

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Technology Degree in Information Technology

By
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DEPARTMENT OF INFORMATION TECHNOLOGY
SCHOOL OF COMPUTING
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JANUARY 2021



SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the Bonafide work of who carried out the project entitled "BLOOD BANK MANAGEMET SYSTEM" under our supervision from July 2020 to January 2021.

Internal Guide

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Head of the Department

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Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I hereby declare that the Project Report entitled "**PURCHASE MANAGEMENT USING WEB APPLICATION**" done by me under the guidance of Dr.Jaberson Ratna R M.E., Ph.D., at Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119 is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

DATE: 22/01/2021

Place: Chennai

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey our thanks to **Dr. T. SASIKALA M.E., Ph.D., Dean, School of Computing** and **Dr. R. SUBHASHINI M.E., Ph.D., Head of the Department, Department of Information Technology** for providing us the necessary support and details at the right time during the progressive reviews.

I would like to express our sincere and deep sense of gratitude to our Project **Dr.JABERSON RATNA M.E., Ph.D.,** for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE


EUROPEAN OPEN UNIVERSITY

CERTIFICATE

This certifies that

B.Mokitha

has satisfactorily completed the course of study in

Learn PHP Programming From Scratch

PROFESSIONAL CERTIFICATE PROGRAM

Awarded Date

21/01/2021


President – Open Learning, AEU




Director – Continuing Education, AEU

ABSTRACT

PURCHASE MANAGEMENT USING WEB APPLICATION

The proposed project “PURCHASE MANAGEMENT USING WEB APPLICATION” is used for sending a request to our college Trustee regarding college hardware requirements. The project has been developed using ASP.NET and MYSQL. In this I create a Web Application where the hardware engineer will send a request to the concern HOD and the request will be approved by the college Principle. After the approval of the Principle the request will send to the concern Chief Executive after his approval it will be forwarded to the Trustee. Once the Trustee approves the requirements which has been requested for, will be approved and send to the Purchase Officer.

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LIST OF ABBREVIATIONS

ABBREVIATIONS

EXPANSION

ASP.NET

ACTIVE SERVER PAGES.NETWORK ENABLED
TECHNOLOGIES

MYSQL

MY STRUCTURED QUERYLANGUAGE

CHAPTER 1

INTRODUCTION

IT is the responsibility of the academic system to maintain the records of the product to be purchased and need to be purchased or replaced . But doing all this with paper work takes a lot of time to be processed and proceeded, in other words it is maintained manually. Purchase management using web application allows the staffs and falcuties to order the products that are not present and that are to be replaced. The approval or rejection of the products are done by the higher officials. And the records are monitored to check whether their products have been approved or not.

CHAPTER 2

SYSTEM CONFIGURATION

2.1 HARDWARE SPECIFICATION

Processor : Dual core

Hard disk capacity : 250 GB

RAM : 2GB

Monitor : 18.5 “Acer Monitor”

Keyboard : Logitech of 104 keys

Mouse : Logitech mouse

2.2 SOFTWARE SPECIFICATION

Operating System : Windows 7

Front End : ASP.NET

Back End : MYSQL

CHAPTER 3

SYSTEM ANALYSIS

3.1 EXISTING SYSTEM

The current system for college shopping is to visit the shop manually and from the available product choose the item staff want and buying the item by payment of the trust price of the item .

- It is less user-friendly.
- User must go to shop and select products.
- It is difficult to identify the required product.
- Description of the product limited.
- It is a time consuming process
- Not in reach of distant staff..

3.2 PROPOSED SYSTEM

In the proposed system trust need not go to the shop for buying the products. He can order the product he wish to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the trust member and product orders. The system also recommends a class to delivery system for the purchased products.

3.3 SOFTWARE FEATURES

Microsoft has built a very powerful framework and most successful web application development framework. Microsoft is delivering many new updates which are new and extended features that help the developers to make their web application highly scalable.

3.3.1 High Performance

Performance is always a critical feature for any of the applications or software. Due to its ASP.NET Core and Kestrel web server, it's remarked as the fastest and quick web application framework which is available in the market. Due to its new Kestrel web server, it is more fast and lightweight. Also, it has the advantage of asynchronous programming models. All other things like python, java, jsp, php use an interpreter. However, compilers are faster as compared to the interpreter. Compilers take all the code and compile at a time. So it is fast because ASP.NET uses compiler-based technology.

