

## RESEARCH ARTICLE

**Quick Search Hospital - Website Development using ASP.Net**<sup>1</sup>Aniket Tyagi\*, <sup>2</sup>Vasudha Bahl<sup>1</sup>UG Student, Department of Information Technology, Maharaja Agrasen Institute of Technology, Delhi, India<sup>2</sup>Assistant Professor, Department of Information Technology, Maharaja Agrasen Institute of Technology, Delhi, India**Received on: 30/10/2016, Revised on: 30/12/2016, Accepted on: 25/01/2017****ABSTRACT**

Searching for hospitals in your nearest location can be a bit tiresome if one is new to that locality. There might be various good doctors who are popular in a particular locality but not so much on Google search. Hence to remove the doubt of good hospitals, the website, Quick Search Hospital, has been created. The main focus of the website is to provide users with all the needed information such as the various hospitals in the locality, the address of those hospitals, various doctors in it and many other features which makes the website more useful than traditional websites.

**Keywords:** Website, hospital search, nearby hospital, location identification**INTRODUCTION**

People, when enter a new location which is out of their comfort zone, find it difficult to locate shops and locations that might serve their needs. In this situation if a person faces a medical emergency, he/she will find it even more difficult to locate the nearest doctor down the block because that doctor is not on the Google map. To solve this problem, this website was created. The main aim of this website is to provide the users with location of their neighborhood doctors and provide all the contact information about them. It also provides the location of other major hospitals in that region and their respective information such as their location on the Google maps. Apart from this, the website provides features such as live chat, where users can help each other out and provide each other with necessary answers to questions they might have. It also provides various home remedies for certain issues such as headache, common cold etc.

**ASP.NET**

ASP.NET Web pages, known officially as Web Forms <sup>[1]</sup>, are the main building blocks for application development in ASP.NET <sup>[2]</sup>. There are two basic methodologies for Web Forms, a web application format and a web site format

<sup>[3]</sup>. Web applications need to be compiled before deployment, while web sites structures allow the user to copy the files directly to the server without prior compilation. Web forms are contained in files with a ".aspx" extension; these files typically contain static (X)HTML markup or component markup. The component markup can include server-side Web Controls and User Controls that have been defined in the framework or the web page. For example, a textbox component can be defined on a page as `<asp:textbox id='myid' runat='server'>`, which is rendered into a html input box. Additionally, dynamic code, which runs on the server, can be placed in a page within a block `<% -- dynamic code -- %>`, which is similar to other Web development technologies such as PHP, JSP, and ASP. With ASP.NET Framework 2.0, Microsoft introduced a new *code-behind* model that lets static text remain on the .aspx page, while dynamic code remains in an .aspx.vb or .aspx.cs or .aspx.fs file (depending on the programming language used)<sup>[4]</sup>.

**C#(C Sharp)**

C# (pronounced as *see sharp*) is a multi-paradigm programming language encompassing strong typing, imperative, declarative, functional, generic

**\*Corresponding Author:** Aniket Tyagi, Email: nkttg206@gmail.com

, object-oriented (class-based), and component-oriented programming disciplines. It was developed by Microsoft within its .NET initiative and later approved as a standard by Ecma (ECMA334) and ISO (ISO/IEC23270:2006). C# is one of the programming languages designed for the Common Language Infrastructure. C# is a general-purpose, object-oriented programming language [5]. Its development team is led by Anders Hejlsberg. The most recent version is C# 7.0 which was released in 2017 along with Visual Studio 2017 [6]. This project incorporates the use of C# in all the backend tasks that are being done by the users.

**SQL Server 2014**

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet). Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users [7].

**Proposed System and Implementation**

The proposed system is that the list of hospitals be made available to the users. There can be two types of web pages, one which will only have the main service provided that is the hospital search and the second is the one where the user will make his account with the website and can get access to various features which are provided in the website. There are various modules in the website. These include:

- Main.aspx
- Register.aspx
- Login.aspx
- Home.aspx
- Chat.aspx and Msg.aspx
- Upload.aspx
- Tips/FAQs.aspx

**1. Main.aspx:**

This page is responsible for providing the main feature of the website i.e. the hospital search without causing the user much hassle. This contains just a single web page where the user selects the city and

then the locality in that city to search for the hospital. The table which shows various hospitals in that region has a feature which allows the user to select that particular hospital and then get the list of doctors working in that hospital. The Google maps then show the location of those hospitals on the page and the user can navigate to that location.

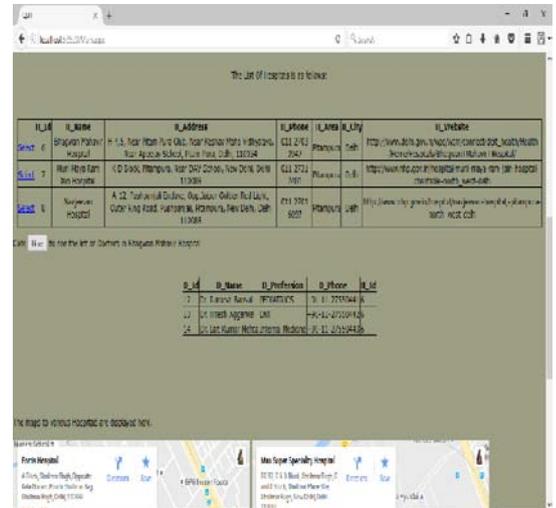


Fig 1: Working of the Main.aspx page

**2. Register.aspx:**

It's a basic registration page which requires the user to enter some of his details so that he can access the main website which provides with other features. All the data that the user entered is stored in the SQL server through the backend handled by C#.



