Academic Project Work Report
(1st January – 15th February)

AGRICO APPROVAL SYSTEM

ANDROID AND WEB DEVELOPMENT

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ACADEMIC PROJECT REPORT

(1/01/2019 – 15/02/2019)

Submitted By

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B.Tech.

(Computer Science and Engineering)

Heritage Institute Of Technology

Kolkata

MENTORED BY: THANKS TO:
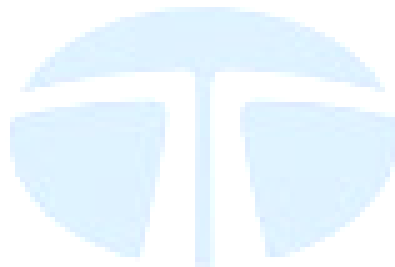
Ms. Ekta Kumari   Mr. Babban Kumar

Sr. Manager IT Application Support M&S

CERTIFICATE

This is to certify that <u>Sunny Kumar Sharma</u> student of HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA has successfully completed his project entitled "<u>AGRICO APPROVAL SYSTEM</u>" from 1st January 2019 TO 15th February 2019 at TATA STEEL Ltd., Kolkata .

It is hereby, declared that the project done by this candidate study carried out by sheer details and precision for the fulfillment of purpose. I wish him ALL THE BEST .

Ms. Ekta Kumari

Senior Manager

IT Application Support M&S.

TATA STEEL Ltd.

<u>ACKNOWLEDGEMENT</u>

The training opportunity I had with TATA STEEL, KOLKATA was a great chance for learning and professional development. Therefore, I consider myself a very lucky individual as I was provided with an opportunity to be a part of it. I am also grateful or having a chance to meet so many wonderful people and professionals who led me through this training period.

Bearing in mind previous I am using this opportunity to express my deepest gratitude and special thanks to my Mentor Ms. Ekta Kumari Sr. Manager IT Application Support M&S. Ma'am who in spite of being extraordinarily busy with her duties, took time out to hear, guide and keep me on the correct path and allowing me to carry out my project at their esteemed organization and extending during the training.

It is my radiant sentiment to place on record my best regards, deepest sense of gratitude to Mr. Babban Kumar sir for his careful and precious guidance which were extremely valuable for my project. Thanks a lot, sir once again for the important learning you gave me.

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.

<u>I am looking forward to working with you in the future !!</u>

<u>DECLARATION</u>

I, Sunny Kumar Sharma, the student of B.Tech (CSE), 3rd year of Heritage Institute of Technology, Kolkata, completed my Academic project from TATA STEEL Ltd. From January 1st, 2019 to February 15, 2019. During the mentioned period I worked as Web Developer and Android Developer under the guidance of Ms. Ekta Kumari Sr. Manager IT Application Support M&S. and Mr. Babban Kumar.

<u>CONTENTS</u>

<u>INTRODUCTION</u>

Web development
 is a broad term for the work involved in developing a web
site forthe Internet (World Wide Web) or an intranet (a private network). Web development can range from developing the simplest static single page of   plain text to the most complex web- based internet applications, electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/server-side scripting, web server and network security configuration, and e-commerce development . For larger organizations and businesses, web development teams can consist of hundreds of people(web developers) and follow standard methods like Agile methodologies while developing websites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as a graphicdesigner and/or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department. There is open source software for web development like Visual Studio(vs ,aspx, c#) , Oracle Database , BerkeleyDB , GlassFish, LAMP (Linux, Apache, MySQL, PHP) stack and Perl/Plack . This has kept the cost of learning web development to a minimum. Another contributing factor to the growth of the industry has been the rise of easy-to-use WYSIWYG web-development software, such as AdobeDreamweaver , BlueGriffon and Microsoft Visual Studio. Knowledge of HyperText MarkupLanguage (HTML) or of programming languages is still required to use such software, but the basics can be learned and implemented quickly with the help of help files, technical books, internet tutorials, or face-to-face training.

Android Application Development

is the process by which new applications are created for devices running the Android operating system. Google states that "Android apps can be written using Kotlin, Java, and C++ languages" using the Android software development kit(SDK), while using other languages is also possible. All non-JVM languages, such as Go, JavaScript, C, C++ or assembly, need the help of JVM language code, that may be supplied by tools, likely with restricted API support. Some languages/programming tools allow cross-platform app support, i.e. for both Android and iOS. Third party tools, development environments and language support have also continued to evolve and expand since the initial SDK was released in 2008. In addition, with major business entities like Walmart, Amazon, Bank of America etc. eyeing to engage and sell through mobiles, mobile application development is witnessing a transformation.

DESCRIPTION OF THE ORGANIZATION

Tata Agrico, the oldest brand of Tata Steel, is a pioneer in superior quality agricultural implements. Since 1925, it has been the leading manufacturer of handheld implements like hoes, Showels, sickles, crowbars, pickaxes and hammers.

These implements cater to the needs of agriculture, infrastructure as well as mining sectors. This traditional product range has now become even richer with the addition of garden tools like secateurs, cultivators, trowels, bill hooks, cane choppers, hedge shears and garden rake.

All Tata Agrico implements are guaranteed against manufacturing defects and are distributed all over the country through a network of consignment agents and distributors. The skill and knowledge acquired over half a century, modern methods of manufacture and strict supervision at every stage of manufacturing, guarantee consistently high quality and durability to Agrico products.

