Name: Anish Hemant There

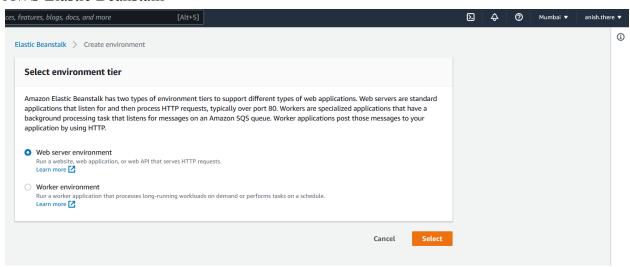
Reg. No: 19BCE1349

Course: Cloud Computing for AI / ML

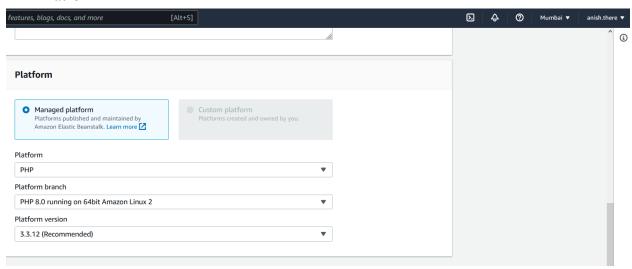
Topic: Cloud based electricity bill calculation platform with a load balancer and

monitoring services

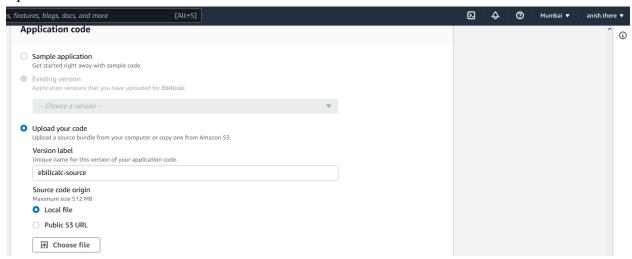
1. AWS Elastic Beanstalk



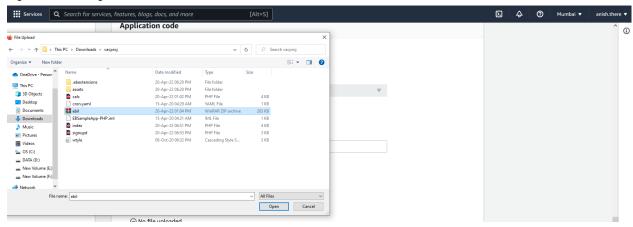
2. PHP Platform



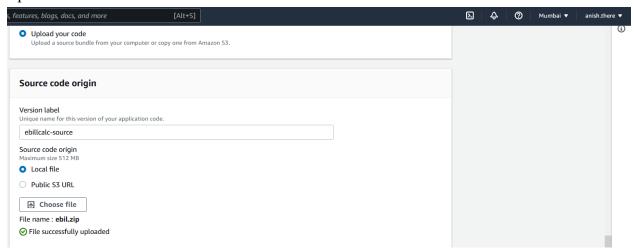
3. Upload code



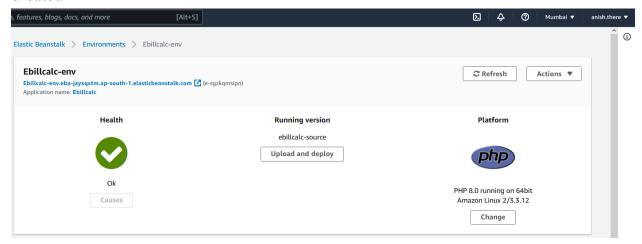
4. Upload the zip



5. Uploaded



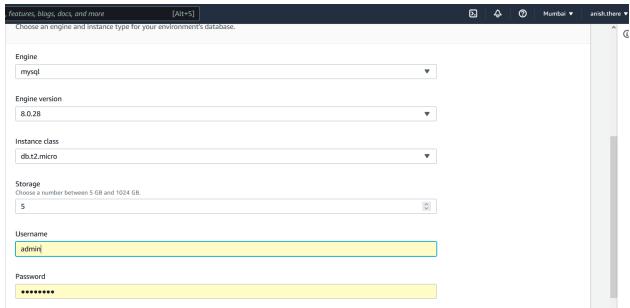
6. Created



7. Adding database in configuration tab

Database		Edit	

8. Mysql database



9. Create environment variables from software in configuration

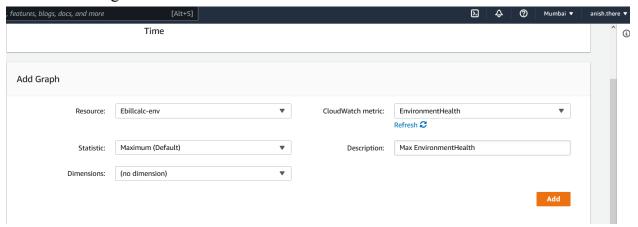
Allow URL fopen: On
Display errors: Off
Document root: -Log streaming: disabled

