


ASSIGNMENT - 4

Name: **Tanmay Kadam**

Roll & Div: **TY CS-D 78**

Design and develop a responsive website to calculate Electricity bill using springboot. 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.

Preview Screenshots

**Maharashtra State Electricity Distribution Company**

Bill of Supply For : JAN-2023

Website : www.mahadiscom.in
GSTIN of MSEDCIL : 4354-4357-4355
BILL NO (CGN) : 8787-54-56

HSN Code : XXX-XXX

Consumer Number : 17009393839
Tanmay Kadam
House Number 360, Gorhe Budruk, Sinhagad Road, Pune - 411025


Bill Date : 6 Jan 2023
Bill Amount : 1,490/-

Due Date : 23 Jan 2023
Due Amount : 1,490/-

Billing Unit : Bibwewadi
Rate Indication : 090 /LT-1 (B)
Poll Number : 00000000
P.C./D.T.S : 1388358
Meter Reading : 9873
Reading Group : 34

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Scan this QR
Code with BHIM
App for UPI
Payment



If paying through QR code, payment
Prompt payment applicable as on
date Payment discount or delay size in
next payment will be included.

Active Reading	Past Reading	Multiplier	Unit	Total
2892	2729	1	163	163

CODE

ElectricityBillController.html

```
package com.example.demo.controller;
```

```
import org.springframework.stereotype.Controller;
```

```
import org.springframework.ui.Model;
```

```
import org.springframework.web.bind.annotation.*;
```

```
@Controller
```

```
public class ElectricityBillController {
```

```
    @GetMapping("/")
```

```
    public String showElectricityBillForm(){
```

```
        return "index"; // this is the name of your HTML file
```

```
    }
```

```
    @PostMapping("/calculate")
```

```
    public String calculateElectricityBill(@RequestParam("unitsUsed") int unitsUsed, Model model) {
```

```
        double billAmount = 0;
```

```
        if (unitsUsed <= 50){
```

```
            billAmount = unitsUsed * 3.5;
```

```
        } else if (unitsUsed <= 150){
```

```
            billAmount = 50 * 3.5 + (unitsUsed - 50) * 4;
```

```
        } else if (unitsUsed <= 250){
```

```
            billAmount = 50 * 3.5 + 100 * 4 + (unitsUsed - 150) * 5.2;
```

```
        } else {
```

```
            billAmount = 50 * 3.5 + 100 * 4 + 100 * 5.2 + (unitsUsed - 250) * 6.5;
```

```
        }
```

```
        model.addAttribute("billAmount", billAmount);
```

```
        return "result";
```

```
    }
```

```
}
```

User.java

```
package com.example.demo.model;

import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestParam;

public class User {
    private int units;

    @GetMapping("/")
    public String showElectricityBillForm(){
        return "index"; // this is the name of your HTML file
    }

    @PostMapping("/calculate")
    public String calculateElectricityBill(@ModelAttribute User user){

        return "result";
    }
}
```

templates/index.html

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Electricity Bill</title>
```

```
<link rel="stylesheet" href="" th:href="@{style.css}"/>
```

```
</head>
```

```
<body>
```

```
  <header>
```

```
    <h1 style="text-align: center; color: white; padding: 10px">
```

```
      Electricity Bill
```

```
    </h1>
```

```
    <hr width="40%" style="margin: auto" />
```

```
  </header>
```

```
<!-- Billi -->
```

```
<section class="bill">
```

```
  <div class="container">
```

```
    <div class="mahav-header">
```

```
      
```

```
    <h3 id="head-name">
```

```
      Maharastra State Electricity Distribution Company
```

```
    </h3>
```

```
    
```

```
  </div>
```

```
<div class="mahav-desc">
```

```
  <div class="date">
```

```
    <div class="head-date">
```

```
      <h5 id="date-head">Bill of Supply For : JAN-2023</h5>
```

```
    </div>
```

```
  </div>
```

```
<div class="code">
```

```
  <div class="gst">
```

```
    <p style="font-weight: bolder">Website : www.mahadiscom.in</p>
```

```
<p>GSTIN of MSEDCL : 4354-4357-4355</p>
<p>BILL NO (CGN) : 8787-54-56</p>
</div>
<div class="code-code">HSN Code : XXX-XXX</div>
</div>
<hr style="width: 95%" />

<!-- Div 2 -->

<div class="code">
  <div class="gst grahak">
    <p style="font-weight: bolder">Consumer Number : 17009393839</p>
    <p>Tanmay Kadam</p>
    <p>
      House Number 360, Gorhe Budruk, Sinhagad Road, Pune - 411025
    </p>
  </div>
  <div class="code2">
    <div class="due-date">
      Bill Date : 6 Jan 2023 <br />
      Bill Amount : 1,490/-
    </div>
    <div class="due-date">
      Due Date : 23 Jan 2023 <br />
      Due Amount : 1,490/-
    </div>
  </div>
</div>
<hr style="width: 95%; margin-left: auto; margin-right: auto" />
```

<!-- Div 3 -->