The high quality of Tata Agrico implements makes them the first choice of farmers, carpenters, mechanics, plumbers, government agricultural departments, the Indian Railways, defence services, collieries and Central and State Government departments.

Tata Agrico is committed to operating in a responsible way with respect to the health, safety and wellbeing of its employees, channel partners and the communities in which it operates. It is also committed to the sustainable management of the environment and of finite resources.

 The division lays extreme stress on quality processes and is ISO 9001:2008 certified. Tata Agrico launched its very own range of general purpose hand tools and files in 2009. The product basket consists of pliers, spanners, wrenches, screwdrivers, hammers, saw and engineering files.

The aesthetics and packaging is in a league of its own, making it the favourite of carpenters, blacksmiths, mechanics, plumbers and electricians all across the country. Keeping up with the technological development and the changing face of

farming in India, Tata Agrico marked its entry into mechanised agricultural sector with mechanised- consumables like tiller shoe, harrow disc and the Rotavator blade. Tata Agrico entered the mechanized non-consumables sector with the Grasshopper sub brand.

The first product under Grasshopper is the Tata Agrico Grasshopper Rotary Tiller which within a year of its launch has gained appreciation by farmers and government alike. This was followed by introduction of Seed Drills and Cultivators in FY13. In FY'14 power weeders and power tillers are addition to the Grasshopper offerings which are aimed to equip the Indian farmers with advantages of the latest agriculture technology at affordable rates. In FY'15 Tata Agrico also launched MB Plough and Threshers which marks the entry of the division into the threshing and harvesting product segment. Mini paddy thresher is most recent addition to the Grasshopper offering.

TECHNOLOGY

For the development of Website Application and Android application , .Net and Android consist of following component as I have mentioned in a Sequentially order :-

For Website Development

- C# Language (Base Coding Language)
- Knowledge of Relational Database model
- Oracle Server
- Extensible Markup Language(XML->for to have uniform communication Method)
- Asp.Net(For to design a well maintained website)
- Wef (For to create distributed web application)
- WPF (For to create a desktop application)
- Java Script
- Bootstrap Css

For Mobile Application

- Android Studio
- Java SDK
- Java language

DESCRIPTION OF ASSIGNMENTS CARRIED OUT

This project addresses the study of the emerging sector of Web and Android development , and its core features that are used by most of the websites/Apps running today. The main goal is to develop an accessible and user friendly platform for Tata Agrico Employee and their Sales and coms department. This portal is used as an Approval system where the employee or (requestor) request the proposal in different categories and further it can be verified by different departments like sales and coms. And the requestor may track their proposal status.

There is a special feature in this portal i.e., same level employee(manager/sr. manager) can track only those request which are generated by himself/herself but Chief/Head may track all the request and their status requested by different employee.

In case a request is generated by a Manager/Sr. Manager level employee then the request 1st goes to sales admin department and after their recommendation and comments, that request goes to coms department for approval. But the request is generated by Chief/Head level employee then it directly goes to coms department.

Key Benefits :-

- A single platform to connect many employee to different departments
- Can be accessible from office as well as home (anywhere)
- Easy login, Requesting , Tracking can be done from a single website
- Sales and Coms department person can verify/reject very smoothly from any place in one click

DESCRIPTION OF WORK CARRIED OUT IN

WEB DEVELOPMENT

Text editor software Installation

- Details about the software requirement
- Download and installation process
- Download and installation of Microsoft Visual Studio
- Download and installation of Bootstrap
- Creating Database connection

HTML AND ASPX LAYOUT

- Div containers
- Form fields
- Table
- Models
- Button
- Grid View
- Spinner

CSS Designing

- Navigation bar
- Footer
- Body
- Body content
- Carousel-caption p
- Carousel-inner .item img [src$=".svg"]
- Qrcode
- Media screen
- Date
- Table

C# Used

- Connecting database
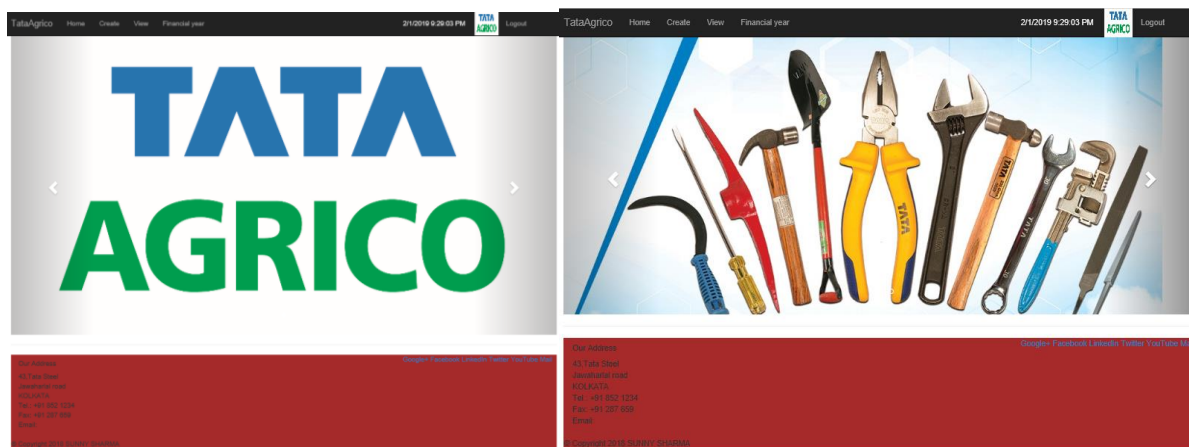- Passing and retrieving values from database
- Server side validations

