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<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>To-Do List with Eisenhower Matrix</title>
  <style>
    body {
      font-family: 'Arial', sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    header {
      background-color: #333;
      color: #fff;
      text-align: center;
      padding: 1em 0;
    }

    #task-input,
    #deadline-input {
      width: 50%;
      padding: 10px;
      margin: 10px;
    }

    #add-btn {
      padding: 10px;
      margin: 10px;
      cursor: pointer;
    }

    ul {
      list-style-type: none;
      padding: 0;
    }

    li {
      margin: 5px 0;
      padding: 10px;
      border-radius: 5px;
      display: flex;
      justify-content: space-between;
      align-items: center;
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}

.delete-btn {
  background-color: #cc0000;
  color: #fff;
  padding: 5px 10px;
  border: none;
  cursor: pointer;
  border-radius: 3px;
  margin-left: 10px;
}

.urgent-important {
  background-color: #ff4d4d;
}

.not-urgent-important {
  background-color: #ffcc99;
}

.urgent-not-important {
  background-color: #ffcc66;
}

.not-urgent-not-important {
  background-color: #b3b3b3;
}

.future-deadline {
  background-color: #99ff99;
}

.legend {
  margin-top: 20px;
  padding: 10px;
  background-color: #fff;
  border-radius: 5px;
}
</style>
</head>

<body>
  <header>
    <h1>To-Do List</h1>
  </header>

  <div>
    <input type="text" id="task-input" placeholder="Add a new task">
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    <input type="date" id="deadline-input">
    <button id="add-btn" onclick="addTask()">Add Task</button>
</div>

<ul id="task-list">
    <!-- Tasks will be dynamically added here -->
</ul>

<div class="legend">
    <h3>Color Legend:</h3>
    <ul>
        <li><span style="background-color: #ff4d4d;">&nbsp;&nbsp;&nbsp;</span> Urgent
and Important (Overdue)</li>
        <li><span style="background-color: #ffcc66;">&nbsp;&nbsp;&nbsp;</span> Urgent
but Not Important (Overdue)</li>
        <li><span style="background-color: #ffcc99;">&nbsp;&nbsp;&nbsp;</span> Not
Urgent but Important (Future Deadline)</li>
        <li><span style="background-color: #b3b3b3;">&nbsp;&nbsp;&nbsp;</span> Neither
Urgent nor Important (No Deadline)</li>
        <li><span style="background-color: #99ff99;">&nbsp;&nbsp;&nbsp;</span> Future
Deadline (Not Urgent)</li>
    </ul>
</div>

<script>
    function addTask() {
        var taskInput = document.getElementById('task-input');
        var deadlineInput = document.getElementById('deadline-input');
        var taskList = document.getElementById('task-list');

        if (taskInput.value.trim() !== "") {
            var li = document.createElement('li');
            li.innerHTML = taskInput.value +
                ' - Deadline: ' + (deadlineInput.value || 'No Deadline') +
                ' <button class="delete-btn" onclick="deleteTask(this)">Delete</button>';

            categorizeTask(li, deadlineInput.value);
            taskList.appendChild(li);

            taskInput.value = "";
            deadlineInput.value = "";
        }
    }

    function deleteTask(btn) {
        var li = btn.parentNode;
        li.parentNode.removeChild(li);
    }
}

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function categorizeTask(taskElement, deadline) {
    var currentDate = new Date();
    var taskDeadline = deadline ? new Date(deadline) : null;

    var overdue = taskDeadline && taskDeadline < currentDate;
    var dueWithinDay = taskDeadline && taskDeadline.getTime() - currentDate.getTime()
    <= 86400000;

    if (overdue && dueWithinDay) {
        taskElement.classList.add('urgent-important');
    } else if (overdue) {
        taskElement.classList.add('urgent-not-important');
    } else if (taskDeadline) {
        taskElement.classList.add('not-urgent-important');
    } else {
        taskElement.classList.add('not-urgent-not-important');
    }

    if (taskDeadline && !overdue && !dueWithinDay) {
        taskElement.classList.add('future-deadline');
    }
}
</script>
</body>

</html>
```