

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAVI, KARNATAKA -590 018



Mini Project Report on “PC HARDWARE ORGANISATION AND MANAGEMENT SYSTEM”

*Submitted in partial fulfilment for the Web Technology and its Application (18CS63)
course of Sixth Semester of Bachelor of Engineering in Computer Science & Engineering
during the academic year 2020-21.*

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

JSS MAHAVIDYAPEETHA

JSS ACADEMY OF TECHNICAL EDUCATION

AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, KARNATAKA, INDIA

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled “**PC HARDWARE ORGANISATION AND MANAGEMENT SYSTEM**” is a bonafide work carried out by **ADITYA RASTOGI (1JS18CS008)** , **AMIT (1JS18CS015)** in partial fulfillment for the ***Web Technology and its Application (18CS63)*** prescribed by the Visvesvaraya Technological University, Belgaum during the year 2020-21 for the sixth semester B.E. in Computer Science and Engineering. The mini project report has been approved as it satisfies the academic requirements with respect to the mini project work prescribed for the sixth semester ***Web Technology and its Application (18CS63)***.

Signature of Guide

Renuka Rajendra B
Dept. of CSE, JSSATE Bangalore

Signature of HOD

Dr N.C.Naveen,
Professor and Head,
Dept. of CSE, JSSATE Bangalore

Name of the Examiners

1.....

Signature with date

.....

2.....

.....

ABSTRACT

This project is a catalog of PC components and related details with additional features. This project will provide an easy way to get details about PC Components. This project provides the complete details of the PC Components and its related information at a single click. It also offers the functionalities like Insertion and deletion in the database can be done only by the admin, regular users cannot make any changes in the database and to check the compatibility between components and check value for money. The system allows the retrieving facilities but also the updating facilities to the authorized persons. PHP ,HTML and CSS was used to create the front end for the system and SQL Server was used for the back end. Users will be given login id and password so that they can log-in to the database.

The main objective of this proposal is to introduce a easy way for users to get information about PC Components and pricing. Remote access to this system to be provided through the internet. This Information System provides the external users the ability to obtain summarized Information in a preferred format. This system provide facility to update database by computing proficient as well as non-computing proficient. This provide easy access to the database for all type of data manipulation. Security of the database is ensured by the use of a password for updating purposes.

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Chapter 1

INTRODUCTION

1.1 Introduction to DBMS

DBMS stands for Database Management System. We can break it like this DBMS = Database + Management System. Database is a collection of data and Management System is a set of programs to store and retrieve those data. Therefore DBMS is a collection of inter-related data and set of programs to store & access those data in an easy and effective manner.

Database systems are basically developed for large amount of data. When dealing with huge amount of data, there are two things that require optimization: **Storage of data** and **retrieval of data**.

Storage: According to the principles of database systems, the data is stored in such a way that it acquires lot less space as the redundant data (duplicate data) has been removed before storage. Let's take a layman example to understand this:

In a banking system, suppose a customer is having two accounts, one is saving account and another is salary account. Let's say bank stores saving account data at one place (these places are called tables we will learn them later) and salary account data at another place, in that case if the customer information such as customer name, address etc. are stored at both places then this is just a wastage of storage (redundancy/ duplication of data), to organize the data in a better way the information should be stored at one place and both the accounts should be linked to that information somehow. The same thing we achieve in DBMS.

Fast Retrieval of data: Along with storing the data in an optimized and systematic manner, it is also important that we retrieve the data quickly when needed. Database systems ensure that the data is retrieved as quickly as possible.

1.2 About SQL

SQL (Structured Query Language) is a standardized programming language used for managing relational databases and performing various operations on the data in them. Initially created in the 1970s, SQL is regularly used by database administrators, as well as by developers writing data integration scripts and data analysts looking to set up and run analytical queries.

The uses of SQL include modifying database table and index structures; adding, updating and deleting rows of data; and retrieving subsets of information from within a database for transaction processing and analytics applications. Queries and other SQL operations take the form of commands written as statements -- commonly used SQL statements include select, add, insert, update, delete, create, alter and truncate.

SQL is widely popular because it offers the following advantages:

- Allows user to access data in the RDBMS.
- Allows the user to describe the data.
- Allows user to create and drop database and table.
- Allows user to set permission on table, procedures and views.
- Allows user to create view, stored procedure, function in a database.
- Allows user to define data in a database and manipulate the data.
- Allows to embed within other language using SQL modules, libraries and pre-compilers.

1.3 Project Description

This project is basically a database of the PC components and related details. This project will provide an easy way to get details about PC Components . This project provides the complete details of the PC Components and its related information at a single click. It also offers the functionalities like:

- Insertion and deletion in the database can be done only by the admin.
- Regular users cannot make any changes in the database.
- Check the compatibility between components and check value for money.

We have created pages for inserting values into all the tables. Then to display all the tables, to delete the details from the tables that is already created, to check for compatibility and price per rupee. We can also increase or decrease the Peripheral prices by 100 rupees.

Chapter 2

REQUIREMENT SPECIFICATION

2.1 Software requirements:

Operating System and version: Any

Front end tool: PHP, HTML and CSS.

Back end tool: MySQL.

Web Server: Apache Web Server

Programming Language: PHP, HTML and CSS.

2.2 Hardware requirements:

Processor : Any

RAM : 1 GB

Hard disk : Suitable Capacity

Chapter 3

SYSTEM ANALYSIS AND DESIGN

3.1 Schema diagram

Cabinet

<u>CaseName</u>	<u>Brand</u>	Type	Price
-----------------	--------------	------	-------

Cpu

<u>Cname</u>	<u>Slot</u>	Brand	Gen	Threads	Cores	TDP	Performance	Price	Type
--------------	-------------	-------	-----	---------	-------	-----	-------------	-------	------

Gpu

<u>Gname</u>	<u>Brand</u>	<u>VRAMType</u>	<u>VRAMCapacity</u>	Wattage	Price	Performance
--------------	--------------	-----------------	---------------------	---------	-------	-------------

Motherboard

<u>Mname</u>	<u>Slot</u>	RAMSlot	OC	Price
--------------	-------------	---------	----	-------

Peripherals

<u>PeriName</u>	Brand	Type	Price
-----------------	-------	------	-------

PSU

<u>Pname</u>	<u>Manufacturer</u>	Rating	<u>Wattage</u>	Price
--------------	---------------------	--------	----------------	-------

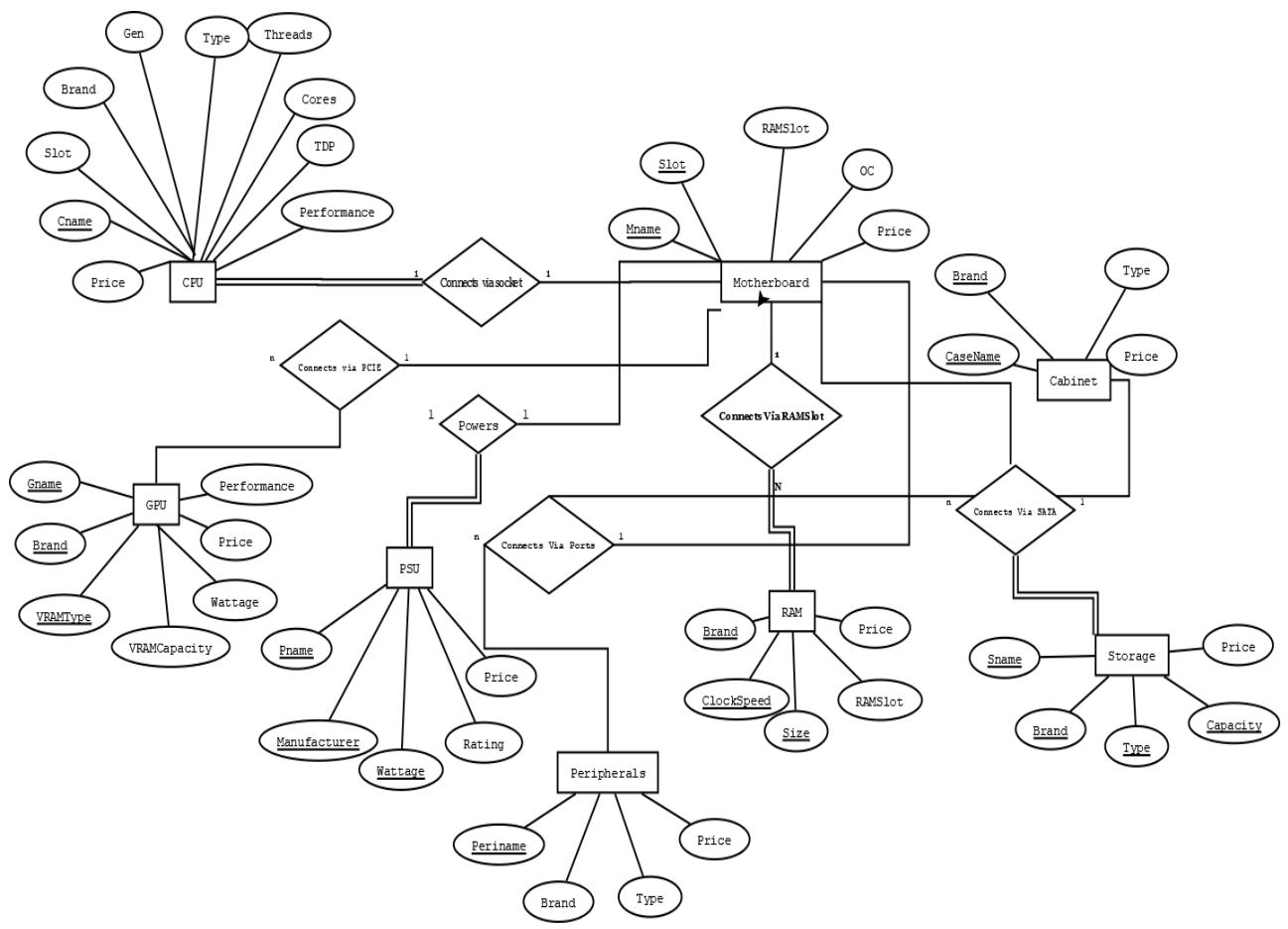
Ram

Brand	<u>ClockSpeed</u>	Size	<u>RAMSlot</u>	Price
-------	-------------------	------	----------------	-------