Fig 2: Register.aspx

**3. Login.aspx:**

After the user has completed his registration, he is sent to the Login.aspx page. Here, the user is asked to enter his details, the username and password that he had entered during registration, and if correctly entered, he is redirected to the

AJCSE, Jan-Feb, 2017, Vol. 2, Issue 1

Home page with a session created for the login.

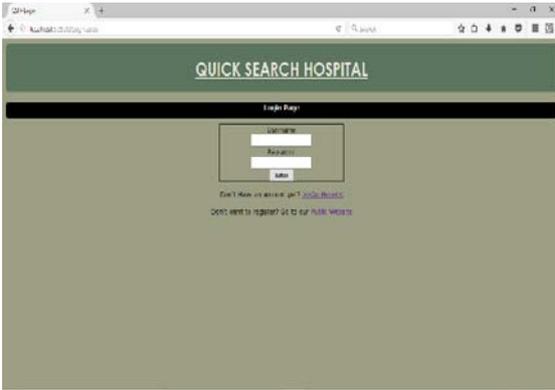


Fig 3: The Login.aspx page

4. Home.aspx:

The Homepage is pretty much similar to the Main page. Some additional information has been added to the page such as images of various hospitals, news related to various hospitals and the navigation bar which allows the user to navigate through various pages that he is provided with. There is also a session which is maintained with a log out button which allows the user to log out whenever he feels the need to.



Fig 4: The Home.aspx page

5. Chat.aspx and Msg.aspx:

The Chat.aspx and Msg.aspx are the web pages which work in synergy with each other. The chat page shows the user is logged into the chat and the Msg.aspx shows all the messages that are shared between the users who are sending the messages through the chat page. This allows the development of single or group chat allowing more than users to communicate at a time. The main purpose of this chat application was to allow users to talk to each other and take opinions or

help from others regarding various doubts they might have.



Fig 5: The chat between two separate users

6. Upload.aspx:

The upload.aspx page allows the user to upload his documents on the website so that they can be sent to the doctor he wants to send them to. It was created so that the documents can be easily sent and assessed by the doctor without the patient having to travel long distances. The uploaded documents can be re downloaded to see if the correct ones are uploaded or not.

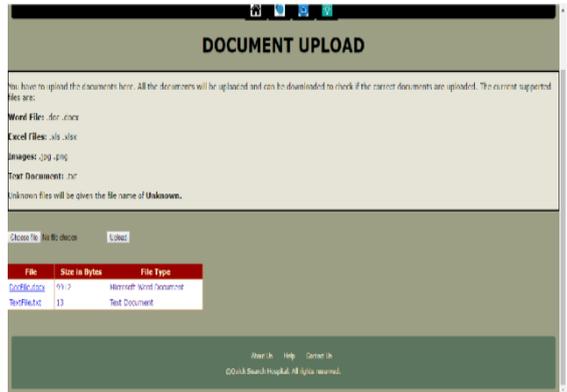


Fig 6: The working of Upload.aspx

7. Tips.aspx:

This web page is responsible for providing the user with various home remedies that will help him in curing basic diseases such as Headaches, nausea etc. Various links and video tutorials have also been provided so that they can watch it there and learn how to get those remedies. If the user cannot find the remedy they are looking for, they can enter their complaint by adding their information and what problems they faced on the page.

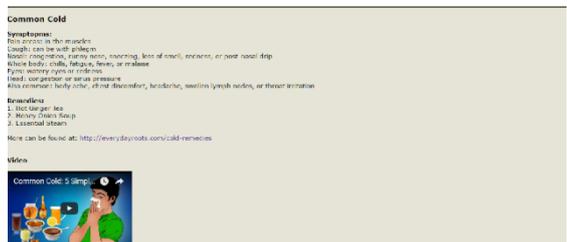


Fig 7: Tips.aspx

## CONCLUSION

The entire project aims to help the user search the hospitals with as much ease as possible and providing them with other features which will help them in the ease of the process. Keeping the website clean and simple allows quick load time and quick search results are generated. This project refines the working of the search function.

## REFERENCES

1. Staff (November 2001). "Overview of ASP.NET and Web Forms". Microsoft. Retrieved 2011-06-05.
2. (MacDonald & Szpuszta 2005, p. 63)
3. [https://msdn.microsoft.com/en-us/library/dd547590\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/dd547590(v=vs.110).aspx)
4. "Code Behind vs. Code Inline". Microsoft .NET Framework. Microsoft. Archived from the original on 11 November 2010. Retrieved 2010-11-22.
5. C# Language Specification (PDF) (4th ed.). Ecma International. June 2006. Retrieved January 26, 2012.
6. Lander, Rich (20 July 2015). "Top 10 C# 6.0 Language Features". .NET Blog. Microsoft.
7. [https://en.wikipedia.org/wiki/Microsoft\\_SQL\\_Server](https://en.wikipedia.org/wiki/Microsoft_SQL_Server)