# TASK 02 STOPWATCH WEB APPLICATION

## index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>Stopwatch App</title>
  <link rel="stylesheet" href="style.css"/>
</head>
<body>
  <div class="container">
    <h1>Stopwatch</h1>
    <div class="stopwatch">
      <div id="display">00:00:00</div>
      <div class="buttons">
        <button id="start">Start</button>
        <button id="pause">Pause</button>
        <button id="reset">Reset</button>
        <button id="lap">Lap</button>
```

```
 </div>
 </div>
 <ul id="laps"></ul>
 </div>
 <script src="script.js"></script>
</body>
</html>
```

## style.css

```
body {
  margin: 0;
  padding: 0;
  font-family: 'Segoe UI', sans-serif;
  background-color: #1e1e2f;
  color: #fff;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

.container {
  text-align: center;
}

.stopwatch {
  background-color: #2d2d44;
  padding: 30px;
  border-radius: 15px;
  box-shadow: 0 0 10px #000;
}
```

```
#display {
 font-size: 3rem;
 margin-bottom: 20px;
}
.
buttons button {
 margin: 5px;
 padding: 10px 20px;
 font-size: 1rem;
 border: none;
 border-radius: 8px;
 cursor: pointer;
 background-color: #4caf50;
 color: #fff;
 transition: background 0.3s ease;
}
.buttons button:hover {
 background-color: #45a049;
}
#laps {
 list-style: none;
 padding: 0;
 margin-top: 20px;
 max-height: 200px;
 overflow-y: auto;
}
```

```
#laps li {
 background: #3c3c5e;
 padding: 10px;
 margin: 5px 0;
 border-radius: 6px;
}
```

## script.js

```
let startTime = 0;
let elapsedTime = 0;
let timerInterval;

const display =
document.getElementById("display");
const startBtn = document.getElementById("start");
const pauseBtn =
document.getElementById("pause");
const resetBtn = document.getElementById("reset");
const lapBtn = document.getElementById("lap");
const lapsList = document.getElementById("laps");

function timeToString(time) {
  const hrs = Math.floor(time / 3600000);
  const mins = Math.floor((time % 3600000) /
60000);
  const secs = Math.floor((time % 60000) / 1000);

  return (
    (hrs < 10 ? "0" + hrs : hrs) + ":" +
    (mins < 10 ? "0" + mins : mins) + ":" +
    (secs < 10 ? "0" + secs : secs)
  );
}
```

```
function startTimer() {
 startTime = Date.now() - elapsedTime;
 timerInterval = setInterval(() => {
 elapsedTime = Date.now() - startTime;
 display.textContent = timeToString(elapsedTime);
 }, 1000);
}
function pauseTimer() {
 clearInterval(timerInterval);
}
function resetTimer() {
 clearInterval(timerInterval);
 display.textContent = "00:00:00";
 elapsedTime = 0;
 lapsList.innerHTML = "";
}
function addLap() {
 const lapTime = timeToString(elapsedTime);
 const li = document.createElement("li");
 li.textContent = `Lap ${lapsList.children.length + 1}:
${lapTime}`;
 lapsList.appendChild(li);
}
// Event Listeners
startBtn.addEventListener("click", startTimer);
pauseBtn.addEventListener("click", pauseTimer);
resetBtn.addEventListener("click", resetTimer);
lapBtn.addEventListener("click", addLap);
```