

# Centralized Medical System

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## ABSTRACT

Online Medical system is a web portal where doctors do the task of providing online treatment to the patients in hospital. In this porch, diseases, symptoms, exact diagnosis with treatment and diet control are uploaded by the doctors. By selecting symptoms, treatment could be done. After the payment, he/she gets prescription with the nearby medical store details then by choosing appropriate medical store patient gets home delivery of medicines. Patients can access our service on PCs, Laptops, mobiles etc.

## Keywords

Software development life cycle, Information management system

## 1. INTRODUCTION

The paper entitled “**Med Online System**” is web application for the medical industry where every Medical entity can interact with each other to get better solution for the Medical Issues. According to the application user can search their desire among different options to get best solution at any time anywhere. Service-Oriented Architecture (SOA) provides a platform to offer, detect, relate with and use capabilities to produce desired effects constant with measurable preconditions and hopes. It is believed that SOA can help businesses react more quickly and efficiently with respect to change in market conditions. SOA is software system architecture. It enables various applications’ components to connect with each other through well-defined programming interfaces. Those interfaces include software/hardware platform, programming language-independent etc. The most famous SOA implementation uses the Web services protocol stack. These services are mainly described by platform-independent XML documents, such that the Web Services Description Language (WSDL).

## 2. OBJECTIVE & SCOPE

To automate the existing manual process i.e. Doctor/Hospital Appointment, Medicine purchase, Home Remedies, Instant Medical Help etc. It plays a vital role to get correct information at the time of Quick Decision Making. Everybody knows that only hospitals are the only hope where they know they’ll get a familiar touch. It connects them with everything they need to take care of themselves and their family - assessing health problems, booking diagnostic tests, finding the right doctor obtaining medicines, retrieving health records or learning new ways to live healthier.

## 3. METHODOLOGY

The purpose of paper development methodology is to offer standard guidelines to ensure that business information technology paper takes place in a disciplined, well-managed and consistent manner that upholds the delivery of quality products and paper’s result that is completed on time interval and within budget. This fits in the overall Software Development Life-Cycle (SDLC) which is conceptually shown in the figure given below:

Software development life cycle (SDLC) is a chain of phases that serve a common understanding of the software building process. The software will be examined and improved from the business understanding and needs to convert that into functions, features and characteristics until its operation achieve the business requirements. A real software engineer should have a proper knowledge on how to choose the SDLC model according to the context and the business requirements.

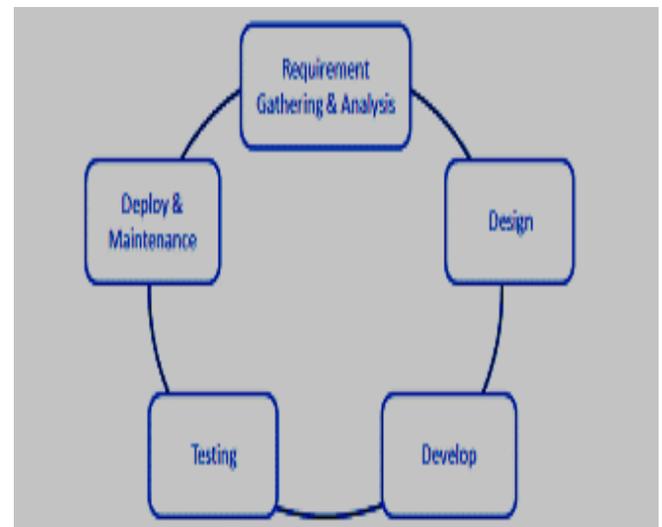


Figure 1: Software Development Life-Cycle (SDLC) methodology

## 4. RESULTS

### 4.1 ER-DIAGRAM

An entity relationship diagram (ERD) shows the bonding of entity sets stored in a database. Here entity is a branch of data. Diagrams explain the logical scenario of databases. An entity relationship diagram is defined as the meaning of visualization

on how the information of a system produces is related to each other.

**4.2 ENTITY**

They are shown by rectangles. An entity is a concept or an object which has its presence in this modern world. It consists of all the things about which the data is collected. A weak entity is an entity that is defined by a foreign key relationship with another entity as it cannot be uniquely recognized by its own attributes.

**4.3 ATTRIBUTES**

They are shown by ovals. A key attribute is the unique with different features of the entity. Let us take an example, an

employee's social private number can also be the employee's key attribute.

