LOVELY PROFFESIONAL UNIVERSITY

TOPIC : Electricity Bill payment

FINAL REPORT

SECTION : K19PG

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INTRODUCTION

Power and Energy are two essential inputs for economic development and improving the quality of life in India. Development of conventional forms of energy for meeting the growing energy needs of society at a reasonable cost is the responsibility of the Government. This section focuses on the growth of both conventional and non-conventional form of energy in the country. Details of the schemes, policies, reports, statistics related to the sector are available. Special initiatives by the Union and state governments to promote the non-conventional/alternate/new and renewable sources of energy such as solar, wind and bio-energy, etc., are also mentioned.

Paying bills is now easy than ever, whether it is your electricity bill, water bill, telephone bill, etc; you are just a few clicks away from paying the tax. The old mediocre ways of standing in a queue are gone, this is the 21st century and people can do a lot of things while sitting on a chair.

It's 2020 and in this generation everyone is trying to do every possible work online as fast as possible. We can say it as generation of shortcuts. So here we go , our website is about paying bills online including some awareness . It's about paying electricity bills online. There are five portions in it : a. Tips to save electricity , b. Log in and sign up , c. FAQs , d. Some quick links including payment, some history and much more, e. High electricity consumption areas .

AIM

1. Make people aware about electricity usage .
2. To link the user for getting data about Indian electricity consumption in whole .
3. Allow user to have easy electricity bill payments
4. Helps to know about history of electricity and paying bills
5. Using this website user can keep himself updated with contents like :

* His electricity consumption
* Live updates of electricity consumption in India

IMPLEMENTATION

In Designing the web site we used HTML .So ,the first thing to be remembered is whatever the tag we open(i.e. <>) we must need to close(i.e.  </>) it even.

Every HTML extension file begins with the <html> tag and we close this tag at the end of the code with </html>. Then going ahead with our code we used head tag(<head>). It is used to contain specific information about a web page, often referred to as metadata. This information includes things like the title of the document (which is mandatory), as well as scripts or links to scripts, and CSS files. The following sections contain information about the <head> tag, including elements that are stored within it, as well as related attributes and browser compatibility.

Next comes bold tag(<b>) which specifies the text in the paragraph with bold letters.

And then center tag(<center>) which places the paragraph at the centre of the page. Followed by paragraph tag(<p>) in which we can write any text before we close the tag. Style gives the background-color of the paragraph as written as " Home about Contact us" in our code.

Then we've opened a title tag(<title>) for giving a title to the page and we titled it as " INDIAN ELECTRICITY PAY COUNTER".

Next we go with style tag(<style>)  which is used to define style information for an HTML document.

Inside the <style> element you specify how HTML elements should render in a browser.

Next we used division The <div> tag defines a division or a section in an HTML document.

The <div> element is often used as a container for other HTML elements to style them with CSS or to perform certain tasks with JavaScript.

Then we described color as dark blue, border-style as solid, border-color as brown, background color as white.

Then body description with a background image and background position at center.

a:hover selector which is used to select elements when you mouse over them.

 The :hover selector can be used on all elements, not only on links.

Use the :link selector to style links to unvisited pages, the :visited selector to style links to visited pages, and the :active selector to style the active link.

And then ,we described it with color as red,text decoration as underline,font size as 30pixels.

Then we closed style tag & head tag.

Followed by this we opened body tag(<body>) which defines the document's body.

The <body> element contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.

Then we opened the table tag(<table>) which defines an HTML table.

An HTML table consists of the <table> element and one or more <tr>, <th>, and <td> elements.

The <tr> element defines a table row, the <th> element defines a table header, and the <td> element defines a table cell.

A more complex HTML table may also include <caption>, <col>, <colgroup>, <thead>, <tfoot>, and <tbody> elements.

Then a table row tag(<tr>) defines a row in an HTML table.

A <tr> element contains one or more <th> or <td> elements.

