**PRODUCT REVIEW ANALYSIS FOR GENUINE RATING**

**A Project Report submitted in partial fulfilment of the requirements for the**

**award of the degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**Submitted by**

**Batch 6**

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**DECLARATION**

We hereby declare that the project review entitled “**PRODUCT REVIEW ANALYSIS FOR GENUINE RATING**” is an original work done in the Department of Computer Science and Engineering, GITAM Institute of Technology, GITAM (Deemed to be University) submitted in partial fulfilment of the requirements for the award of the degree of B.Tech. in Computer Science and Engineering. The work has not been submitted to any other college or University for the award of any degree or diploma.

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**CERTIFICATE**

This is to certify that the project report entitled “**PRODUCT REVIEW ANALYSIS FOR GENUINE**” is a bona-fide record of work carried out by **Batch 6** students submitted in partial fulfillment of requirement for the award of degree of **Bachelors of Technology** in Computer Science and Engineering.

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**ACKNOWLEDGEMENTS**

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I perceive as this opportunity as a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, in order to attain desired career objectives. Hope to continue cooperation with all of you in the future.

Sincerely,

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**1.Abstract:**

This system is used to help a user to get a product at its best choice and best price. The Admin and the user part both are an Website thus the front end uses HTML, CSS and SQL Server as its Backend. This system allows the user to look into a product with different rating rated by other users and for his simplicity the system shows the overall average rating of that product. The System is meant to give a rough as well as a much detailed idea of whether the user should go for a product. The System gives a list of sellers and its price offered which is added by the admin for the user’s convenience and preference. The Users role is to check out for the product using all the resources offered by the system in finding the best product and give his rating and review. The User is also allowed to give his feedback. The Admin is responsible to add update or delete a product while adding seller’s information as well and likewise view users and their feedbacks.

**2.Problem Statement:**

Mobiles are attractive because they are robust, reliable, available and especially because they are easy to use and provide a wide range of functionality. There are thousands of smart phones in the market and the review for there are written in critics personal opinion or fake reviews. Due to this the consumer is getting hired to a device with higher rating in some website and is not satisfied with overall product. Most of the billion dollar market companies pay the critics or website the boast the ratings which boost the sales where in the website that be great only customers ratings will be posted by averaging their ratings.

**3.Introduction:**

Here we propose an advanced Products Review analysis system which provides a platform to registered users to rate a particular or multiple products using this system. Product review analysis is a web application which consist multiple products added by admin to review to rate and review them. The System takes reviews of various users, based on their personal opinion, system will specify whether the posted product is good, bad, or worst. We use a database of sentiment based keywords along with positivity or negativity weight in database and then based on these sentiment keywords mined in user review is ranked. Once the user login to the system he views multiple products and gives review about the product. User can view product description, price and links to buy the product. System will use database and will match the review with the keywords in database and will rank the review. The role of the admin is to add new products, their description and also provide link to buy the product into database. Admin can also view added products, view registered users and view system related feedbacks from the registered users. This application is also useful for the users who want to buy new product. This system helps to find out good product based on multiple user’s positive reviews.

**4.Exsisting System:**

In the existing system, Products Review analysis system which provides a platform to registered users to rate a particular products using this system. Product review analysis is a web application which consist multiple products added by admin to review to rate and review them. The System also allows the user to compare 2 products of the same kind or same category and to rate and review the product as he wishes too but limiting to only once per product.

**DRAWBACKS**

➢It requires active internet connection else error may occur.

➢Wrong reviews and ratings will affect the overall ratings of a product.

**5.Proposed System:**

We propose an advanced Products Review analysis system which provides a platform to registered users to rate a particular or multiple products using this system. The system uses product review analysis in order to achieve desired functionality. Product review analysis is a web application which consist multiple products added by admin to review to rate and review them. The System takes reviews of various users, based on their personal opinion, system will specify whether the posted product is good, bad, or worst. We use a database of sentiment based keywords along with positivity or negativity weight in database and then based on these sentiment keywords mined in user review is ranked. Once the user login to the system he views multiple products and gives review about the product. User can view product description, price and links to buy the product. System will use database and will match the review with the keywords in database and will rank the review. This application is also useful for the users who want to buy new product. This system helps to find out good product based on multiple user’s positive reviews.