- Displaying profile details

OTHER COMPONENTS Used

- Bootstrap
- Iframe

HOME PAGE WEBVIEW

Home.aspx Snippet

```
<%@ Page Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Home.aspx.cs" Inherits="Tatagrico.Home" %>

<asp:Content ID="content1" ContentPlaceHolderID="MainContent" runat="server">
    <div id="myCarousel" class="carousel slide" data-ride="carousel" data-interval="6000">
    <ol class="carousel-indicators">
        <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
        <li data-target="#myCarousel" data-slide-to="1"></li>
        <li data-target="#myCarousel" data-slide-to="2"></li>
    </ol>
    <div class="carousel-inner" role="listbox">
        <div class="item active">
            <img src="Images/Agrico Product CLuster.jpg" alt="ASP.NET" class="img-responsive"
/>
        </div>
        <div class="item">
            <img src="Images/logo1.jpg" alt="Visual Studio" class="img-responsive" />
        </div>
    </div>
    <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev">
        <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
        <span class="sr-only">Previous</span>
    </a>
    <a class="right carousel-control" href="#myCarousel" role="button" data-slide="next">
        <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
        <span class="sr-only">Next</span>
    </a>
</div>
</asp:Content>
```

REQUEST PAGE WEB VIEW

REQUEST.ASPX CODE

```
<%@ Page Title="About" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="About.aspx.cs" Inherits="Tatagrico.About" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
  <h1>Create Request</h1>
<table border="5" class="table" >
                            <tr>
                            <th>REF_NO:</th>
                            <th><asp:TextBox ID="re" runat="server" /></th>
                            </tr>
                            <tr>
                            <th>Name:</th>
                            <th><asp:TextBox ID="Name1" runat="server" /></th>
                            </tr>
                            <tr>
                            <th>Category:</th>
                            <th><asp:DropDownList ID="Category1" runat="server">
                                <asp:ListItem>Category</asp:ListItem>
                                 <asp:ListItem>Discount</asp:ListItem>
                                 <asp:ListItem>Misc</asp:ListItem>
                                 <asp:ListItem>Custom</asp:ListItem>
                                </asp:DropDownList>
                            </th>
                            </tr>
                            <tr>
                                <th>Attachment:</th>
                                <th><asp:FileUpload ID="attachment" runat="server" />

                                </th>
                            </tr>
                            <tr>
                                <th>Comments:</th>
                                <th><asp:TextBox ID="Comment1" runat="server"></asp:TextBox></th>
                            </tr>
                                </table>
                            <asp:Button  ID ="Button1" runat="server" Text="Button"
OnClick="Button1_Click1"/>
<h1> <asp:Label ID="Label1" runat="server"></asp:Label></h1>

</asp:Content>
```

REGISTER C# CODE

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.OracleClient;
using System.Configuration;
using System.IO;

namespace Tatagrico
{
    public partial class About : Page
    {
        String tns= "Data
Source=(DESCRIPTION="+"(ADDRESS=(PROTOCOL=TCP)(HOST=176.0.7.18)(PORT=1521))"+
"(CONNECT_DATA="+"(SERVER=dedicated)"+"(SERVICE_NAME=epatest)));"+"User
ID=manoj;Password=manoj";
        private OracleConnection Con;
        byte[] bytes;


        protected void Page_Load(object sender, EventArgs e)
        {
            Con = new OracleConnection(tns);
            Con.Open();
            Response.Write("Connected to Oracle " + Con.ServerVersion);
            Con.Close();
            Con.Dispose();

            Response.Write(" Disconnected");
        }
        protected void Button1_Click1(object sender, EventArgs e)
        {
            try
            {
                string sql = "Insert into
T_AGRICO_APP(REF_NO,NAME,CATEGORY,DT,STATUS,COMMENTS,ATTACHMENT,FILENAME,ContentType,SALECOMME
NT,COMSCOMMENT)";
                sql = sql +
"VALUES(:REF_NO,:NAME,:CATEGORY,:DT,:STATUS,:COMMENTS,:ATTACHMENT,:FILENAME,:ContentType,:SALE
COMMENT,:COMSCOMMENT)";
                Con = new OracleConnection(tns);
                OracleCommand cmd = new OracleCommand();
                cmd.CommandText = sql;
                cmd.Connection = Con;
                string filename = Path.GetFileName(attachment.PostedFile.FileName);
                string contentType = attachment.PostedFile.ContentType;
                using (Stream fs = attachment.PostedFile.InputStream)
                {
                    using (BinaryReader br = new BinaryReader(fs))
                    {
                        bytes = br.ReadBytes((Int32)fs.Length);
                        cmd.Parameters.AddWithValue(":ATTACHMENT", bytes);
                        cmd.Parameters.AddWithValue(":FILENAME", filename);
                        cmd.Parameters.AddWithValue(":ContentType", contentType);

                    }
```

```
}
            cmd.Parameters.AddWithValue(":REF_NO", re.Text.Trim());
            cmd.Parameters.AddWithValue(":NAME", Name1.Text.Trim());
            cmd.Parameters.AddWithValue(":DT", System.DateTime.Now);
            cmd.Parameters.AddWithValue(":STATUS", "Pending");
            cmd.Parameters.AddWithValue(":COMMENTS", Comment1.Text.Trim());
          cmd.Parameters.AddWithValue(":SALECOMMENT", "");
            cmd.Parameters.AddWithValue(":COMSCOMMENT", "");
            Con.Open();
            int k = cmd.ExecuteNonQuery();
            if (k != 0)
            {

                re.Text = "";
                Name1.Text = "";
                Comment1.Text = "";