Max execution time (seconds): 60
Memory limit: 256M
Proxy server: nginx
Rotate logs: disabled
X-Ray daemon: disabled
Zlib output compression: Off

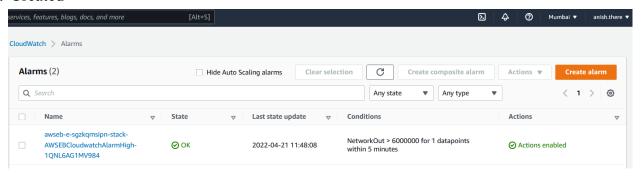
10.

Environment properties The following properties are passed in the application as environment properties. Learn more Name Value × RDS_HOSTNAME Ebillcalc-env-1.eba-58fa4md9.ap-south-1.elasticbeanstalk.com × RDS_PORT 3306 × RDS_DB_NAME db1 × RDS_USERNAME admin RDS_PASSWORD × 12345678

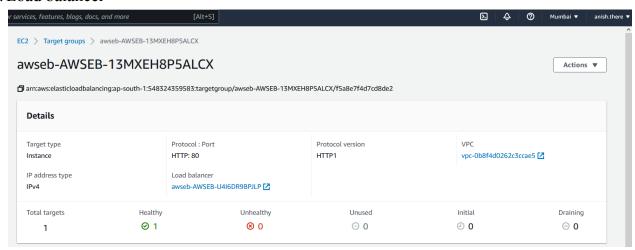
11. Add monitoring



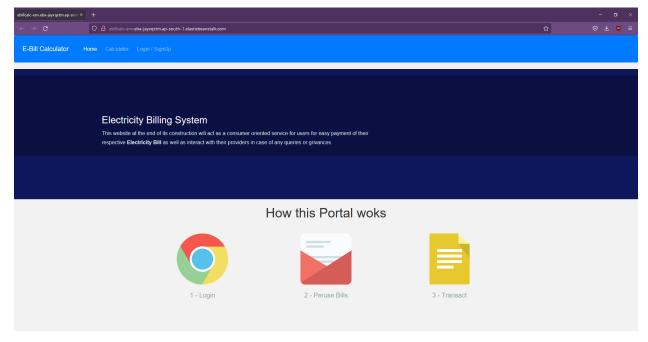
12. Created



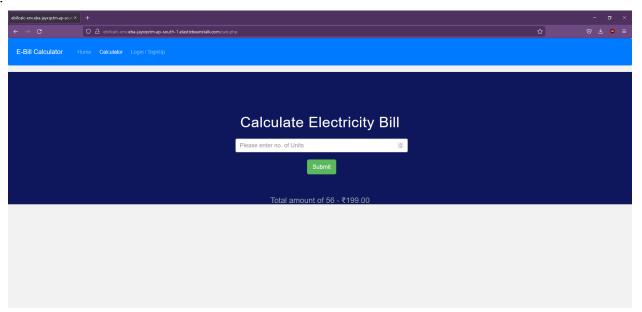
13. Load balancer



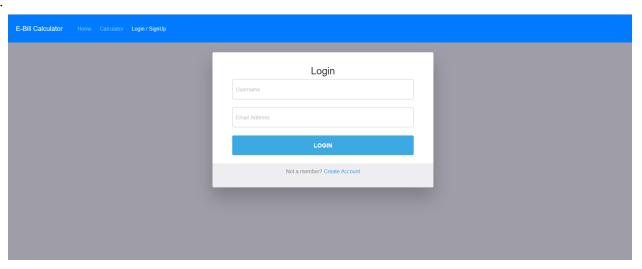
14. Website



15.



16.