**5.1.Requirement:**

**SOFTWARE:**

1. Windows XP or Higher Level
2. XAMPP and MySQL Database
3. Pycharm(IDE)
4. Python
5. Google Chrome or FireFox.

**HARDWARE:**

1. Processor – Intel i3 or Higher
2. HardDisk – 3GB, Space Available
3. Memory – 4GB RAM.

**6.Sample Code:**

**1. HTML AND CSS (FRONTEND):**

HTML is the standard markup language for creating Web pages.

* HTML stands for Hyper Text Markup Language
* HTML describes the structure of a Web page
* HTML consists of a series of elements
* HTML elements tell the browser how to display the content
* HTML elements are represented by tags
* HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
* Browsers do not display the HTML tags, but use them to render the content of the page

Example:

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>My First Heading</h1>  
<p>My first paragraph.</p>  
  
</body>  
</html>

### Example Explained

* The <!DOCTYPE html> declaration defines this document to be HTML5
* The <html> element is the root element of an HTML page
* The <head> element contains meta information about the document
* The <title> element specifies a title for the document
* The <body> element contains the visible page content
* The <h1> element defines a large heading
* The <p> element defines a paragraph

**CSS** stands for **C**ascading **S**tyle **S**heets

CSS describes how HTML elements are to be displayed on screen, paper, or in other media

CSS saves a lot of work. It can control the layout of multiple web pages all at once

External stylesheets are stored in **CSS files.**

Code For Home Page Using CSS:

<html>

<head>

<title>genuine review</title>

</head>

<body>

<table border="3" width="100%" bgcolor="white" height="15%">

<tr><th width="100%" bgcolor="blue"><h1>GENUINE REVIEW</h1></th></tr>

<table border="3" width="100%" bgcolor="white" height="70%">

<tr>

<th width="25%" bgcolor="white"><a href="iphone.html"><img src="iphone11.jpg" width="80%" title="iphone"></a></th>

<th width="25%" bgcolor="white"><a href="samsung.html"><img src="samsung s10plus.jpg" width="80%" title="samsung"></a></th>

<th width="25%" bgcolor="white"><a href="1+.html"><img src="1+ 7t pro.jpg" width="80%" height="40%" title="oneplus"></a></th>

<th width="25%" bgcolor="white"><a href="pixel.html"><img src="pixel4.jpg" width="80%" height="30%" title="pixel"></a></th>

</tr>

</table>

<table border="3" width="100%" bgcolor="white" height="7%">

<tr>

<th width="25%" bgcolor="white"><a href="iphone.html">iphone</a></th>

<th width="25%" bgcolor="white"><a href="samsung.html">Samsung</a></th>

<th width="25%" bgcolor="white"><a href="1+.html">One plus</a></th>

<th width="25%" bgcolor="white"><a href="pixel.html">Google pixel</a></th>

</tr>

</table>

</body>

</html>

**Login Page Using HTML:**

<html>

<head>

<title>login form</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="login-page">

<div class="form">

<form class="register-form">

<input type="text" placeholder="username"/>

<input type="text" placeholder="password"/>

<input type="text" placeholder="email id"/>

<button>Create</button>

<p class="message">Already Registered? <a href="#">login</a>

</p>

</form>

<form class="login-form">

<input type="text" placeholder="username"/>

<input type="text" placeholder="password"/>

<button> <a href="review.html">login</a></button>

<p class="message">Not Registered? <a href="#">Register</a></p>

</form>

</div>

</div>

<script src='http://code.jquery.com/jquery-3.2.1.min.js'>

</script>

<script>

$('.message a').click(function(){

$('form').animate({height:"toggle",opacity:"toggle"},"slow");

});

</script>

</body>

</html>

**File Used To Authenticate The User:**

Login.php

<?php

require("config.php");

// Assigning POST values to variables.

$username = mysqli\_real\_escape\_string($db, $\_REQUEST['lusername']);

$password = mysqli\_real\_escape\_string($db, $\_REQUEST['lpassword']);

// CHECK FOR THE RECORD FROM TABLE

$query = "SELECT \* FROM `user` WHERE username='$username' and password='$password'";

$result = mysqli\_query($db, $query) or die(mysqli\_error($db));

$count = mysqli\_num\_rows($result);

if ($count == 1){

//echo "Login Credentials verified";

echo "Login Credentials verified";

header('Location: review.html');

}else{

header('Location: style.html');

//echo "Invalid Login Credentials";

