BVDU AMPLIFY DITM

MINOR PROJECT – 2

TOPICS:

- **Web Programming(ASP.NET)-**
  Decorative Paints Website

Made by:

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Course: BSc.IT

Semester: 4th

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Index:

ASP.Net Project

Acknowledgement:

I would like to thank all my teachers who guided me for this project.

My deepest gratitude to Snehal Chhajed and Chanda Hirwe madam who helped me to overcome difficulties at certain points in my project.

I would also like to thank Mr. Prashant Hinduja Sir for providing us opportunity to build up our skills and talent.

I greatly acknowledge all the support provided by my friends who helped me to accomplish this project. I would also like to thank my family members for encouraging and supporting me throughout this journey.

Website (ASP.Net):

Decorative Paints website development in Windows Environment Project Report

Introduction:

In this project, I have created a website for Decorative Paints. In this website the user can login and register, browse through the color palettes and the various exterior and interior paint products, can get inspiration from the inspiration tab which contains image gallery, can use tools like color picker, paint calculator and paint your home.

Objective:

The main objective of this project is to provide the user all information about the decorative paints and to be able to use the different tools provided in the website.

Software Used:

- ➢ Visual Studio 2017 – For the UI design and implementation
- ➢ Microsoft SQL Server 2016 – For the database

Minimum Software Requirement:

Server side:-

- ➢ Window 7 or any Server OS

- ➢ ASP.Net

- ➢ MS SQL 2016

Client side:-

- ➢ Windows7 or Above

- ➢ Internet Explorer 5.0 or Above

- ➢ Google Chrome

- ➢ Mozilla Firefox

Minimum Hardware Requirement:

Server side:-

- ➢ i3 or Above

- ➢ 4GB RAM

- ➢ 500 GB Hard Disk

Client side:-

- ➢ i3 or above

- ➢ 4GB RAM

- ➢ 500GB hard disk

Technical Specification:
- ➢ The UI is created with the help of bootstrap classes and CSS.
- ➢ The login and register details of the user are saved in the database.
- ➢ The paint calculator tool uses web services.
- ➢ The color picker tool uses JavaScript and canvas.
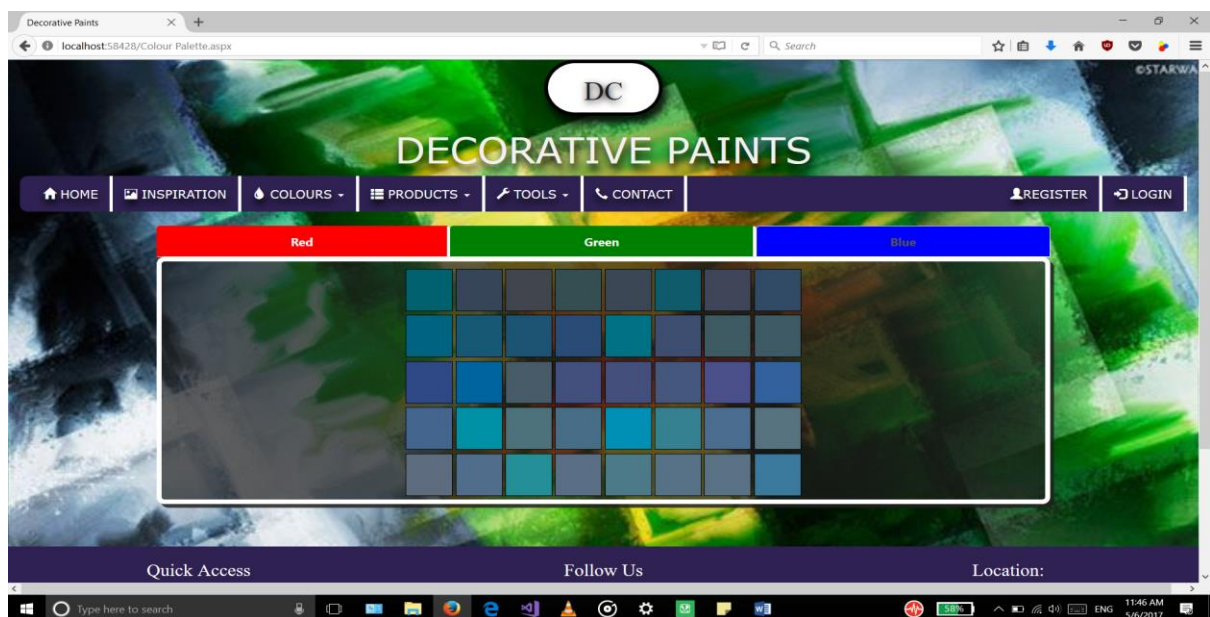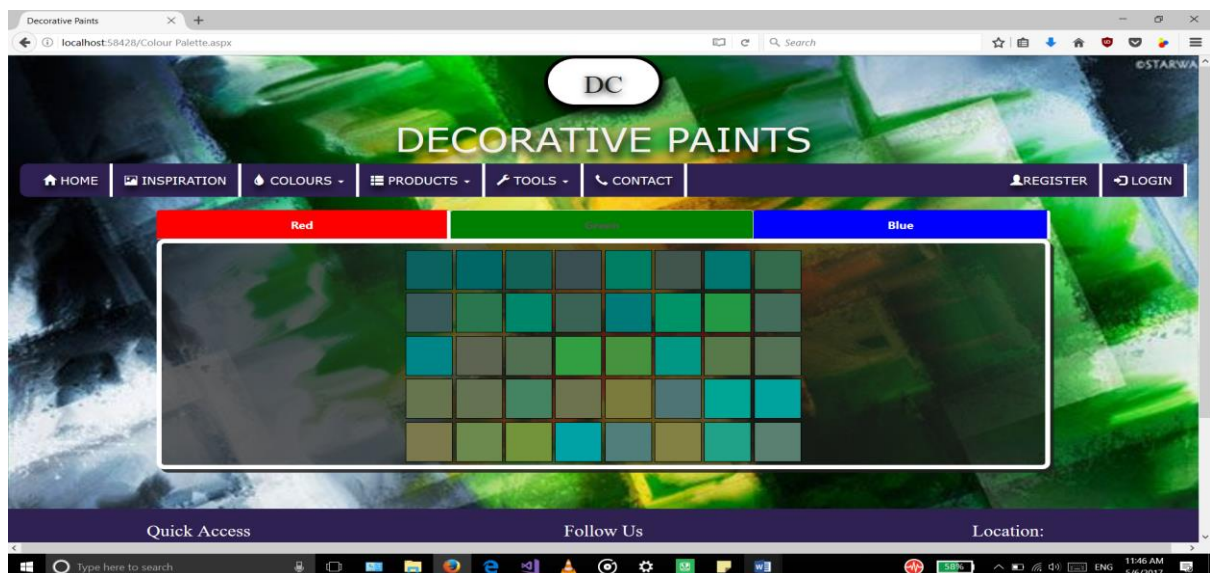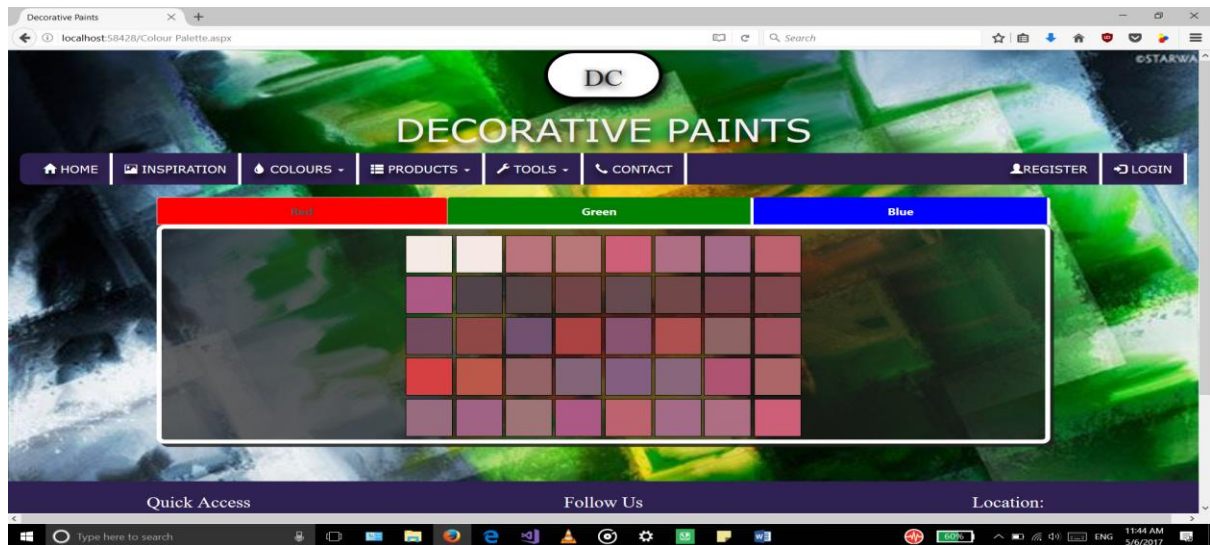
Steps to achieve output:

> ➢ Thinking about the project and highlighting its main points was my first task.
> ➢ Making a rough sketch and representing it diagrammatically (flowchart).
> ➢ Use of database.
> ➢ Use of bootstrap classes
> ➢ Use of canvas
> ➢ Use of CSS
> ➢ Use of JavaScript
> ➢ Use of Web Services

Design & Code

Home Page:

This is the home page, which is also the master page. In this page all the code is written for the navigation bar, footer and the coursel in which the images are scrolling automatically. The user can select the options from the navigation bar.