2. Cross-Platform and Container Support

As we say it supports cross-platform means it supports Windows, macOS, and Linux. So if we create ASP.NET application then we can directly deploy it on these platforms.

3. Asynchronous via Async/Await

Asynchronous programming patterns is now implemented in all .net frameworks classes and 3rd party libraries. You know why asp.net is faster, because of its wide use of asynchronous patterns in kestrel frameworks. However, most of the applications spend their lots of time waiting for database queries, web services call and its input-output operations to complete.

4. Rich Development Environments

If we are creating the application then we will use IDE i.e visual studio. It provides a rich development environment by which we can easily drag and drop the components (radio buttons, checkboxes, etc.) and create the application.

5. Language Independent

The framework is language independent that is developers can use various languages like C#. So it's easy for a developer to make its application by language which they know. We can create a dynamic web application using any of the languages.

6. Supports for Web Sockets

Sockets are used to create a client – server-based Applications. By socket normally we can create web-based client-server applications. These provide back and forth communication of the browser.

7. Action Filters

NET supports a very great feature that is ACTION FILTERS. These filters are used to implement error handling, authorization, caching or to any custom logic which we would like to implement. There is a logic been implemented which will be executed before and after controller action. To implement these logic Action filters are used.

8. Globalization and Localization

We host the web application and it can be accessed from anywhere globally. So language, date and time format, number format, the currency must be different for different regions or countries. ASP.NET supports globalization so that different countries' clients or people also can understand and they can access this application. ASP.NET customize our application for different languages with the help of resource files. These files act as a central repository where all the texts are placed.

9. Security

As it supports the .net framework so it will provide security for our application. Applications have its individual identity, so before running this .net will check its identity of those objects. It will also check the operating system security. Due to its pre-application configuration and feature of built-in windows authentication, our developed application is safe and secure. With built-in

Windows authentication and per-application configuration, your applications are safe and secured.

10. Supports for HTML5 Form Types

It provides support for HTML5 form types. There the new controls are available in HTML5 like email, URL, Number, RANGE, Date pickers (week, date, month, time, DateTime-local, etc.), color and search. 11.

MySQL Database

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons –

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to PHP, the most appreciated language for web development.

Administrative MySQL Command

Here is the list of the important MySQL commands, which you will use time to time to work with MySQL database –

- **USE Database name** – This will be used to select a database in the MySQL workarea.