Code:

Index.php

```
<html lang="en">
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1,</pre>
shrink-to-fit=no">
   <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.
css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">
<link href="assets/css/font-awesome.css" rel="stylesheet">
   <nav class="navbar navbar-expand-lq navbar-dark bq-primary">
 <a class="navbar-brand" href="index.php"><h4 style="color:white">E-Bill
Calculator</h4></a>
 <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
 <div class="collapse navbar-collapse" id="navbarNav">
   <a class="nav-link" href="index.php"</pre>
style="padding-right:20px;">Home <span</pre>
class="sr-only">(current)</span></a>
     <a class="nav-link" href="calc.php"</pre>
style="padding-right:20px;">Calculator</a>
```

```
<a class="nav-link" href="signupd.php"</pre>
style="padding-right:20px;">Login / SignUp</a>
<div id="headerwrap">
                    <div style="padding-left: 270px;">
                         <h2 style="color: white">Electricity Billing
System</h2>
                         This website at the end of its construction
will act as a consumer oriented service for users for
        easy payment of their <br/>
<br/>br>respective <br/>
<br/>
Electricity Bill</b> as
well as interact with their providers
        in case of any queries or grivances. 
    <div class="container">
        <div class="row mt centered">
            <div class="col-lg-6 col-lg-offset-3">
                <h1>How this Portal woks</h1>
        <div class="row mt centered">
                < h4 > 1 - Login < /h4 >
```

```
<h4>2 - Peruse Bills</h4>
           <div class="col-lg-4">
                <h4>3 - Transact</h4>
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpq6aAZGJwFDMVNA/GpGFF93
hXpG5KkN" crossorigin="anonymous"></script>
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXu
svfa0b4Q" crossorigin="anonymous"></script>
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+
76PVCmY1" crossorigin="anonymous"></script>
```

Calc.php

```
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJ1SAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">
<link href="assets/css/bootstrap.css" rel="stylesheet">
 <link href="assets/css/font-awesome.css" rel="stylesheet">
<link href="assets/css/main.css" rel="stylesheet">
<body>
<?php
$result str = $result = '';
if (isset($ POST['unit-submit'])) {
           $units = $ POST['units'];
           if (!empty($units)) {
                        $result = calculate bill($units);
$result;
function calculate bill($units) {
            $unit cost first = 3.50;
            $unit cost second = 4.00;
            $unit cost third = 5.20;
            $unit cost fourth = 6.50;
            if($units <= 50) {
                        $bill = $units * $unit cost first;
            else if($units>50 && $units<=100) {
                        $temp = 50 * $unit cost first;
                        $remaining units = $units - 50;
                        $bill = $temp + ($remaining units * $unit cost second);
            else if($units > 100 && $units <= 200) {
                        temp = (50 * 3.5) + (100 * temp = (50 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100 * 4.5) + (100
                        $remaining units = $units - 150;
                        $bill = $temp + ($remaining units * $unit cost third);
```

```
temp = (50 * 3.5) + (100 * temp = (50 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + (100 * 5.5) + 
$unit cost third);
                         $remaining units = $units - 250;
                         $bill = $temp + ($remaining units * $unit cost fourth);
            return number format((float)$bill, 2, '.', '');
     <a class="navbar-brand" href="index.php"><h4 style="color:white">E-Bill
Calculator</h4></a>
      <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
           <a class="nav-link" href="index.php"</pre>
style="padding-right:20px;">Home <span
class="sr-only">(current)</span></a>
                  <a class="nav-link" href="calc.php"</pre>
style="padding-right:20px;">Calculator</a>
                  <a class="nav-link" href="signupd.php"</pre>
style="padding-right:20px;">Login / SignUp</a>
     <div id="headerwrap">
           <h1>Calculate Electricity Bill</h1>
```

Signup.php

```
$ SERVER['RDS PASSWORD'],
 if (!$con) die('Could not connect: ' . mysql error());
 $con->query("DROP TABLE IF EXISTS user");
 $con->query("CREATE TABLE 'user' (
   'id' int(14) NOT NULL,
   'name' varchar(40) NOT NULL,
   'email' varchar(40) NOT NULL,
   'phone' varchar(255) NOT NULL,
   'pass' varchar(20) NOT NULL,
 )");
 $sql = "INSERT INTO user ('name', 'email', 'pass')
 VALUES('$name','$email','$password')";
 echo $sql;
 if (!mysqli query($con,$sql))
   die('Error: ' . mysqli error($con));
 header("Location:index.php");
<nav class="navbar navbar-expand-lg navbar-dark bg-primary">
 <a class="navbar-brand" href="index.php"><h4 style="color:white">E-Bill
Calculator</h4></a>
 <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
```

```
<a class="nav-link" href="index.php"</pre>
style="padding-right:20px;">Home <span</pre>
class="sr-only">(current)</span></a>
     style="padding-right:20px;">Calculator</a>
       <a class="nav-link" href="signupd.php"</pre>
style="padding-right:20px;">Login / SignUp</a>
 <h2>Login</h2>
   <input type="text" id="name" name="name" placeholder="Name"</pre>
required><i class="validation"><span></span><span></span></i>
   <input type="email" id="email" name="email" placeholder="Password"</pre>
required><i class="validation"><span></span><span></span></i>
   <input type="submit" id="login" value="Login">
   Not a member? <a href="#">Create Account</a>
```