Data Transfer Using Virtual Printer

Submitted in partial fulfillment of the requirements for the degree of

Bachelor of Engineering

Report Sem VIII

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Certificate

This is to certify that the project entitled **Analysing Performance of Recurrent Neu- ral Network and N-gram based Language Models on Sentence Completion Task** is a bonafide work of **Karishma Ghadge (Roll No.14), Sayali jadhav(Roll No. 24),Chaitali Shevale (Roll No.47),Harshali Thale(Roll No.54)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **Undergraduate** in **DEPARTMENT OF INFORMATION TECHNOLOGY**.

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Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and in- tegrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signature

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(Sayali Jadhav) Roll No.24

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(Chaitali Shevale) Roll No.47

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(Harshali Thale) Roll No.54

Date.

Abstract

The project aims is to share Securely encrypted file over cloud server using virtual printer driver And We can access that data/file anywhere

Let's have a look at how virtual printer work

First, we need to install virtual printer driver application in our windows/system and after installation, we will be able to see virtual printer driver will be shown in control panel (device and printer).

User will be able to prints a document through the virtual printer from any application. The virtual printer intercepts the print job and saves each printed page as EMF file.

The virtual printer converts EMF files to Image output formats. Data has been extracted from Image file into text or other human readable file format. after that data has been splitted into json /Xml file format Web api is being called to post that data over cloud server. Now, the data has been transferred securely from source to desired destination and available to access same data\file from anywhere

Acknowledgements

We wish to express our profound and sincere gratitude to Prof.Mahesh Zemse, Department Information Technology, KGCE, Karjat, who guided us into the intricacies of this project with matchless magnanimity. We thank Prof.Anil kale, Head of the Dept. of Information Technology, KGCE Karjat and Dr. M. J. LENGARE, Principal, KGCE Karjat for extending their support during the Course of this investigation. We would be failing in our duty if we dont acknowledge the co-operation Rendered during various stages of im- age interpretation by. We are highly grateful to who evinced keen interest and invaluable support in the progress and successful completion of our project work. We are indebted to for their constant encouragement, co-operation and help. Words of Gratitude are not enough to describe the accommodation and fortitude which they have shown throughout my ende

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Chapter 1

INTRODUCTION

1.1 Introduction

In our project that is in Data Transfer Using Virtual Printer Driver we are going to implement application for to share Securely encrypted file over cloud server using virtual printer driver And We can access that data/file anywhere

Let's have a look at how virtual printer work.

We are using Leadtools api's for developing Virtual printer driver its help to for developing virtual printer driver in C# language to that its easy for developer for developing

First, we need to install virtual printer driver application in our windows/system and after installation, we will be able to see virtual printer driver will be shown in control panel (device and printer).

User will be able to prints a document through the virtual printer from any application. The virtual printer intercepts the print job and saves each printed page as EMF file.

The virtual printer converts EMF files to Image output formats. Data has been extracted from Image file into text or other human readable file format. after that data has been splitted into json /Xml file format Web api is being called to post that data over cloud server. Now, the data has been transferred securely from source to desired destination and available to access same data\file from anywhere.

Function:

Typical uses of virtual printers include:

- Saving a document to another format such as a PDF or multi-page TIFF file.
- Sending documents to a server and we can access from anywhere.
- Allowing user to control certain aspects of printing not supported natively, such as printing multiple pages per sheet without border, print letterhead, watermarks etc.
- This output can either be saved in a file for future printing or passed to another printer.
- Previewing a printed document before printing it, to save ink and paper.This functionality is also built into many GUI applications. Allowing remote printing of documents over the Internet.

- At least one example of this technology creates a virtual printer on one computer which actually converts the document and sends it to a remote server, from which the file can be printed to a printer attached to a PC in a remote location.
- Similar technology is also being used to allow printing from devices such as smart phones.
- In our project that is in Data Transfer Using Virtual Printer Driver we are going to implement application for to share Securely encrypted file over cloud server using virtual printer driver And We can access that data/file anywhere
- Let's have a look at how virtual printer work.
- We are using Leadtools api's for developing Virtual printer driver its help to for developing virtual printer driver in C# language to that its easy for developer for developing
- First, we need to install virtual printer driver application in our windows/system and after installation, we will be able to see virtual printer driver will be shown in control panel (device and printer).
- User will be able to prints a document through the virtual printer from any application. The virtual printer intercepts the print job and saves each printed page as EMF file.
- The virtual printer converts EMF files to Image output formats. Data has been extracted from Image file into text or other human readable file format. after that data has been splitted into json /Xml file format Web api is being called to post that data over cloud server. Now, the data has been transferred securely from source to desired destination and available to access same data\file from anywhere.

1.1 *Objectives*

The objective of virtual printer is to share securely encrypted file over cloud server using virtual printer driver and we can access that data Or file from anywhere.

1. Virtual printer work with print drivers that are coded to send their output to other applications rather than to a physical device.
2. The virtual printer can help save resources because it makes it possible to carry out tasks that would formerly have involved actual printing without wasting paper and ink And EMF file.
3. User will be able to print a document through the virtual printer from any application
4. Virtual printer converting documents of any type into **PDF** format or image files such as **JPEG**, **TIFF**, GIF, PNG, BMP, PCX or DCX.
5. The virtual printers converts EMF files to Image output format.
6. Data will be extracted from Image file into the text or other human readable file format.
7. With the help of virtual printers drivers data has been transferred securely from source to destination.