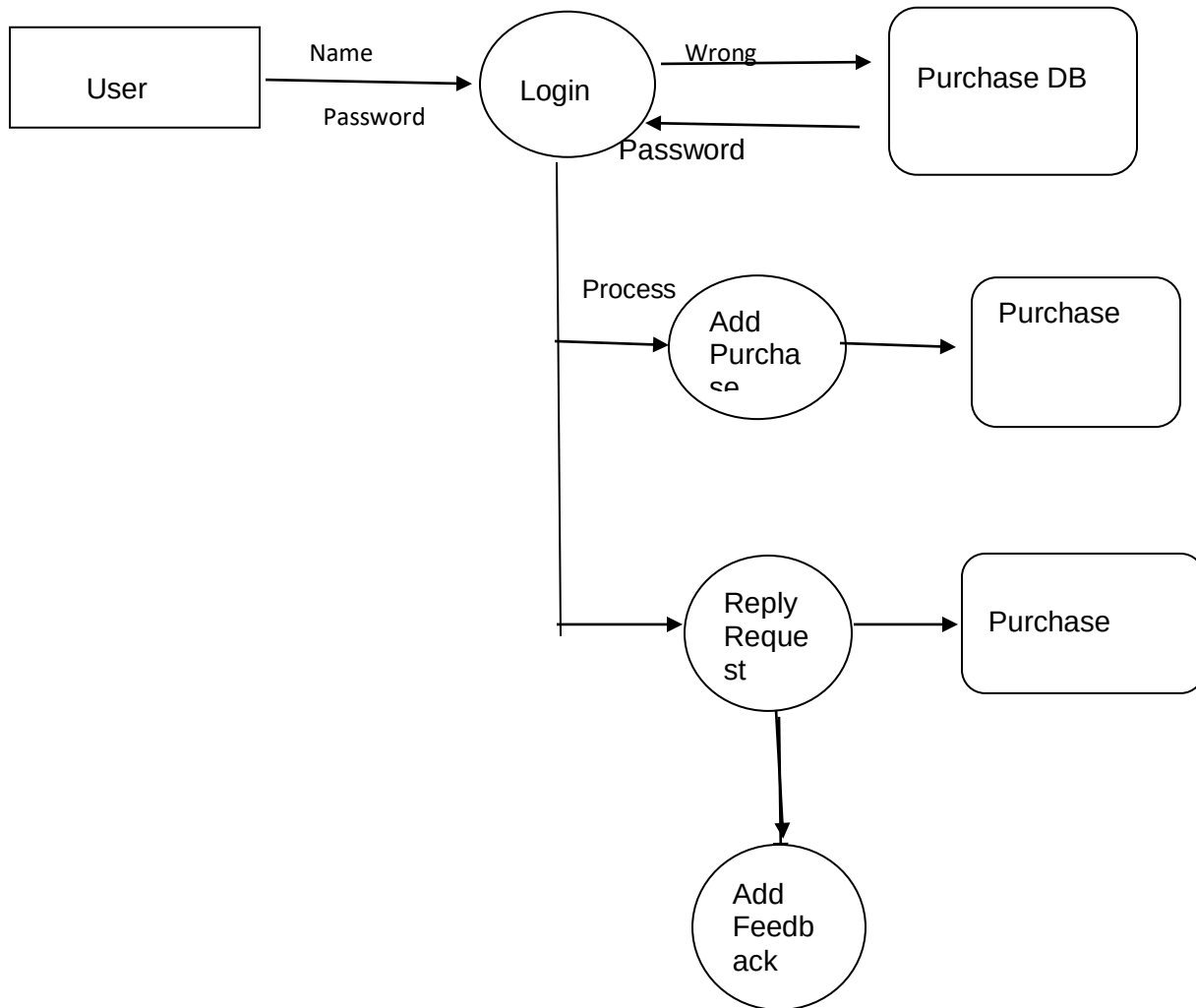
- **SHOW DATABASES** – Lists out the databases that are accessible by the MySQL DBMS.

- **SHOW TABLES** – Shows the tables in the database once a database has been selected with the use command.

CHAPTER 4

4.1 system

SYSTEM DESIGN



4.2 MODULE DESCRIPTION

- Admin Login
- Request Module
- Chief Executive Login
- Trustee Module
- Purchase Module

Admin login:

Admin can add staff and HOD and Trust member. The admin will be able to Add, Edit and delete user. Admin Mange Staff details and HOD details.

Staff/HOD login:

The Staff login successfully registers go in staff page, adding some material and computers and more then material.

Trust login:

The Trust login successfully login to view staff adding material and more details. Trust maintain the specified material quality level and a consistency of quality which permits efficient and effective operation. To develop and maintain good supplier relationships in order to create a supplier attitude and desire furnish the organization with new ideas, products, and better prices and service.

Purchase module:

The purchase module is used material type and price quality and more added in purchase module used. This type module used product type and name, warranty years to online product purchasing.