Storage

<u>Sname</u>	Brand	Type	<u>Capacity</u>	Price
--------------	-------	------	-----------------	-------

3.2 E R Diagram



3.3 Data flow diagram

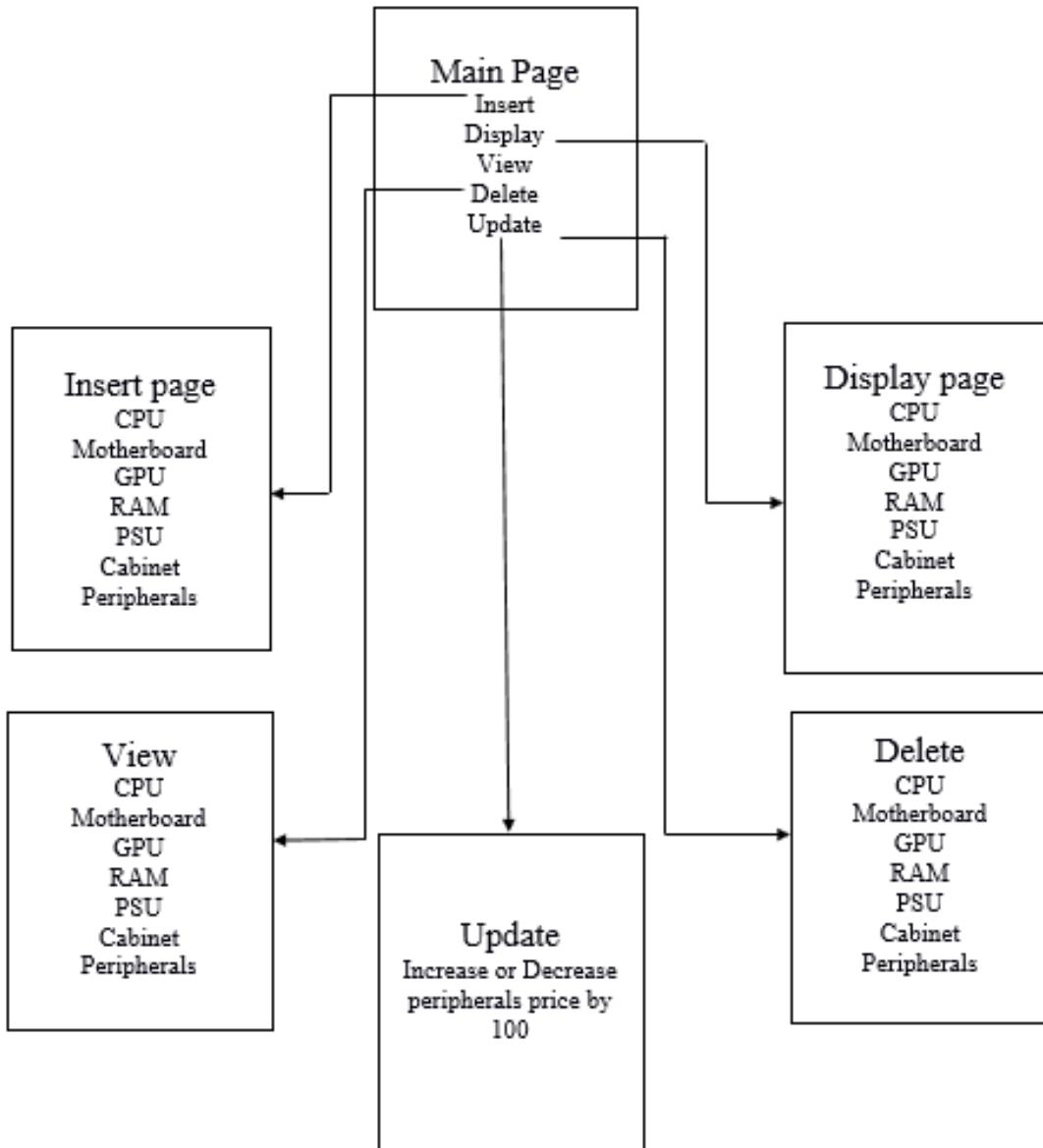
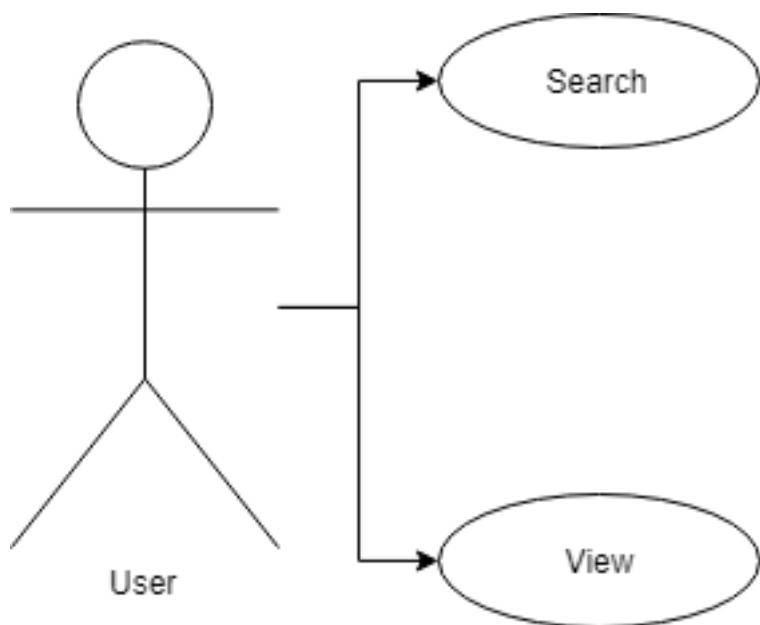
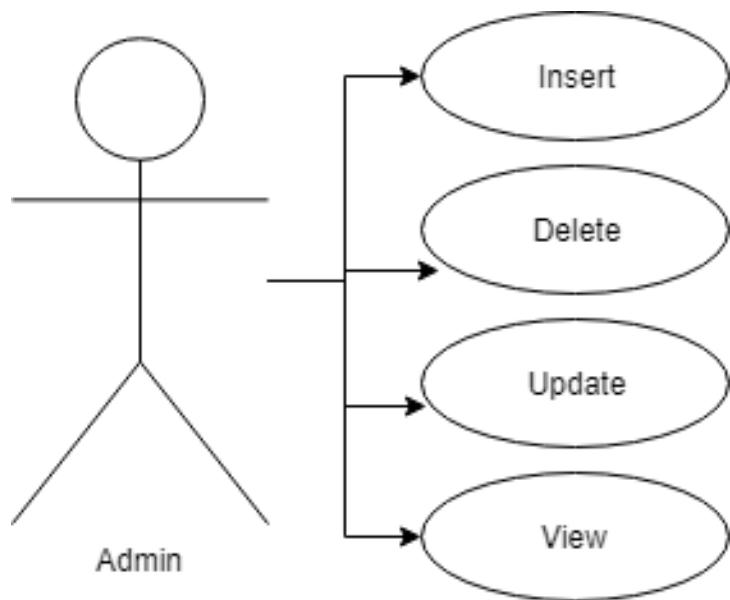


Fig 3. 3 Dataflow Diagram for PC Components Catalog

3.4 Use case diagram



Chapter 4

IMPLEMENTATION

4.1 Description of tables:

		Name	Data type	Description / Attributes
█	█	Username	varchar(30)	
█	█	email	varchar(50)	
█		password	varchar(30)	

Table 4.1.1 registration table

		Name	Data type	Description / Attributes
█	█	adminname	varchar(30)	
█		password	varchar(30)	

Table 4.1. 2 admin_login table

		Name	Data type	Description / Attributes
█	█	CaseName	varchar(30)	
█	█	Brand	varchar(30)	
█		Type	varchar(30)	
█		Price	int(10, 0)	

Table 4.1. 3 cabinet table

		Name	Data type	Description / Attributes
█	█	Cname	varchar(30)	
█	█	Slot	varchar(30)	
█		Brand	varchar(30)	
█		Gen	varchar(30)	
█		Threads	int(10, 0)	
█		Cores	int(10, 0)	
█		TDP	varchar(30)	
█		Performance	int(10, 0)	
█		Price	int(10, 0)	
█		Type	varchar(30)	

Table 4.1. 4 cpu table

Name		Data type		Description / Attributes
█	🔑 Gname	varchar(30)		
█	🔑 Brand	varchar(30)		
█	🔑 VRAMType	varchar(30)		
█	🔑 VRAMCapacity	varchar(30)		
█	Wattage	varchar(30)	Nullable	
█	Price	int(10, 0)	Nullable	
█	Performance	int(10, 0)	Nullable	

Table 4.1. 5 gpu table

Name		Data type		Description / Attributes
█	🔑 Mname	varchar(30)		
█	🔑 Slot	varchar(30)	References: cpu	
█	RAMSlot	varchar(30)	Nullable References: ram	
█	OC	varchar(30)		
█	Price	int(10, 0)		

Table 4.1. 6 motherboard table

Name		Data type		Description / Attributes
█	🔑 PeriName	varchar(30)		
█	Brand	varchar(30)		
█	Type	varchar(30)		
█	Price	int(10, 0)		