1.2 *Purpose, Scope, and Applicability*

1.2.1 Purpose

The purpose of the Project is to The objective of virtual printer is to share securely encrypted file over server using virtual printer driver and we can access that data Or file from anywhere.

The virtual printer can help save resources because it makes it possible to carry out that would formerly have involved actual printing without wasting paper and ink And EMF file.

1.2.2 Scope

This application is for only desktop computer so in future we can develop for allowing remote printing of documents over the Internet

1.2.3 Applicability

The objective of virtual printer is to share securely encrypted file over cloud server using virtual printer driver and we can access that data Or file from anywhere.

The virtual printer can help save resources because it makes it possible to carry out tasks that would formerly have involved actual printing without wasting paper and ink And EMF file. virtual printing is widely used. It is most commonly used for converting documents into images in various formats or for sending faxes from a computer.

Organisation of Report

We did Literature Survey on various standard papers like Control of distributed computer using virtual printer driver Execute Module, Virtual printer and Leadtools Virtual printer etc. After reading these papers we found that their are various technology and languages used like C,C++,C# and Xml. So that We are most comfortable with C# so that we decided to developing driver using Leadtools.

LITERATURE SURVEY

Paper Name[1] – "Control of distributed computer using virtual printer driver Execute Module".

Author – : Fumihiko Iwata, Nagano-ken (JP); Nagano-ken (JP); Akihiro Sato, Nagano-ken (JP); Nagano-ken (JP); Togashi, Nagano-ken (JP)

Year – 2007

Description –

A technique for carrying out distributed printing from a general-purpose application program. An application program generates print data and issues a print command. A virtual printer driver receives the print command and returns performance information with regard to performances of a virtual printer to the application program The application program converts print data into data Suitable for the virtual printer based on the performance information and transmits the converted print data to the virtual printer driver. The virtual printer driver stores the input print data in the form

of an intermediate print file into an HDD. A distributed printing utility reads the intermediate print file, allocates intermediate print data in the intermediate print file to respective printers according to a distributed form set in a dialog box, and outputs the print data in a distributive manner to real printer drivers provided for the respective printers based on the allocation.

Paper Name[2] – "Application of Digital Virtual Prototype Technology in Simulation Design of Paper Delivery Mechanism of Printing Press

Author – Ming He

Year - 2020

Description –

Research objectives:

The application of digital virtual prototype technology in the simulation design of printing machine delivery mechanism is studied. Research methods: Through the modeling of three-dimensional entities, the assembly of models and the testing of equipment, the structural characteristics of parts are described by using geometric shapes. The relationship between assemblies is related and defined, and the application of digital virtual prototyping technology is analyzed by combining with the test results. Research conclusions: Digital virtual prototype technology has an important role in promoting many industries in China and the printing industry. The use of it not only meets the actual needs of the industry, but also effectively promotes the optimization of resources. Allocation is of great help to realize the sustainable development of China's economy and society. In view of the actual situation of the printing industry in China, the working mode of traditional printing press is relatively single. It is difficult to achieve effective guarantee of work efficiency, and at the same time it is impossible to guarantee the accuracy of the final data and unexpected effect.

TABLE 2.1: Paper Comparison

Sr.No.	Title	Description
1	Control of distributed computerusing virtual printer driver Execute Module Control of distributed computerusing virtual printer driver Execute Module (2007)	Author :Fumihiko Iwata, Nagano-ken (JP); Nagano-ken (JP); Akihiro Sato, Nagano-ken (JP); Nagano-ken (JP); Togashi, Nagano-ken (JP) Working : The application program converts print data into data Suitable for the virtual printer based on the performance information and transmits the converted print data to the virtual printer driver
2	Application of Digital Virtual Prototype Technology in Simulation Design of Paper Delivery Mechanism of Printing Press (2020)	Author: Ming He Working: Digital virtual prototype technology has an important role in promoting many industries in China and the printing industry. The use of it not only meets the actual needs of the industry, but also effectively promotes the optimization of resources

Chapter 3

REQUIREMENTS AND ANALYSIS

Problem Definition

1) Time consumption

The time consuming is more in existing system . When user gives the inputs (print)In the form of any documents format (.pdf,.doc,.txt) to the virtual printer driver then very difficult to analyze the fornt of particular input file and also take too much time to convert into desire output But in our proposed system we overcome the problem we used leadtool 21

2) user interface

In existing system have less user friendly. So that user don't get see input file So far solution to this we can make our proposed system more user friendly so that can see their input file before sending to server

4.1 *Requirements Specification*

Software and Hardware Requirements

- *Intel processor of AMD dual core.*
- *2 GB RAM.*
- *500 GB Hard disk.*
- *Various software prerequisites are as follows:*
- *Windows XP,7,8,10.*
- *Visual Studio 17.*
- *SQL server 14.*
- *Leadtools.*
- *Programming languages called C# and ASP.Net.*

4.2 *and Scheduling Planning*

In Planning we did the Requirement Analysis of Project from last week of July to mid September After that we referred many of the Papers related to Sentence Completion task and Design our project from mid september to last Week of October and We will start the implementation of our project in the month of December and complete it by Second week of March and with implementation will also and also will start the documentaion from mid Feb and Complete it by the April month. The detailed information of our planning and scheduling is shown below.