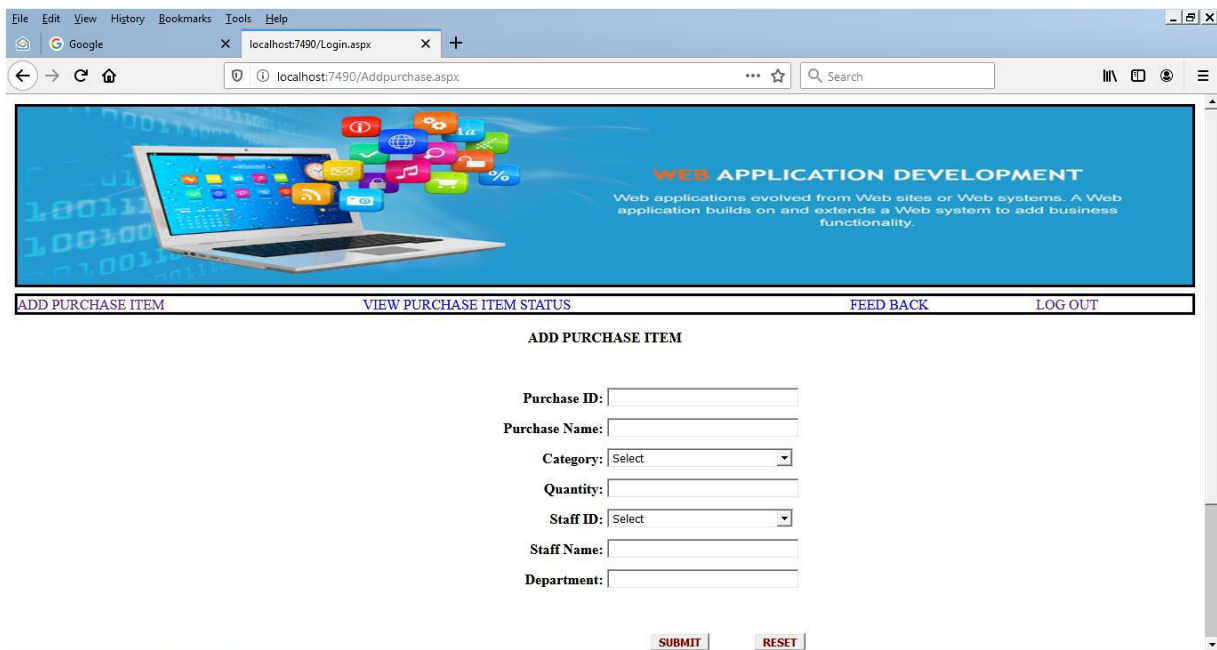
Request system:

The Request module used product purchase conformation and price quality in suggestion in trust member or staff/HOD. The request module it used product not purchased, intimating(requesting) trust member

4.3 IINPUT DESIGN



ADD PURCHASE ITEM

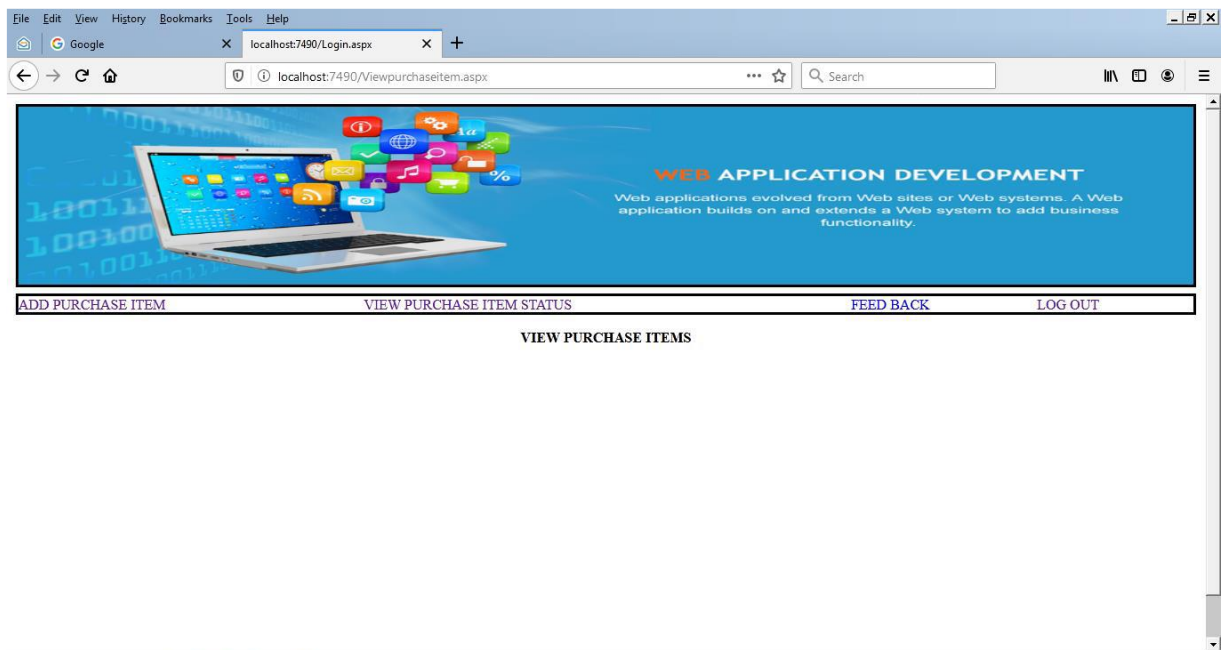


The screenshot shows a web browser window with the address bar displaying 'localhost:7490/Addpurchase.aspx'. The page features a blue header banner with a laptop and various icons, and the text 'WEB APPLICATION DEVELOPMENT'. Below the banner is a navigation bar with links: 'ADD PURCHASE ITEM', 'VIEW PURCHASE ITEM STATUS', 'FEED BACK', and 'LOG OUT'. The main content area is titled 'ADD PURCHASE ITEM' and contains a form with the following fields:

- Purchase ID:
- Purchase Name:
- Category:
- Quantity:
- Staff ID:
- Staff Name:
- Department:

At the bottom of the form are two buttons: 'SUBMIT' and 'RESET'.