Table 4.1. 7 peripherals table

Name		Data type		Description / Attributes
█	🔑 Pname	varchar(30)		
█	🔑 Manufacturer	varchar(30)		
█	Rating	varchar(30)		
█	🔑 Wattage	varchar(30)		
█	Price	int(10, 0)		

Table 4.1. 8 psu table

	Name	Data type	Description / Attributes
PK	Brand	varchar(30)	
PK	ClockSpeed	varchar(30)	
PK	Size	varchar(30)	
PK	RAMSlot	varchar(30)	
	Price	int(10, 0)	

Table 4.1. 9 ram table

	Name	Data type	Description / Attributes
PK	Sname	varchar(30)	
PK	Brand	varchar(30)	
PK	Type	varchar(30)	
PK	Capacity	varchar(30)	
	Price	int(10, 0)	

Table 4.1. 10 storage table

4.2 Triggers and stored procedure:

Triggers: To update all lower case letters to uppercase before insertion in peripherals.

```
CREATE TRIGGER `Peripheral Cap` BEFORE INSERT ON `peripherals`
FOR EACH ROW set new.brand = upper(new.brand);
```

Stored Procedure: To increase price by 100 for peripherals and cabinet.

```
CREATE PROCEDURE `updateperiprice` NOT DETERMINISTIC NO SQL SQL SECURITY
DEFINER UPDATE peripherals set price=peripherals.price+100;
```

```
CREATE PROCEDURE `decreaseperiprice` NOT DETERMINISTIC NO SQL SQL
SECURITY DEFINER UPDATE peripherals set price=peripherals.price-100;
```

4.3 Back end implementation:

To display all cpu features:

```
<html>
<head>
```

```
<style>
table,th,td{
    border:4px solid black;
    border-collapse: collapse;
    border-color:slategrey;
    background-color:white;
    color:#555555;
    font-family:arial;
    opacity:0.9;
}
th,td{
    padding:10px;
    font-size: 22px;
}
th{
    text-align: left;
    font-size: 20px;
    color:white;
    background-color:#555555;
    opacity:0.9;
}
table{
    border-spacing: 3px;
    width:100%;

}

</style>
</head>
<body background="bg.jpg">
<?php
$con = mysqli_connect("localhost","root","","","pccomp");
if (!$con)
{
die('Could not connect: ' . mysqli_error());
}
mysqli_select_db($con,"pccomp");
$sql="SELECT * FROM pccomp.cpu";
$result=mysqli_query($con,$sql);
echo "<center><table border='10'>
<tr>
<th>Cname</th>
<th>Slot</th>
<th>Brand</th>
<th>Gen</th>
<th>Threads</th>
<th>Cores</th>
<th>TDP</th>
```

```

<th>Performance</th>
<th>Price</th>
</tr>";
while($row = mysqli_fetch_array($result))
{
echo "<tr> <td>" . $row['Cname'] . "</td>";
echo "<td>" . $row['Slot'] . "</td>";
echo "<td>" . $row['Brand'] . "</td>";
echo "<td>" . $row['Gen'] . "</td>";
echo "<td>" . $row['Threads'] . "</td>";
echo "<td>" . $row['Cores'] . "</td>";
echo "<td>" . $row['TDP'] . "</td>";
echo "<td>" . $row['Performance'] . "</td>";
echo "<td>" . $row['Price'] . "</td>";
"</tr> ";
};
echo "</table>";
mysqli_close($con);
?>
</body>
</html>

```

To search for compatible motherboard for CPU:

```

<html>
<head>
<style>
table,th,td{
    border:4px solid black;
    border-collapse: collapse;
    border-color:slategrey;
    background-color:white;
    color:#555555;
    font-family:arial;
    opacity:0.9;
}
th,td{
    padding:10px;
    font-size: 22px;
}
th{
    text-align: left;
    font-size: 20px;
    color:white;
    background-color:#555555;
    opacity:0.9;
}
table{

```

```

border-spacing: 3px;
width:100%;

}

</style>
</head>
<body background="bg.jpg">
<?php
$con = mysqli_connect("localhost","root","","pccomp");
if (!$con)
{
die('Could not connect: ' . mysqli_error());
}
mysqli_select_db($con,"pccomp");
$sql="SELECT m.Mname
FROM motherboard m, cpu c
WHERE m.Slot=c.Slot
AND c.Cname='$_POST[CPUName]'";
$result=mysqli_query($con,$sql);
echo "<center><table border='10'>
<tr>
<th>Mname</th>
</tr>";
while($row = mysqli_fetch_array($result))
{
echo "<tr> <td>" . $row['Mname'] . "</td>";
"</tr> ";
};
echo "</table>";
mysqli_close($con);
?>
</body>
</html>

```

To set price limit for CPUs:

```

<html>
<head>
<style>
table,th,td{
    border:4px solid black;
    border-collapse: collapse;
    border-color:slategrey;
    background-color:white;
    color:#555555;
    font-family:arial;
    opacity:0.9;

```

```

        }
        th,td{
            padding:10px;
            font-size: 22px;
        }
        th{
            text-align: left;
            font-size: 20px;
            color:white;
            background-color:#555555;
            opacity:0.9;
        }
    table{
        border-spacing: 3px;
        width:100%;

    }

</style>
</head>
<body background="bg.jpg">
<?php
$con = mysqli_connect("localhost","root","","pccomp");
if (!$con)
{
die('Could not connect: ' . mysqli_error());
}
mysqli_select_db($con,"pccomp");
$sql="SELECT * FROM pccomp.cpu WHERE cpu.Price<=$_POST[Price]";
$result=mysqli_query($con,$sql);
echo "<center><table border='10'>
<tr>
<th>Cname</th>
<th>Slot</th>
<th>Brand</th>
<th>Gen</th>
<th>Threads</th>
<th>Cores</th>
<th>TDP</th>
<th>Performance</th>
<th>Price</th>
</tr>";
while($row = mysqli_fetch_array($result))
{
echo "<tr> <td>" . $row['Cname'] . "</td>";
echo "<td>" . $row['Slot'] . "</td>";
echo "<td>" . $row['Brand'] . "</td>";
echo "<td>" . $row['Gen'] . "</td>";

```

```

echo "<td>" . $row['Threads'] . "</td>";
echo "<td>" . $row['Cores'] . "</td>";
echo "<td>" . $row['TDP'] . "</td>";
echo "<td>" . $row['Performance'] . "</td>";
echo "<td>" . $row['Price'] . "</td>";
"</tr> ";
};
echo "</table>";
mysqli_close($con);
?>
</body>
</html>

```

To increase or decrease price of peripherals:

```

<html>
<head>
<style>
table,th,td{
    border:4px solid black;
    border-collapse: collapse;
    border-color:slategrey;
    background-color:white;
    color:#555555;
    font-family:arial;
    opacity:0.9;
}
th,td{
    padding:10px;
    font-size: 22px;
}
th{
    text-align: left;
    font-size: 20px;
    color:white;
    background-color:#555555;
    opacity:0.9;
}
table{
    border-spacing: 3px;
    width:100%;
}
</style>
</head>
<body background="Peripherals.jpg">
<?php

```

```

$con = mysqli_connect("localhost","root","","pccomp");
if (!$con)
{
die('Could not connect: ' . mysqli_error());
}
mysqli_select_db($con,"pccomp");
$sql1="CALL updateperiprice";
$result=mysqli_query( $con,$sql1);
$sql="SELECT * FROM pccomp.peripherals ORDER BY Type";
$result=mysqli_query($con,$sql);
echo "<center><table border='10'>
<tr>
<th>Name</th>
<th>Brand</th>
<th>Type</th>
<th>Price</th>
</tr>";
while($row = mysqli_fetch_array($result))
{
echo "<tr> <td>" . $row['PeriName'] . "</td>";
echo "<td>" . $row['Brand'] . "</td>";
echo "<td>" . $row['Type'] . "</td>";
echo "<td>" . $row['Price'] . "</td>";
"</tr> ";
};
echo "</table>";
mysqli_close($con);
?>
</body>
</html>

```

4.4 Front end implementation:

Admin page:

```

<?php
    session_start();
?>
<!DOCTYPE html>
<html>
<title>Home Page</title>
<style>
*<{
    margin: 0px;
    padding: 0px;
}

.navbar ul{

```

```
list-style: none;
margin-left:3%;
}
.navbar ul li {
background-color: rgb(58, 73, 88);
border:1px solid white;
width: 140px;
height:35px;
font-size:13px;
line-height: 35px;
text-align: center;
position: relative;
float:left;
border-radius: 1px;
}
.navbar ul li a{
text-decoration: none;
color: white;
display:block;
}
.navbar ul li a:hover
{
background:#3399ff;
border-radius: 8px;
}
.navbar ul ul{
position: absolute;
display:none;
}
.navbar ul li:hover > ul{
display:block;
}
.navbar ul ul ul{
margin-left: 151px;
top:0px;
}
h3.one {
height:40px;
font-size: 20px;
color: white ;
background-color: slategrey;
}
.textbody {
border:4px solid black;
margin-top: 7%;
```

```

margin-left: 25%;
margin-right: 25%;
border-collapse: collapse;
border-color: slategrey;
background-color: white;
color: #555555;
font-family: Arial, Helvetica, sans-serif;
opacity: 0.75;
}

button {
background-color: #d3d3d3;
color: #333333;
padding: 15px 90px;
margin-top: 30px;
margin-right: 20%;
margin-left: 33.3%;
border: solid;
width: 32%;
font-size: 12px;
border-radius: 8px;
text-align: right;
}

button:hover {
background-color: slategrey;
color: black;
}