Chapter 4

SYSTEM DESIGN

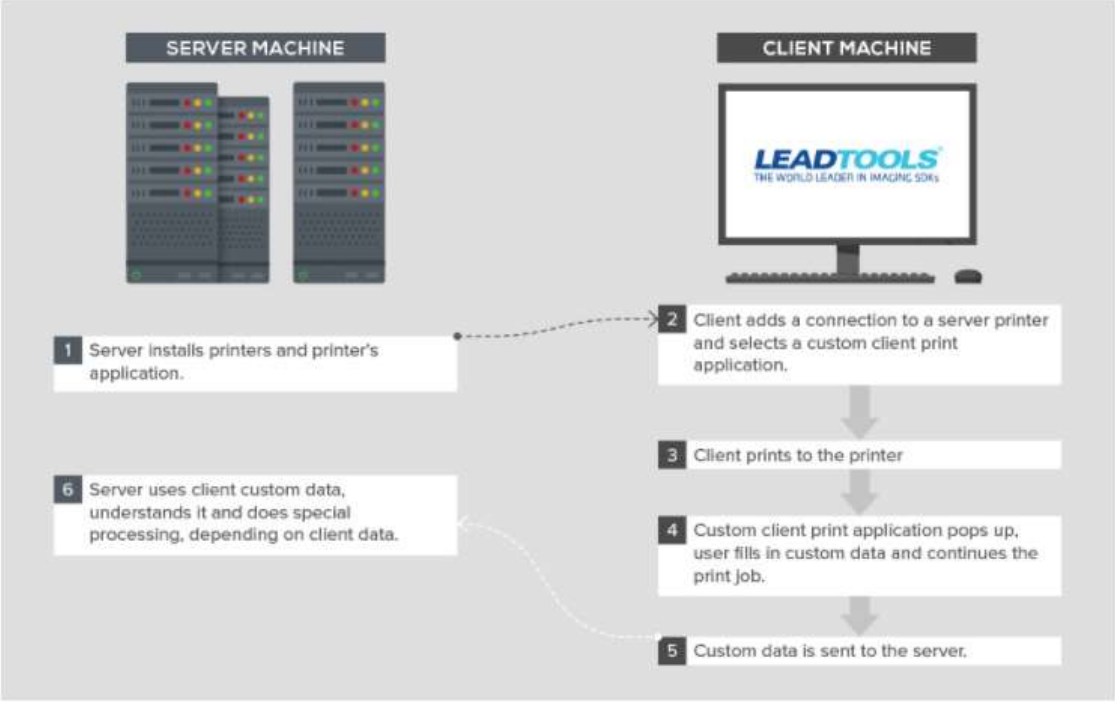
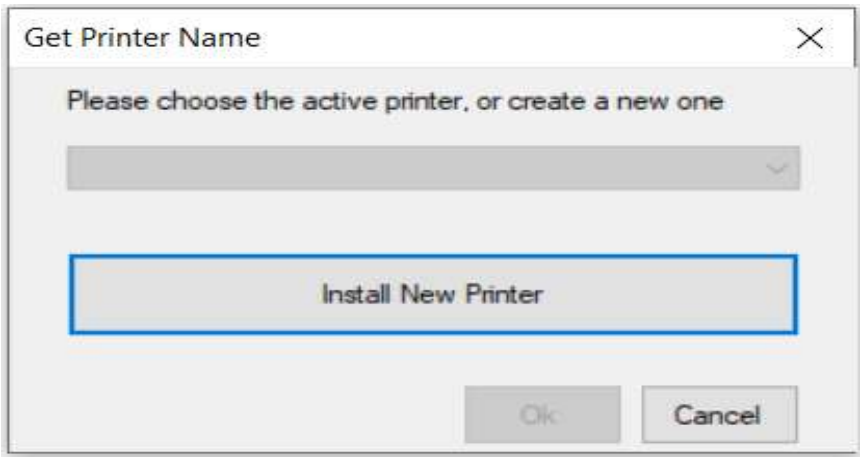
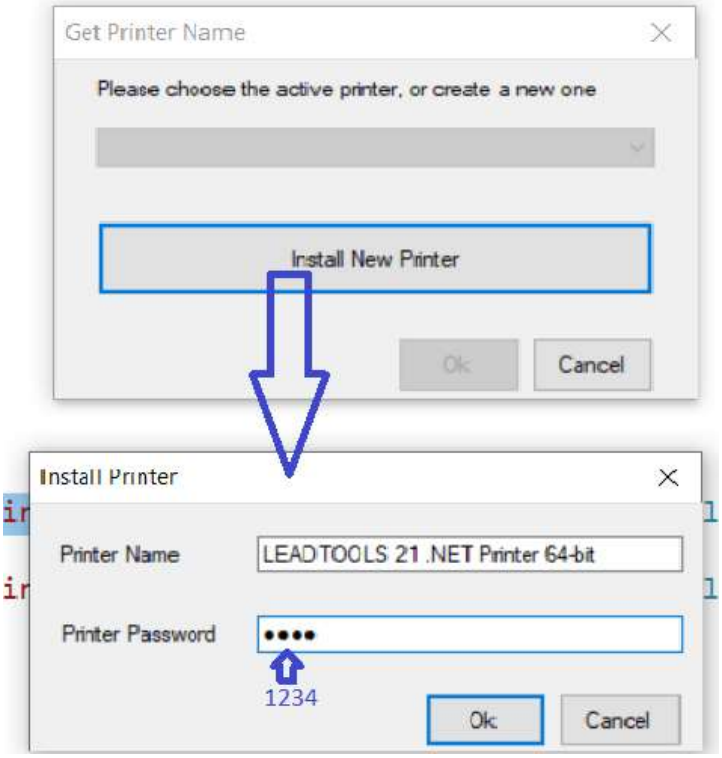


