

Stopwatch

SOURCE CODE

```
<!--index.html-->
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <!-- The above 3 meta tags *must* come first in the
head; any other head content must come *after* these tags
-->
    <title>Stopwatch App</title>

    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">
    <link href="styling.css" rel="stylesheet">
    <link
href='https://fonts.googleapis.com/css?family=Vollkorn'
rel='stylesheet' type='text/css'>

  </head>
  <body>

    <!--Title-->
    <div class="container-fluid">
      <div id="header">Stopwatch</div>
```

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        <!--Lap Time-->
        <div id="lap"><span id="lapminute">00</span>:<span
id="lapsecond">00</span>:<span
id="lapcentisecond">00</span></div>

        <!--Time-->
        <div id="time"><span id="timeminute">00</span>:<span
id="timesecond">00</span>:<span
id="timecentisecond">00</span></div>

        <!--Controls-->
        <div id="controlsContainer" class="row">
            <div class="col-xs-2 col-xs-offset-4">
                <div id="startButton" class="control">
                    Start
                </div>
                <div id="stopButton" class="control">
                    Stop
                </div>
                <div id="resumeButton" class="control">
                    Resume
                </div>
            </div>
            <div class="col-xs-2">
                <div id="lapButton" class="control">
                    Lap
                </div>
                <div id="resetButton" class="control">
                    Reset
                </div>
            </div>
        </div>

        <!--Laps-->
        <div id="laps"></div>

    </div>

    <!-- jQuery (necessary for Bootstrap's JavaScript
plugins) -->

```

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/j
query.min.js"></script>
  <!-- Include all compiled plugins (below), or include
individual files as needed -->
  <script src="js/bootstrap.min.js"></script>
  <script src="stopwatch.js"></script>
</body>
</html>
```

```
/*styling.css*/
body {
  background: url(images/tree.jpg) center center fixed;
  background-size: cover;
  color: #fff;
}

/*title*/
#header{
  text-align: center;
  font-size: 7vw;
}

/*Lap*/
#lap{
  text-align: right;
  font-size: 4vw;
}

/*Time*/
#time{
  text-align: center;
  font-size: 10vw;
}

/*Buttons*/
#controlsContainer{
  margin-bottom: 100px;
}
```

```
.control{
  color: white;
  background-color: #d7A04e;
  height: 10vw;
  width: 10vw;
  border-radius: 100%;
  text-align: center;
  padding: 20% 0;
  font-size: 2.5vw;
  cursor: pointer;
}

.control:active{
  background-color: #fff;
  color: #d7A04e;
}

/*laps*/
#laps{
  max-height: 270px;
  overflow-y: scroll;
}

.lap{
  height: 50px;
  border-bottom: 1px solid white;
  margin: 15px;
}

.laptimetitle{
  font-size: 1.5em;
  float: left;
}

.laptime{
  font-size: 2em;
  float: right;
}
```

```
//stopwatch.js
$(function(){
```

```

//variables
var mode = 0;//App mode
var timeCounter = 0;//time counter
var lapCounter = 0;//lap counter
var action;//variable for setInterval
var lapNumber = 0;//Number of Laps

    //minutes,seconds,centiseconds for time and lap
var timeMinutes, timeSeconds, timeCentiseconds,
lapMinutes, lapSeconds, lapCentiseconds;

//On App Load show start and Lap buttons
hideshowButtons("#startButton","#lapButton");
//click on startButton
$("#startButton").click(function(){
    //mode on
    mode = 1;
    //show stop and Lap buttons
    hideshowButtons("#stopButton","#lapButton");
    //start counter
    startAction();
});

//click on stopButton
$("#stopButton").click(function(){
    //show resume and reset buttons
    hideshowButtons("#resumeButton","#resetButton");
    //stop counter
    clearInterval(action);
});

//click on resumeButton
$("#resumeButton").click(function(){
    //show stop and Lap buttons
    hideshowButtons("#stopButton","#lapButton");
    //start counter
    startAction();
});

//click on resetButton
$("#resetButton").click(function(){

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        //reload the page
        location.reload();
    });

    //click on LapButton
    $("#lapButton").click(function(){
        //if mode is ON
        if(mode){
            //stop action
            clearInterval(action);
            //resetLap and print lap details
            lapCounter = 0;
            addLap();
            //start action
            startAction();
        }
    });

    //functions
    //hideshowButtons function shows two buttons
    function hideshowButtons(x,y){
        $(".control").hide();
        $(x).show();
        $(y).show();
    }

    //start the counter
    function startAction(){
        action = setInterval(function(){
            timeCounter++;
            if(timeCounter == 100*60*100){
                timeCounter = 0;
            }
            lapCounter++;
            if(lapCounter == 100*60*100){
                lapCounter = 0;
            }
            updateTime();
        },10);
    }

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//updateTime: converts counters to min,sec,centisec
function updateTime(){
    //1min=60*100centiseconds=6000centiseconds
    timeMinutes = Math.floor(timeCounter/6000);
    //1sec=100centiseconds
    timeSeconds = Math.floor((timeCounter%6000)/100);
    timeCentiseconds = (timeCounter%6000)%100;
    $("#timeminute").text(format(timeMinutes));
    $("#timesecond").text(format(timeSeconds));

    $("#timecentisecond").text(format(timeCentiseconds));

    //1min=60*100centiseconds=6000centiseconds
    lapMinutes = Math.floor(lapCounter/6000);
    //1sec=100centiseconds
    lapSeconds = Math.floor((lapCounter%6000)/100);
    lapCentiseconds = (lapCounter%6000)%100;
    $("#lapminute").text(format(lapMinutes));
    $("#lapsecond").text(format(lapSeconds));

    $("#lapcentisecond").text(format(lapCentiseconds));
}

//format numbers
function format(number){
    if(number<10){
        return '0'+number;
    }else{
        return number;
    }
}

//addLap function: print lap details inside the lap
box
function addLap(){
    lapNumber++;
    var myLapDetails =
        '<div class="lap">' +
            '<div class="laptimetitle">' +
                'Lap'+ lapNumber +
            '</div>' +
            '<div class="laptime">' +

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```
                                '<span>' + format(lapMinutes)
+ '</span>' +
                                ':<span>' + format(lapSeconds)
+ '</span>' +
                                ':<span>' + format(lapCentiseconds)
+ '</span>' +
                                '</div>' +
                                '</div>';
    $(myLapDetails).prependTo("#laps");
}
});
```