```

</style>

</head>

<body background="bg.jpg"; style=";font-family:arial, cursive, sans-serif">

<div>

<center>

</center>

<!--
<h3 class=one style="font-size: 200%; color: smokewhite;" align="center">A complete catalog to assemble a PC</h3>

-->

<div class="navbar">

CPU

All

Brand

Intel

AMD

```
<li><a href="#">No. of cores</a>
<ul>
    <li><a href="dual.php"><b>Dual</b></a></li>
    <li><a href="quad.php"><b>Quad</b></a></li>
    <li><a href="hexa.php"><b>Hexa</b></a></li>
    <li><a href="octa.php"><b>Octa</b></a></li>
    <li><a href="grtocta.php"><b>Greater than 8</b></a></li>
</ul>
</li>
<li><a href="perf.php">Performance</a>
</li>
<li><a href="price.html">Set Price Limit</a>
</li>
<li><a href="compatiblemotho.php"><h6>Compatible Motherboards</h6></a>
</li>
</ul>
</li>
<li><a href="#">Motherboard</a>
<ul>
    <li><a href="allmobo.php">All Motherboard</a></li>
    <li><a href="slot.php">Slot</a></li>
    <li><a href="#">RAM Slot</a>
</ul>
    <li><a href="ddr2.php"><b>DDR2</b></a></li>
    <li><a href="ddr3.php"><b>DDR3</b></a></li>
    <li><a href="ddr4.php"><b>DDR4</b></a></li>
</ul>
</li>
<li><a href="#">Overclockable</a>
<ul>
    <li><a href="yes.php"><b>Yes</b></a></li>
    <li><a href="no.php"><b>No</b></a></li>
</ul>
</li>
<li><a href="pricemobo.php">Set Price Limit</a>
<li><a href="compram.php">Compatible RAM</a>
</ul>

</li>
<li><a href="#">RAM</a>
<ul>
    <li><a href="allram.php">All RAM</a></li>
    <li><a href="#">Brand</a>
<ul>
        <li><a href="corsair.php"><b>Corsair</b></a></li>
        <li><a href="crucial.php"><b>Crucial</b></a></li>
        <li><a href="kingston.php"><b>Kingston</b></a></li>
        <li><a href="hyperx.php"><b>HyperX</b></a></li>

```

```
<li><a href="transcend.php"><b>Transcend</b></a></li>
</ul>
<li><a href="#">RAM Slot</a>
<ul>
    <li><a href="ddr2r.php"><b>DDR2</b></a></li>
    <li><a href="ddr3r.php"><b>DDR3</b></a></li>
    <li><a href="ddr4r.php"><b>DDR4</b></a></li>
</ul>
</li>
<li><a href="#">RAM Capacity</a>
<ul>
    <li><a href="2gb.php"><b>2GB</b></a></li>
    <li><a href="4gb.php"><b>4GB</b></a></li>
    <li><a href="8gb.php"><b>8GB</b></a></li>
</ul>
</li>
<li><a href="priceram.php">Set Price Limit</a>
</ul>
</li>

<li><a href="#">GPU</a>
<ul>
    <li><a href="allgpu.php">All GPU</a></li>
    <li><a href="#">Brand</a>
        <ul>
            <li><a href="nvidia.php"><b>Nvidia</b></a></li>
            <li><a href="amdgpu.php"><b>AMD</b></a></li>
        </ul>
    </li>
    <li><a href="#">VRAM Capacity</a>
        <ul>
            <li><a href="v1gb.php"><b>1GB</b></a></li>
            <li><a href="v2gb.php"><b>2GB</b></a></li>
            <li><a href="v3gb.php"><b>3GB</b></a></li>
            <li><a href="v4gb.php"><b>4GB</b></a></li>
            <li><a href="v6gb.php"><b>6GB</b></a></li>
            <li><a href="v8gb.php"><b>8GB</b></a></li>
            <li><a href="v11gb.php"><b>11GB</b></a></li>
        </ul>
    </li>
    <li><a href="gpuperformance.php">Performance</a>
        <li><a href="pricegpu.php">Set Price Limit</a>
            </ul>
    </li>
</li>

<li><a href="#">PSU</a>
<ul>
    <li><a href="allpsu.php">All PSU</a></li>
    <li><a href="#">Manufacturer</a>
```

```

<ul>
    <li><a href="corsairpsu.php"><b>Corsair</b></a></li>
    <li><a href="coolermaster.php"><b>Coolermaster</b></a></li>
    <li><a href="antec.php"><b>Antec</b></a></li>
    <li><a href="thermaltake.php"><b>Thermatake</b></a></li>
</ul> </li>
<li><a href="wattage.php">Sort by Wattage</a></li>
<li><a href="#">Rating</a>
<ul>
    <li><a href="norating.php"><b>None</b></a></li>
    <li><a href="80plus.php"><b>80+</b></a></li>
    <li><a href="80plusbronze.php"><b>80+ Bronze</b></a></li>
    <li><a href="80plusgold.php"><b>80+ Gold</b></a></li>
</ul>
</li>
<li><a href="pricepsu.php">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Cabinet</a>
<ul>
    <li><a href="allcabinet.php">All Cabinets</a></li>
    <li><a href="#">Manufacturer</a>
        <ul>
            <li><a href="corsaircab.php"><b>Corsair</b></a></li>
            <li><a href="coolermastercab.php"><b>Coolermaster</b></a></li>
            <li><a href="anteccab.php"><b>Antec</b></a></li>
            <li><a href="thermaltakecab.php"><b>Thermatake</b></a></li>
            <li><a href="NZXT.php"><b>NZXT</b></a></li>
        </ul>
    </li>
</li>
<li><a href="#">Type</a>
<ul>
    <li><a href="atx.php"><b>ATX</b></a></li>
    <li><a href="miniatx.php"><b>Mini ATX</b></a></li>
    <li><a href="microatx.php"><b>Micro ATX</b></a></li>
    <li><a href="miniitx.php"><b>Mini ITX</b></a></li>
</ul>
</li>
<li><a href="pricecab.php">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Storage</a>
<ul>
    <li><a href="allstorage.php">All Storage</a></li>
    <li><a href="#">Brand</a>
        <ul>

```

```

<li><a href="wd.php"><b>WD</b></a></li>
<li><a href="seagate.php"><b>Seagate</b></a></li>
<li><a href="kingstonstorage.php"><b>Kingston</b></a></li>
<li><a href="sandisk.php"><b>Sandisk</b></a></li>
<li><a href="transcendstorage.php"><b>Transcend</b></a></li>
</ul>
<li><a href="#">Type</a>
<ul>
    <li><a href="hdd.php"><b>HDD</b></a></li>
    <li><a href="ssd.php"><b>SSD</b></a></li>
</ul>
</li>
<li><a href="#">Capacity</a>
<ul>
    <li><a href="120gb.php"><b>120GB</b></a></li>
    <li><a href="240gb.php"><b>240GB</b></a></li>
    <li><a href="480gb.php"><b>480GB</b></a></li>
    <li><a href="500gb.php"><b>500GB</b></a></li>
    <li><a href="1tb.php"><b>1TB</b></a></li>
    <li><a href="2tb.php"><b>2TB</b></a></li>
    <li><a href="3tb.php"><b>3TB</b></a></li>
</ul>
</li>
<li><a href="pricestorage.php">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Peripherals</a>
<ul>
    <li><a href="allperipherals.php">All Peripherals</a></li>
    <li><a href="#">Brand</a>
    <ul>
        <li><a href="hp.php"><b>HP</b></a></li>
        <li><a href="dell.php"><b>Dell</b></a></li>
        <li><a href="logitech.php"><b>Logitech</b></a></li>
        <li><a href="lg.php"><b>LG</b></a></li>
        <li><a href="benq.php"><b>Benq</b></a></li>
        <li><a href="amazon.php"><b>Amazon</b></a></li>
    </ul>
    <li><a href="#">Type</a>
    <ul>
        <li><a href="monitor.php"><b>Monitor</b></a></li>
        <li><a href="keyboard.php"><b>Keyboard</b></a></li>
        <li><a href="mouse.php"><b>Mouse</b></a></li>
    </ul>
</li>
<li><a href="priceperi.php">Set Price Limit</a>
</ul>

```

```

</li>

<li><a href="home.html">LOGOUT</a></li>
</ul>
</div><br><br><br>
<h2 style="color:white" align="center">Welcome Admin! Here you can Insert, Update and Delete
all the data available in this catalog. </h2>
<form method="post" action="insert.html">
<button style="text-align:center;font-size: 15px" ><b><center>Insert</center></b></button>
</form>

<form method="post" action="update.html">
<button style="text-align:center;font-size: 15px" ><b><center>Update</center></b></button>
</form>

<form method="post" action="delete.html">
<button style="text-align:center;font-size: 15px" ><b><center>Delete</center></b></button>
</form>
<!--</div>
<div class="logout">
<br><br><form action="login.html" method="post">
    <button type="submit" name="logout" >Logout</button>
</form>
</div>-->

<?php
if(isset($_POST['logout']))
{
    session_destroy();
    header('location:login.php');
}
?>
</div>
</body>
</html>

```

Home page(user login)

```

<?php
    session_start();
?>
<!DOCTYPE html>
<html>
<title>Home Page</title>
<style>