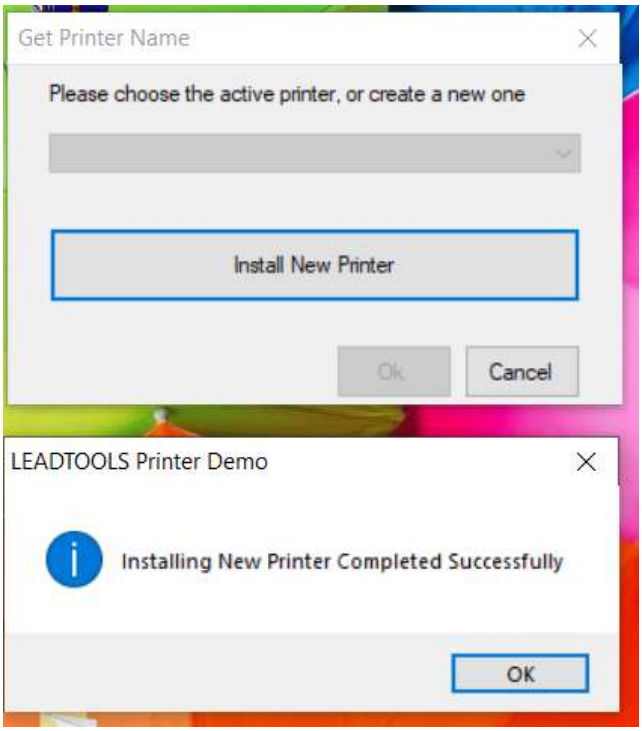
FIGURE 4.1: System Design

Chapter 5: Implementation

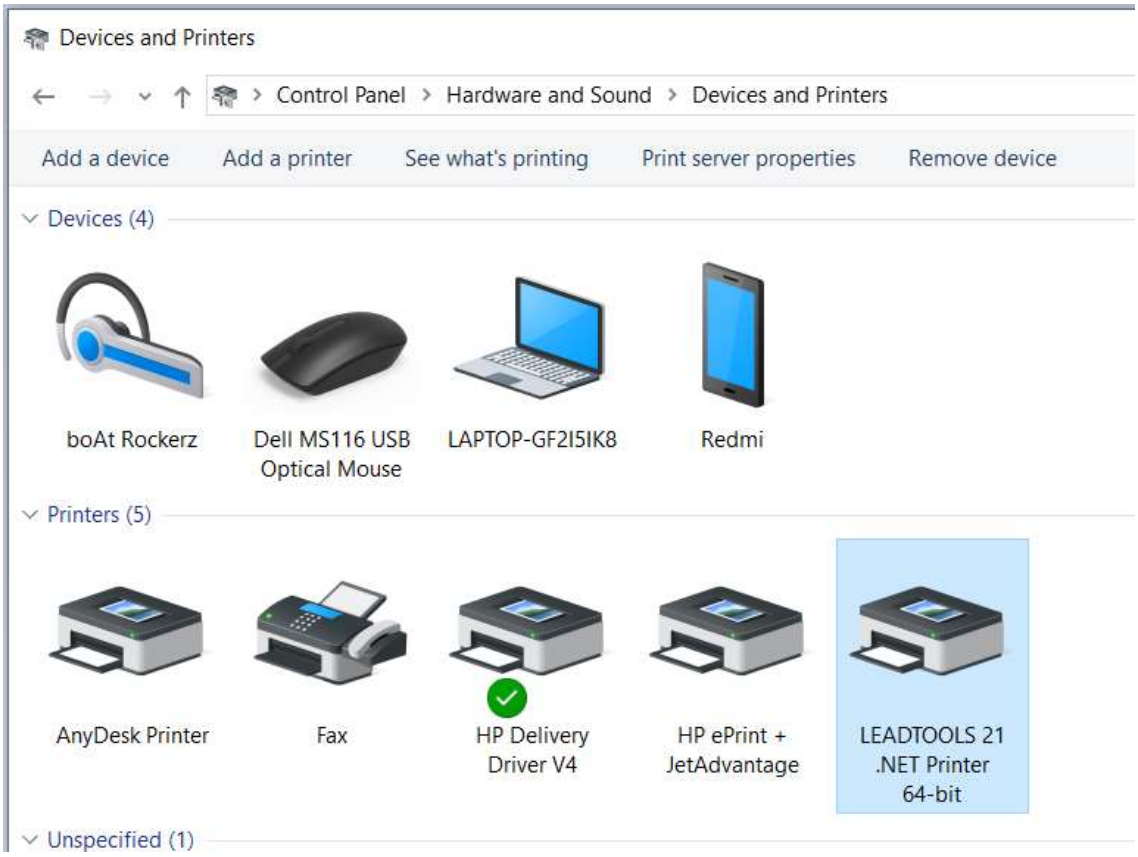
Implementation



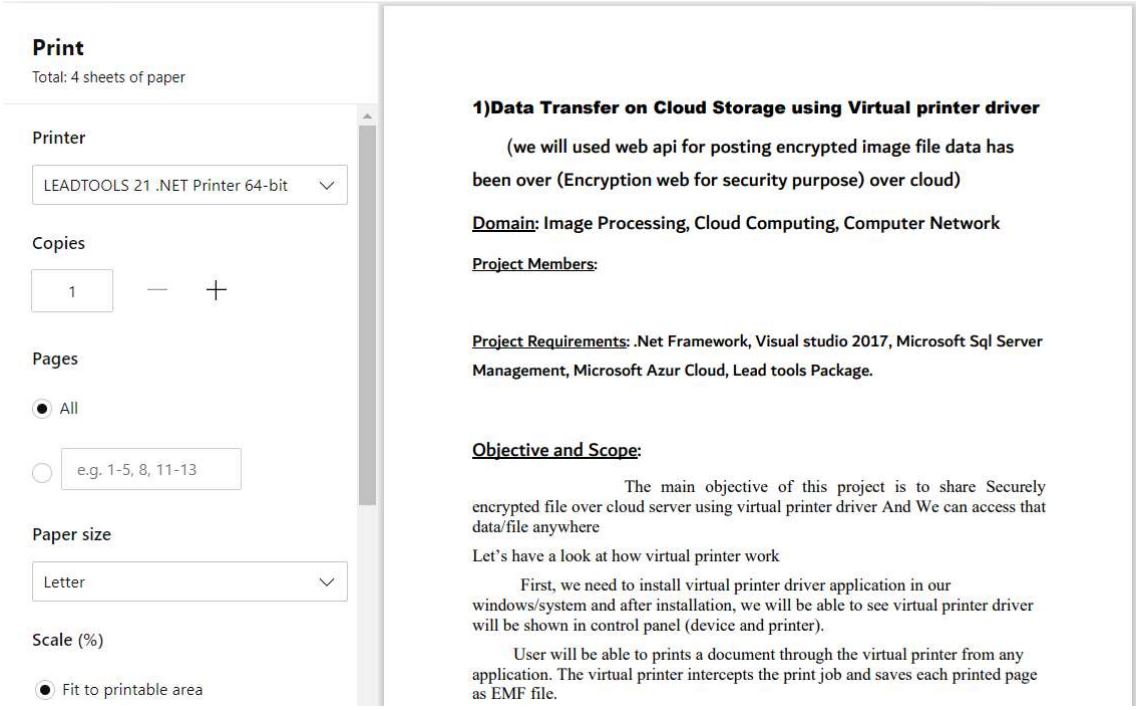


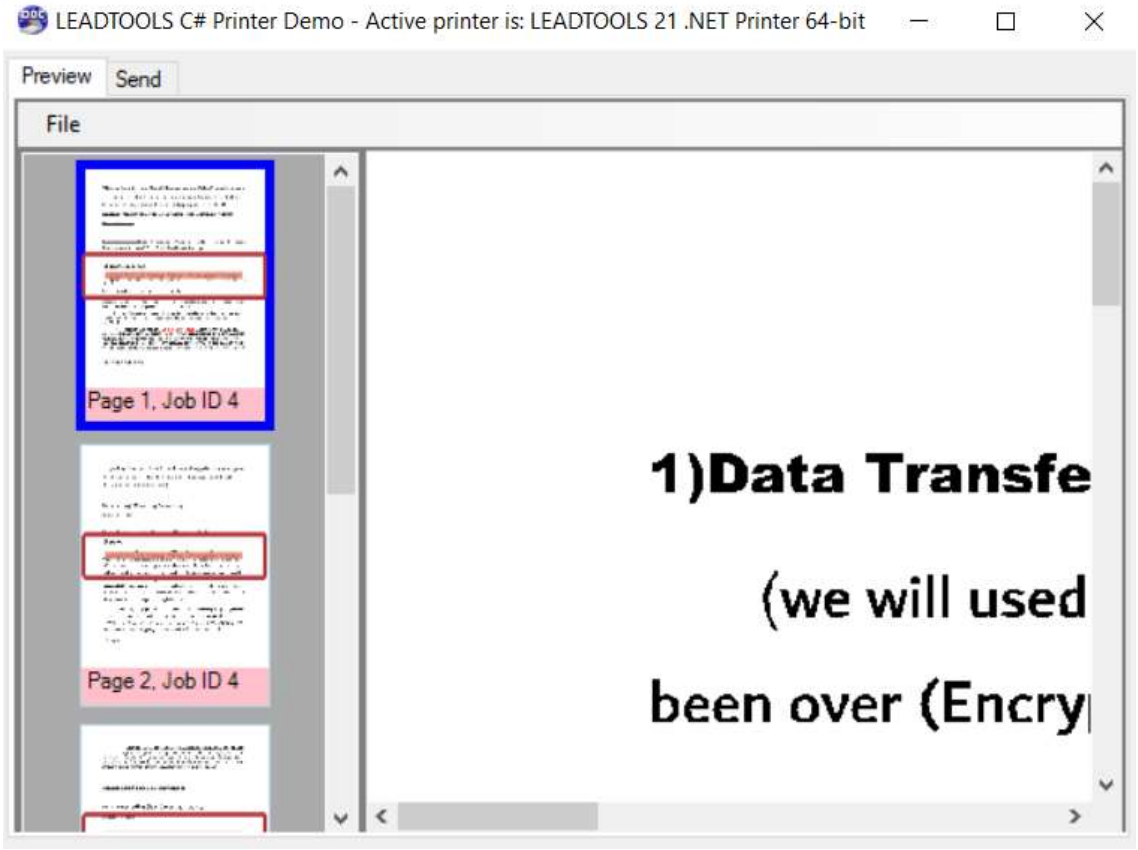


