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Assignment 3: Design and develop a responsive website to calculate Electricity bill using Node JS. Condition for first 50 units – Rs. 3.50/unit, for next 100 units – Rs. 4.00/unit, for next 100 units – Rs. 5.20/unit and for units above 250 – Rs. 6.50/unit. You can make the use of bootstrap as well as jQuery.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Electricity Bill Calculator</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
">
  <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="container">
  <div class="card">
    <h3 class="text-center mb-4">Electricity Bill Calculator</h3>
    <form id="billForm">
      <div class="form-group">
        <label for="units">Enter number of units consumed:</label>
        <input type="number" id="units" class="form-control" placeholder="e.g.
120" required>
      </div>
      <button type="submit" class="btn btn-primary btn-
block">Calculate</button>
    </form>
    <div class="alert alert-info mt-4 d-none" id="result"></div>
  </div>
</div>
```

```
<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<script src="script.js"></script>

</body>
</html>
```

style.css

```
body {
  background-color: #f7f7f7;
}

.card {
  max-width: 500px;
  margin: 60px auto;
  padding: 30px;
  border-radius: 15px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
}
```

script.js

```
$(document).ready(function () {
  $('#billForm').submit(function (e) {
    e.preventDefault();
    let units = parseFloat($('#units').val());
    let bill = 0;

    if (units <= 50) {
      bill = units * 3.5;
    } else if (units <= 150) {
      bill = (50 * 3.5) + ((units - 50) * 4.0);
    } else if (units <= 250) {
      bill = (50 * 3.5) + (100 * 4.0) + ((units - 150) * 5.2);
    } else {
      bill = (50 * 3.5) + (100 * 4.0) + (100 * 5.2) + ((units - 250) * 6.5);
    }

    $('#result')
      .removeClass('d-none')
```

```
    .html(`Total Bill:</strong> ₹ ${bill.toFixed(2)}`);  
  });  
});
```

Output:

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500". The main content area features a centered "Electricity Bill Calculator" form. The form has a title "Electricity Bill Calculator", a label "Enter number of units consumed:", an input field containing "140", a blue "Calculate" button, and a light blue box displaying the result "Total Bill: ₹ 535.00".