```

```
*{
    margin: 0px;
    padding: 0px;
}

.navbar ul{
    list-style: none;
    margin-right:0%;
    margin-left:1.5%;
    padding-top:5px;
}
.navbar ul li {
    background-color: rgb(58, 73, 88);
    border:1px solid white;
    width: 143px;
    height:35px;
    font-size:13px;
    line-height: 35px;
    text-align: center;
    position: relative;
    float:left;
    border-radius: 5px;
}
.navbar ul li a{
    text-decoration: none;
    color: white;
    display:block;
}
.navbar ul li a:hover
{
    background:#3399ff;
    border-radius: 8px;
}
.navbar ul ul{
    position: absolute;
    display:none;
}
.navbar ul li:hover > ul{
    display:block;
}
.navbar ul ul ul{
    margin-left: 151px;
    top:0px;
}
h3.one {
    height:40px;
```

```

font-size: 20px;
color: white ;
background-color: slategrey;
}

.slideshow-container {
border:4px solid black;
margin-left: 19%;
margin-right: 19%;
border-collapse: collapse;
border-color:slategrey;
background-color:black;
color:#555555;
font-family:Arial, Helvetica, sans-serif;
}
button {
background-color:rgb(59, 75, 92);
color: white;
padding: 15px 30px;
margin: 4px 5px;
border: none;
cursor: pointer;
width: 80%;
text-align: center;
font-size: 20px;
border-radius: 10px;
}
button1 {
background-color:red;
color: white;
padding: 10px 10px;
margin: 2px 0;
border: none;
cursor: pointer;
width: 6%;
text-align: center;
}

```

</style>

</head>

<body background="bg.jpg"; style=";font-family:arial, cursive, sans-serif">

<div>

<center>

</center>

<!--
<h3 class=one style="font-size: 200%;color:smokewhite;" align="center">A
complete catalog to assemble a PC</h3>

-->

```
<div class="navbar">
<ul>
<li><a href="#">CPU<span></a>
    <ul>
        <li><a href="allcpu.php">All</a></li>
        <li><a href="#">Brand</a>
            <ul>
                <li><a href="intel.php"><b>Intel</b></a></li>
                <li><a href="amd.php"><b>AMD</b></a></li>
            </ul>
        </li>
        <li><a href="#">No. of cores</a>
            <ul>
                <li><a href="dual.php"><b>Dual</b></a></li>
                <li><a href="quad.php"><b>Quad</b></a></li>
                <li><a href="hexa.php"><b>Hexa</b></a></li>
                <li><a href="octa.php"><b>Octa</b></a></li>
                <li><a href="grtocta.php"><b>Greater than 8</b></a></li>
            </ul>
        </li>
        <li><a href="perf.php">Performance</a>
        </li>
        <li><a href="price.html">Set Price Limit</a>
        </li>
        <li><a href="compmobo.html"><h6>Compatible Motherboards</h6></a>
            <li><a href="bestvaluecpu.php">Value for Price</a>
            </li>
            <ul>
            </ul>
        </li>
        <li><a href="#">Motherboard</a>
            <ul>
                <li><a href="allmobo.php">All Motherboard</a></li>
                <li><a href="slot.html">Slot</a></li>
                <li><a href="#">RAM Slot</a>
                    <ul>
                        <li><a href="ddr2.php"><b>DDR2</b></a></li>
                        <li><a href="ddr3.php"><b>DDR3</b></a></li>
                        <li><a href="ddr4.php"><b>DDR4</b></a></li>
                    </ul>
                </li>
                <li><a href="#">Overclockable</a>
                    <ul>
                        <li><a href="yes.php"><b>Yes</b></a></li>
                        <li><a href="no.php"><b>No</b></a></li>
                    </ul>
                </li>
                <li><a href="pricemobo.html">Set Price Limit</a>

```

```
<li><a href="compram.html">Compatible RAM</a>
</ul>

</li>
<li><a href="#">RAM</a>
<ul>
    <li><a href="allram.php">All RAM</a></li>
    <li><a href="#">Brand</a>
        <ul>
            <li><a href="corsair.php"><b>Corsair</b></a></li>
            <li><a href="crucial.php"><b>Crucial</b></a></li>
            <li><a href="kingston.php"><b>Kingston</b></a></li>
            <li><a href="hyperx.php"><b>HyperX</b></a></li>
            <li><a href="transcend.php"><b>Transcend</b></a></li>
        </ul>
    <li><a href="#">RAM Slot</a>
        <ul>
            <li><a href="ddr2r.php"><b>DDR2</b></a></li>
            <li><a href="ddr3r.php"><b>DDR3</b></a></li>
            <li><a href="ddr4r.php"><b>DDR4</b></a></li>
        </ul>
    </li>
<li><a href="#">RAM Capacity</a>
    <ul>
        <li><a href="2gb.php"><b>2GB</b></a></li>
        <li><a href="4gb.php"><b>4GB</b></a></li>
        <li><a href="8gb.php"><b>8GB</b></a></li>
    </ul>
</li>
<li><a href="priceram.html">Set Price Limit</a>
    <ul>
        </ul>
    </li>
</li>

<li><a href="#">GPU</a>
    <ul>
        <li><a href="allgpu.php">All GPU</a></li>
        <li><a href="#">Brand</a>
            <ul>
                <li><a href="nvidia.php"><b>Nvidia</b></a></li>
                <li><a href="amdgpu.php"><b>AMD</b></a></li>
            </ul>
        </li>
        <li><a href="#">VRAM Capacity</a>
            <ul>
                <li><a href="v1gb.php"><b>1GB</b></a></li>
                <li><a href="v2gb.php"><b>2GB</b></a></li>
                <li><a href="v3gb.php"><b>3GB</b></a></li>
                <li><a href="v4gb.php"><b>4GB</b></a></li>
                <li><a href="v6gb.php"><b>6GB</b></a></li>
            </ul>
        </li>
    </ul>

```

```
<li><a href="v8gb.php"><b>8GB</b></a></li>
<li><a href="v11gb.php"><b>11GB</b></a></li>
</ul>
</li>
<li><a href="gpuperformance.php">Performance</a>
<li><a href="pricegpu.html">Set Price Limit</a>
<li><a href="bestvaluegpu.php">Value for Price</a>
</ul>
</li>

<li><a href="#">PSU</a>
<ul>
<li><a href="allpsu.php">All PSU</a></li>
<li><a href="#">Manufacturer</a>
<ul>
<li><a href="corsairpsu.php"><b>Corsair</b></a></li>
<li><a href="coolermaster.php"><b>Coolermaster</b></a></li>
<li><a href="antec.php"><b>Antec</b></a></li>
<li><a href="thermaltake.php"><b>Thermatake</b></a></li>
</ul> </li>
<li><a href="#">Rating</a>
<ul>
<li><a href="norating.php"><b>None</b></a></li>
<li><a href="80plus.php"><b>80+</b></a></li>
<li><a href="80plusbronze.php"><b>80+ Bronze</b></a></li>
<li><a href="80plusgold.php"><b>80+ Gold</b></a></li>
</ul>
</li>
<li><a href="pricepsu.html">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Cabinet</a>
<ul>
<li><a href="allcabinet.php">All Cabinets</a></li>
<li><a href="#">Manufacturer</a>
<ul>
<li><a href="corsaircab.php"><b>Corsair</b></a></li>
<li><a href="coolermastercab.php"><b>Coolermaster</b></a></li>
<li><a href="anteccab.php"><b>Antec</b></a></li>
<li><a href="thermaltakecab.php"><b>Thermatake</b></a></li>
<li><a href="NZXT.php"><b>NZXT</b></a></li>
</ul>
</li>
<li><a href="#">Type</a>
<ul>
<li><a href="atx.php"><b>ATX</b></a></li>
<li><a href="minatx.php"><b>Mini ATX</b></a></li>
```

```
<li><a href="microatx.php"><b>Micro ATX</b></a></li>
<li><a href="miniihx.php"><b>Mini ITX</b></a></li>
</ul>
</li>
<li><a href="pricecab.html">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Storage</a>
<ul>
<li><a href="allstorage.php">All Storage</a></li>
<li><a href="#">Brand</a>
<ul>
<li><a href="wd.php"><b>WD</b></a></li>
<li><a href="seagate.php"><b>Seagate</b></a></li>
<li><a href="kingstonstorage.php"><b>Kingston</b></a></li>
<li><a href="sandisk.php"><b>Sandisk</b></a></li>
<li><a href="samsung.php"><b>Samsung</b></a></li>
</ul>
<li><a href="#">Type</a>
<ul>
<li><a href="hdd.php"><b>HDD</b></a></li>
<li><a href="ssd.php"><b>SSD</b></a></li>
</ul>
</li>
<li><a href="#">Capacity</a>
<ul>
<li><a href="120gb.php"><b>120GB</b></a></li>
<li><a href="240gb.php"><b>240GB</b></a></li>
<li><a href="250gb.php"><b>250GB</b></a></li>
<li><a href="480gb.php"><b>480GB</b></a></li>
<li><a href="500gb.php"><b>500GB</b></a></li>
<li><a href="1tb.php"><b>1TB</b></a></li>
<li><a href="2tb.php"><b>2TB</b></a></li>
<li><a href="3tb.php"><b>3TB</b></a></li>
</ul>
</li>
<li><a href="pricestorage.html">Set Price Limit</a>
</ul>
</li>

<li><a href="#">Peripherals</a>
<ul>
<li><a href="allperipherals.php">All Peripherals</a></li>
<li><a href="#">Type</a>
<ul>
<li><a href="monitor.php"><b>Monitor</b></a></li>
<li><a href="keyboard.php"><b>Keyboard</b></a></li>
```

```
<li><a href="mouse.php"><b>Mouse</b></a></li>
</ul>
</li>
<li><a href="priceperi.html">Set Price Limit</a>
</ul>
</li>

<li><a href="home.html">LOGOUT</a></li>
</ul>
</div><br><br><br>
<div class="slideshow-container">

<div class="mySlides fade">

</div>

<div class="mySlides fade">

</div>

<div class="mySlides fade">

</div>
<div class="mySlides fade">

</div>
<div class="mySlides fade">

</div>
<div class="mySlides fade">

</div>
<div class="mySlides fade">

</div>

</div>
<br>
<script>
var slideIndex = 0;
showSlides();

function showSlides() {
    var i;
    var slides = document.getElementsByClassName("mySlides");
    for (i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    slideIndex++;
    if (slideIndex > slides.length) {slideIndex = 1}
    slides[slideIndex - 1].style.display = "block";
    setTimeout(showSlides, 2000); // Change image every 2 seconds
}
```

```

        }
        slideIndex++;
        if (slideIndex > slides.length) {slideIndex = 1}
        slides[slideIndex-1].style.display = "block";
        setTimeout(showSlides, 2000); // Change image every 2 seconds
    }
</script>

<!--</div>
<div class="logout">
<br><br><form action="login.html" method="post">
    <button type="submit" name="logout" >Logout</button>
</form>
</div>-->

</div>
</body>
</html>

