

Printer Control System using Mobile Cloud

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Abstract – Printing is sensitive to font’s size, formats and colours. While printing there is a chance of getting change in system’s Printer setup. To avoid this problem, we are using this technique. In this project we made an application which prints the document in the setup made by the admin. The setup is made in admin’s system. User can use the system but cannot change the setup in the admin. When we run this application, Irrespective of the font’s size, formats and colours of the document to be printed, it will be printed in the format setup made in admin’s system. The printing is similar to everyone who uses this. It is mostly used in the hotels, theatres, malls to print on same format for every billing.

Index Terms – Sensitive, Format, Colour, Technique.

1. INTRODUCTION

Microsoft .NET is a set of Microsoft software technologies for rapidly building and integrating XML Web services, Microsoft Windows-based applications, and Web solutions. The .NET Framework is a language-neutral platform for writing programs that can easily and securely interoperate. There’s no language barrier with .NET: there are numerous languages available to the developer including Managed C++, C#, Visual Basic and Java Script.

The .NET framework provides the foundation for components to interact seamlessly, whether locally or remotely on different platforms. It standardizes common data types and communications protocols so that components created in different languages can easily interoperate. “.NET” is also the collective name given to various software components built upon the .NET platform. These will be both products (Visual Studio.NET and Windows.NET Server, for instance) and services (like Passport, .NET My Services, and so on).

2. RELATED WORK

SOFTWARE SPECIFICATION

FEATURES OF .NET

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Basic and Java Script. The .NET framework provides the foundation for components to interact seamlessly, whether locally or remotely on different platforms. It standardizes common data types and communications protocols so that components created in different languages can easily interoperate. “.NET” is also the collective name given to various software components built upon the .NET platform. These will be both products (Visual Studio.NET and Windows.NET Server, for instance) and services (like Passport, .NET My Services, and so on).

OVERVIEW OF TECHNOLOGIES USED

Front End Technology

Microsoft .NET Framework

1. The .NET Framework is a new computing platform that simplifies application development in the highly distributed environment of the Internet. The .NET Framework is designed to fulfill the following objectives:
2. To provide a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely.
3. To provide a code-execution environment that minimizes software deployment and versioning conflicts.
4. To provide a code-execution environment that guarantees safe execution of code, including code created by an unknown or semi-trusted third party.
5. To provide a code-execution environment that eliminates the performance problems of scripted or interpreted environments.
6. To make the developer experience consistent across widely varying types of applications, such as Windows-based applications and Web-based applications.
7. To build all communication on industry standards to ensure that code based on the .NET Framework can integrate with any other code.

3. PORPOSED MODELLING

Client Application Development

Client applications are the closest to a traditional style of application in Windows-based programming. These are the types of applications that display windows or forms on the desktop, enabling a user to perform a task. Client applications include applications such as word processors and spreadsheets, as well as custom business applications such as data-entry tools, reporting tools, and so on. Client applications usually employ windows, menus, buttons, and other GUI elements, and they likely access local resources such as the file system and peripherals such as printers.

Server Application Development

Server-side applications in the managed world are implemented through runtime hosts. Unmanaged applications host the common language runtime, which allows your custom managed code to control the behavior of the server. This model provides you with all the features of the common language runtime and class library while gaining the performance and scalability of the host server. The following illustration shows a basic network schema with managed code running in different server environments. Servers such as IIS and SQL Server can perform standard operations while your application logic executes through the managed code.

Server-side managed code

VB.NET is the hosting environment that enables developers to use the .NET Framework to target Web-based applications. However, VB.NET is more than just a runtime host; it is a complete architecture for developing Web sites and Internet-distributed objects using managed code. Both Web Forms and XML Web services use IIS and VB.NET as the publishing mechanism for applications, and both have a collection of supporting classes in the .NET Framework.

Active Server Pages.NET

VB.NET is a programming framework built on the common language runtime that can be used on a server to build powerful Web applications. VB.NET offers several important advantages over previous Web development models:

Enhanced Performance. VB.NET is compiled common language runtime code running on the server. Unlike its interpreted predecessors, VB.NET can take advantage of early binding, just-in-time compilation, native optimization, and caching services right out of the box. This amounts to dramatically better performance before you ever write a line of code.

World-Class Tool Support. The VB.NET framework is complemented by a rich toolbox and designer in the Visual Studio integrated development environment. WYSIWYG editing, drag-and-drop server controls, and automatic

deployment are just a few of the features this powerful tool provides.

Power and Flexibility. Because VB.NET is based on the common language runtime, the power and flexibility of that entire platform is available to Web application developers. The .NET Framework class library, Messaging, and Data Access solutions are all seamlessly accessible from the Web. VB.NET is also language-independent, so you can choose the language that best applies to your application or partition your application across many languages. Further, common language runtime interoperability guarantees that your existing investment in COM-based development is preserved when migrating to ASP.NET.

Simplicity. VB.NET makes it easy to perform common tasks, from simple form submission and client authentication to deployment and site configuration. For example, the VB.NET page framework allows you to build user interfaces that cleanly separate application logic from presentation code and to handle events in a simple, Visual Basic - like forms processing model. Additionally, the common language runtime simplifies development, with managed code services such as automatic reference counting and garbage collection.

Manageability. VB.NET employs a text-based, hierarchical configuration system, which simplifies applying settings to your server environment and Web applications. Because configuration information is stored as plain text, new settings may be applied without the aid of local administration tools. This "zero local administration" philosophy extends to deploying VB.NET Framework applications as well. An VB.NET Framework application is deployed to a server simply by copying the necessary files to the server. No server restart is required, even to deploy or replace running compiled code.