}

?>

**File Used To Store Ratings:**

insert.php

<html>

<head>

<title>Success</title>

</head>

<body>

<a href="style.html"><p style="color:blue;font-size:18px;" align="right">LogOut</p></a>

<a href="review.html">

<h1>HOME</h1>

</a>

<a href="iphone.html">

<h1>IPHONE</h1>

</a>

<a href="1+.html">

<h1>ONEPLUS</h1>

</a>

<a href="samsung.html">

<h1>SAMSUNG</h1>

<a href="pixel.html">

<h1>GOOGLE</h1>

</a>

</a>

</body>

</html>

<?php

$conn = mysqli\_connect('localhost','root','','project');

if(! $conn ) {

die('Could not connect: ' . mysql\_error());

}

echo 'Connected successfully';

$name = mysqli\_real\_escape\_string($conn, $\_REQUEST['name']);

$display = mysqli\_real\_escape\_string($conn, $\_REQUEST['display']);

$performance = mysqli\_real\_escape\_string($conn, $\_REQUEST['performance']);

$camera = mysqli\_real\_escape\_string($conn, $\_REQUEST['camera']);

$battery = mysqli\_real\_escape\_string($conn, $\_REQUEST['battery']);

$sql = "INSERT INTO ratings(name,display ,performance ,camera ,battery) values('$name','$display','$performance','$camera','$battery')";

if(mysqli\_query($conn, $sql)){

echo "Records inserted successfully.";

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

;

?>

**2.WebPage and DataBase Connection:**

The **PHP Hypertext Preprocessor (PHP)** is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications. This tutorial helps you to build your base with PHP.

* **PHP** is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. I will list down some of the key advantages of learning PHP:
* PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
* PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
* It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
* PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.
* PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.
* PHP is forgiving: PHP language tries to be as forgiving as possible.
* PHP Syntax is C-Like.

**MySQL** tutorial provides basic and advanced concepts of MySQL. Our MySQL tutorial is designed for beginners and professionals.MySQL is a relational database management system. It is open-source and free.MySQL database such as insert record, update record, delete record, select record, create table, drop table etc. There are also given MySQL interview questions to help you better understand the MySQL database.

MySQL is a fast, easy to use relational database. It is currently the most popular open-source database. It is very commonly used in conjunction with PHP scripts to create powerful and dynamic server-side applications.MySQL is used for many small and big businesses. It is developed, marketed and supported by MySQL AB, a Swedish company. It is written in C and C++.