Then <td> tag which

defines a standard cell in an HTML table.

An HTML table has two kinds of cells:

Header cells - contains header information (created with the <th> element)

Standard cells - contains data (created with the <td> element)

The text in <th> elements are bold and centered by default.

The text in <td> elements are regular and left-aligned by default.

Then division tag<div>defines a division or a section in an HTML document.

The <div> element is often used as a container for other HTML elements to style them with CSS or to perform certain tasks with JavaScript.

Next we used header 1tag(<h1>).The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

In this we opened a paragraph tag styled with background color as light blue for creating login.

Then we used input tag for creating login credentials input boxes named as "User name" which input type as text and then we used <br> tag The <br> tag inserts a single line break.

The <br> tag is an empty tag which means that it has no end tag & "Password" which has input type as password and immediately we used <br> for breaking it.

The <input> tag specifies an input field where the user can enter data.

<input> elements are used within a <form> element to declare input controls that allow users to input data.

An input field can vary in many ways, depending on the type attribute.

Then we input type for submit and reset.

And then closed the division tag.

Then we opened a <td> tag again and also a <div> tag.

Followed by we used The <marquee> tag is a container tag of HTML that is implemented for creating scrollable text or images within a web page from either left to right or vice versa, or top to bottom or vice versa.

And then <b> tag and <i> tag which makes the text bold and italic and then <h1> and followed by <p> tag styling it with background color as light blue and text shadow with 3px 3px green with the text as "TIPS: NO-COST WAYS TO SAVE ELECTRICITY" then </p>,</h1>,</I>,</b>.

And closed with </marquee>. Then with the tips written as

1.Turn off unnecessary lights

<br> tag

2.Use natural light

<br> tag

3.Use task lighting

<br> tag

4.Take shorter showers

<br> tag

5.Fix that leaky faucet.

<br> tag

6.Unplug unused electronics.

<br> tag

7.Ditch the desktop computer

<br>

8.Not home? Turn off the air conditioner.

<br>

9. Recycle or donate that old TV

<br>

10. Be strategic with window coverings.

<br>tag

11.Reduce heat in the kitchen

<br> tag

12.Wash laundry

<br> tag

13. Hang dry laundry

<br>

14.Toss a towel in the dryer.

Then we closed </div> tag , </td> tag, </p> tag.

Then we initiated <td> tag and a <div> tag,<h2> tag,<b> tag,<p> tag styling with background color as light blue with the text "Quick Links" and closed </b></h2></p>.

Then <a> tag which defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

An unvisited link is underlined and blue

A visited link is underlined and purple

An active link is underlined and red

href attribute specifies the location (URL) of the external resource (most often a style sheet file).

We used both of the <a> tag and href attribute for generating the link provided in the code as :

Pay Your Bills ( when user click on the link it will directly take u to paytm so he can easily pay his bills )

Consumption History

Nearest Service

New Connection

24\*7 ( it will keep the user updated with Indian electricity consumption)

Then proceeded with closing </div> tag,</td>tag,</tr> tag.

Then initiated a <tr>tag, a <td> & a <div>again

And also a <font> tag which specifies the font face, font size, and color of text.

We gave size as 7 and then opened a <p> tag styling with background color as light blue and the text as "FAQ's" and then closed </font></p>

And then <br> for breaking the line.

And the FAQ's mentioned as:

1-Do you pay more for prepaid electricity?

<br>tag

2-Why is prepaid electricity more expensive?

<br>tag

3-How long is a prepaid electricity voucher valid for?

<br>tag

4-How does prepaid electricity work?

<br>tag

Then closed </div></td> tags

And then opened <td>, <div>,<b><font> with size of text as 5 and <p> tag styling with background-color as light blue and the text as "High Consumption States" then immediately closed</font></b></p>and used <br> tag for breaking the line.