Code:

```
 <div class="collapse navbar-collapse nav-justified" id="myNavbar" style="font-
family:Verdana, Geneva, Tahoma, sans-serif">
      <ul class="nav navbar-nav">
        <li class="active"><a href="Index.aspx"><span class="glyphicon glyphicon-
home"></span> HOME</a></li>
        <li><a href="Inspiration.aspx"><span class="glyphicon glyphicon-
picture"></span> INSPIRATION</a></li>
        <li class="dropdown">
        <a class="dropdown-toggle" data-toggle="dropdown" href="#"><span class="glyphicon
glyphicon-tint"></span> COLOURS
        <span class="caret"></span></a>
        <ul class="dropdown-menu">
          <li><a href="Colour Palette.aspx">COLOUR PALETTE</a></li>
        </ul>
      </li>
```

Inspiration Page

In this page, the user can get inspiration on how to paint home or which colors to choose from the image gallery.

Code:

```
<style>
    .w3-row-padding img {
        box-shadow: rgba(0, 0, 0, 0.83) 15px 20px 10px;
        margin-bottom: 12px}
</style>
<!-- Photo Grid -->
<div class="w3-row-padding w3-grayscale" style="margin-bottom:128px">
  <div class="w3-half">
    &nbsp&nbsp&nbsp&nbsp
    <img src="gal1.jpg" style="width:45%"/>&nbsp&nbsp&nbsp&nbsp<img src="gaL2.jpg"
style="width:50%"/><br />
    &nbsp&nbsp&nbsp&nbsp
    <img src="gal3.jpg" style="width:50%; height:30%"/>&nbsp&nbsp&nbsp&nbsp<img
src="gal4.jpg" style="width:45%"/><br />
    &nbsp&nbsp&nbsp&nbsp
    <img src="gal5.jpg" style="width:45%"/>&nbsp&nbsp&nbsp&nbsp<img src="gal6.jpg"
style="width:50%"/><br />
    &nbsp&nbsp&nbsp&nbsp
    <img src="gal7.jpg" style="width:50%"/>&nbsp&nbsp&nbsp&nbsp<img src="gal8.jpg"
style="width:45%"/><br />
  </div>
</div>
```

Color Palette Page:

In this page as you can see from the screenshot the user can view the color palette for red, green and blue shades. When the user clicks on red/blue/green tab all the shades for that color gets displayed in the tab-pane. When the user hovers the mouse on a specific shade, a tooltip appears in which the user can see the color name and code.

Code:

```
<link href="colorpalet.css" rel="stylesheet" type="text/css" />
    <div class="container">
        <div class="row">
            <div class="col-xs-12">
                <ul class="nav nav-tabs nav-justified">
                    <li>
                        <a href="#red"  data-toggle="tab" style="background-
color:red">Red</a>
                    </li>
                    <li>
                        <a href="#green" data-toggle="tab" style="background-
color:green">Green</a>
                    </li>
                    <li>
                        <a href="#blue" data-toggle="tab" style="background-
color:blue">Blue</a>
                    </li>
                </ul>
                <div class="tab-content">

                    <div id="red" class="tab-pane active">
         <div class="box2 r1">
        <span class="tooltiptext">ROOSE ASH- 2204</span>
            </div>
        <div class="box2 r2">
        <span class="tooltiptext">SWEET BLOSSOM- 2267</span>
            </div>
        <div class="box2 r3">
        <span class="tooltiptext">WILD ROSE- 2181</span>
            </div>
```