            }
            Con.Close();
            Con.Dispose();
            Response.Redirect(Request.Url.AbsoluteUri);
        }
        catch(Exception ex)
        {
            throw ex;
        }
        finally
        {

        }
    } }}
```

VIEW C# CODE

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.OracleClient;
using System.Configuration;
using System.IO;
namespace Tatagrico
{
    public partial class View : System.Web.UI.Page
    {
        OracleConnection oracleConnection;
        String tns = "Data Source=(DESCRIPTION=" +
"(ADDRESS=(PROTOCOL=TCP)(HOST=176.0.7.18)(PORT=1521))" + "(CONNECT_DATA=" +
"(SERVER=dedicated)" + "(SERVICE_NAME=epatest)));" + "User ID=manoj;Password=manoj";
        protected void Page_Load(object sender, EventArgs e)
        {
            oracleConnection = new OracleConnection(tns);
            OracleCommand cmd = new OracleCommand();
            cmd.CommandText = "select * from T_AGRICO_APP";
            cmd.Connection = oracleConnection;
            oracleConnection.Open();
            OracleDataReader dr = cmd.ExecuteReader();
            if (dr.HasRows)
            {
                Response.Write("<table border='1' class='table'>");

Response.Write("<tr><th>REF_NO</th><th>NAME</th><th>CATEGORY</th><th>DT</th><th>STATUS</th><th>COMMENTS</th><th>ATTACHMENT</th></tr>");
                while (dr.Read())
                {
                    Response.Write("<tr>");
                    Response.Write("<td>" + dr["REF_NO"].ToString() + "</td>");
                    Response.Write("<td>" + dr["NAME"].ToString() + "</td>");
                    Response.Write("<td>" + dr["CATEGORY"].ToString() + "</td>");
                    Response.Write("<td>" + dr["DT"].ToString() + "</td>");
                    Response.Write("<td>" + dr["STATUS"].ToString() + "</td>");
                    Response.Write("<td>" + dr["COMMENTS"].ToString() + "</td>");
                    Response.Write("<td>" + dr["ATTACHMENT"].ToString() + "</td>");

                    Response.Write("</tr>");
                }
                Response.Write("</table>");
            }
            else
            {
                Response.Write("No Data In DataBase");
            }
            oracleConnection.Close();
        }
    }
}
```

COMS C# CODE

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.OracleClient;
using System.Configuration;
using System.IO;
namespace Tatagrico
{
    public partial class coms : System.Web.UI.Page
    {
        OracleConnection oracleConnection;
        OracleDataReader dr;
        OracleCommand cmd;
        string y;
        string tns = "Data Source=(DESCRIPTION=" +
"(ADDRESS=(PROTOCOL=TCP)(HOST=176.0.7.18)(PORT=1521))" + "(CONNECT_DATA=" +
"(SERVER=dedicated)" + "(SERVICE_NAME=epatest)));" + "User ID=manoj;Password=manoj";
        protected void Page_Load(object sender, EventArgs e)
        {
            oracleConnection = new OracleConnection(tns);
             cmd = new OracleCommand();
            cmd.CommandText = "select * from T_AGRICO_APP where STATUS='Recommended'";
            cmd.Connection = oracleConnection;
            oracleConnection.Open();
            dr = cmd.ExecuteReader();
            if (dr.HasRows)
            {

                Rows();
            }
            else
            {
                Response.Write("No Data In DataBase");
            }
            oracleConnection.Close();
        }
    public void Rows()
    {
        if(dr.Read())
        {
            y = dr["REF_NO"].ToString();
            Response.Write("<table border='1'>");
            Response.Write("<tr><th>REF_NO</th><td>" + y + " </td> </tr>");
            Response.Write("<tr><th>NAME</th><td>" + dr["NAME"].ToString() + " </td>
</tr>");
            Response.Write("<tr><th>CATEGORY</th><td>" + dr["CATEGORY"].ToString() + "
</td> </tr>");
            Response.Write("<tr><th>DT</th><td>" + dr["DT"].ToString() + " </td> </tr>");
            Response.Write("<tr><th>STATUS</th><td>" + dr["STATUS"].ToString() + " </td>
</tr>");
            Response.Write("<tr><th>COMMENTS</th><td>" + dr["COMMENTS"].ToString() + "
</td> </tr>");
            Response.Write("<tr><th>ATTACHMENT</th><td>" + dr["ATTACHMENT"].ToString() + "
</td> </tr>");
            Response.Write("<tr><th> <asp:TextBox ID='coms_comment' runat='server' />");
```