And the high consumption states mentioned as:

1-Maharashtra

<br> tag

2-Gujarat

<br> tag

3-Tamil Nadu

<br> tag

4-Andhra Pradesh

<br> tag

5-Uttar Pradesh

<br>tag

And then continued the list with a underlined word "continue" placed at center using <center> and <u> tag and closing them.

Then we closed </div> ,</td>and also </tr>

Then we initiated <tr>,<td> for creating new cell.

And then followed by <center><p> tag styling with background-color as light blue and with the text depicting as "@ INDIAN ELECTRICITY" at center of the cell of page because of <center>tag then immediately we closed </center>&</p>.

And also closing </tr>,</td>.

And finally closing </table>,</body>&</html>.

Finally on executing the code used we get required output in the form of a webpage.

This is how we designed our website.

DEMAND OF WEBSITE

This is the era of internet where almost all the payments and transactions go on in the cyber world and each state has its separate electricity board for example in Gujarat there is DGVCL electricity bill payment and many other as per the respective states. Well for starters the most used necessities that all the people use are, food, clothing, electricity, and housing. Out of these, there are a large number of deals and discounts that are provided by the various commerce sections to increase the business. Now various payment apps have started to give “electricity bill payment offers” and discounts as well. Now there is no need of you standing in long queues waiting for paying the current well. There are many electricity bill payment apps that help you pay the money by sitting at home. This not only decreases the effort and time but also saves money. So here are some ways on how you can avail electricity bill cashback offer and various discounts.

PAYMENT APPS THAT PROVIDE VARIOUS OFFERS AND DEALS:

A huge number of payment apps such as Mobikwik, Cubber, Paytm, Freecharge, Google Pay, etc. have started giving out the offers and discounts on the electricity bill. They merge with the electricity boards of the respective states and allow us to make payment through the apps and also provide electricity bill payment offers like discounts and also electricity bill cashback offer where you pay the amount and a certain amount of money is return back so that you can use the returned money for other purposes. To get the best deals here are some important tips that you can follow.

1. Install various apps and login to them. Always have the apps on your mobile so that the app can notify you whenever a new deal is present in the app.

2. Follow emails and text messages. Sometimes, the apps may not give notification directly but they might be in the form of emails and messages. So subscribe to their mailer campaign so that you can get all the information and to be notified.

3. There are a lot of third-party apps and websites that provide you other discounts like Nearbuy, Cubber, Groupon, etc. where they can aid you to provide an additional discount on the apps that you use to pay the electricity bill payment.

4. Always remember to use the promo codes. A majority of times, the app provides auto discounts where no code is needed. But sometimes, when the code is necessary we may forget to use the promo codes and we get no discount.

So the next time you want to pay your electricity bill, remember to use electricity bill payment apps and save money and also time. Here we see the increasing demand of online electricity bill payment.

SOME WAYS OF ONLINE PAYMENT

Let us check some ways in which you can pay your electricity bills online.

* Through the state website for bill payments

Most of the families in India get the bill for 2 or 1 month of the electricity used. A government servant delivers the bill straight to your door. The bill that you get, also mentions the state’s website for online payment of bills. Go to that website or just Google search “Pay electricity bills in Uttarakhand (for example)”, you will get the link to the official website in which you can find the option create an account and to submit the bills online. The payment is done through net banking and quick payment options then.

* Through Digital Wallets

Digital Payments platforms such as Paytm, Google Pay, Freecharge, BHIM/UPI, PhonePe, etc are becoming famous these days; they have revolutionized the way of transactions and payments regarding anything. If you have a smart phone, all you need to do it download the app, fill up your credentials and pay for whatever you need to, from bills to daily needs, you have everything at your disposal. And the fun thing about these apps is that you also get cash back offers. The best in this arena is Paytm mobile wallet.

* Through Third Party Portals

These are the websites which have been in the market for a while and are especially used to submit bills online. Third party payment portals such as Bill Desk, Bharat Bill, and Visa Bill Pay, allow users to pay bills on their website. Making an account is compulsory before you pay the bill. These portals are the safest ways to pay your electricity bills online.