Scalability and Availability. VB.NET has been designed with scalability in mind, with features specifically tailored to improve performance in clustered and multiprocessor environments. Further, processes are closely monitored and managed

4. BACK END TECHNOLOGY

About Microsoft SQL Server 2000

Microsoft SQL Server is a Structured Query Language (SQL) based, client/server relational database. Each of these terms describes a fundamental part of the architecture of SQL Server.

Structured Query Language (SQL)

To work with data in a database, you must use a set of commands and statements (language) defined by the DBMS software. There are several different languages that can be used with relational databases; the most common is SQL. Both the American National Standards Institute (ANSI) and the

International Standards Organization (ISO) have defined standards for SQL. Most modern DBMS products support the Entry Level of SQL-92, the latest SQL standard (published in 1992).

SQL Server Features

Microsoft SQL Server supports a set of features that result in the following benefits:

Ease of installation, deployment, and use

SQL Server includes a set of administrative and development tools that improve your ability to install, deploy, manage, and use SQL Server across several sites.

Scalability

The same database engine can be used across platforms ranging from laptop computers running Microsoft Windows® 95/98 to large, multiprocessor servers running Microsoft Windows NT®, Enterprise Edition.

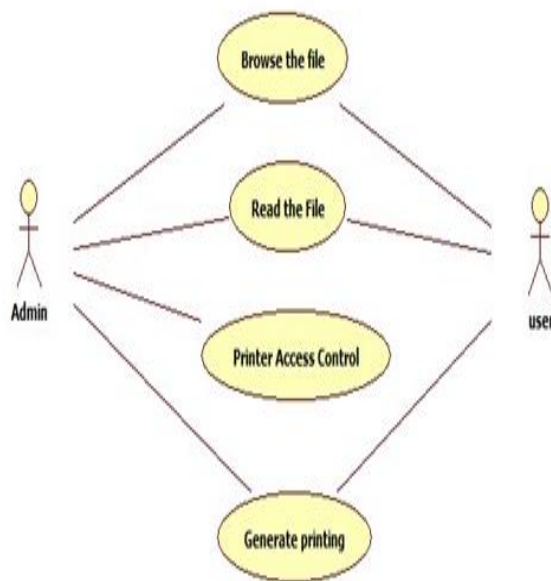
Data warehousing

SQL Server includes tools for extracting and analyzing summary data for online analytical processing (OLAP). SQL Server also includes tools for visually designing databases and analyzing data using English-based questions.

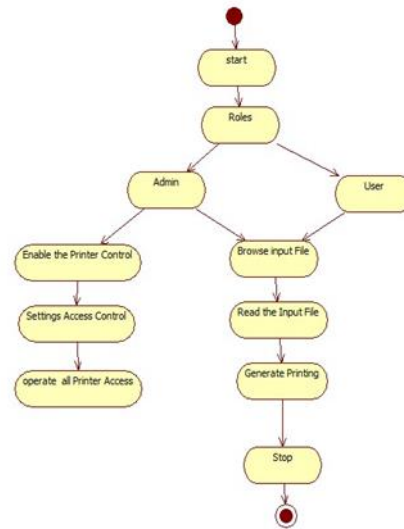
System integration with other server software

SQL Server integrates with e-mail, the Internet, and Windows.

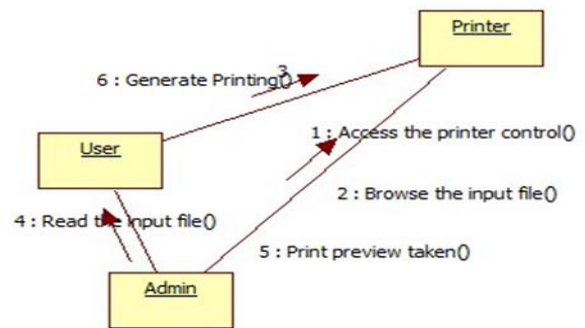
USE CASE DIAGRAM



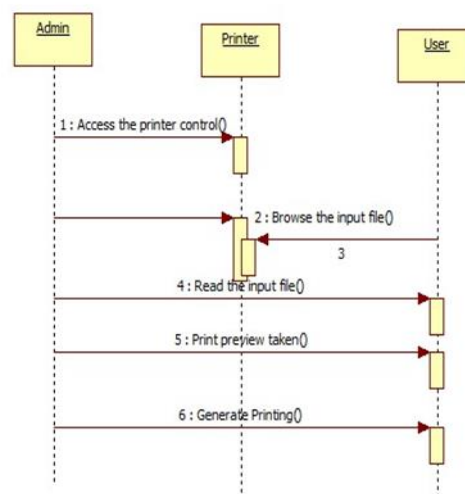
ACTIVITY DIAGRAM



COLLABORATIVE DIAGRAM



SEQUENCE DIAGRAM



5. CONCLUSION

Printing is delicate to text dimension's, configurations and hues. While printing there is a possibility of getting change in framework's Printer setup. To maintain a strategic distance from this issue, we are utilizing this method. In this task we made an application which prints the report in the setup made by the administrator. The setup is made in administrator's framework. Client can utilize the framework yet can't change the setup in the administrator. When we run this application, Irrespective of the text dimension's, organizations and shades of the record to be printed, it will be imprinted in the arrangement setup made in administrator's framework. The printing is like everybody who utilizes this. It is for the most part utilized as a part of the lodgings, theatres, shopping centers to print on same arrangement

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