VIEW PURCHASE ITEMS



FEEDBACK INFORMATION

File Edit View History Bookmarks Tools Help

Google localhost:7490/Login.aspx

localhost:7490/Feedback.aspx

WEB APPLICATION DEVELOPMENT

Web applications evolved from Web sites or Web systems. A Web application builds on and extends a Web system to add business functionality.

[ADD PURCHASE ITEM](#) [VIEW PURCHASE ITEM STATUS](#) [FEED BACK](#) [LOG OUT](#)

FEEDBACK INFORMATION

Feedback ID:

Feedback Name:

Date:

Department:

Staff Name:

Feedback Description:

OUTPUT DESIGN

Approve	Pid	Major	Minor	Qty	Date	ExceptDate	Description	Staffname	Department
210	210	Electrical	fan	10	21.02.2020	01.03.2020	fan need	vinod	Computer Science
211	211	Electronics	computer	20	23.02.2020	15.03.2020	Model practical start on 20.03.2020	sweatha	Computer Science
212	212	Furniture	chair	30	2/25/2020	03/02/2020	function	gulshan	computer
213	213	Others	cricket bat	5	2/25/2020	09-02-2020	match	sri ram	computer
214	214	Electronics	chip	12	2/26/2020	23/03/2020	required	narmada	ece
215	215	Electrical	chipset	12	2/26/2020	20-03-2020	software	gulshan banu	computer
216	216	Others	binocular	10	2/28/2020	02-03-2020	exam	gopika	civil
217	217	Electronics	cpu	10	2/28/2020	05-03-2020	Exam	gulshan banu	computer
218	218	Electronics	cpu	10	2/28/2020	05-03-2020	exam	gulshan banu	computer
219	219	Electronics	cpu	12	2/28/2020	05-03-2020	exam	gulshan banu	computer
220	220	Electronics	cpu	12	2/28/2020	05-03-2020	exam	gulshan banu	computer
221	221	Electronics	diodes	200	2/28/2020	3-5-2020	lab wrk	gulshan banu	computer

CODING DESIGN

Sample Coding

```
System. Data
System. Data .Sql Client
Class Staffdetails
Inherits System.Web.UI.Page
con As SqlConnection = New
SqlConnection(ConfigurationManager.ConnectionStrings("cnstring").ConnectionString)
com As New SqlCommand
adp As New SqlDataAdapter
ds As New DataSet
qry As String
As Integer Protected Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
    TextBox1.Text = "" Or TextBox2.Text = "" Or TextBox3.Text = "" Or TextBox4.Text = "" Or
    TextBox5.Text = "" Or TextBox6.
Then Response.Write("<script>alert('Enter All Fields')</script>")
Else
    qry = "Insert into staffdet values('" + TextBox1.Text + "','" + TextBox2.Text + "','" +
    TextBox3.Text + "','" + DropDownList1.Text + "','" + DropDownList2.Text + "','" +
    TextBox7.Text + "','" + TextBox8.Text + "')"
    com = New SqlCommand(qry, con)
    con.Open()
    com.ExecuteNonQuery()
    Response.Write("<script>alert('Sucessfully Saved')</script>")
    con.Close()
End If
TextBox1.Text = ""
TextBox2.Text = ""
TextBox3.Text = ""
TextBox4.Text = ""
    TextBox5.Text = ""
    TextBox6.Text = ""
    TextBox7.Text = ""
    TextBox8.Text = ""
    DropDownList1.Text = "Select"
    DropDownList2.Text = "Select"
```

```

Try Dim p As String
qry = "Select staffid from staffdet"
com = New SqlCommand(qry, con)
adp = New SqlDataAdapter(com)
ds = New DataSet
adp.Fill(ds, "staffdet")
i = ds.Tables(0).Rows.Count
p = ds.Tables(0).Rows(i - 1)(0)

p = Mid(p, 1)
p = Val(p) + 1
TextBox1.Text = +p
Catch ex As Exception
TextBox1.Text = "110"
End Try
Sub Protected
Sub Button2_Click(sender As Object, e As EventArgs)
Handles Button2
.Click TextBox2.Text = ""
TextBox3.Text = ""
TextBox4.Text = ""
TextBox5.Text = ""
.Text = "" TextBox7
.Text = "" DropDownList1.Text = "Select"
DropDownList2.Text = "Select"
Sub Class
<%@ Page Title="" Language="VB" MasterPageFile="~/Staff.master" AutoEventWireup="false"
CodeFile="Addpurchase.
<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
<style type="text/css">
auto-style3
{ width: 25%;
height: 30px;
}
</style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
<table style="position: static; width: 100%;">
<tr>
<td style="width: 25%; height: 30px;">
</td>
<td colspan="2" style="height: 30px; text-align: center;">
<asp:Label ID="Label1" runat="server" style="font-weight: 700" Text="ADD PURCHASE
ITEM"></asp:Label>
</td>
<td style="width: 25%; height: 30px;">
</td>
</tr>