```
<div class="section-3">
  <div class="section-3-info">
    <div class="units">
      <div class="unit1">
        <p>Billing Unit : Bibwewadi</p>
        <p>Rate Indication : 090 /LT-I (B)</p>
        <p>Poll Number : 00000000</p>
        <p>P.C./D.T.S : 1388358</p>
        <p>Meter Reading : 9873</p>
        <p>Reading Group : 34</p>
```

```
</div>
<div class="unit2">
  <p>Billing Unit : Bibwewadi</p>
  <p>Rate Indication : 090 /LT-I (B)</p>
  <p>Poll Number : 00000000</p>
  <p>P.C./D.T.S : 1388358</p>
  <p>Meter Reading : 9873</p>
  <p>Reading Group : 34</p>
</div>
</div>
<div class="daywise-reading">
  <button>Active Reading</button>
  <button>Past Reading</button>
  <button>Multiplier</button>
  <button>Unit</button>
  <button>Total</button>
  <br />
  <button>2892</button>
  <button>2729</button>
  <button>1</button>
  <button>163</button>
  <button>163</button>
</div>
</div>
<div class="qr-section">
  <div class="qr-info">
    <p>Scan this QR Code with BHIM App for UPI Payment</p>
    
  </div>
  <p>
    If paying through QR code, payment Prompt payment applicable as
    on date Payment discount or delay size in next payment will be
    included.
  </p>
</div>
</div>
<hr style="width: 95%" />
```

<!-- Section - 4 -->

<div class="section-4">

<div class="section-4-info">

<canvas

id="myChart"

style="width: 100%; max-width: 530px"

></canvas>

</div>

<div class="helpline-section">

<p>24*7 Helpline Number</p>

<p>

MSEDCL Call Center:

18002333435

18002123435

1912

</p>

<p>www.mahadiscom.in > ConsumerPortal > CGRF</p>

</div>

</div>

<!-- Section - 5 -->

<hr style="width: 95%" />

<div class="instrn-section">

<p>Important</p>

<p>

1. Register for e-bill instead of printed bill and get Rs.10

Go-Green discount on every bill. To register:-

<https://pro.mahadiscom.in/GoGreen/gogreen.jsp> (GGN number on your printed bill (available in the upper left corner.)

2. Pay electricity bill digitally and get 0.25% (up to Rs.500/-)

discount (excluding taxes and duties)

3. If your mobile number and email address are incorrect, visit

here - <https://consumerinfo.mahadiscom.in/>

4. The next month's reading will usually be on 30-01-2023.

</p>

<p>www.mahadiscom.in > ConsumerPortal > CGRF</p>

</div>

<hr style="width: 95%" />

```

<!-- Section 5 -->
<div class="section-5">
    <form>
        <label for="units">Enter Number of Units :</label>
        <input type="number" id="units" name="units" />
        <button type="button" onclick="calculateBill()">
            Calculate Bill
        </button>
    </form>
    <button id="result"></button>
</div>

<hr style="width: 95%" />

<!-- Section 6 -->
<div class="section-6">
    <p>
        * For queries related to your online payment transactions, please
        contact helpdesk_pg@mahadiscom.in
    <br />
    Any unauthorised changes made in this bill will lead to
    non-acceptance of the bill.
    </p>
</div>
</div>
</section>