Interior Paints Page:
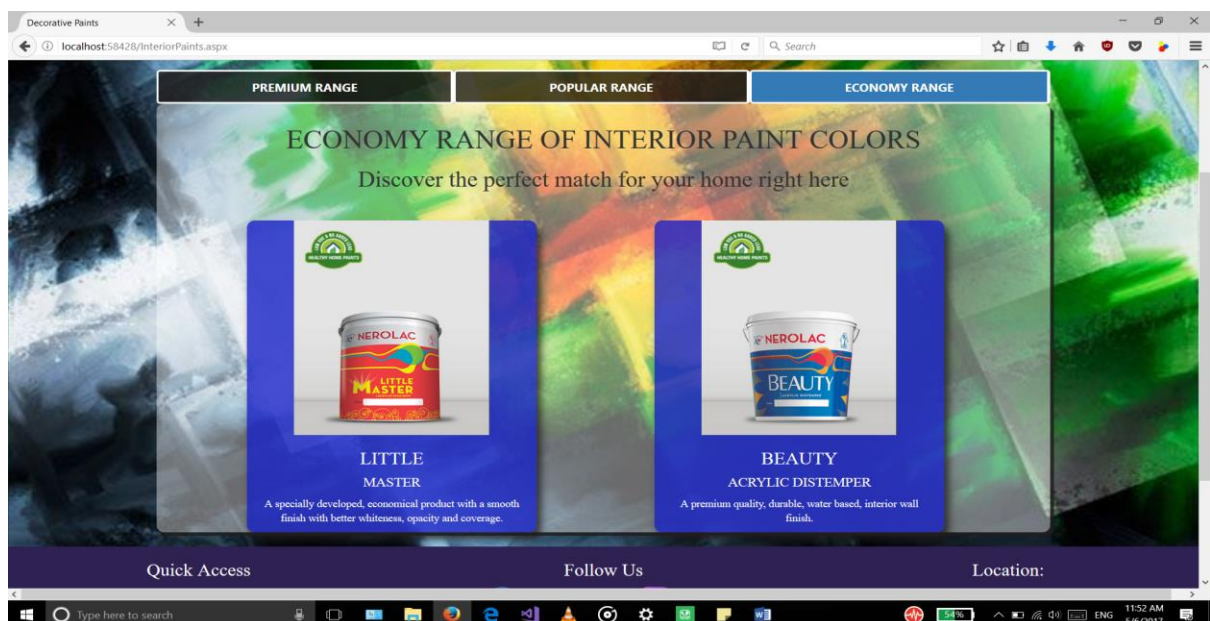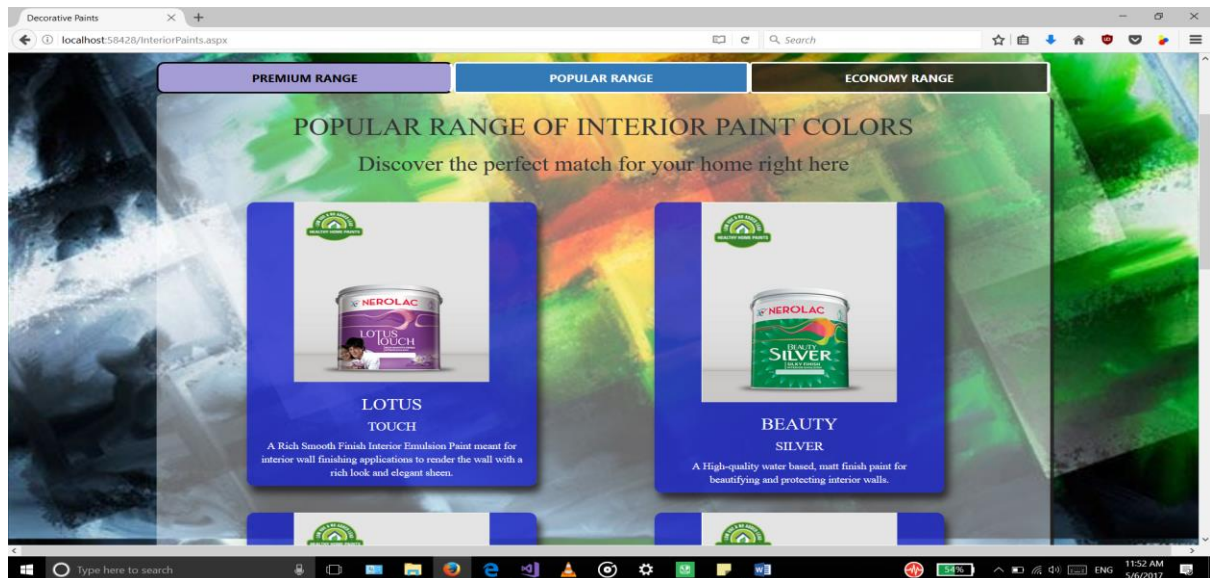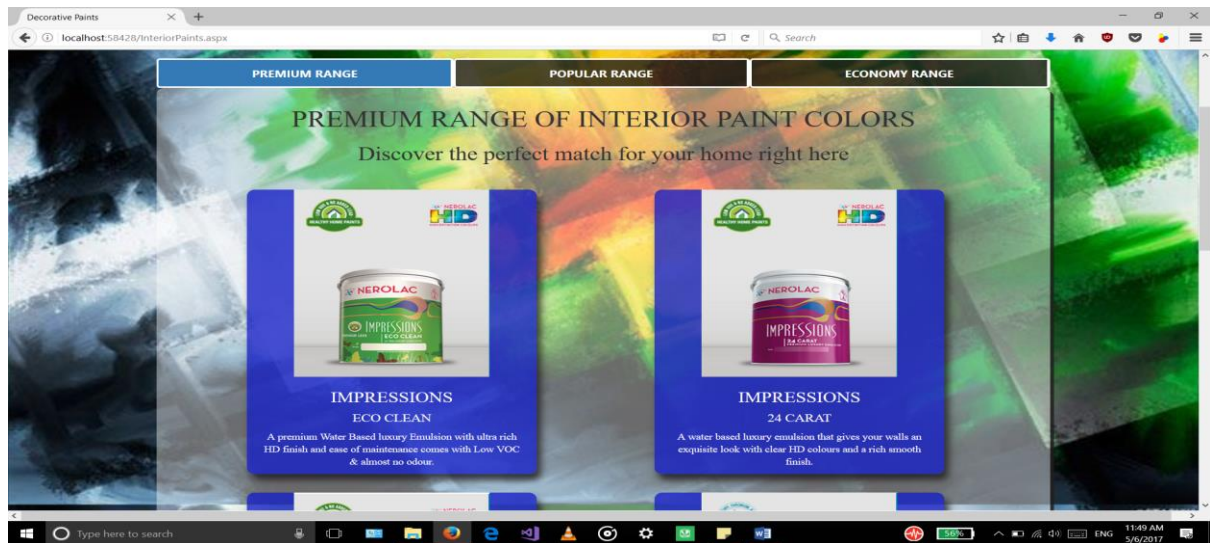
In this page, the user can browse through the interior paint products. There are three options in interior paints, which are premium, popular and economy range. As the user clicks on any one of the option the products in that range will be displayed in the below panel.