```
            coms_comment.Enabled = true;
                Response.Write("<tr><th><input type='button' id='Button2' value='Accept'
onclick='Button2.Click'></th>" +
                    "<th><input type='button' id='Button3' value='Reject'
onclick='Button3.Click'></th></tr>");
                Response.Write("</table>");
            }
        }
        protected void Button2_Click(object sender, EventArgs e)
        {
            OracleCommand cm = new OracleCommand();
            cm.CommandText = "update T_AGRICO_APP set STATUS='Accepted' where REF_NO='"+y+"'";
            cm.Connection = oracleConnection;
            cm.ExecuteNonQuery();
            cm.CommandText = "update T_AGRICO_APP set COMSCOMMENT='" + coms_comment.Text + "'
where REF_NO='" + y + "'";
            cm.ExecuteNonQuery();
            Rows();
        }
        protected void Button3_Click(object sender, EventArgs e)
        {
            OracleCommand cm = new OracleCommand();
            cm.CommandText = "update T_AGRICO_APP set STATUS='Rejected' where REF_NO='" + y +
"'";
            cm.Connection = oracleConnection;
            cm.ExecuteNonQuery();
            cm.CommandText = "update T_AGRICO_APP set COMSCOMMENT='" + coms_comment.Text + "'
where REF_NO='" + y + "'";
            cm.ExecuteNonQuery();
            Rows();
        }
    }
}
```

SALES C# CODE

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.OracleClient;
using System.Configuration;
using System.IO;
namespace Tatagrico
{
    public partial class Sales : System.Web.UI.Page
    {
        OracleConnection oracleConnection;
        OracleCommand cmd;
        OracleDataReader dr;
        string y;
        private const string tns = "Data
Source=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=176.0.7.18)(PORT=1521))(CONNECT_DATA=(SERVER=
dedicated)(SERVICE_NAME=epatest)));User ID=manoj;Password=manoj;Max Pool Size=1024";
        protected void Page_Load(object sender, EventArgs e)
        {
            oracleConnection = new OracleConnection(tns);
            cmd = new OracleCommand();
            cmd.CommandText = "select * from T_AGRICO_APP where STATUS='Pending'";
            cmd.Connection = oracleConnection;
            oracleConnection.Open();
            dr = cmd.ExecuteReader();
            if (dr.HasRows)
            {
                Rows1();
            }
            else
            {
                Response.Write("No Data In DataBase");
            }
            oracleConnection.Close();
        }
        public void Rows1()
        {
            if (dr.Read())
            {
                y = dr["REF_NO"].ToString();
                Response.Write("<table border='1'>");
                Response.Write("<tr><th>REF_NO</th><td>" + y + " </td> </tr>");
                Response.Write("<tr><th>NAME</th><td>" + dr["NAME"].ToString() + " </td>
</tr>");
                Response.Write("<tr><th>CATEGORY</th><td>" + dr["CATEGORY"].ToString() + "
</td> </tr>");
                Response.Write("<tr><th>DT</th><td>" + dr["DT"].ToString() + " </td> </tr>");
                Response.Write("<tr><th>STATUS</th><td>" + dr["STATUS"].ToString() + " </td>
</tr>");
                Response.Write("<tr><th>COMMENTS</th><td>" + dr["COMMENTS"].ToString() + "
</td> </tr>");
                Response.Write("<tr><th>ATTACHMENT</th><td>" + dr["ATTACHMENT"].ToString() + "
</td> </tr>");
                Sales_comment.Enabled = true;
```

```csharp
                Response.Write("<tr><th><input type='button' id='Button4' value='Reject'
onclick='Button4.Click'></th>" +
                    "<th><input type='button' id='Button5' value='Recommend'
onclick='Button5.Click'></th></tr>");
                Response.Write("</table>");
            }
        }
        protected void Button4_Click(object sender, EventArgs e)
        {
            OracleCommand cm = new OracleCommand();
            cm.CommandText = "update T_AGRICO_APP set STATUS='Recommended' where REF_NO='" + y
+ "'";
            cm.Connection = oracleConnection;
            cm.ExecuteNonQuery();
            cm.CommandText = "update T_AGRICO_APP set COMSCOMMENT='" + Sales_comment.Text + "'
where REF_NO='" + y + "'";
            cm.ExecuteNonQuery();
            Rows1();
        }
        protected void Button5_Click(object sender, EventArgs e)
        {
            OracleCommand cm = new OracleCommand();
            cm.CommandText = "update T_AGRICO_APP set STATUS='Rejected' where REF_NO='" + y +
"'";
            cm.Connection = oracleConnection;
            cm.ExecuteNonQuery();
            cm.CommandText = "update T_AGRICO_APP set COMSCOMMENT='" + Sales_comment.Text + "'
where REF_NO='" + y + "'";
            cm.ExecuteNonQuery();
            Rows1();
        }
    }
}
```