```

```

<tr>
<td style="width: 25%; height: 30px;">&nbsp;</td>
<td style="width: 25%; height: 30px;">&nbsp;</td>
<td style="width: 25%; height: 30px;">&nbsp;</td>
td style="width: 25%; height: 30px;">&nbsp;</td>
</tr>
<tr>
<td style="width: 25%; height: 30px; text-align: right;">
<asp:Label ID="Label2" runat="server" style="font-weight: 700" Text="Purchase
ID:"></asp:Label>
</td>
<td style="width: 25%; height: 30px; text-align: left;">
<asp:TextBox ID="TextBox1" runat="server" Width="210px" BorderColor="#CCCCCC"
BorderStyle="Solid"></asp:
</td>
<td style="width: 25%; height: 30px; text-align: right;">
<asp:Label ID="Label11" runat="server" style="font-weight: 700"
Text="Description:"></asp:Label>
/<td>
<td style="width: 25%; height: 30px; text-align: left;">
<asp:TextBox ID="TextBox1" runat="server" Width="210px" BorderColor="#CCCCCC"
BorderStyle="Solid"></asp:
</td>
<td style="width: 25%; height: 30px; text-align: right;">
<asp:Label ID="Label11" runat="server" style="font-weight: 700"
Text="Description:"></asp:Label>
</td>
<td style="width: 25%; " rowspan="2" valign="top">
<asp:TextBox ID="TextBox6" runat="server" Width="210px" Height="60px"
TextMode="MultiLine"></asp:TextBox>
</td>
</tr>
<tr>
<td style="text-align: right;" class="auto-style3">
<asp:Label ID="Label3" runat="server" style="font-weight: 700; text-align: right;"
Text="Major:"></asp:Label>
</td>
<td style="text-align: left;" class="auto-style3">
<asp:DropDownList ID="DropDownList1" runat="server" Width="210px" style="text-align:
left">
<asp:ListItem>Select</asp:ListItem>
<asp:ListItem>Electrical</asp:ListItem>
<asp:ListItem>Electronics</asp:ListItem>
<asp:ListItem>Furniture</asp:ListItem>
<asp:ListItem>Others</asp:ListItem>
</asp:DropDownList>
</td>
<td class="auto-style3">
</td>
</tr>

