
Designing and Development of Social Networking Site Using Dot .Net Technology

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Abstract—In today’s world’s every person belongs to at least one social networking site or another. It helps in a social network service focuses on building online communities of people who share interests and or activities, or who are interested in exploring the interests and activities of others. Most of the social network services are web based and provide a variety of ways for users to interact, such as e-mail and instant messaging services. This work is developed to create a social networking site keeping in mind of new fashion. For this ASP .NET(C# .NET) platform in front end and in back end SQLSERVER2000 were used.

Key words: Dot .NET Technology, ASP .NET, Social networking

I. INTRODUCTION

Social networking has encouraged new ways to communicate and share information. These websites Social networks have for several years been the toast of new media. Their principal strength has been an ability to gather tens of millions of unique users. Social networking sites have forever changed the landscape of the Internet; the use of social media is the latest obsession. Over 57% of the estimated 1 billion people who regularly access the Internet are part of a social networking site. Picture the entire populations of the US and Canada combined … well, that's the number of people who've signed up to meet and interact with others online. Everyday millions of people login to social networking sites to connect with high school classmates, hook up with old friends, stay in touch with family and create business contacts. Have you been missing out? Are you a business owner that has been underestimating and therefore underutilizing social media? Social networks have become deeply entrenched in our online consciousness; they are now a vital part of maintaining an online presence. They are vibrant, virtual neighborhoods that provide a platform where you can meet and communicate with persons from all across the world. If you think about the interconnectedness of the social networking culture you realize that the entire world is really only separated by six degrees! Consider this: If as a member of a social networking site you had 100 friends and you added all the friends in your friends’ contact lists, by the time you got to the third tier of friends your expanding circle numbers would number in the millions! In low tech style it would be similar to having the contact cards in all of your friends’ rolodexes.

Fig. 1: Social Networking Site Map

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

B. Enhanced Performance:
ASP.NET is compiled common language runtime code running on the server. Unlike its interpreted predecessors, ASP.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.

C. World-Class Tool Support:
The ASP.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.

D. Power and Flexibility:
Because ASP.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. ASP.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.

E. Simplicity:
ASP.NET makes it easy to perform common tasks, from simple form submission and client authentication to deployment and site configuration. For example, the ASP.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.

F. Manageability:
ASP.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.

G. Scalability and Availability:
ASP.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 by the ASP.NET runtime, so that if one misbehaves (leaks, deadlocks), a new process can be created in its place, which helps keep your application constantly available to handle requests.

**H. Customizability and Extensibility:**

ASP.NET delivers a well-factored architecture that allows developers to “plug-in” their code at the appropriate level. In fact, it is possible to extend or replace any subcomponent of the ASP.NET runtime with your own custom-written component. Implementing custom authentication or state services has never been easier.

**I. Security:**

With built in Windows authentication and per-application configuration, you can be assured that your applications are secure.

**II. TECHNOLOGIES**

**A. Technologies:**

- **Hardware**
  - Processor: Intel Pentium or more
  - Ram: 256 MB or more
  - Cache: 512 KB
  - Hard disk: 16 GB hard disk recommended for primary partition.

- **Software**
  - Operating system: Windows 2000 or later
  - Front End Software: ASP.NET (C#.NET)
  - Back End Software: Sqlserver 2000
  - Operating system: Windows 2000 or later

**III. DATA DEVELOPMENT ARCHITECTURE**

The development of social networking site have followed three tier architecture Data Tier is basically the server which stores all the application’s data. It contains Database Tables, XML Files and other means of storing application data. Business Tier is mainly working as the bridge between data tier and Presentation tier. All the data passes through the business tier before passing to the presentation tier. It is the sum of Business logic layer, data access layer and value object and other components used to add business logic. Presentation Tier is the tier in which the users interact with an application. Presentation Tier contents Shared UI code, Code Behind and Designers used to represent information to user. Social networks provide a means of making connections with people who have similar goals and interests.

**IV. SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC)**

SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software (Fig-).

**V. DATAFLOW DIAGRAM**

A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the
system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. The DFD shows flow of data, not of control loops and decision are controlled considerations do not appear on a DFD and does not indicate the time factor involved in any process whether the dataflow take place daily, weekly, monthly or yearly. The sequence of events is not brought out on the DFD.

A. Output Screen:

1) Log In Page:
This page is user entry page which have Sign in and Sign up option. The user have required Name ,age, status, mobile number and email to Sign Up.

VI. CONCLUSION

This project work has been successfully developed according to the user interest with some new features and to developed in a manner that it is user friendly and required help is provided at different levels. This work can be easily used in the process of networking. Different friend’s account can be created which help them to successfully communicate with each other and avail all the facilities present in the project and increases the company’s work standards as well as the economical state of the company.

A. Future Scope of The Project:
The project has met the standards required to work at a social networking site. If the requirement remains same the project can be ported to any organization with minor changes in the working procedure of the project. The project can be used as an availability to develop a project for a different company with different requirement wherein the commonalties in certain areas remain the same at any organizational level. By using the common features in future development the development time as well as the cost of development can be decreased considerably. We also can enhance the features of this site by adding some extra features like the settings for privacy policies, chat with friends & work group online, adding videos to profile etc. To modify the project to Dot net 2.0 and extending this functionality to mobile internet platform using mobile ASP.NET platform by which the restrictions of the software & hardware requirements can be scaled down, which is not possible using ASP.NET 1.0.

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