SITE MASTER.ASPX

```aspx
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site.master.cs"
Inherits="Tatagrico.SiteMaster" %>
<!DOCTYPE html>
<html lang="en">
<head runat="server">
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title><%: Page.Title %> - TATA AGRICO APPROVAL SYSTEM</title>
  <asp:PlaceHolder runat="server">
        <%: Scripts.Render("~/bundles/modernizr") %>
    </asp:PlaceHolder>
<webopt:bundlereference runat="server" path="~/Content/css" />
    <link href="~/favicon.ico" rel="shortcut icon" type="image/x-icon" />
</head>
<body>
    <form runat="server">
        <asp:ScriptManager runat="server">
            <Scripts>
                <asp:ScriptReference Name="MsAjaxBundle" />
                <asp:ScriptReference Name="jquery" />
                <asp:ScriptReference Name="bootstrap" />
                <asp:ScriptReference Name="WebForms.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebForms.js" />
                <asp:ScriptReference Name="WebUIValidation.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebUIValidation.js" />
                <asp:ScriptReference Name="MenuStandards.js" Assembly="System.Web"
Path="~/Scripts/WebForms/MenuStandards.js" />
                <asp:ScriptReference Name="GridView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/GridView.js" />
                <asp:ScriptReference Name="DetailsView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/DetailsView.js" />
                <asp:ScriptReference Name="TreeView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/TreeView.js" />
                <asp:ScriptReference Name="WebParts.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebParts.js" />
                <asp:ScriptReference Name="Focus.js" Assembly="System.Web"
Path="~/Scripts/WebForms/Focus.js" />
                <asp:ScriptReference Name="WebFormsBundle" />            </Scripts>
        </asp:ScriptManager>
<div class="navbar navbar-inverse navbar-fixed-top">
            <div class="container">
                <div class="navbar-header">
                    <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" runat="server" href="~/Home">TataAgrico</a>
                </div>
                <div class="navbar-collapse collapse">
                    <ul class="nav navbar-nav">
                        <li id="Home"><a  runat="server" href="~/Home">Home</a></li>
                        <li id="Create"><a runat="server" href="~/About">Create</a></li>
                        <li id="View"><a runat="server" href="View.aspx">View</a></li>
                        <li id="Financial"><a runat="server" href="~/Contact">Financial
year</a></li>
                        <li class="date"><%: DateTime.Now %></li>
```

```html
                <li><img src="Images/logo1.jpg"width="50px" height="50px" /></li>
                        <li id="Logout"><a runat="server" href="Default.aspx">Logout</a></li>
                    </ul>
                </div>
            </div>
        </div>
        <div class="container body-content">
            <asp:ContentPlaceHolder ID="MainContent" runat="server">
            </asp:ContentPlaceHolder>
            <hr />
            <footer class="footer">
                        <div class="container">
                            <div class="row">
                                <div class="col-12 col-sm-8">
                                    <h5>Our Address</h5>
                                    <address>
                                    43,Tata Steel<br>
                                    Jawaharlal road <br>
                                    KOLKATA<br>
                                    Tel.: +91 852 1234<br>
                                    Fax: +91 287 659<br>
                                    Email: <a href="mailto:"></a>
                                    </address>
                                 </div>
                                <div class="col-12 col-sm align-self-center">
                                    <div class="text-center" >
                                        <a href="http://google.com/+">Google+</a>
                                        <a
href="http://www.facebook.com/profile.php?id=">Facebook</a>
                                        <a href="http://www.linkedin.com/in/">LinkedIn</a>
                                        <a href="http://twitter.com/">Twitter</a>
                                        <a href="http://youtube.com/">YouTube</a>
                                        <a href="mailto:">Mail</a>
                                    </div>
                                </div>
                            </div>
                            <div class="row justify-content-center">
                                <div class="col-auto align-self-center">
                                    <p>© Copyright 2018 SUNNY SHARMA</p>
                                </div>
                            </div>
                        </div>
            </footer>
        </div>
    </form>
</body>
</html>
```

DESCRIPTION OF WORK CARRIED OUT IN

ANDROID APP DEVELOPMENT

XML LAYOUT

- Text View
- Button
- Splash Screen
- Radio Button
- Edit Text
- Spinner

JAVA USED

- Connecting database
- Passing and retrieving values from database
- Server side validations
- Displaying profile details

SPLASH VIEW

SPLASH SCREEN XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.Splash">

    <TextView
        android:id="@+id/tv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="@drawable/icon"
        android:textColor="#04f976"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
```
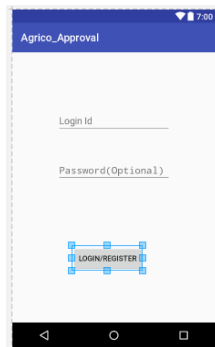
SPLASH SCREEN .JAVA

```java
package com.example.www.agrico_approval;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;

public class Splash extends AppCompatActivity {
TextView tv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_splash);
        tv=(TextView)findViewById(R.id.tv);
        tv.postDelayed(new Runnable() {
            @Override
            public void run() {
                Intent i=new Intent(Splash.this,Login.class);
                startActivity(i);
            }},3000);}}
```

LOGIN VIEW

LOGIN XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.Login">

    <EditText
        android:id="@+id/email"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="109dp"
        android:ems="10"
        android:hint="Login Id"
        android:inputType="textEmailAddress"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true" />

    <EditText
        android:id="@+id/pass"
        android:hint="Password(Optional)"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignEnd="@+id/email"
        android:layout_below="@+id/email"
        android:layout_marginTop="51dp"
        android:ems="10"
        android:inputType="textPassword" />

    <Button
        android:id="@+id/sign"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignEnd="@+id/pass"
        android:layout_alignParentBottom="true"
        android:layout_marginBottom="97dp"
        android:layout_marginEnd="52dp"
        android:text="Login/Register" />
</RelativeLayout>
```

LOGIN .JAVA

```java
package com.example.www.agrico_approval;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class Login extends AppCompatActivity {

    EditText email,pass;
    Button sign;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        email=(EditText)findViewById(R.id.email);
        pass=(EditText)findViewById(R.id.pass);
        sign=(Button)findViewById(R.id.sign);
        sign.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(Login.this,Welcome.class);
                startActivity(i);
            }
        });
    }
}
```