```

```

<tr>
  <td style="width: 25%; height: 30px; text-align: right;">
    <asp:Label ID="Label4" runat="server" style="font-weight: 700" Text="Minor:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px; text-align: left;">
    <asp:TextBox ID="TextBox2" runat="server" Width="210px"></asp:TextBox>
  </td>
  <td style="width: 25%; height: 30px; text-align: right;">
    <asp:Label ID="Label7" runat="server" style="font-weight: 700" Text="Staff ID:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px;">
    <asp:DropDownList ID="DropDownList2" runat="server" Width="210px"
    AutoPostBack="True">
    <asp:ListItem>Select</asp:ListItem>
  </asp:DropDownList>
  </td>
</tr>
<tr>
  <td style="width: 25%; height: 30px; text-align: right;">
    <asp:Label ID="Label5" runat="server" style="font-weight: 700"
    Text="Quantity:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px;
  <text-align: left;">
    <asp:TextBox ID="TextBox3" runat="server" Width="210px"></asp:TextBox>
  </td>
  <td style="width: 25%; height: 30px;
  < text-align: right;">
    <asp:Label ID="Label8" runat="server" style="font-weight: 700"
    Text="StaffName:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px;">
    <asp:TextBox ID="TextBox7" runat="server" Width="210px" style="text-align:
    left"></asp:TextBox>
  </td>
</tr>
<tr>
  <td style="width: 25%; height: 30px; text-align: right;">
    <asp:Label ID="Label10" runat="server" style="font-weight: 700" Text="Date:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px; text-align: left;">
    <asp:TextBox ID="TextBox4" runat="server" Width="210px"></asp:TextBox>
  </td>
  <td style="width: 25%; height: 30px; text-align: right;">
    <asp:Label ID="Label9" runat="server" style="font-weight: 700"
    Text="Department:"></asp:Label>
  </td>
  <td style="width: 25%; height: 30px;">
    <asp:TextBox ID="TextBox8" runat="server" Width="210px" style="text-align:
    left"></asp:TextBox>
  </td>
</tr>

```

```

</td>
</tr>
<tr>
<td style="width: 25%; height: 30px;text-align: right;">
<asp:Label ID="Label12" runat="server" style="font-weight: 700" Text="Except
Date:"></asp:Label>
</td>
<td style="width: 25%; height: 30px; text-align: left;">
<asp:TextBox ID="TextBox5" runat="server" Width="210px" style="text-align:
left"></asp:TextBox>
</td>
<td style="width: 25%; height: 30px;">
&nbsp;</td>
<td style="width: 25%; height: 30px;">
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<tr> <td style="width: 25%; height: 30px;">
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<td style="width: 25%; height: 30px;">&nbsp;</td>
</tr>
<tr>
<td style="width: 25%; height: 30px;">&nbsp;</td>
<td style="width: 25%; height: 30px;">
<table style="position: static; width: 100%;">
<tr> <td style="width: 50%; height: 30px; text-align: center;">
<asp:Button ID="Button1" runat="server" style="font-weight: 700; text-align: center; color: #
</td>
<td style="width: 50%; height: 30px;">
<asp:Button ID="Button2" runat="server" style="font-weight: 700; text-align: center; color: #
</td>
</tr>
</table>
</td>
<td style="width: 25%; height: 30px;">&nbsp;</td>
<td style="width: 25%; height: 30px;">&nbsp;</td>
</tr>
<tr>
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</tr>
<tr> <td style="width: 25%; height: 30px;">&nbsp;
</td> <td style="width: 25%; height: 30px;">&nbsp;</td>
<td style="width: 25%; height: 30px;">&nbsp;</td>

```

```
<td style="width: 25%; height: 30px;">&nbsp;</td>  
</tr>  
</table>  
</asp:Content>
```

SYSTEM IMPLEMENTATION AND TESTING

SYSTEM IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system. The most crucial stage is achieving a successful new system and giving a user confidence in that the new system will work efficiently and effectively in the implementation stage. The stage consists of

- Testing a developed program with sample data
- Detection and correction of error
- Creating whether the system meets a user requirements
- Making necessary changes as desired by users.

TESTING

UNIT TESTING

Unit testing focuses verification efforts on the smallest unit of software design, the module. This is also known as “Module Testing” The modules are tested separately this testing is carried out during programming stage itself. In this step each module is found to be working satisfaction as regard to the expected output from the module.

INTEGRATION TESTING

Integration testing focuses on the design and construction of the software architecture. Data can be lost across an interface, one module can have adverse effect on another sub functions and show on. Thus integration testing is a systematic technique for constructing test to uncover errors associated with in the interface. In this project, all the modules are companied and then the entire program is tested as a whole

SCOPE FOR FUTURE ENHANCEMENT

Every application has its own merits and demerits. The project has covered almost all the requirements. Further requirements and improvements can easily be done since the coding is mainly structured or modular in nature. Changing the existing modules or adding new modules can append improvements. The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the user is now able to manage and hence run the entire work in a much better, accurate and error free manner.

CONCLUSION

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application and an android application for purchasing items from a shop. This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & css, usage of responsive templates, designing of android applications, and management of database using mysql . The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle.

certificate