Code:

```
<div class="container">
        <div class="row">
            <div class="col-lg-12">
    <ul class="nav nav-pills nav-justified">
  <li class="active"><a data-toggle="pill" href="#premium">PREMIUM RANGE</a></li>
  <li><a data-toggle="pill" href="#popular">POPULAR RANGE</a></li>
  <li><a data-toggle="pill" href="#economy">ECONOMY RANGE</a></li>
</ul>

<div class="tab-content">
  <div id="premium" class="tab-pane fade in active">
      <div class="bg col-lg-12">
      <h1>PREMIUM RANGE OF INTERIOR PAINT COLORS</h1>
      <h2>Discover the perfect match for your home right here</h2>
    <div class="item1 col-md-4">
      <img src="IP/prem1.PNG" style="width:250px ;height:300px" />
        <h3 class="font">IMPRESSIONS</h3>
        <h4 class="font">ECO CLEAN</h4>
    <p class="font">A premium Water Based luxury Emulsion with ultra rich HD finish and ease of
maintenance comes with Low VOC & almost no odour.</p>
  </div>
      <div class="item2 col-md-4">
      <img src="IP/prem2.PNG" style="width:250px ;height:300px" />
        <h3 class="font">IMPRESSIONS</h3>
          <h4 class="font">24 CARAT</h4>
    <p class="font">A water based luxury emulsion that gives your walls an exquisite look with clear HD
colours and a rich smooth finish.</p>
  </div>
```

Exterior Paints Page:

This page is same as interior paints; the user can browse through the exterior paint products. There are three options in exterior paints, which are premium, popular and economy range. As the user clicks on any one of the option the products in that range will be displayed in the below panel.

Code:

```html
<div class="container">
        <div class="row">
            <div class="col-lg-12">
    <ul class="nav nav-pills nav-justified">
  <li class="active"><a data-toggle="pill" href="#premium">PREMIUM RANGE</a></li>
  <li><a data-toggle="pill" href="#popular">POPULAR RANGE</a></li>
  <li><a data-toggle="pill" href="#economy">ECONOMY RANGE</a></li>
</ul>

<div class="tab-content">
  <div id="premium" class="tab-pane fade in active">
      <div class="bg col-lg-12">
      <h1>PREMIUM RANGE OF EXTERIOR PAINT COLORS</h1>
      <h2>Discover the perfect match for your home right here</h2>
    <div class="item1 col-md-4">
      <img src="EP/prem1.PNG" style="width:250px ;height:300px" />
        <h3 class="font">EXCEL</h3>
        <h4 class="font">RAIN GUARD</h4>
    <p class="font">A heavy-duty, fiber- reinforced elastomeric liquid waterproof coating system for
Horizontal Surfaces.</p>
  </div>
      <div class="item2 col-md-4">
      <img src="EP/prem2.PNG" style="width:250px ;height:300px" />
        <h3 class="font">EXCEL</h3>
          <h4 class="font">RAIN GUARD</h4>
    <p class="font">A high Quality acrylic emulsion polymer used as a waterproofing and protective
coating for exterior vertical walls.</p>
  </div>
```