```

4.5 SQL Queries:

Select Queries:

- SELECT * FROM cpu
- SELECT * FROM motherboard
- SELECT * FROM ram
- SELECT * FROM psu
- SELECT * FROM gpu
- SELECT * FROM cabinet
- SELECT * FROM peripherals
- SELECT * FROM storage
- SELECT * FROM cpu c WHERE c.Brand="Intel"
- SELECT * FROM cpu c WHERE c.Brand="AMD"
- SELECT * FROM cpu c WHERE c.Cores=2
- SELECT * FROM cpu c WHERE c.Cores=4
- SELECT * FROM cpu c WHERE c.Cores=6
- SELECT * FROM cpu c WHERE c.Cores=8
- SELECT * FROM cpu c where c.Cores>8
- SELECT * FROM cpu c ORDER BY c.Performance DESC
- SELECT * FROM cpu c WHERE c.Price<=\$POST[Price]
- SELECT * FROM motherboard WHERE motherboard.RAMSlot="DDR2"
- SELECT * FROM motherboard WHERE motherboard.RAMSlot="DDR3"
- SELECT * FROM motherboard WHERE motherboard.RAMSlot="DDR4"
- SELECT * FROM motherboard WHERE motherboard.OC='Y'
- SELECT * FROM motherboard WHERE motherboard.OC='N'
- SELECT * FROM motherboard WHERE motherboard.Price<=\$POST[Price]
- SELECT * FROM gpu g WHERE g.Brand="Nvidia"

-
- SELECT * FROM gpu g WHERE g.Brand="AMD"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="1GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="2 GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="3 GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="4 GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="6 GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="8 GB"
 - SELECT * FROM gpu g WHERE g.VRAMCapacity="11 GB"
 - SELECT * FROM gpu g ORDER BY g.Performance DESC
 - SELECT * FROM gpu g WHERE g.Price<=\$POST[Price]
 - SELECT * FROM psu WHERE psu.Manufacturer="Antec"
 - SELECT * FROM psu WHERE psu.Manufacturer="Cooler Master"
 - SELECT * FROM psu WHERE psu.Manufacturer="Corsair"
 - SELECT * FROM psu WHERE psu.Manufacturer="Thermaltake"
 - SELECT * FROM psu ORDER BY Wattage DESC
 - SELECT * FROM psu WHERE psu.Rating="none"
 - SELECT * FROM psu WHERE psu.Rating="80+"
 - SELECT * FROM psu WHERE psu.Rating="80+ Bronze"
 - SELECT * FROM psu WHERE psu.Rating="80+ Gold"
 - SELECT * FROM cabinet WHERE cabinet.Brand="Antec"
 - SELECT * FROM cabinet WHERE cabinet.Brand="Corsair"
 - SELECT * FROM cabinet WHERE cabinet.Brand="Cooler Master"
 - SELECT * FROM cabinet WHERE cabinet.Brand="NZXT"
 - SELECT * FROM cabinet WHERE cabinet.Brand="Thermaltake"
 - SELECT * FROM cabinet WHERE cabinet.Type="ATX"
 - SELECT * FROM cabinet WHERE cabinet.Type="Mini - ATX"
 - SELECT * FROM cabinet WHERE cabinet.Type="Mini - ITX"
 - SELECT * FROM cabinet WHERE cabinet.Type="Micro - ATX"
 - SELECT * FROM storage s WHERE s.Brand="Kingston"
 - SELECT * FROM storage s WHERE s.Brand="Sandisk"
 - SELECT * FROM storage s WHERE s.Brand="WD"
 - SELECT * FROM storage s WHERE s.Brand="Samsung"
 - SELECT * FROM storage s WHERE s.Brand="Seagate"
 - SELECT * FROM storage s WHERE s.Type="HDD"
 - SELECT * FROM storage s WHERE s.Type="SSD"
 - SELECT * FROM storage s WHERE s.Capacity="120GB"
 - SELECT * FROM storage s WHERE s.Capacity="240GB"
 - SELECT * FROM storage s WHERE s.Capacity="250GB"
 - SELECT * FROM storage s WHERE s.Capacity="480GB"
 - SELECT * FROM storage s WHERE s.Capacity="500GB"
 - SELECT * FROM storage s WHERE s.Capacity="1TB"
 - SELECT * FROM storage s WHERE s.Capacity="2TB"
 - SELECT * FROM storage s WHERE s.Capacity="3TB"
 - SELECT * FROM peripherals p WHERE p.Brand="HP"
 - SELECT * FROM peripherals p WHERE p.Brand="DELL"
 - SELECT * FROM peripherals p WHERE p.Brand="LOGITECH"
-

- SELECT * FROM peripherals p WHERE p.Brand="LG"
- SELECT * FROM peripherals p WHERE p.Brand="BENQ"
- SELECT * FROM peripherals p WHERE p.Brand="AMAZON"
- SELECT * FROM peripherals p WHERE p.Type="Monitor"
- SELECT * FROM peripherals p WHERE p.Type="Keyboard"
- SELECT * FROM peripherals p WHERE p.Type="Mouse"
- SELECT * FROM ram WHERE ram.Brand="Corsair"
- SELECT * FROM ram WHERE ram.Brand="Crucial"
- SELECT * FROM ram WHERE ram.Brand="HyperX"
- SELECT * FROM ram WHERE ram.Brand="Kingston"
- SELECT * FROM ram WHERE ram.Brand="Transcend"
- SELECT * FROM ram WHERE ram.Size="2 GB"
- SELECT * FROM ram WHERE ram.Size="4 GB"
- SELECT * FROM ram WHERE ram.Size="8 GB"
- SELECT * FROM ram WHERE ram.RAMSlot="DDR2"
- SELECT * FROM ram WHERE ram.RAMSlot="DDR3"
- SELECT * FROM ram WHERE ram.RAMSlot="DDR4"

Complex queries:

- SELECT m.Mname
FROM motherboard m, cpu c
WHERE m.Slot=c.Slot
AND c.Cname='\$_POST[Cname]'
- SELECT r.Brand,r.ClockSpeed,r.Size,r.RAMSlot,r.Price
FROM motherboard m, ram r
WHERE m.RAMSlot=r.RAMSlot
AND m.Mname='\$_POST[MoboName]'
- SELECT
c.Cname,c.Brand,c.Threads,c.Cores,c.Price,c.Performance,c.Performance/c.Price AS
'Performance for price'
FROM cpu c
ORDER BY 'Performance for price'
DESC
- SELECT g.Gname,g.Brand,g.VRAMType,g.VRAMCapacity,g.Price,g.Performance,
g.Performance/g.Price AS 'Performance for price'
FROM gpu g

ORDER BY `Performance for price`

DESC

Delete queries:

- DELETE FROM cabinet WHERE CaseName='\$_POST[cabname]'
- DELETE FROM psu WHERE PName='\$_POST[psuname]'
- DELETE FROM storage WHERE Brand='\$_POST[stname]'
- DELETE FROM ram WHERE Brand='\$_POST[ramname]'
- DELETE FROM peripherals WHERE PeriName='\$_POST[pname]'
- DELETE FROM motherboard WHERE Mname='\$_POST[mname]'
- DELETE FROM gpu WHERE Gname='\$_POST[gname]'
- DELETE FROM cpu WHERE Cname='\$_POST[cpuname]'
- DELETE FROM cpu WHERE Cname='\$_POST[cpuname]'

Insert queries:

- INSERT INTO storage VALUES
('\$_POST[sname]', '\$_POST[brand]', '\$_POST[type]', '\$_POST[cap]', '\$_POST[price]')
- INSERT INTO ram VALUES
('\$_POST[brand]', '\$_POST[cs]', '\$_POST[size]', '\$_POST[rslot]', '\$_POST[price]')
- INSERT INTO psu VALUES
('\$_POST[pname]', '\$_POST[manu]', '\$_POST[rating]', '\$_POST[watt]', '\$_POST[price]')
- INSERT INTO peripherals VALUES
('\$_POST[pname]', '\$_POST[brand]', '\$_POST[type]', '\$_POST[price]')
- INSERT INTO motherboard VALUES
('\$_POST[mname]', '\$_POST[slot]', '\$_POST[rslot]', '\$_POST[oc]', '\$_POST[price]')
- INSERT INTO gpu VALUES
('\$_POST[gname]', '\$_POST[brand]', '\$_POST[vtype]', '\$_POST[vcap]', '\$_POST[watt]', '\$_POST[performance]', '\$_POST[price]')
- INSERT INTO cpu VALUES
('\$_POST[cname]', '\$_POST[slot]', '\$_POST[brand]', '\$_POST[gen]', '\$_POST[threads]', '\$_POST[cores]', '\$_POST[tdp]', '\$_POST[performance]', '\$_POST[price]', '\$_POST[type]')
- INSERT INTO cabinet(CaseName,Brand,Type,Price) VALUES
('\$_POST[casename]', '\$_POST[brand]', '\$_POST[type]', '\$_POST[price]')

Chapter 5

TESTING

5.1 Conclusion:

It has been a great pleasure for us to work on this project. We hereby like to state that this application provides very good platform to everyone who wants to know about components required to assemble a PC, compatibility between parts, value for money for CPU and GPU . The admin has the privilege to edit the database i.e., insertion, deletion, updation, of pricing of peripherals etc.