<footer>
    <h5
    style="
        color: white;
        text-align: center;
        justify-content: center;
        height: 100%;
        font-size: 14px;
        margin-top: 50px;
        padding-top: 10px;
    "
    >
    © Tanmay Kadam

```



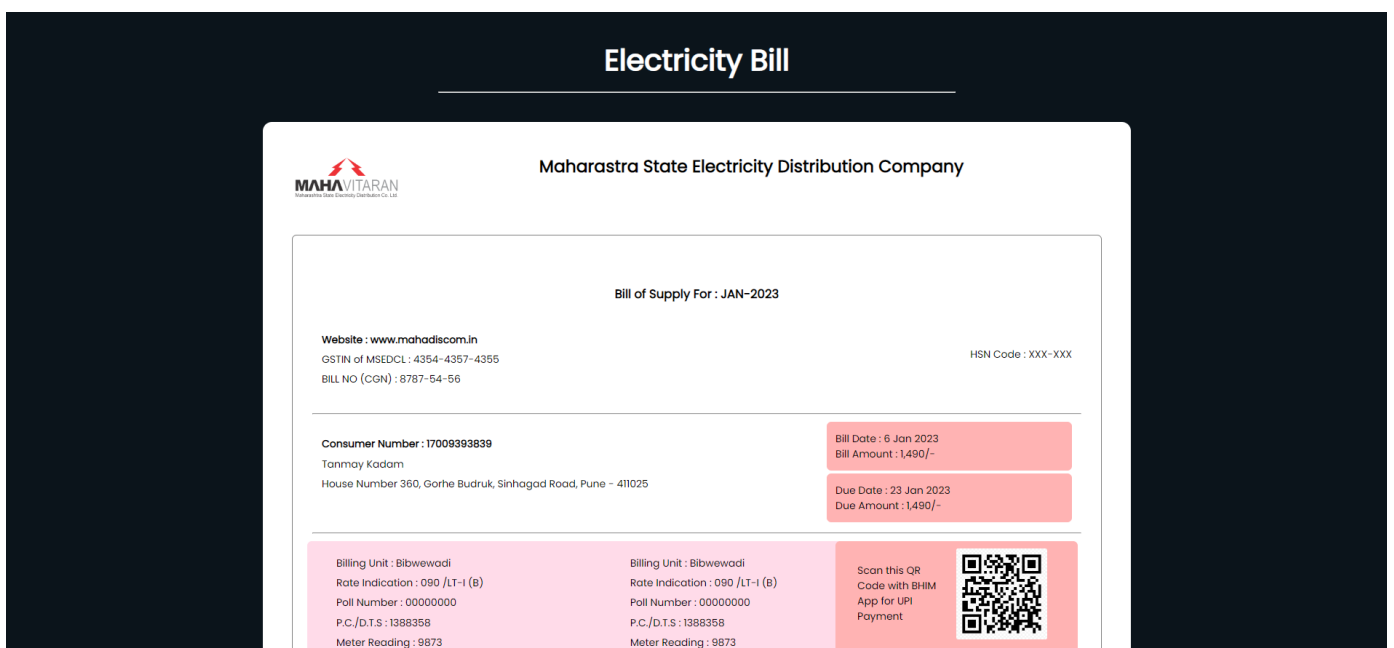
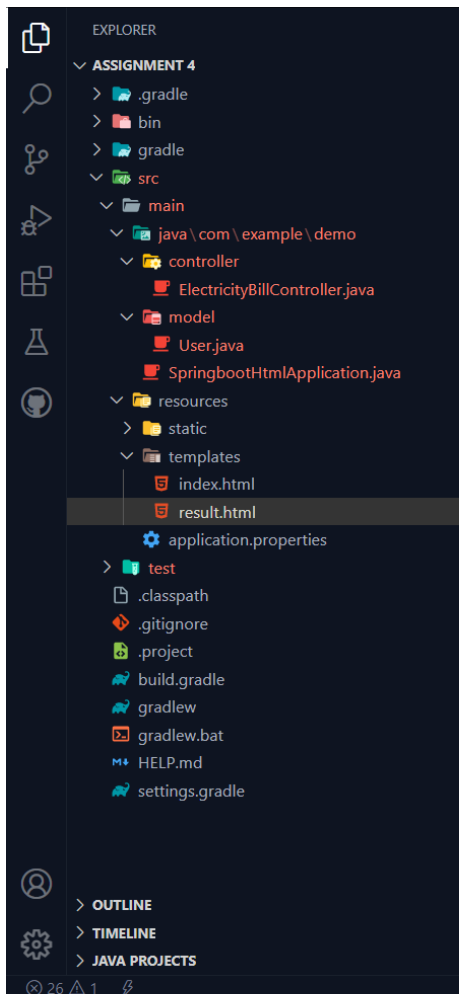
```
        </h5>
    </footer>
    <link rel="stylesheet" href="CSS/styles.css" />

    <script src="./script.js"></script>
</body>
</html>
```

[templates/result.html](#)

```
<!DOCTYPE html>
<html>
<head>
    <title>Electricity Bill Calculator</title>
</head>
<body>
    <h1>Electricity Bill Calculator</h1>
    <p>Your bill amount is: <b th:text="{ $result }"></b></p>
</body>
</html>
```

OUTPUT



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Reading Group : 34

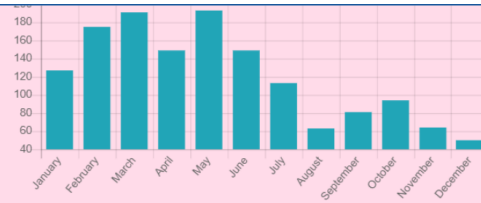
Billing Unit : Bibwewadi
Rate Indication : 090 /LT-I (B)
Poll Number : 00000000
P.C./D.T.S : 1388358
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ConsumerPortal > CGRF

Important

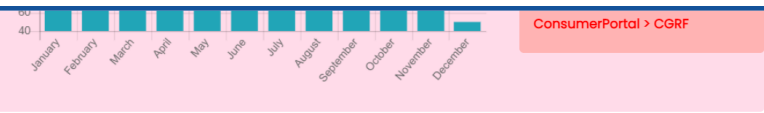
1. Register for e-bill instead of printed bill and get Rs.10 Go-Green discount on every bill. To register:-
<https://pro.mahadiscom.in/GoGreen/gogreen.jsp> (GGN number on your printed bill (available in the upper left corner.))
2. Pay electricity bill digitally and get 0.25% (up to Rs.500/-) discount (excluding taxes and duties)
3. If your mobile number and email address are incorrect, visit here - <https://consumerinfo.mahadiscom.in/>
4. The next month's reading will usually be on 30-01-2023.

www.mahadiscom.in > ConsumerPortal > CGRF

Enter Number of Units :

Calculate Bill

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ConsumerPortal > CGRF

Important

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www.mahadiscom.in > ConsumerPortal > CGRF

Enter Number of Units :

Calculate Bill

Rs. 105.00

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