

OFFICE AUTOMATION SYSTEM FOR RATNAPURA LABORATORY (MEDICAL LAB)

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ABSTRACT

The medical sector is one of the most important of the community which the lives of individuals depend on. The development of medical services is often the dividing line between life and death, so I'll made depth study of this sector and started working on the development of systems of sections of this important sector, and the results of an Office Automation system.

Ratnapura Laboratory (Medical Lab) is famous and successful medical lab in Ratnapura district. It is very busy place. It has several branches spread in that area. They face lot of troubles because keep in record manually and salary calculation manually. Therefore with this project I endeavor to improve and maintain the quality and efficiency of the processes done by this Medical Lab. Also proposed windows based solution for important parties to access the medical records and maintain office information. The entire system divides in to several sub systems which are namely Sample Information, Branch Information, Patient Information, Employee Information, Payroll Information and Finance Information. This project covers the whole functionality of the one branch of the firm with providing better access control mechanism.

System is going to develop according to the Waterfall Life Cycle Model and also address the Object Oriented Techniques. Unified Modeling Language was used to analyze and design the system properly. Visual Studio 2010 & ADO.net 4.0 are used to implement the system in C# language with the help of Microsoft SQL Server 2008 R2 Database server in the windows environment.

Proper achievement of the goals and objectives of a Medical Laboratory heavily depends on better sample and result information control mechanism. Office related information also must be efficiency for this firm successfulness. Through achieving functional and nonfunctional requirements of the project, this system will give a smooth functioning procedure with user friendly environment. Hence I believe that the project work will engage a better and efficient working environment in Medical Laboratory.