REQUESTOR VIEW

Agrico_Approval

Sunny Kumar Sharma

Category ▾

file path

ATTACHMENT

Comment

REQUEST

REQUESTOR . XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.Register">

    <TextView
        android:id="@+id/tv1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Name"
        android:textSize="20sp"
        android:layout_alignParentTop="true"
        android:layout_alignParentStart="true"
        android:layout_marginTop="21dp" />

    <Spinner
        android:id="@+id/sp1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="57dp"
        android:layout_below="@+id/tv1"
        android:layout_alignParentStart="true" />

    <TextView
        android:id="@+id/tv2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="59dp"
        android:hint="file path"
        android:textSize="15sp"
        android:layout_below="@+id/sp1"
        android:layout_alignParentStart="true" />

    <Button
        android:id="@+id/bt1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Attachment"
```

```xml
            android:layout_below="@+id/tv2"
            android:layout_alignParentEnd="true"
            android:layout_marginTop="12dp" />

    <EditText
            android:id="@+id/et1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="25dp"
            android:ems="10"
            android:inputType="textPersonName"
            android:hint="Comment"
            android:layout_below="@+id/bt1"
            android:layout_alignParentStart="true" />

    <Button
            android:id="@+id/bt2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentBottom="true"
            android:layout_centerHorizontal="true"
            android:text="Request"
            />

</RelativeLayout>
```

REQUESTOR .JAVA

```java
package com.example.www.agrico_approval;

import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
public class Register extends AppCompatActivity {
    TextView tv1,tv2;
    EditText et1;
    Button bt1,bt2;
    Spinner sp1;
    String s[]={"Category","Price","Discount","Mic","Custom"};
    ArrayAdapter<String> adapter1;
 /*  private static final String DEFAULT_DRIVER = "oracle.jdbc.driver.OracleDriver";
    private static final String DEFAULT_URL = "jdbc:oracle:thin:@176.0.7.18:1521:xe";
    private static final String DEFAULT_USERNAME = "manoj";
    private static final String DEFAULT_PASSWORD = "manoj";*/

    private Connection connection;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);

        tv1=(TextView) findViewById(R.id.tv1);
        tv2=(TextView)findViewById(R.id.tv2);
        et1=(EditText)findViewById(R.id.et1);
```

```
        bt1=(Button)findViewById(R.id.bt1);
        bt2=(Button)findViewById(R.id.bt2);
        sp1=(Spinner)findViewById(R.id.sp1);
        tv1.setText("Sunny Kumar Sharma");

        adapter1 =new ArrayAdapter<String>(this,android.R.layout.simple_list_item_1);
        adapter1.addAll(s);
        adapter1.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        sp1.setAdapter(adapter1);

        bt1.setOnClickListener(new Button.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(Intent.ACTION_GET_CONTENT);
                i.setType("file/*");
                startActivityForResult(i,1001);
            }
        });

        if (android.os.Build.VERSION.SDK_INT > 9) {
            StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
            StrictMode.setThreadPolicy(policy);
        }
        bt2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                record r=new record();
                r.setCategory(sp1.getSelectedItem().toString());
                r.setDate(Calendar.DATE);
                r.setName(tv1.toString());
                r.setComment(et1.toString());
                r.setStatus("Pending");
                //databaseReference.child("records").child(r.getRef()).setValue(r);
                Intent i=new Intent(Register.this,Reg_Comp.class);
                startActivity(i);
            }
        });
    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        switch (requestCode)
        {
            case 1001:
                if(resultCode==RESULT_OK)
                {
                    String FilePath=data.getData().getPath();
                    tv2.setText(FilePath);
                }
                break;
        }
    }
@Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.out,menu);

        return super.onCreateOptionsMenu(menu);
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId())
        {
            case R.id.page1:
                Intent i1=new Intent(Register.this,Splash.class);
                startActivity(i1);
                break;
            default:
        }
        return super.onOptionsItemSelected(item);
    }}
```
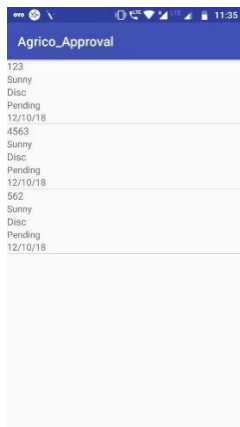
RECORD VIEW

RECORD.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.View1">


    <ListView
        android:id="@+id/l1"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentBottom="true"
        android:layout_alignParentEnd="true" />
</RelativeLayout>
```

RECORD.JAVA

```java
package com.example.www.agrico_approval;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.ListView;

import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
```

```java
public class View1 extends AppCompatActivity {

    ListView lv;
    ArrayAdapter<String> adapter;
    DatabaseReference databaseReference;
    FirebaseDatabase firebaseDatabase;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view1);
        firebaseDatabase=FirebaseDatabase.getInstance();
        databaseReference=firebaseDatabase.getReference();
        lv=(ListView)findViewById(R.id.l1);
        adapter=new ArrayAdapter<String>(this,android.R.layout.simple_list_item_1);
        databaseReference.child("records").addValueEventListener(new
ValueEventListener() {
            @Override
            public void onDataChange(DataSnapshot dataSnapshot) {
                if(dataSnapshot.exists())
                {
                    for (DataSnapshot snapshot:dataSnapshot.getChildren())
                    {
                        record s=snapshot.getValue(record.class);
                        String
record1=s.getRef()+"\n"+s.getName()+"\n"+s.getStatus()+"\n"+s.getCategory()+"\n"+s.get
Date()+"\n"+s.getComment();
                        adapter.add(record1);
                    }
                    lv.setAdapter(adapter);
                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.out,menu);

        return super.onCreateOptionsMenu(menu);
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId())
        {
            case R.id.page1:
                Intent i1=new Intent(View1.this,Splash.class);
                startActivity(i1);
                break;
            default:
        }
        return super.onOptionsItemSelected(item);
    }
}
```
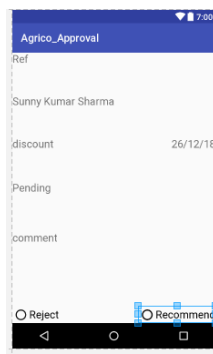
SALES ADMIN VIEW