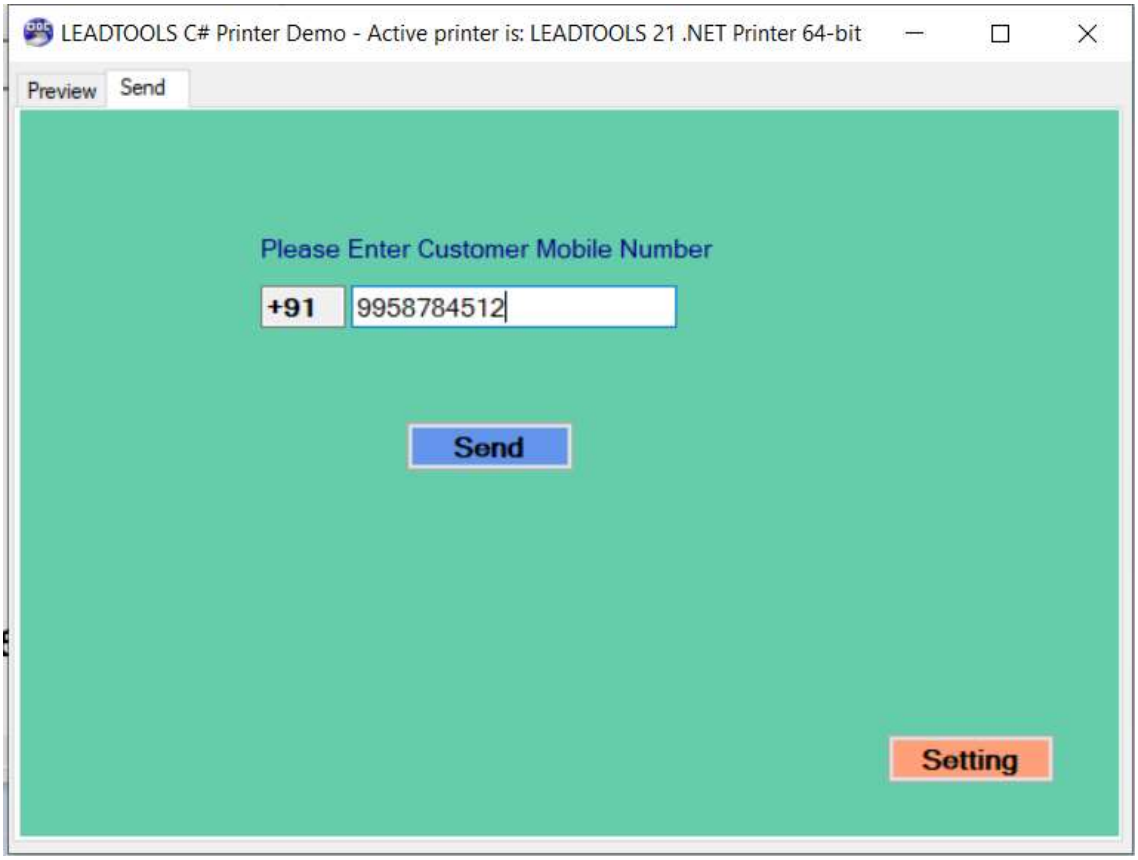
After Installation Successfully Then We Can See Printer Driver Icon in Control panel Device and Printer setting


Devices and Printers
Control Panel › Hardware and Sound › Devices and Printers
Add a device
Add a printer
See what's printing
Print server properties
Remove device
Devices (4)
boAt Rockerz
Dell MS116 USB Optical Mouse
LAPTOP-GF2I5IK8
Redmi
Printers (5)
AnyDesk Printer
Fax
HP Delivery Driver V4
HP ePrint + JetAdvantage
LEADTOOLS 21 .NET Printer 64-bit
Unspecified (1)

4)

