CHAPTER V
IMPLEMENTATION AND TESTING

5.1 Implementation

First we need to enable localhost through the terminal in Linux. After that we open a browser to view the application program by filling url with localhost name and the name of the php file in the program files.

5.1.1 Step 1 - Preprocessing

Coding is intended to separate the date because in my output in the first localhost I have to input the date, then I use this coding to separate the digits in the date.

Figure 5.1.1 Preprocessing
5.1.2. Step 2 – Declared in the table column names and variable

This coding function to retrieve a txt database by using fopen while, after retrieving data from the database in the form of txt then we will take a column of the data txt, txt after retrieving data from the last few columns we made coding to retrieve data from the data txt through input by taking a date.

Figure 5.1.2 Declared in the table column names and variable
5.1.3 Step 3 – Open the database and specify the data input through the date

This coding function to retrieve a txt database by using fopen while, after retrieving data from the database in the form of txt then we will take a column of the data txt, txt after retrieving data from the last few columns we made coding to retrieve data from the data txt through input by taking a date.

```
while ($feof($f))
    $arrM = split(';', fgets($f));
if ($i=0)
    
for($i=0;$i<count($arrM)-5;$i++)
    
    $count=count($row);
    for($i=0;$i<count($row);$i++)
        
        $dataa=explode(',',$row[$i]);
    if ($dataa['2'] and $dataa['3'] and $dataa['6'])
        
        $c=round($row[2],2);
        $v=
        printf "<tr>
            <td>$dataa[0]</td>
            <td>$dataa[1]</td>
            <td>$dataa[3]</td>
            <td>$dataa[4]</td>
            <td>$dataa[5]</td>
            <td>$c</td>
        </tr>
    
    //
```

Figure 5.1.3 Open the database and specify the data input through the date
5.1.4 Step 4 – Calculating Percentage of Text Similarity

This coding is used to seek input data in a way that has been split between the date of the month and year that already exists in the database.txt. After searching the data through the last date we scored a table that contains a column of data that has been determined from the coding above earlier. After scoring table then we start counting results amount of electricity per day, the average daily usage, and standard deviation.

Figure 5.1.4 Calculating Data
5.1.5 Step 5 – Check the data through the date

This coding function for sorting the data that will come out per day or to say we check the data through date, i.e. the date of our data the number 23 in the output at the date of going to print as many as 23 data and if we want to insert data in the database, the data will be will automatically appear in line with the date.

```
if (data == '2021-01-23') {
    print "<tr align="center">";  // Output table
    print "<td align="center">2021-01-23</td>
    print "<td align="center">";  // Output number
    print "<td align="center">23</td>
    print "<td align="center">";  // Output the number of data
    print "<td align="center">";  // Output other data
}
```

Figure 5.1.5 Check the data through the date
5.1.6 Step 6 – Print the final result

Print end table and print the results of the calculation results average per day and per day and the total amount per day.

```php
if ($scount == $num) {
    print '<tr>
        <td> </td>
    </tr>';
    $scount = 1;
} else {
    $scount++;
}

print '<tr>
    <td>Subtotal: Total: </td>
    <td>', round($totalrate2, 2), '</td>
</tr>';

print '<tr>
    <td>Number of days: </td>
    <td>', round($totalrate2/7, 2), '</td>
</tr>';

if ($scount == 1) {
    while ($scount <= $num) {
        print '<table><tr><td>', $totalrate2/7, '</td>

        $scount++;
    }

print '</table>';

$dataset = round($totalrate2/7, 2);
```

Figure 5.1.6 Print the final result
5.1.7 Step 7 – Predictions

The following coding is used to calculate the predicted price in the form of dollars by determining a benchmark of the average daily electricity usage.

```
229 <script type="text/javascript" language="javascript">
230 var field, val, form = ctext.form, hrgl = a = b = c = d = e = f = g = h = i = j = k = l = m = n = o = p = q = r = s = t =
231 var totForm.ttl.value;
232 var byrForm.byq.value;
233 var n= Math.round(byr/tot);
234 ifForm.hrl.value = tttl; //out
235 </script>
236 </head>
237 </body>
238 </html>
```

Figure 5.1.7 Predictions
5.1.8 Step 8 – Graph

Coding function below to see how it compares to the use of electrical pulses from week one to week through the other graphs that have been shown through the above calculation.

Figure 5.1.8 Graph
5.2 Interface

5.2.1 Main Menu Window

After enabling localhost ago we entered our browser, after that we can see how we can input the date of the month and year that we wanted. In addition we can also choose the type of power supply voltage that we use at home.

![Main Menu Window Image]

Input Tanggal

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Figure 5.2.1 Main Menu
The page contains a table labeled "Data Frame Analysis List". The table includes columns for Date, Time, Epoch, and Value. There is a note: "Values used and unused money shown in the third week."

"We can look at the details of the form on the name of the tool and the data input the date and the type of electricity that we use so that.

"5.2.2 Result Window"
5.2.3 Process Window

Once we look at our data and we can do the calculation predictions by filling the textbox with a nominal dollars that we want, when we input nominal dollars it will immediately appear in the form of the number of days predicted results.

![Image of data table]

**Figure 5.2.3 Process Prediction**
5.2.4 Graph Window

Once we predict our electricity usage and then we submit the link graph and statistical graph will appear that will show the comparison of electricity consumption per week for three weeks.

Figure 5.2.4 Process Displayed Graph
5.2.5 Main Menu Window

Once we predicted electricity usage and see the electricity usage comparison chart for three weeks, and if we want to look at different dates of our stay click the Input New Date and will return to the initial menu.

![Input Tanggal](image)

Figure 5.2.5 Back to Main menu