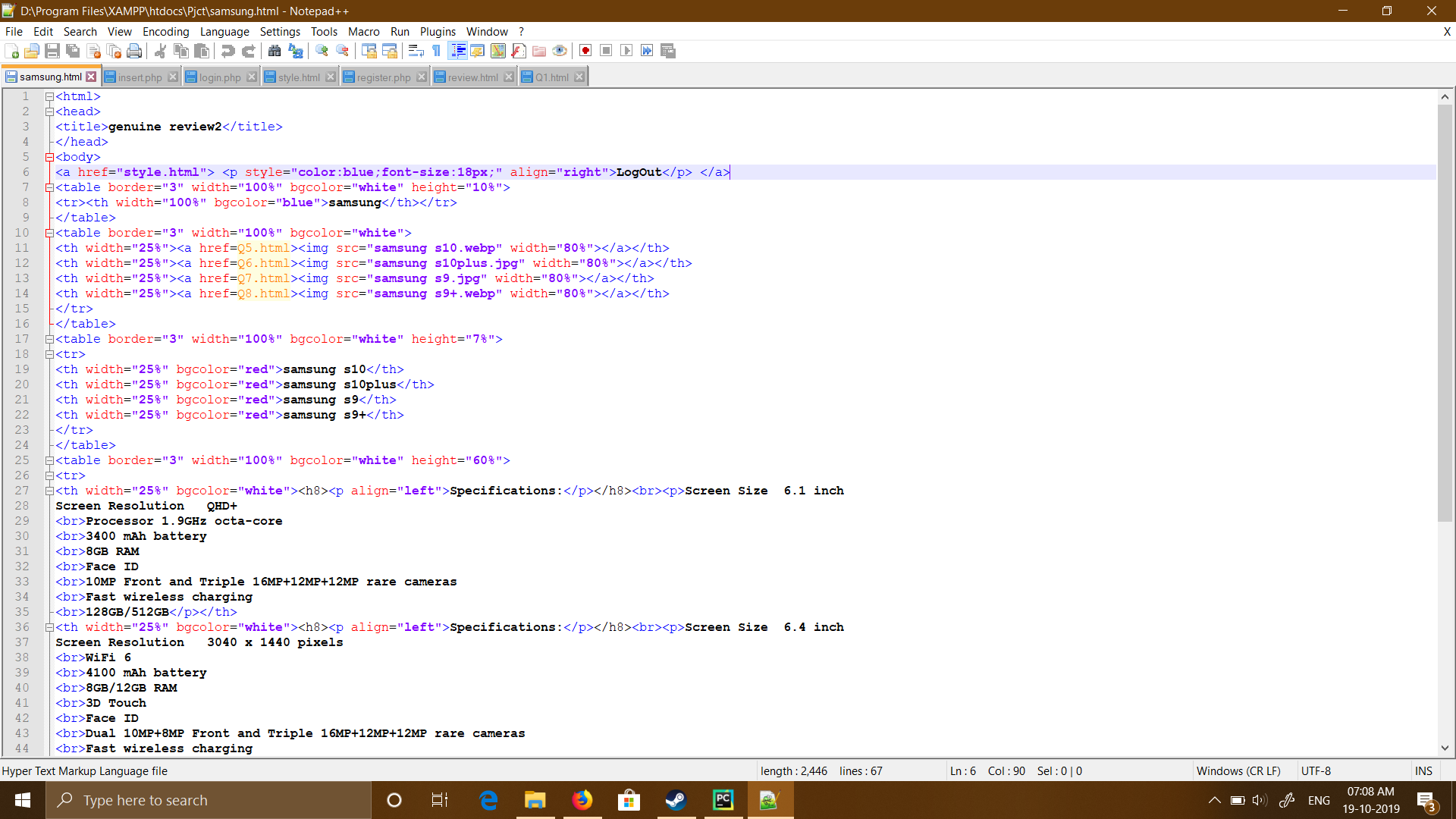
**Analyzing Stored Ratings:**

Analysis.php

import pymysql  
  
from matplotlib import pyplot as plt  
  
connection = pymysql.connect(  
host='localhost',  
user='root',  
password='',  
db='project',  
)  
company\_ratings = {}  
try:  
with connection.cursor() as cursor:  
 sql = "SELECT \* from ratings"  
try:  
 cursor.execute(sql)  
 result = cursor.fetchall()  
  
for row in result:  
if row[0] not in company\_ratings:  
 company\_ratings[row[0]] = (row[1] + row[2] + row[3] + row[4])/4  
else:  
  
 avg = (row[1] + row[2] + row[3] + row[4])/4  
if avg != 0:  
 company\_ratings[row[0]] = (company\_ratings[row[0]] + avg)/2  
  
  
except:  
print("Oops! Something wrong")  
 plt.style.use("fivethirtyeight")  
 company = company\_ratings.keys()  
 rating = company\_ratings.values()  
 plt.bar(company, rating, color="#444444", label="rating")  
 plt.title("SURVEY ANALYSIS")  
 plt.xlabel("Brands")  
 plt.ylabel("Points")  
 plt.legend()  
 plt.show()  
  
 connection.commit()  
finally:  
 connection.close()