SALES ADMIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.SalesAdmin">

    <TextView
        android:id="@+id/tvs1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textSize="20sp"
        android:text="Ref" />

    <TextView
        android:id="@+id/tvs2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="Sunny Kumar Sharma"
        android:layout_below="@+id/tvs1"
        android:layout_alignParentStart="true"
        android:layout_marginTop="56dp" />

    <TextView
        android:id="@+id/tvs3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="discount"
        android:layout_alignBottom="@+id/tvs5"
        android:layout_alignParentStart="true"
        android:layout_marginBottom="83dp" />

    <TextView
        android:id="@+id/tvs4"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="26/12/18"
```

```xml
            android:layout_alignBaseline="@+id/tvs3"
            android:layout_alignBottom="@+id/tvs3"
            android:layout_alignParentEnd="true"
            android:layout_marginEnd="15dp" />

    <TextView
            android:id="@+id/tvs5"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="20sp"
            android:text="Pending"
            android:layout_centerVertical="true"
            android:layout_alignParentStart="true" />

    <TextView
            android:id="@+id/tvs6"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="20sp"
            android:text="comment"
            android:layout_above="@+id/rds1"
            android:layout_alignParentStart="true"
            android:layout_marginBottom="117dp" />

    <RadioButton
            android:id="@+id/rds1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="20sp"
            android:text="Reject"
            android:layout_alignParentBottom="true"
            android:layout_alignParentStart="true" />

    <RadioButton
            android:id="@+id/rds2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginEnd="26dp"
            android:textSize="20sp"
            android:text="Recommend"
            android:layout_alignParentBottom="true"
            android:layout_alignParentEnd="true"
            android:layout_alignTop="@+id/rds1" />

</RelativeLayout>
```
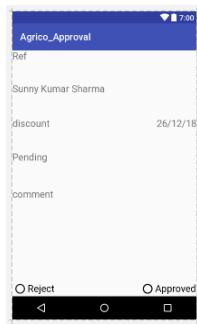
COMS VIEW

COMS.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.www.agrico_approval.coms">
    <TextView
        android:id="@+id/tvc1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textSize="20sp"
        android:text="Ref" />

    <TextView
        android:id="@+id/tvc2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_below="@+id/tvc1"
        android:layout_marginTop="44dp"
        android:textSize="20sp"
        android:text="Sunny Kumar Sharma" />

    <TextView
        android:id="@+id/tvc3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:layout_marginTop="48dp"
        android:text="discount"
        android:layout_below="@+id/tvc2"
        android:layout_alignParentStart="true" />

    <TextView
        android:id="@+id/tvc4"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="26/12/18"
        android:layout_alignTop="@+id/tvc3"
        android:layout_alignParentEnd="true" />
```

```xml
    <TextView
        android:id="@+id/tvc5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:layout_marginTop="46dp"
        android:text="Pending"
        android:layout_below="@+id/tvc3"
        android:layout_alignParentStart="true" />

    <TextView
        android:id="@+id/tvc6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="53dp"
        android:textSize="20sp"
        android:text="comment"
        android:layout_below="@+id/tvc5"
        android:layout_alignParentStart="true" />

    <RadioButton
        android:id="@+id/rdc1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="Reject"
        android:layout_alignParentBottom="true"
        android:layout_alignParentStart="true" />

    <RadioButton
        android:id="@+id/rdc2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="Approved"
        android:layout_alignParentBottom="true"
        android:layout_alignEnd="@+id/tvc4"
        android:layout_alignTop="@+id/rdc1" />

</RelativeLayout>
```

<u>CONCLUSION</u>

TATA STEEL Pvt. Ltd. is a very intriguing place for students to do their Academic training as I was working among the other employees of the company and was able to get the look and feel of real job experience. By this training program, I have gained a wide knowledge of Web and Android Development and its Applications.

TATA STEEL contributes a lot to the knowledge of its trainees and tries their level best to contribute to increasing our ability so that we can stand out from others and whatever they contribute to the corporates world automatically becomes productive.

The Company provides me with a real-time working scenario. I have gained a lot of experience with a real-time job in a company. I witnessed the assignments the employees were working on, their on-calls with clients and learned about debugging with ticket numbers. The conclusion is that I have gained a lot of experience both in the field of my project and about the general real-time working scenario.

<u>REFERENCES</u>

- **http://www.tataagrico.com**

- **https://en.wikipedia.org/**

- **https://www.w3schools.com/**

- **https://getbootstrap.com/**

- **https://www.javatpoint.com**

- **https://stackoverflow.com/**

- **https://visualstudio.microsoft.com/**

- **https://www.tutorialspoint.com/**

- **https://www.c-sharpcorner.com/**

THANKING YOU !!