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| **Patient Registration System**      **Version :1.0**      **Prepared By Inspected/Reviewed By Approved By**  **NAME: Uday**  **SIGNATURE:**  **DATE:** 16/10/2011 |

**VERSION HISTORY**

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| --- | --- | --- | --- |
| **Version No.** | **Date** | **Changed By** | **Changes Made** |
| 1.0 | 16/10/2011 | Uday | Base Version |
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# Patient Registration System

1. **Objectives**

The objective of this case study is to apply the learnt concepts and acquired skills. On completion of the case study participant should be able to:

* Create the required tables in SQL Server.
* Create stored procedures and triggers.
* Generate unique Application Id using index or sequence.
* Create web services.
* Maintain state management.
* Providing Authentication and authorization.

1. **Pre-requisites**

The participant should have

1. Knowledge of Normalization
2. Working knowledge of creating tables, views, stored procedures with Transact-SQL
3. Implementation Knowledge of SQL and Joins
4. Familiarization with Visual studio
5. Good knowledge of establishing connections with ADO.NET
6. 3-Tier implementation knowledge with web services
7. **Skills/concepts**

Participant should be able to demonstrate Database design, Coding and Testing skills.

with SQL \* Server, ASP.NET, ADO.NET and Web Services

Concepts – Normalization

1. **Duration in hours**

This is an individual case study and the duration is 24 hours (3 days)

1. **Scenario**

Dr. Charaka wanted to use Information Technology to help in managing his clinic. Dr. Charaka wants to have a web application [**www.drcharaka.com**](http://www.drFred.com) developed to manage Patient appointments through this web application. Dr. Charaka wants the patients to register by using this application and seek an appointment for a specific day. The application confirms the appointment to the patients immediately on submission of their data.

**Admin:**  An authorized person who creates the login details of the user as well provides Organization details.

**Operator:** Any person who visits the site to register the patient details there by allocating accommodation and generating the bill.

**Patient:** One who visits the hospital for treatment.

**Doctor:** One who gives treatment to the patient

Features:

* Should have a home page displaying the doctor’s specialization, his qualifications and the meritorious services provided by him.
* The system should have Help screen displaying various features of system in Q and A format.
* The system should have a screen to request for an appointment with a doctor by his specialization through a registration form with proper validations.
* Hence a unique registration number or id must be generated upon complete registration.
* Should have a login page through which a registered patient can seek an appointment.
* The registration form should be properly validated to accept and store all the necessary data feeded.
* The system should also check for the appropriate time slot to be assigned for an appointment.
* The application should check if the required appointment time is FREE (the doctor wants to have 30 min to spend with each patient; he works for only 6 hr in a day; 10 am to 1 pm and then 6 pm to 9 pm from Monday to Saturday in a week) and assigns a number to the patient if it is available.
* If the required time slot is NOT FREE, the application should recommend the patient to seek another appointment date time.

1. **Resources(hardware and software)**

Environment : Net Framework, Visual Studio 2005

Operating System : Windows

Programming Language : C#/VB

Scripting Language : Java Script

Database : SQL Server 2005

1. **Deliverables**

* Unit Tested Source code.
* Proper time slot to be allotted (30 mins)
* Report as per the case study requirement.
* The PATIENTS\_MASTER table has to be created.
* The code submitted should have taken care of the common mistakes.

1. **Common mistakes**

* Giving incorrect data type and length while creating Table.
* Trying to create Table without mentioning the database and Table space name.
* Trying to insert data into table without Creating Unique index.
* Not following the Coding standards.

1. **Check list for deliverables**

* Refer to checklist for deliverables

1. **Reflection upon learning**

* Discussion on alternate solution provided by others.
* Lessons learnt

1. **References**

* ASP.NET 2.0 by Wrox Publication.
* SQL Server 2005 by Wrox Publication.