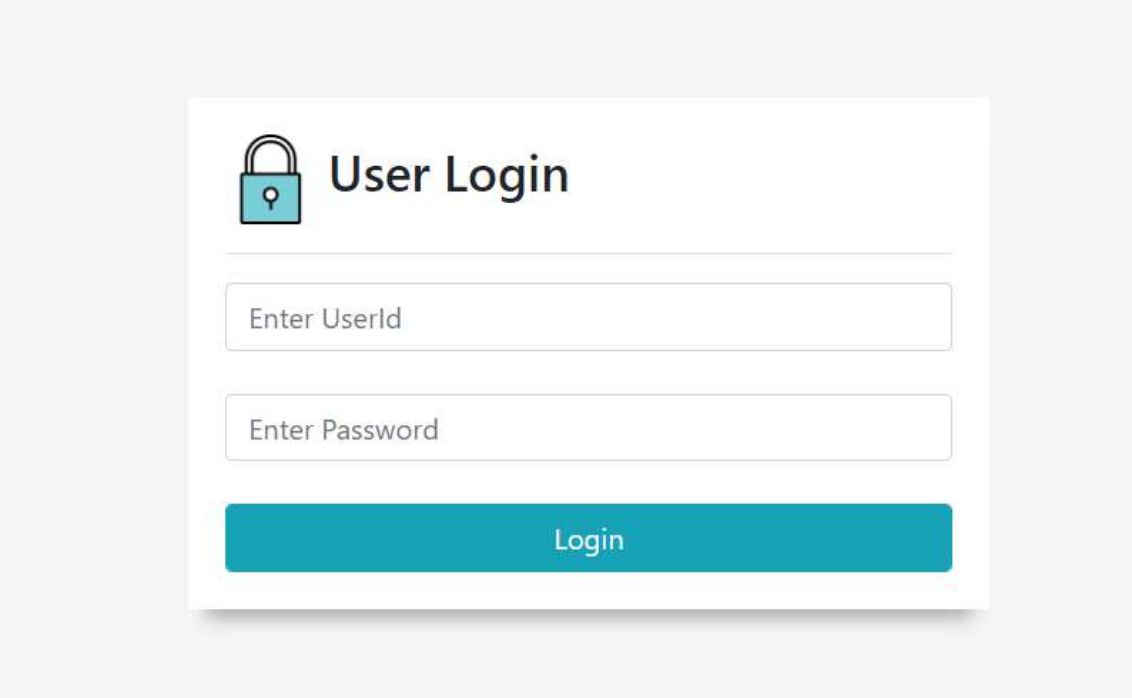

Print
Total: 4 sheets of paper
Printer
LEADTOOLS 21 .NET Printer 64-bit
Copies
1
Pages
All
e.g. 1-5, 8, 11-13
Paper size
Letter
Scale (%)
Fit to printable area
1)Data Transfer on Cloud Storage using Virtual printer driver
(we will used web api for posting encrypted image file data has been over (Encryption web for security purpose) over cloud)
Domain: Image Processing, Cloud Computing, Computer Network
Project Members:
Project Requirements: .Net Framework, Visual studio 2017, Microsoft Sql Server Management, Microsoft Azur Cloud, Lead tools Package.
Objective and Scope:
The main objective of this project is to share Securely encrypted file over cloud server using virtual printer driver And We can access that data/file anywhere
Let's have a look at how virtual printer work
First, we need to install virtual printer driver application in our windows/system and after installation, we will be able to see virtual printer driver will be shown in control panel (device and printer).
User will be able to prints a document through the virtual printer from any application. The virtual printer intercepts the print job and saves each printed page as EMF file.

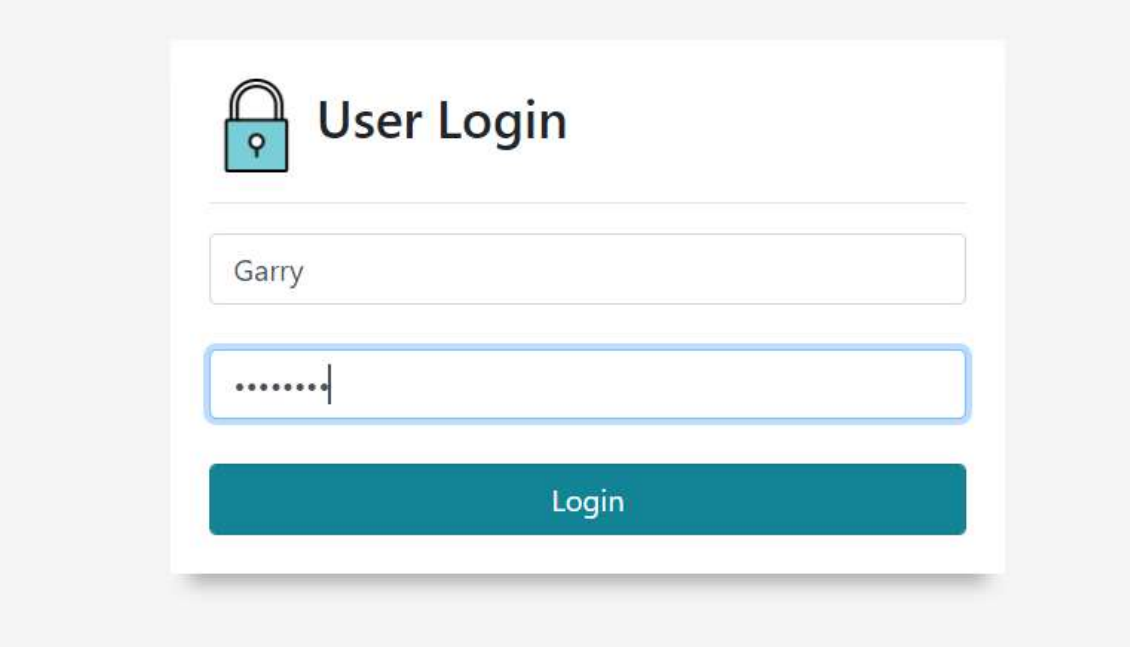

LEADTOOLS C# Printer Demo - Active printer is: LEADTOOLS 21 .NET Printer 64-bit
Preview
Send
File
Page 1, Job ID 4
Page 2, Job ID 4
1)Data Transfe
(we will used
been over (Encry


LEADTOOLS C# Printer Demo - Active printer is: LEADTOOLS 21 .NET Printer 64-bit
Preview
Send
Please Enter Customer Mobile Number
+91
9958784512
Send
Setting