Color Picker Tool:
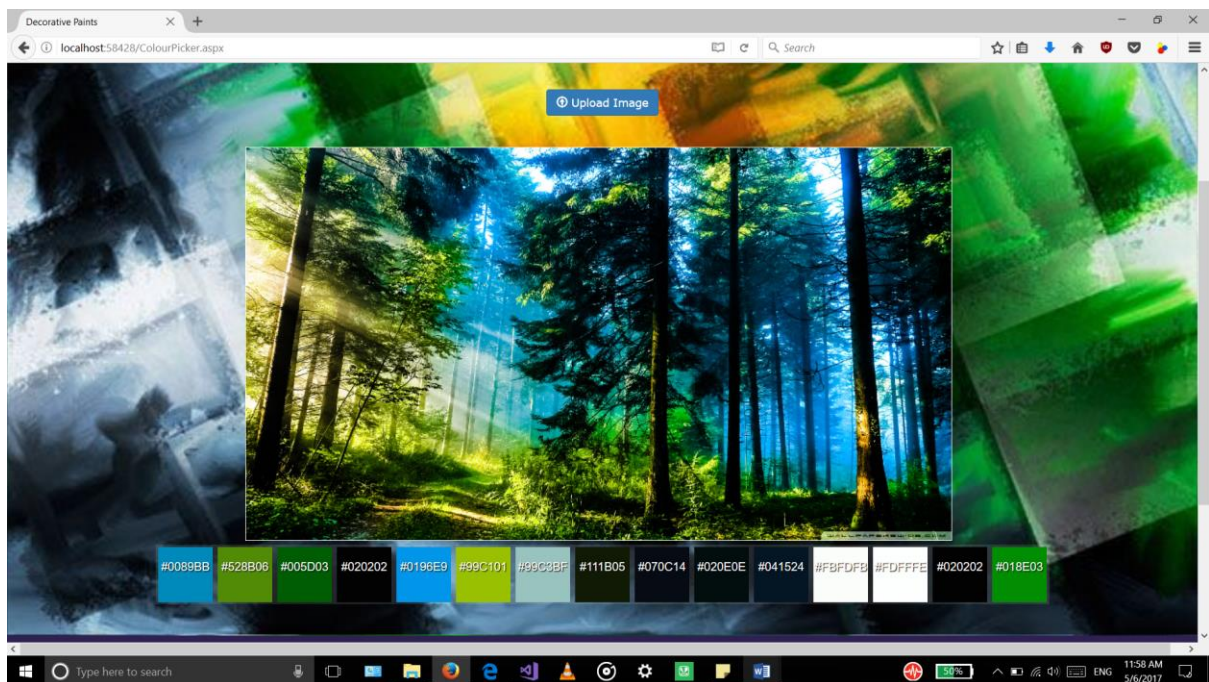
In this page, the user can upload an image from his computer and select a color from the image using the mouse. The selected color will appear below the image with the hexadecimal color code. This page is created using JavaScript and canvas.

The code is given on the next page->

Code:

```html
<canvas class="bg" width="900" height="500" id="canvas_picker"></canvas>
        <div id="picked"></div>
            </div>
        </div></div><br />
<script>
    var $picked = $("#picked"); // Just to preview picked colors
    var canvas = $('#canvas_picker')[0];
    var context = canvas.getContext('2d');

    $("#file_upload").change(function (e) {
        var F = this.files[0];
        var reader = new FileReader();
        reader.onload = imageIsLoaded;
        reader.readAsDataURL(F);
    });

    function imageIsLoaded(e) {
        var img = new Image();
        img.onload = function () {
            canvas.width = 900;     // If needed? adjust canvas size
            canvas.height = 500;    // respective to image size
            context.drawImage(img, 0, 0, img.width, img.height,      // source rectangle
                0, 0, canvas.width, canvas.height); // destination rectangle // Draw image at 0, 0, not
at 10, 10
        };
        img.src = e.target.result;
    }

    $('#canvas_picker').click(function (event) {
        var x = event.pageX - $(this).offset().left; // Fixed coordinates
        var y = event.pageY - $(this).offset().top; // respective to canvas offs.
        var img_data = context.getImageData(x, y, 1, 1).data;
        var R = img_data[0];
        var G = img_data[1];
        var B = img_data[2];
        var rgb = R + ',' + G + ',' + B;
        var hex = rgbToHex(R, G, B);
     // $('#rgb input').val(rgb);
        //$('#hex input').val('#' + hex);
        $picked.append("<span style='background:#" + hex + "'>#" + hex + "</span>");
    });

    function rgbToHex(R, G, B) {
        return toHex(R) + toHex(G) + toHex(B);
    }

    function toHex(n) {
        n = parseInt(n, 10);
        if (isNaN(n)) return "00";
        n = Math.max(0, Math.min(n, 255));
        return "0123456789ABCDEF".charAt((n - n % 16) / 16) + "0123456789ABCDEF".charAt(n % 16);
    }
    </script>
```

Paint Calculator Tool:

In this page, the user can enter the details of his room, choose the product and then after clicking the calculate button the total paintable sqft will be displayed with the total painting cost.
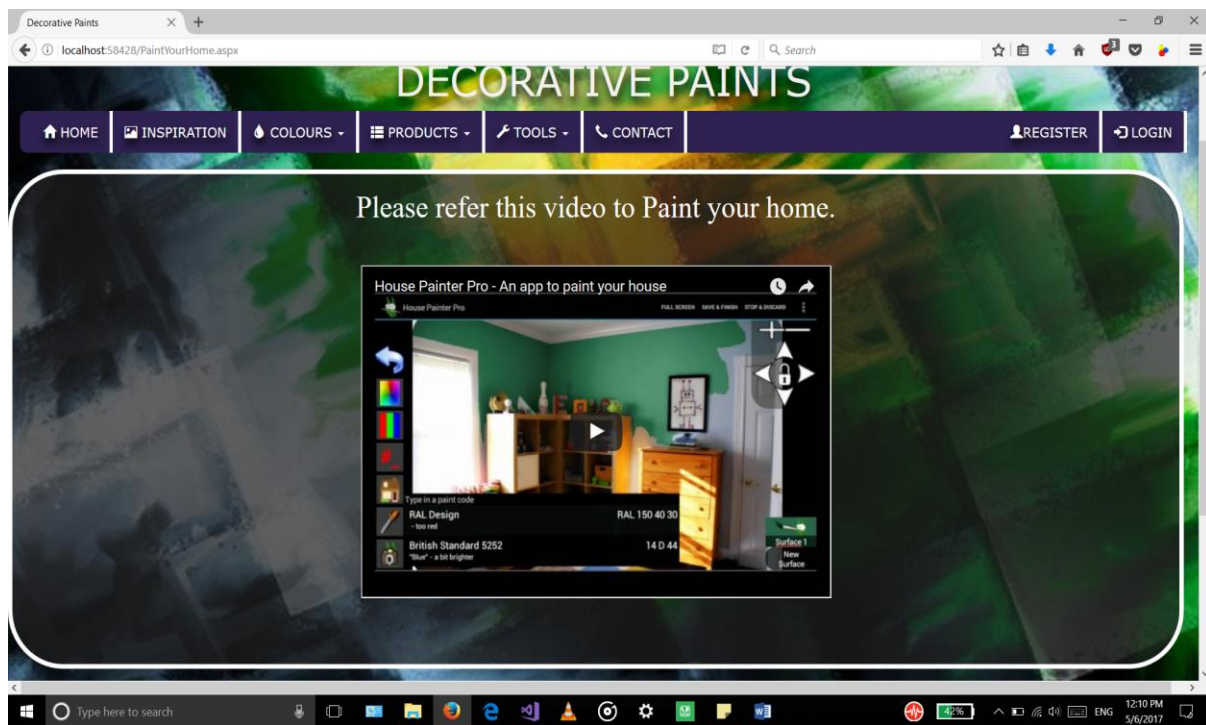
Code:

```csharp
protected void Button1_Click(object sender, EventArgs e)
    {
        int room;
        double len, bre, hei;
        room = Convert.ToInt16(TextBox2.Text);
        len = Convert.ToDouble(TextBox3.Text);
        bre = Convert.ToDouble(TextBox4.Text);
        hei = Convert.ToDouble(TextBox5.Text);
        Label10.Text = obj.pc(room, len, bre, hei)+ "sq.ft";
        Label11.Text = "TOTAL PAINTING COST: Rs10000";
    }


Web Services

public string pc(int ro, double l, double b, double h)
    {

        //double tot;
        //double ltr = 1.30;)
        double tot = (l * b * h * ro);
        return tot.ToString();
        //double paint = 0.0;
        //paint = ltr * tot;
        //return paint;
    }
```
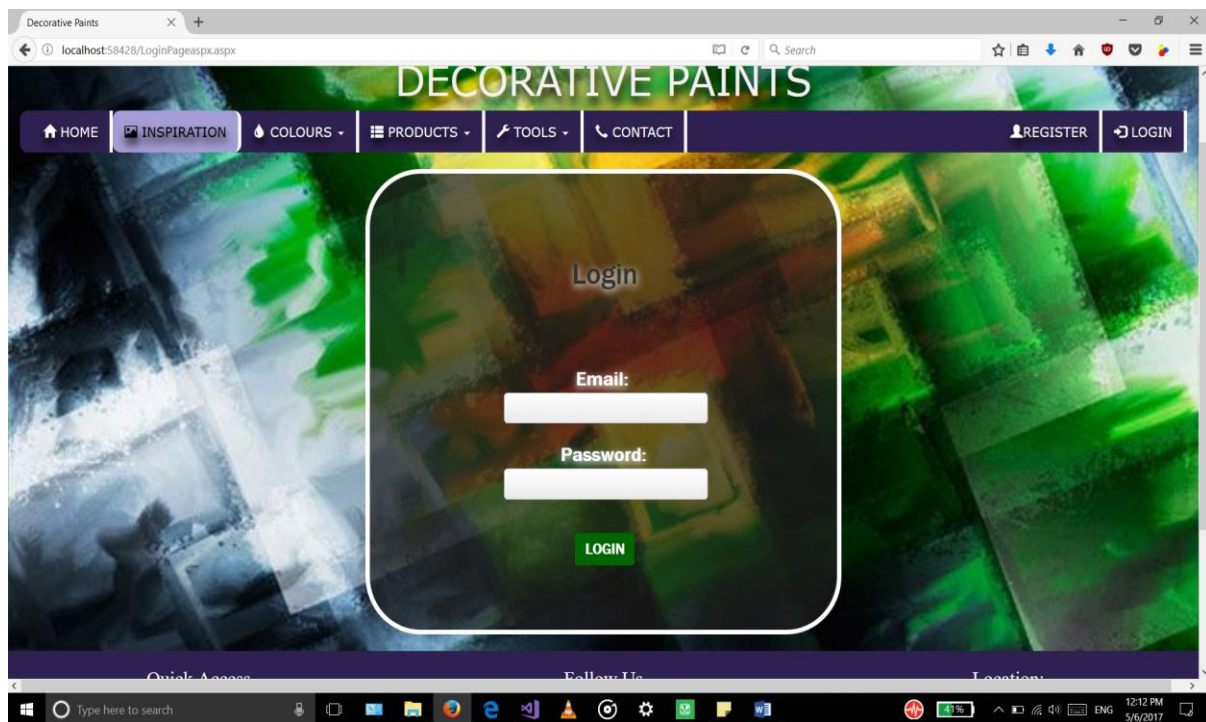
Paint Your Home Tool:

In this page, I have not added anything just an embedded video for the user so that he can refer to it and paint his home.

Login Page:

The user can login in this page.

Code:

```csharp
protected void Button1_Click(object sender, EventArgs e)
    {
        if (TextBox1.Text != "" && TextBox2.Text != "")
        {
            SqlConnection con = new SqlConnection("Data Source = (localdb)\\MSSQLLocalDB; Initial
Catalog = Project; Integrated Security = True");
            con.Open();
            SqlCommand cmd = new SqlCommand("select COUNT(*)FROM Register WHERE Email='" +
TextBox1.Text + "' and Password='" + TextBox2.Text + "'");
            cmd.Connection = con;
            int obj = Convert.ToInt32(cmd.ExecuteScalar());
            if (obj > 0)
            {
                //Session["Email"] = TextBox1.Text;
                Label4.Text = "Login Successfull";
                Response.Redirect("Index.aspx");
            }
            else
            {
                Label4.Text = "*Invalid Email or Password";
            }
        }
        else
        {
            Label4.Text = "*Fill All Fields";
        }

}
```

Register Page:

The user can register in this page.

Code:

```csharp
protected void Page_Load(object sender, EventArgs e)
    {
        Response.Cache.SetCacheability(HttpCacheability.NoCache);
        if (!this.IsPostBack)
        {
            Session["Reset"] = true;
            Configuration config = WebConfigurationManager.OpenWebConfiguration("~/Web.Config");
            SessionStateSection section =
(SessionStateSection)config.GetSection("system.web/sessionState");
            int timeout = (int)section.Timeout.TotalMinutes * 1000 * 1;
            ClientScript.RegisterStartupScript(this.GetType(), "SessionAlert", "SessionExpireAlert("
+ timeout + ");", true);
        }
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        string fn = TextBox1.Text;
        string ln = TextBox2.Text;
        string email = TextBox3.Text;
        string mob = TextBox4.Text;
        string pass = TextBox5.Text;
        string cpass = TextBox6.Text;
        string city = TextBox7.Text;
        string country = TextBox8.Text;
        string query = "INSERT INTO
Register(FirstName,LastName,Email,Mobile,Password,ConfirmPassword,City,Country) VALUES('" + fn +
"','" + ln + "','" + email + "','" + mob + "','" + pass + "','" + cpass + "','" + city + "','" +
country + "')";

        using (SqlConnection connection = new SqlConnection("Data
Source=(localdb)\\MSSQLLocalDB;Initial Catalog=Project;Integrated Security=True"))
        {
            using (SqlCommand command = new SqlCommand(query, connection))
            {
                connection.Open();
                command.ExecuteNonQuery();
            }
```

Future Expansion:

- Will create my own paint your home tool.
- Will add more information about the decorative paint products.

Conclusion:

- The overall project was very informative and helped me explore my abilities.
- I learned many features of ASP.Net.

Summary:

Coming to the end I would like to summarize the whole project as an opportunity to increase once intellect. It also makes one's concepts clearer about whatever has been used in the project.

References:

I took help from the books available in the library and also browsed the internet for information.

- ➢ www.google.com
- ➢ www.stackoverflow.com
- ➢ GitHub
- ➢ www.Visualbasic.about.com
- ➢ All About .net