

1) Working Lightweight Web Page

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Lightweight Task Tracker</title>

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

  <style>

    body {

      font-family: system-ui, Arial, sans-serif;

      margin: 20px;

      background: #f9f9f9;

    }

    .box {

      max-width: 400px;

      margin: auto;

      background: #fff;

      padding: 16px;

      border-radius: 8px;

      box-shadow: 0 2px 5px rgba(0,0,0,0.1);

    }

    input, button {

      width: 100%;

      padding: 8px;

      margin-top: 8px;

    }

    ul {

      padding-left: 18px;

    }

    li {
```

```
        margin: 6px 0;
    }
</style>
</head>
<body>

<div class="box">
    <h2>Task Tracker</h2>
    <input type="text" id="taskInput" placeholder="Enter a task">
    <button onclick="addTask()">Add Task</button>
    <ul id="taskList"></ul>
</div>
<script>
function addTask() {
    const input = document.getElementById("taskInput");
    const text = input.value.trim();
    if (!text) return;

    const li = document.createElement("li");
    li.textContent = text;
    document.getElementById("taskList").appendChild(li);
    input.value = "";
}
</script>
</body>
</html>
```

2) Steps Taken to Make It Lightweight

1. No Frameworks

- Did not use Bootstrap, React, or other heavy libraries
- Only plain HTML, CSS, and JavaScript

2. Minimal CSS

- Small amount of inline CSS
- No large stylesheets

3. No Images or Videos

- Avoided images to reduce page size
- Used text-only UI

4. Single File Design

- HTML, CSS, and JS in one file
- Reduces extra file requests

5. Simple JavaScript

- Only one function
- No complex logic or loops

6. System Fonts

- Used system default fonts
- No external font downloads

Result:

- Very small file size
- Fast loading
- Works even on slow internet

3) Test Cases

A) Feature Test Cases

No	Test Item	Purpose	Steps	Expected Result
1	Page Load	Check page opens	Open index.html in browser	Page loads correctly
2	Input Field	Check typing	Type text in input	Text appears
3	Add Button	Add task	Type task → Click Add	Task appears in list
4	Empty Input	Prevent blank task	Click Add without text	Nothing is added
5	Multiple Tasks	Add many tasks	Add 3–4 tasks	All show correctly

B) Performance / Lightweight Test Cases

No	Test Item	Purpose	Key Checkpoints	Expected Result
1	File Size	Keep page small	Check file size	File under few KB
2	Load Time	Fast loading	Open on slow net	Loads instantly
3	Network Requests	Reduce requests	Open DevTools → Network	Only 1 file loaded
4	No External Files	Avoid heavy files	Check no CDN/fonts	No external requests
5	JS Performance	Simple logic	Add many tasks	No lag or freeze