**Project Report**

Project Name:

# **Converized Bar Inspection Checkout**

**Introduction:**

* **This project is used for image inspection**
* **In this project all work start after selecting or capturing image.**
* **development purpose developer can select image manually and perform inspection operation.**
* **In that project there are two main tabs:**
  + **Inspection and Reports**
* **Inside inspection tab multiple functionality available.**
* **Inside Report tab show the inspection report in date wise.**

**Working of Project:**

* Build or start project
* After that show dashboard window.
* **Inside that dashboard window. there are two main tabs / buttons.**
  + **Inspection**
  + **Report**

**Inside Inspection Tab**

* **Click on image button and select image folder for development or testing purpose.**
* **inside that folder store multiple image.**
* **After selecting folder then select camera and select part name.**
* **After completing this process then click start inspection button to start the image inspection.**
* **After that click next button to inspect one by one image.**
* **After capturing image show image Measurements, the format of mm by default. But user can customize measurement in mm, pixel or Inches**
* **After processing camera one and camera two image final result will be display in screen. in the form of Ok or Not Ok.**
* **After stop the inspection. Excel report open automatically. inside that excel store all measurement in mm or pixel.**

**Report:**

* **Inside report section report will be display in date wise.**

**Not Understanding Points:**

1. **onFrameEvent\_cam2()**
2. **HTuple**
3. **delegate**
4. **HSamrtWindowControl //understand**
5. **HWindow**
6. **NetworkInterface**
7. **Mutex**
8. **Ping and pingReply**
9. **initcommunication()**
10. **DeviceListAcq()**
11. **MV\_CC\_openDevice\_NET(); //using MyCamera class object call this method. And store result value inside nRet variable.**
12. **Open()**

**Basic Understanding Point:**

* In every programming language program execution start from main function. Because main is an entry point function.
* In C# Main() function available inside program.cs file.
* So first execute program.cs file.

**Inside Program.cs Inside Main()**

1. NetworkInterface[] nics = NetworkInterface.GetAllNetworkInterfaces();

* nics is a variable inside that variable store all value of network interface array.
* A NetworkInterface array that contains objects that describe the available network interfaces, or an empty array if no interfaces are detected.

1. String sMacAddress = string.Empty; //empty string
2. bool isGeniuene = false; //Boolean type with false value
3. foreach (NetworkInterface adapter in nics)

{

//not understand properly

IPInterfaceProperties properties = adapter.GetIPProperties();

sMacAddress = adapter.GetPhysicalAddress().ToString();

// if (sMacAddress == "509A4C13810D") //check match or not

{

isGeniuene = true;

}

}

* **adapter is a variable inside that variable access one by one nics value using for each loop.**

1. if (isGeniuene) //check condition

{

bool mutexCreated = true; //create Boolean variable

//not proper understand

System.Threading.Mutex mutex = new System.Threading.Mutex(true, "VisiMaster", out mutexCreated);

if (mutexCreated) // check condition

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

//Application.Run(new Login());

//if (Login.islogin== true)

{

Application.Run(new MasterForm()); //calling

}

}

else

{

System.Diagnostics.Process current = System.Diagnostics.Process.GetCurrentProcess();

foreach (System.Diagnostics.Process process in System.Diagnostics.Process.GetProcessesByName(current.ProcessName))

{

if (process.Id != current.Id)

{

MessageBox.Show("Another Instance of VisiMaster is Already Running.", "VisiMaster Already running", MessageBoxButtons.OK, MessageBoxIcon.Stop);

//SetForegroundWindow(process.MainWindowHandle);

break;

}

} //end foreach

} //end else

} //end if

else

{

MessageBox.Show("Please insert License file to proceed...!");

}