation: rubberBand;

animation-duration: 1s;

}
```

```
.btn:active{  
  
    box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),  
                10px 10px 15px rgba(70, 70, 70, 0.12),  
  
    inset -10px -10px 15px rgba(255, 255, 255, 0.5),  
  
    inset 10px 10px 15px rgba(70, 70, 70, 0.12);  
  
}
```

```
.btn:active .btn-caption{  
  
    color: #9f95d8;  
  
}
```

/* Link Buttons */

```
.button{  
  
    position: absolute;  
  
    height: 100px;  
  
    width: 100px;  
  
    box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),  
                10px 10px 15px rgba(70, 70, 70, 0.12);  
  
    transform: translate(-50%,-50%);  
  
    border-radius: 50%;  
  
    border: 8px solid #ececec;
```

```
outline: none;

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

cursor: pointer;

}
```

```
.download{

  top: 12rem;

  left: 80rem;

}
```

```
.video-link{

  top: 25rem;

  left: 80rem;

}
```

```
.github-link{

  top: 38rem;

  left: 80rem;

}
```

```
.button a{  
  
    text-decoration: none;  
  
    font-size: 30px;  
  
    color: #7a7a7a;  
  
    font-weight: 700;  
  
}
```

```
.button:hover a{  
  
    animation: rubberBand;  
  
    animation-duration: 1s;  
  
}
```

```
.button:active{  
  
    box-shadow: -10px -10px 15px rgba(255, 255, 255, 0.5),  
                10px 10px 15px rgba(70, 70, 70, 0.12),  
                inset -10px -10px 15px rgba(255, 255, 255, 0.5),  
                inset 10px 10px 15px rgba(70, 70, 70, 0.12);  
  
}
```

```
.button:active a{  
  
    color: #9f95d8;  
  
}
```

```
/* Responsive */
```

```
/* Only for zoom in-out from 100% to 125% */
```

```
@media only screen and (zoom: 1) {
```

```
  html {
```

```
    max-height: 70vh;
```

```
    max-width: 70vw;
```

```
  }
```

```
}
```

```
@media only screen and (zoom: 1.1) {
```

```
  html {
```

```
    max-height: 80vh;
```

```
    max-width: 80vw;
```

```
  }
```

```
}
```

```
@media only screen and (zoom: 1.25) {
```

```
  html {
```

```
    max-height: 100vh;
```

```
    max-width: 100vw;
```

```
  }
```

```
}
```

Javascript:

```
var ms = 0, s = 0, m = 0;

var timer;

var flag = 0;

var stopwatchEl =
document.querySelector('.stopwatch');

var lapsContainer =
document.querySelector('.lap-container');

// Start button function
function start() {
    flag = 1;
    if(!timer) {
        timer = setInterval(run, 10);
    }
}

function run() {
    stopwatchEl.textContent = getTimer();
}
```

```
ms+=10;

if(ms == 1000) {
    ms = 0;
    s++;
}

if(s == 60) {
    s = 0;
    m++;
}
}

// Stop button function
function stop() {
    stopTimer();
}

// Reset button function
function reset() {
    stopTimer();
    animation();
    lapsContainer.innerHTML = '';
```



```
ms = 0;
s = 0;
m = 0;
flag = 0;
stopwatchEl.textContent = getTimer();
}
function animation(){
    stopwatchEl.style.animation = "hinge";
    stopwatchEl.style.animationDuration =
"2s";
}
function stopTimer() {
    clearInterval(timer);
    timer = false;
}
function getTimer() {
    var min;
    var sec;
    var milSec;
```

```
if(m < 10){  
    min = "0" + m;  
}else{  
    min = m;  
}
```

```
if(s < 10){  
    sec = "0" + s;  
}else{  
    sec = s;  
}
```

```
if(ms < 10){  
    milSec = "00" + ms;  
}else if(ms < 100){
```

```
        milSec = "0" + ms;
    }else{
        milSec = ms;
    }

    return (min) + ":" + (sec) + ":" +
(milSec);
}

// Laps creation function
function lap() {
    if(timer || flag == 1) {
        var li =
document.createElement('li');
        li.innerText = getTimer();
        li.style.listStyle = "none";
        li.style.margin = "0.5rem";
        li.style.fontSize = "2rem";
        li.style.color = "#9f95d8";
```