ALREADY EXISTING ONLINE BILL PAYMENT APPS

* Paytm
* PhonePe
* FreeCharge
* Mobikwik
* Google Pay (Tez)

1. Paytm

Paytm is India’s number one wallet and payment app with over 200 million users. With Paytm app it is simple to send or receive money and to pay stores using QR codes scanner. create your BHIM/UPI Id and send or receive funds. You can link your bank account or open a savings account with Paytm Payment Bank. You can send money directly from your bank account to any bank account with 0% charge. The best feature is that you can do all your utility bill payments in a few easy steps. This app lets you book IRCTC train tickets including tatkal tickets at no extra charges. You can also add money to your Paytm wallet and make quick payments. Also, grab heavy discount coupons on various brands across multiple categories with Paytm’s hot deals and offers. This is the best e-wallet app out there in India.

Main features:

Mobile Recharge & Bill Payment.

Money Transfer

Water, Gas & Electricity Bill Payment.

2. PhonePe

PhonePe is India’s one of the most popular Payment app. PhonePe is a revolutionary way to make mobile payments in India. From UPI payments to recharges, money transfers to online bill payments you can do it all using this app. This app is a than Internet banking and offers you the safest and fastest online payment experience in India. PhonePe also provides you with a digital mobile wallet for faster refunds and cash back from the merchant partners of the app. You can spend your wallet balance or withdraw it into your linked bank accounts in one quick swipe. You can do easy and fast recharges for mobiles, DTH, data cards and also pay gas, electricity, landline, and other utility bills.

Main Features:

Send and request money.

Recharge prepaid Mobile.

Pay for utilities such as electricity and gas bills.

Get refunds and cashbacks.

3. Freecharge

Now go cashless with free charge. You can pay electricity, gas, landline, broadband bills, do mobile/DTH recharges and so much more. You can make charity donations, do Google Play recharges, invest in mutual funds, get easy credit through Freecharge EMI, shop at your favorite brands & pay with Freecharge across categories like movies, entertainment, food, shopping, travel to get cashback & discounts. You can buy deals starting at Rs 1, send and receive money in an instant.

Main Features:

UPI Payments.

Mobile Recharges.

Bill Payments.

Google Play Recharges.

4. Mobikwik

Mobikwik is super fast and hassle-free. Mobikwik is the best app for all your mobile payments, shopping, and recharge. Pay for your online recharge, DTH recharge. Book bus tickets, IRCTC trains very easily. Also, you can pay for electricity, gas and other amenities. Split party bills with your friends, transfer money to your family or clear your balance at the nearest store. This is a fast and secure digital payment option working 24×7. Mobikwik has rolled out the first of its kind instant credit product called “Boost”. The app users can apply for a loan within seconds in their wallet and get the loan disbursed in their wallet in 90 seconds.

Main Features:

Unified Payments Interface (UPI) – Money Transfer Instantly.

Mobile Recharge & Bill Payment.

DTH & Data Card Recharge.

Pay Utility Bills: Electricity, Gas and Water.

5. Google Pay

Send money to friends, pay bills and buy things online, recharge your phone or pay at a nearby cafe with Google Pay, Googles digital payment app. Google Pay works with your existing bank account which means your money is safe with your bank. There is no need to worry about reloading wallets and you don’t need to do additional KYC. You can conveniently pay for electricity bills, gas, water, DTH, mobile and more. You only need to link your biller accounts once to pay your bill with just a few taps.

Main Features:

Pay and receive money straight from your bank account.

Pay anyone. Even those without Google Pay.

Conveniently pay bills.

Multiple layers of security from your bank, UPI, and Google.

Transfer money to anyone

DRAWBACKS

* Weak internet signals which leads to dicline in transaction.
* May be user don't use or don't have knowledge of online payments.
* Security concerns
* Increased business costs
* Technical problem