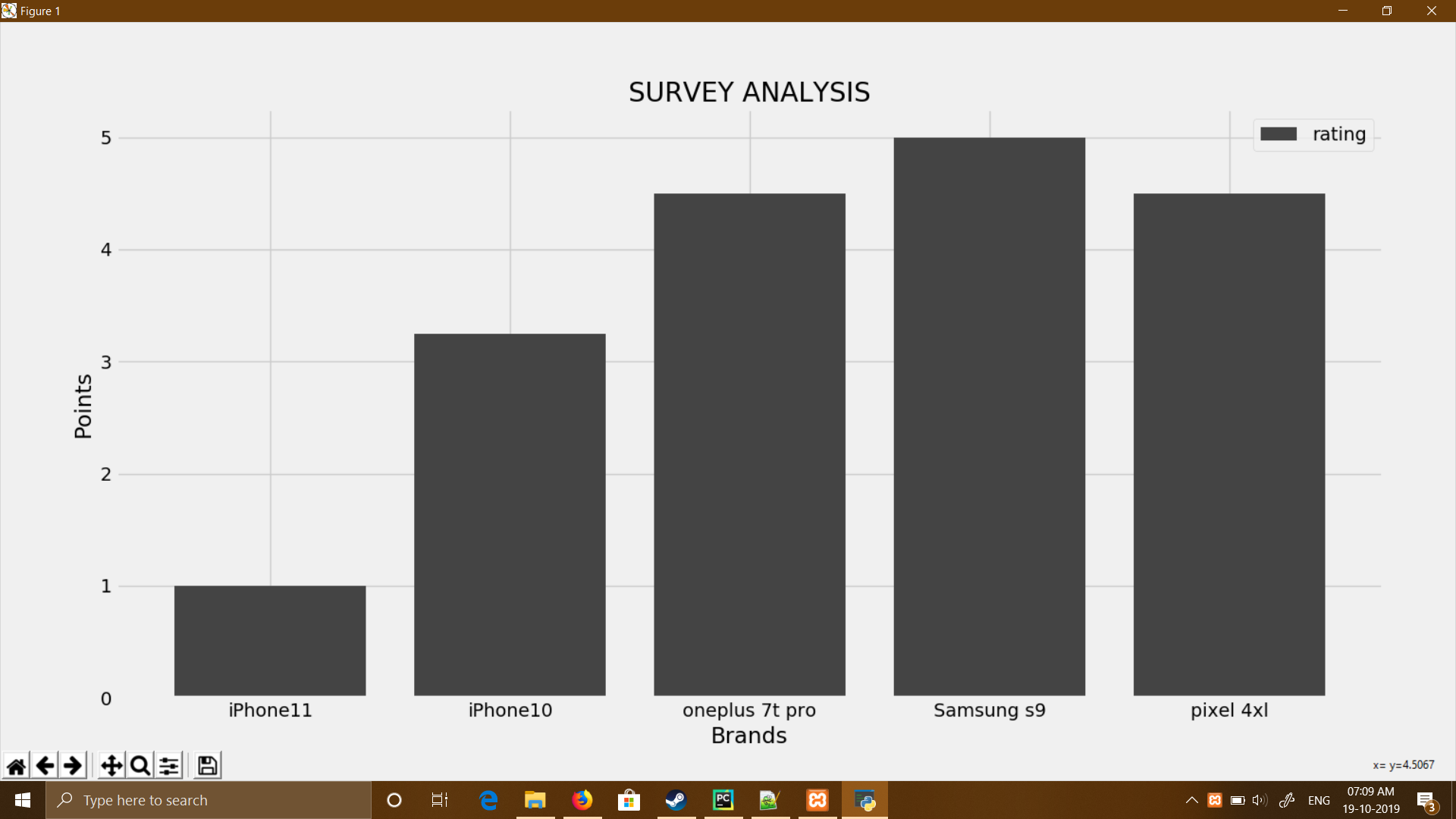
**3.DATABASE AND PYTHON CONNECTIVITY:**

* [Getting Started with MySQL Python Connector](http://www.mysqltutorial.org/getting-started-mysql-python-connector/) – help you get started with MySQL Python connector by learning about the MySQL Python connector’s features and how to install it on your system.
* [Connecting to a MySQL Database in Python](http://www.mysqltutorial.org/python-connecting-mysql-databases/) – show you how to use connect() function and MySQLConnection object to create a connection to a MySQL database.
* [Querying Data from a Table in Python](http://www.mysqltutorial.org/python-mysql-query/) – show you how to query data in a MySQL database from Python by using Python/Connector API such as fetchone, fetchmany, and fetchall.
* [Inserting Data Into a Table](http://www.mysqltutorial.org/python-mysql-insert/) – learn how to insert data into a table using MySQL Connector/Python API.
* [Updating Data in a Table](http://www.mysqltutorial.org/python-mysql-update/) – walk you through steps required to update data in MySQL table by using MySQL Connector/Python API.
* [Deleting Data from a Table](http://www.mysqltutorial.org/python-mysql-delete-data/)  – walk you through steps of deleting data in MySQL database by using MySQL Python.
* [Calling Stored Procedures in Python](http://www.mysqltutorial.org/calling-mysql-stored-procedures-python/) – show you how to call MySQL stored procedures in Python using MySQL Connector/Python API.
* [Retrieving & Updating BLOB in MySQL Database](http://www.mysqltutorial.org/python-mysql-blob/) – show you how to work with MySQL BLOB data in Python, with examples of updating and reading BLOB data.



**7.Expected Output:**

After accomplish all connection, we analysis the data which is given by users by using python matplotlib library. So the expected output is

****

**THE END**