Website Generator on Hospital Management System

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Abstract—*The main object of creating a website on "Hospital Management System" is to provide large no of facility to the patient and there family and detailed information about Doctors, patient reports and bills related details. I am providing the frames in my website generator for Hospital Management System.*

Keywords:—*Security Issues, Authentication, Authorization, Dot.Net Tools*

1. INTRODUCTION

Web application generator will actually be a website for the use of general public that is for corporate who wish to have a website of their own. We are creating a website builder in which a user can create a website without having any knowledge. We provide the frames for Hospital Management system which includes patient's registration, storing their detail into the system, and also computerized billing in the medicine pharmacy, and labs. My software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes search facility to know the current status of each room. Patients get the whole report in soft copy in mail id. As well as user can search availability of a doctor and the details of a patient using the id.

All the required modules and features have been particularly built to just fit in to your requirement. We are creating a website builder in which a user can create a website without having any knowledge. It is simplicated, user friendly and free of cost. The remarkable point in this project is that it will take input some sort of details you would like to publish on the website and along with this it would show you the various sort of templates that are available from which client can operate according to his wish and the details shall be then merged with this template to produce a website that can then be published by the client on any of the web server.

In information technology, a server is a computer program that provides services to other computer programs (and their users) in the same or other computers.[1] In the client/server programming model, a server is a program that awaits and fulfills request from client programs in the same or other computers. A given application in a computer may function as a client with requests for services from other programs and also as a server of requests from other programs. Specific to the Web, a Web server is the computer program (housed in a computer) that serves requested HTML pages or files. A Web client is the requesting program associated with the user. The Web browser in your computer is a client that requests HTML files from Web servers.

2. METHODOLOGY

i. DOT.NET Tools

The .NET Framework is a software framework developed by Microsoft that runs primarily on Microsoft Windows. It includes a large library and provides language interoperability (each language can use code written in other languages) across several programming languages.[2] It supports multiple language like HTML, c#, JavaScript, Ajax, CSS, XHTML, XML etc.

Microsoft .NET consists of four major components:

* Common Language Specification (CLS).
* Framework Class Library (FCL).
* Common Language Runtime (CLR).
* .NET Tools.

Common Language Specification (CLS):

The CLS is a common platform that integrates code and components from multiple .NET programming languages. In other words, a .NET application can be written in multiple programming languages with no extra work by the developer.

Framework Class Library (FCL):

The FCL is a collection of over 7000 classes and data types that enable .NET applications to read and write files, access databases, process XML, display a graphical user interface, draw graphics, use Web services, etc.

Common Language Runtime (CLR):

The Common Language Runtime serves as the execution engine of the .NET Framework. All .NET programs execute under the supervision of the CLR, guaranteeing certain properties and behaviors in the areas of memory management, security, and exception handling.

DOT.NET Tools:

Visual Studio .NET is Microsoft's tool for developing Windows software. Visual Studio provides an integrated development environment (IDE) for developers to create standalone Windows applications, interactive Web sites, Web applications, Mobile application and Web services running on any platform that supports DOT.NET.

ii. Security Issues

Most Web sites need to selectively restrict access to some portions to the site. You can think of a Web site as somewhat analogous to an art gallery. The gallery is open for the public to come in and browse, but there are certain parts of the facility, such as the business offices, that are accessible only to people with certain credentials, such as employees.

When a Web site stores its customers' credit card information in a database, for example, access to the database must be restricted. ASP.NET security features help you address this and many other security issues.[3] Developing more secure asp.net 2.0 Applications from Microsoft Press, is a little old book but still's an excellent reference for ASP.NET security developer.

ASP.NET controls access to site information by comparing authenticated credentials, or representations of them, to NTFS file system permissions or to an XML file that lists authorized users, authorized roles (groups), or authorized HTTP verbs.[4]

Security decisions should not rely on client-side validations they are made on the server side. A secure approach to exception management is identified. The application fails securely in the event of exceptions. Structured exception handling is used. Generic error pages with harmless messages are returned to the client. Free form input is sanitized to clean malicious data. Application does not rely only on request validation.

iii. Authentication, Authorization

Authentication is any process by which to verify that someone is who they claim they are. Authorization is any process by which someone is allowed to be where they want to go, or to have information that they want to have. This may involve conform to identify the person or software program, tracing the origins of an artifact, or ensuring that a product is what its packaging. Authentication often involves verifying the validity of at least one form of identification.
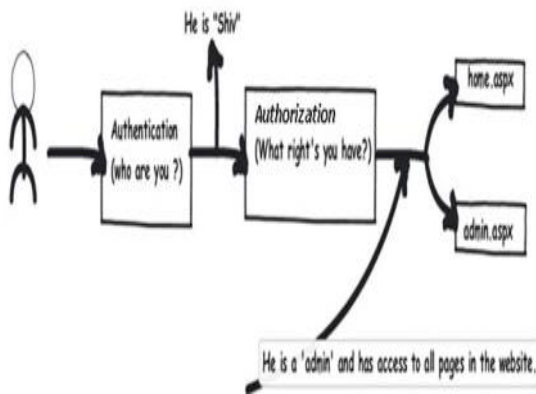

Figure 1: DFD for Authentication and Authorization

The same dictionary meaning applies to ASP.NET as well. In ASP.NET authentication means to identify the user or in other words it is nothing but to validate that he exists in your database and he is the proper user.

Authorization means does he have access to a particular resource on the IIS website.

3. EXPECTED OUTPUT

Figure 2: Generated Template for Web Page

4. CONCLUSION

Today maximum people know how to use internet. By using a website on hospital management system patient can directly interact with doctors, hospital details, check availability of doctors. It also provide large no of facility to the patient and there family and detailed information about Doctors, patient reports and bills related details.

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