5.2 Future enhancement:

- To provide online purchase of the components.
- Develop a common means of interaction between user and the sellers.
- Provide build guides to assemble a computer.

5.3 Snapshots:

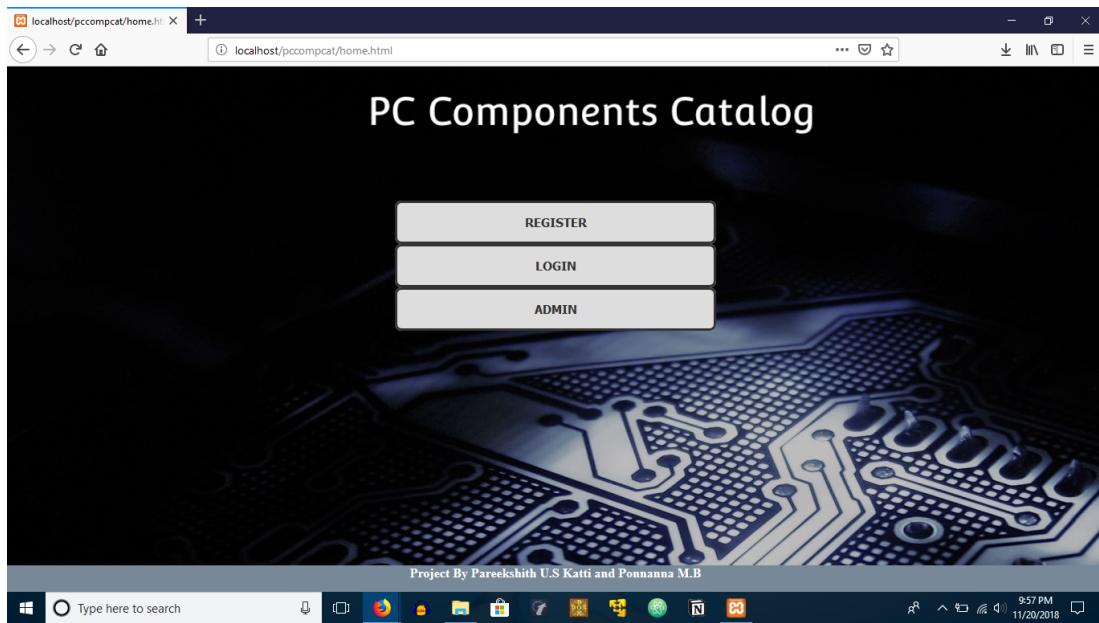


fig 5. 1 Welcome Page

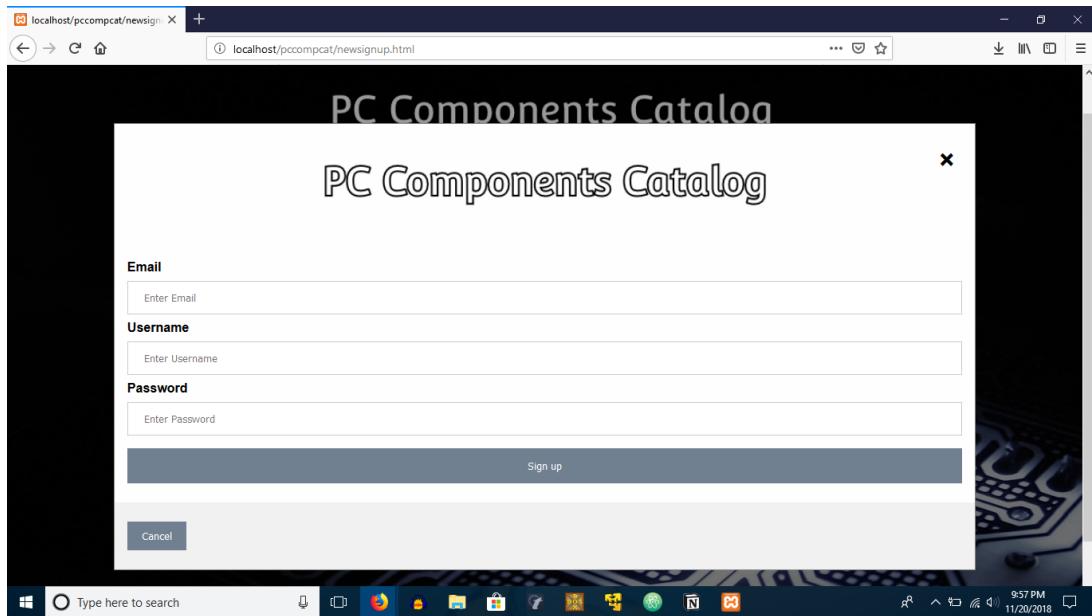


fig 5. 2 Registration Page

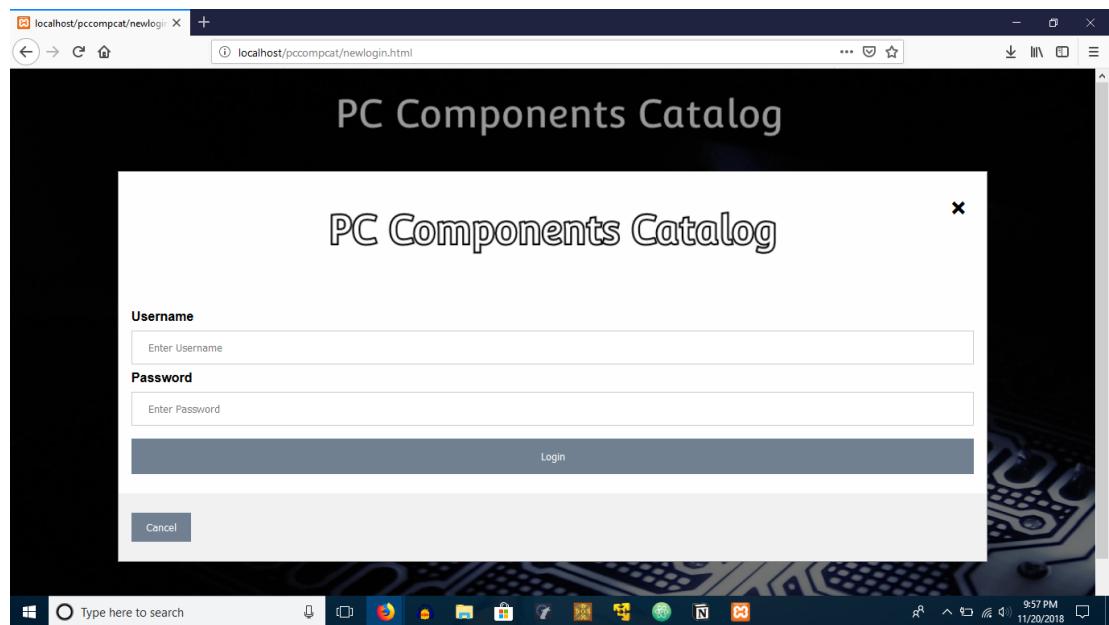


fig 5. 3 Login Page

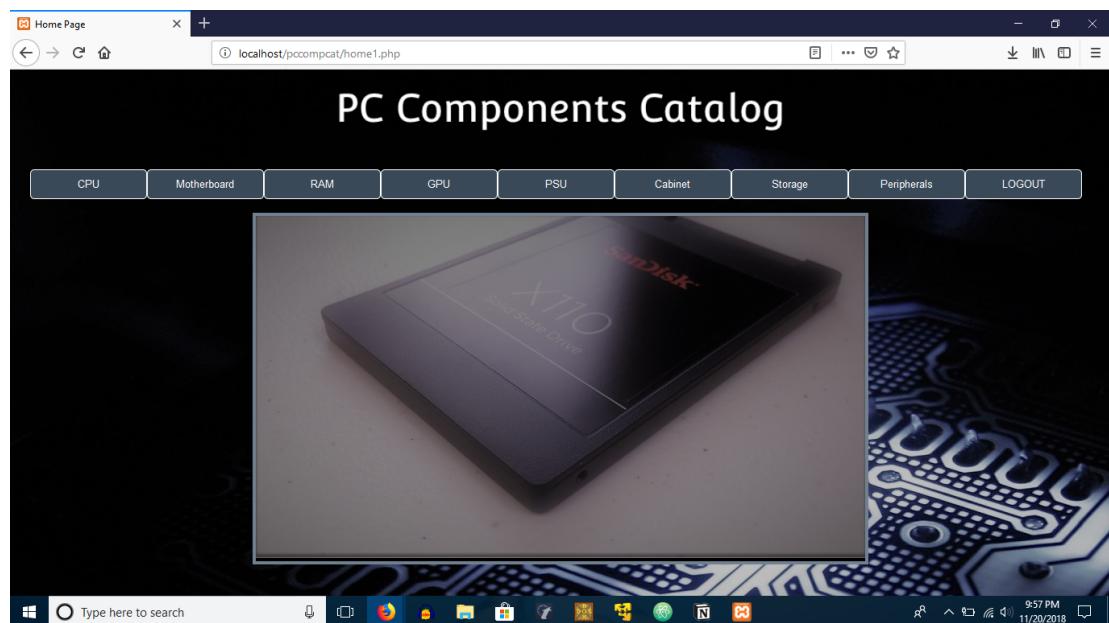


fig 5. 4 Home Page

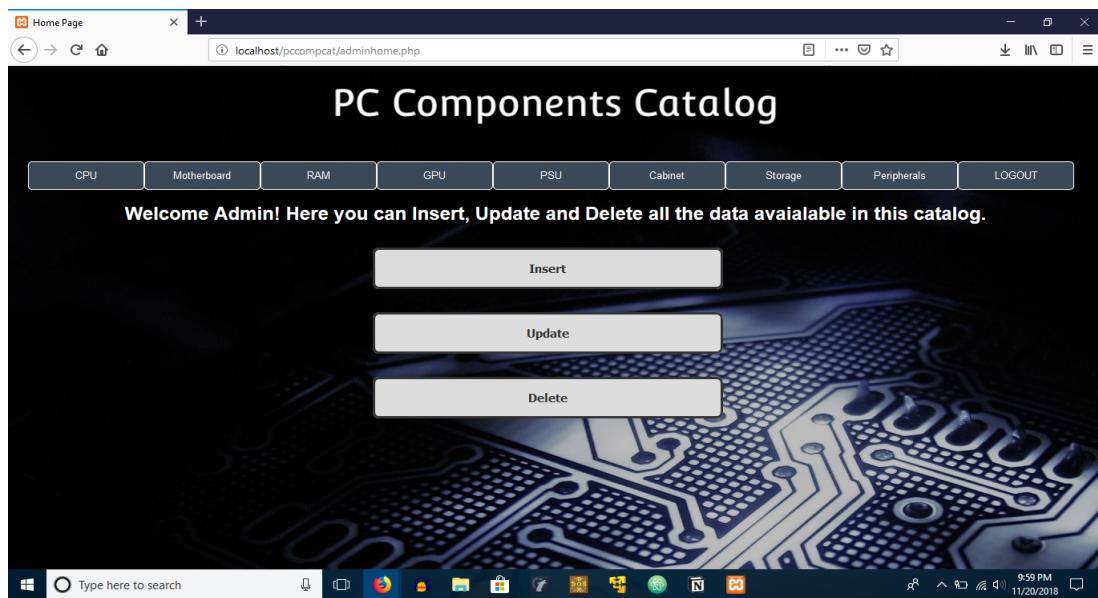


fig 5. 5 Admin Home

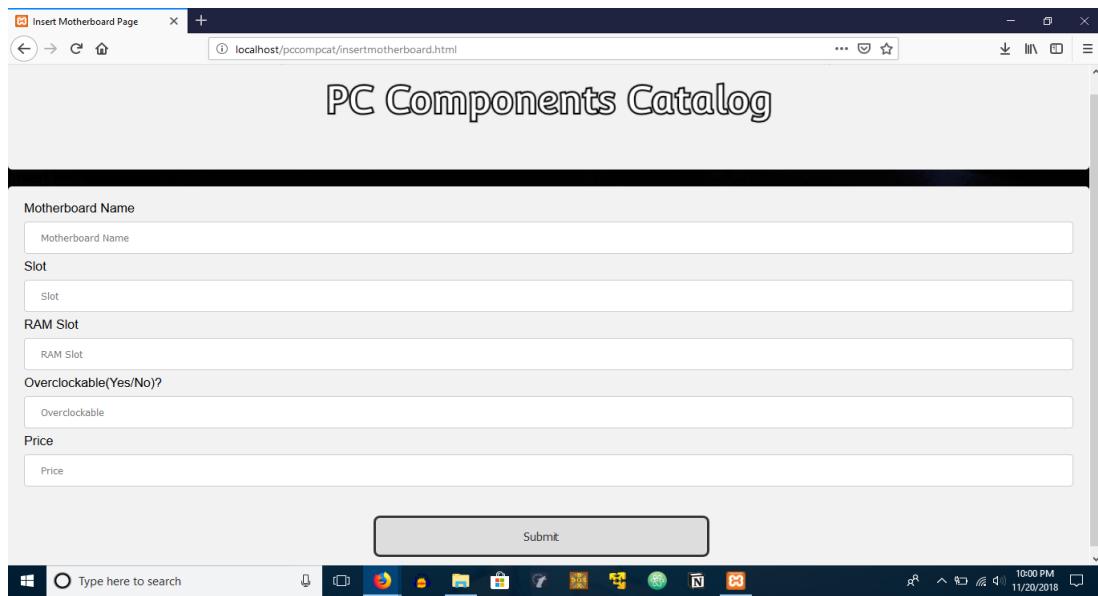


fig 5. 6 Insert Page

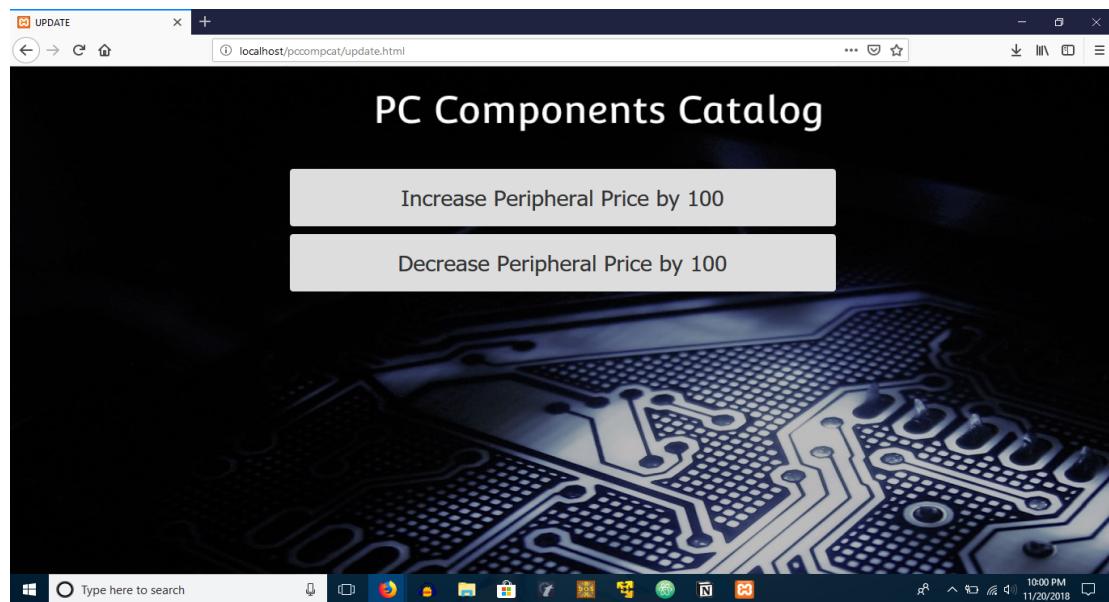
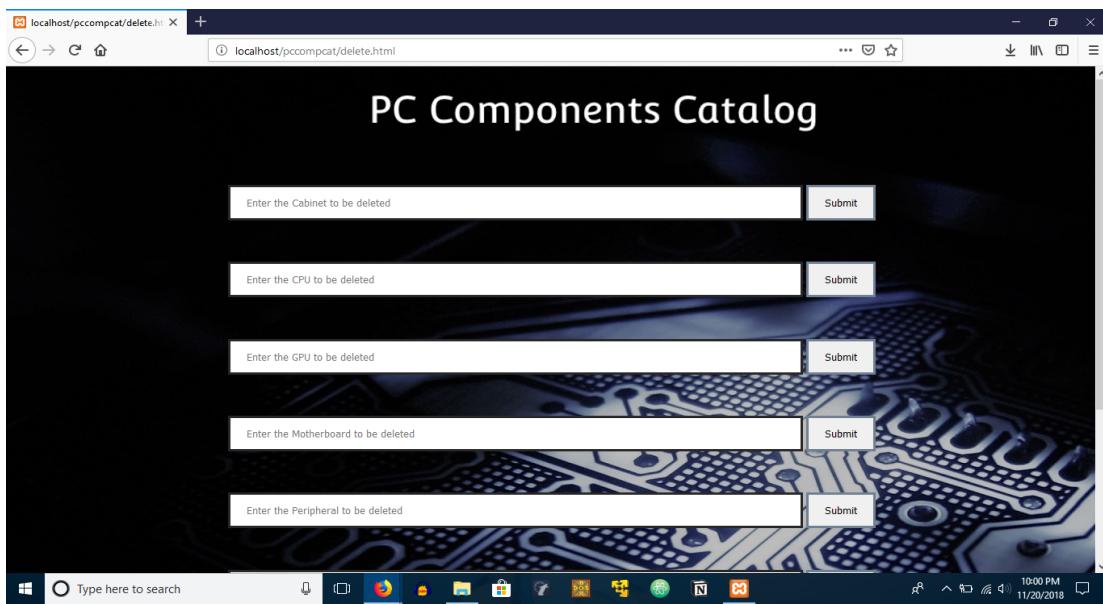


fig 5. 8 Update Page

A screenshot of a Microsoft Windows operating system desktop. In the center is a Microsoft Edge browser window titled "localhost/pccompact/allmobo.php". The page displays a table with the following data:

Mname	Slot	RAMSlot	OC	Price
A320	AM4	DDR4	N	4000
B350M	AM4	DDR4	Y	7500
B360	LGA1151	DDR4	Y	7000
B450M	AM4	DDR4	Y	12000
G31	LGA775	DDR2	Y	2250
G41	LGA775	DDR3	Y	2850
H310M	LGA1151	DDR4	N	5000
H370	LGA1151	DDR4	Y	12400
X299	FCLGA2066	DDR4	Y	55000
X399	TR4	DDR4	Y	50000
X470	AM4	DDR4	Y	16000
Z370	LGA1151	DDR4	Y	13000

The browser's address bar shows "localhost/pccompact/allmobo.php". The Windows taskbar at the bottom includes icons for File Explorer, Edge, File Manager, Task View, Taskbar settings, Taskbar search, and a date/time indicator.

fig 5. 9 Output Page