2) Second Phase Implemenation

Login Page

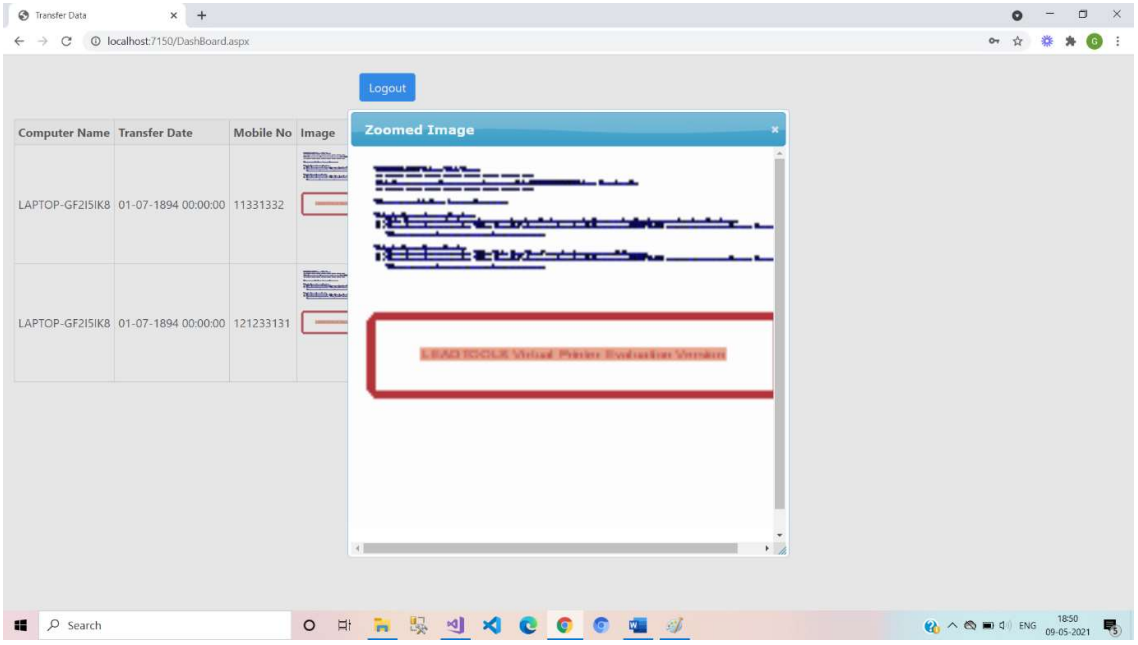


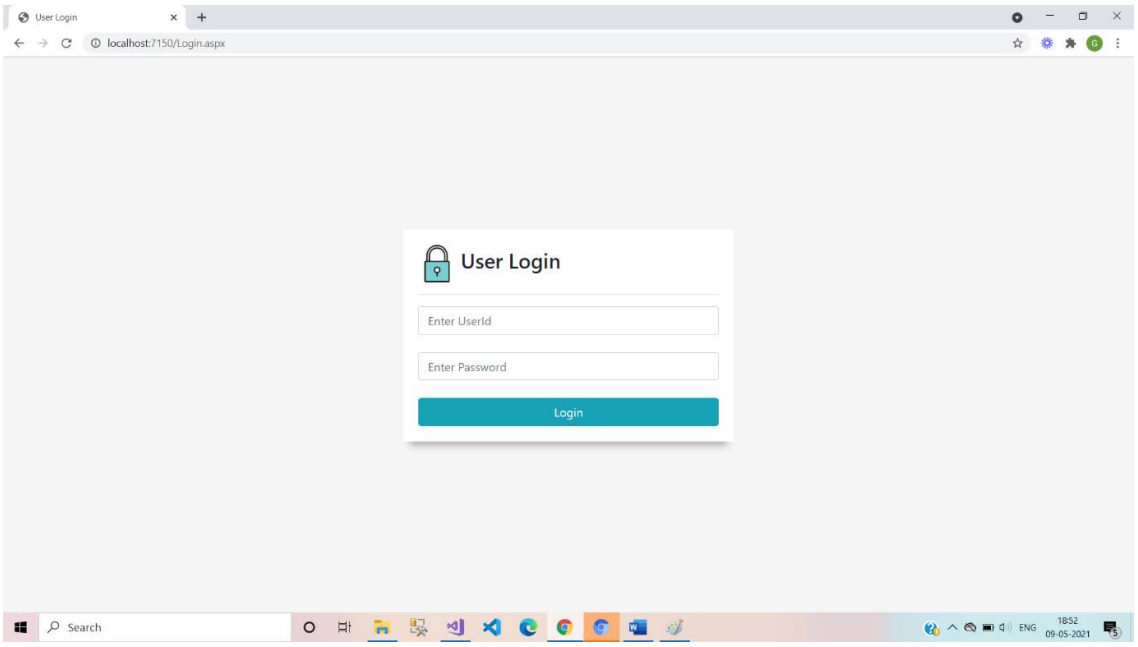


Transfer Data Page:

Logout

Computer Name	Transfer Date	Mobile No	Image
LAPTOP-GF2I5IK8	01-07-1894 00:00:00	11331332	
LAPTOP-GF2I5IK8	01-07-1894 00:00:00	121233131	


Transfer Data
localhost:7150/DashBoard.aspx
Logout
Computer Name
Transfer Date
Mobile No
Image
LAPTOP-GF2I5IK8
01-07-1894 00:00:00
11331332
LAPTOP-GF2I5IK8
01-07-1894 00:00:00
121233131
Zoomed Image
Search
ENG
18:50
09-05-2021


User Login
localhost:7150/Login.aspx
User Login
Enter UserId
Enter Password
Login
Search
ENG
18:52
09-05-2021

Chapter 6:

6.1. Future scope

- Saving a document to another format such as a pdf or multi-page tiff file.
- Sending documents to a fax server.
- Allowing user to control certain aspects of printing not supported natively, such as printing multiple pages per sheet without border, print letterhead, watermarks etc. This output can either be saved in a file for future printing or passed to another printer.
- Virtual reatails is retaling on the internet. Many traditional retailers are entering in the virtual retail market in support of their physical stores.
- It allows retailers to create much more immersive and engaging experience that mimic those of physical stores

6.2. Conclusion

The project is to objective of virtual printer is to share securely encrypted file over server using virtual printer driver and we can access that data or file from anywhere.