# SYNOPSIS

# ONLINE CLINIC MANAGEMENT SYSTEM

# Project Details:

## Introduction

**Title of the Project** : **Online clinic management system**

**Objectives** : The main objective is to develop the software that covers all theaspects of management and operations of clinics. It enables healthcare providers to improve operational effectiveness, reduce costs, reduce medical errors, reduce time consumption and enhance delivery of quality of care.

## Project category

**Web-Based Software**

## Languages to be used:

**Front End: PHP**

PHP is a server-side, cross-platform, HTML-embedded scripting language. PHP (recursive acronym for *PHP: Hypertext Preprocessor*) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

Currently there are over half a million domains running PHP.Much of PHP's syntax is borrowed from C, Java and Pearl with a couple of unique PHP-specific features thrown in. The goal of the language is to allow web developers to write dynamically generated pages quickly. PHP eliminates the need for numerous small cgi programs by allowing you to place simple scripts directly in your HTML files. It also makes it easier to manage large web sites by placing all components of a web page in a single html file.

PHP is mainly focused on server-side scripting, so you can do anything any other CGI program can do, such as collect form data, generate dynamic page content, or send and receive cookies.

PHP can be used on all major operating systems, including Linux, many Unix variants (including HP-UX, Solaris and OpenBSD), Microsoft Windows, Mac OS X, RISC OS, and probably others. PHP has also support for most of the web servers today.

One of the strongest and most significant features in PHP is its support for a wide

range of databases. Writing a database-enabled web page is incredibly simple using one of the database specific extensions (e.g., for mysql), or using an abstraction layer like PDO, or connect to any database supporting the Open Database Connection standard via the ODBC extension. Other databases may utilize URL or sockets, like Couch DB.

**Back End: MySQL**

MySQL is the world's most popular open source database software, with over 100 million copies of its software downloaded or distributed throughout it's history. With its superior speed, reliability, and ease of use, MySQL has become the preferred choice for Web, Web 2.0, SaaS, ISV, Telecom companies and forward-thinking corporate IT Managers because it eliminates the major problems associated with downtime, maintenance and administration for modern, online applications.

MySQL is a open source Relational Database Manage.ment System. MySQL is very fast reliable and flexible Database Management System. It provides a very high performance and it is multi-threaded and multi user Relational Database management system.

MySQL is one of the most popular relational database Management System on the web. The MySQL Database has become the world's most popular open source Database, because it is free and available on almost all the platforms. The MySQL can run on Unix , window, and Mac OS. MySQL is used for the internet applications as it provides good speed and is very secure. MySQL was developed to manage large volumes of data at very high speed to overcome the problems of existing solutions. MySQL can be used for variety of applications but it is mostly used for the web applications on the internet.

**Application Server: Xampp Server**

XAMPP is a free and open sourcecross-platformweb serversolution stack package, consisting mainly of the Apache HTTP Server, MySQLdatabase, and interpreters for scripts written in the PHP and Perlprogramming languages.

XAMPP's name is an acronym for- X (to be read as "cross", meaning cross-platform),Apache HTTP Server,MySQL,PHP,Perl.

The program is released under the terms of the GNU General Public License and acts as a free web server capable of serving dynamic pages. XAMPP is available for Microsoft

Windows, Linux, Solaris, and Mac OS X, and is mainly used for web development projects. This software is useful while you are creating dynamic webpages using programming languages like PHP, JSP, Servlets.

Requirements and features: XAMPP requires only one zip, tar, 7z, or exe file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. XAMPP is regularly updated to incorporate the latest releases of Apache/MySQL/PHP and Perl. It also comes with a number of other modules including OpenSSL and phpMyAdmin.

Installing XAMPP takes less time than installing each of its components separately. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another. It is offered in both a full, standard version and a smaller version.

Use: Officially, XAMPP's designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default. In practice, however, XAMPP is sometimes used to actually serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package.

## IDE: (Integrated Development Environment)

An integrated development environment (IDE) (also known as integrated design environment, integrated debugging environment or interactive development environment) is a software application that provides comprehensive facilities to computer programmers for software development. An IDE normally consists of:

- a source code editor
- a compiler and/or an interpreter
- build automation tools
- a debugger

The boundary between an integrated development environment and other parts of the broader software development environment is not well-defined. Sometimes a version control system and various tools are integrated to simplify the construction of a GUI. Many modern IDEs also have a class browser, an object inspector, and a class hierarchydiagram, for use with object-oriented software development.

We are using **Dreamweaver** as an IDE

## Software to be used in Project:

| | |
|---|---|
| **Front End** | : PHP |
| **Back End** | : My SQL |
| **Application Server** | : Xampp Server |
| **Operating System** | : Windows, Linux. |

## Hardware Requirements of the Project:

| | |
|---|---|
| **Processor** | : Pentium-4 or above |
| **Processor Speed** | : 2.00 GHz CPU |
| **RAM** | : 512 MB or above |
| **Hard Disk Utilization** | : 40 GB or above |

## Structure of the Program:

PolyClinic is web based application which covers all aspects of management and operations of clinics. This website covers features of Doctors Details, Patients Records, Online appointments, Patient reports, billings, Clinical tests, Medical store billings etc.

The project supports to administrator to access complete application, Patient takes appointment through Online/Offline, Doctors manages patient reports, Receptionist approves patient's appointment and makes bill, and medical Store Administrator can view suggested prescription.

Each patients of the Polyclinic has a unique patient ID and password. By entering User ID and password patient can login to the polyclinic website and patient can view Appointment details, Patient reports, clinical tests, Billing, etc.

**Speciality of health care center:**

- Endoscopic Snus Surgery
- Micro-Ear Surgery

- Micro-Laryngeal Surgery
- Laser ENT Surgery
- Thyroid Surgery

**Facilities provided by health care center :**

- Consultation of 21 different specialists
- Full-Fledged Laboratory & Diagnosis center
- ECG & TMT facility
- Ultrasonography
- Digital X-ray
- Pulmonary Function Test

Over the years Arogya Multi speciality clinic as shown tremendous interest and services towards public by conducting serveral camps like diabetic camp, cancer camp, joint pain camp to bring awareness among the masses. And it also provides a medical check-up facility called 'Arogya Check-up' for a comprehensive Health check upprogramme. In future rural camps will be conducted by the ArogyaMultispeciality doctors for the benefit of poor patients.

## Future Scope of the Project:

SMS features: If patient takes appointment or treatment SMS goes to Patients Cell Phone.

Medical Store: Medical Store Administrator can view suggested prescription through online by entering polyclinic patient ID.

- Patients can view reports, billing, etc
- Consumes less time and reduces human errors.
- Doctors can view patient's old reports.
- Medical store administrator can view suggested prescription through online by entering patients ID.
- User friendly.