**4.5 AN ENTITY SET**

It consists of a set of entities of related type that share the alike properties, or attributes.

**4.6 PROCESS**

A process shows a alternation or improvisation of data moving within the system.

**4.7 ACTIONS**

Which are shown by diamond shapes, representing that how two entities will share information in that database.

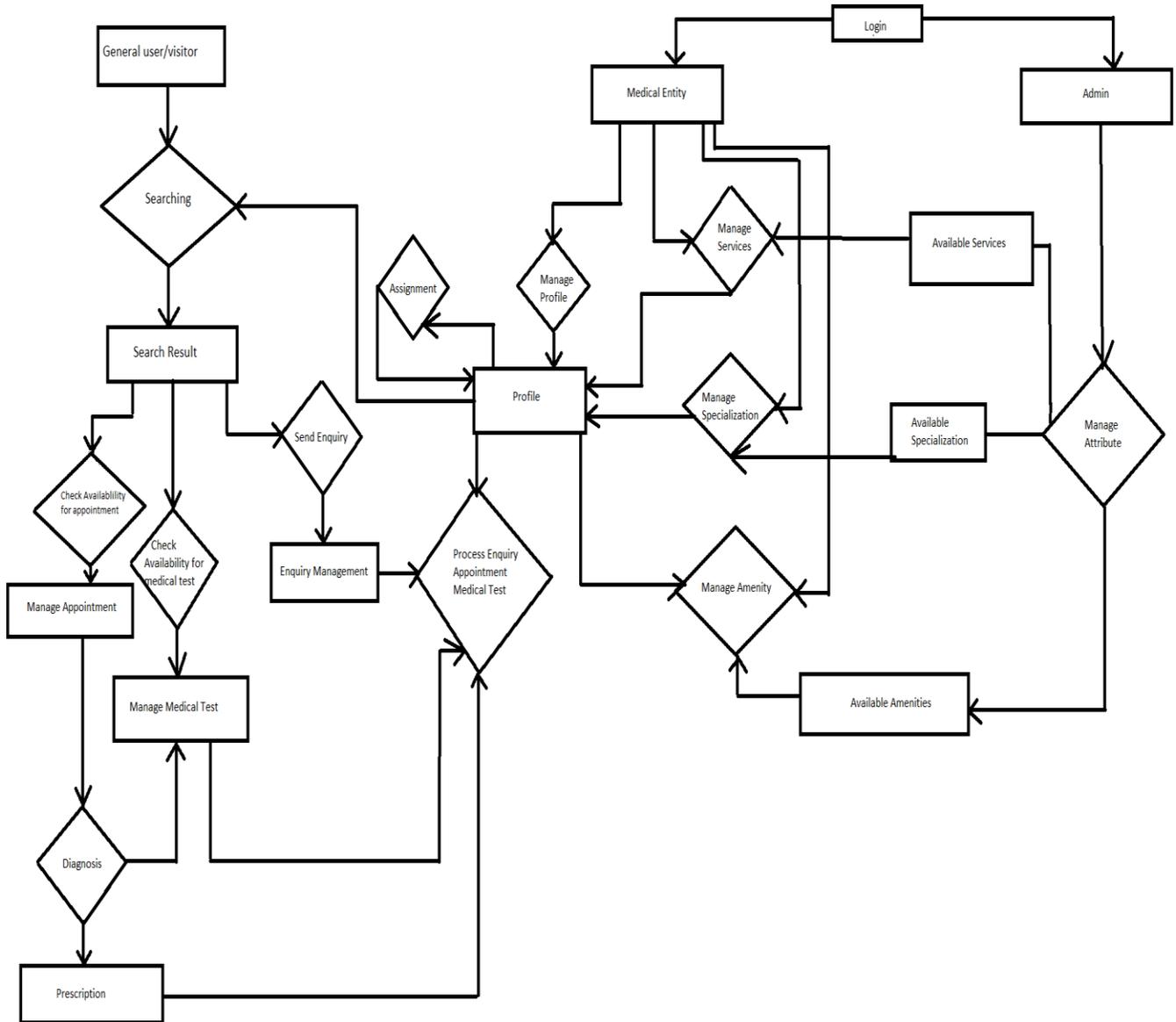


Figure 2: Relationships of entity sets

## 5. DATA FLOW DIAGRAM

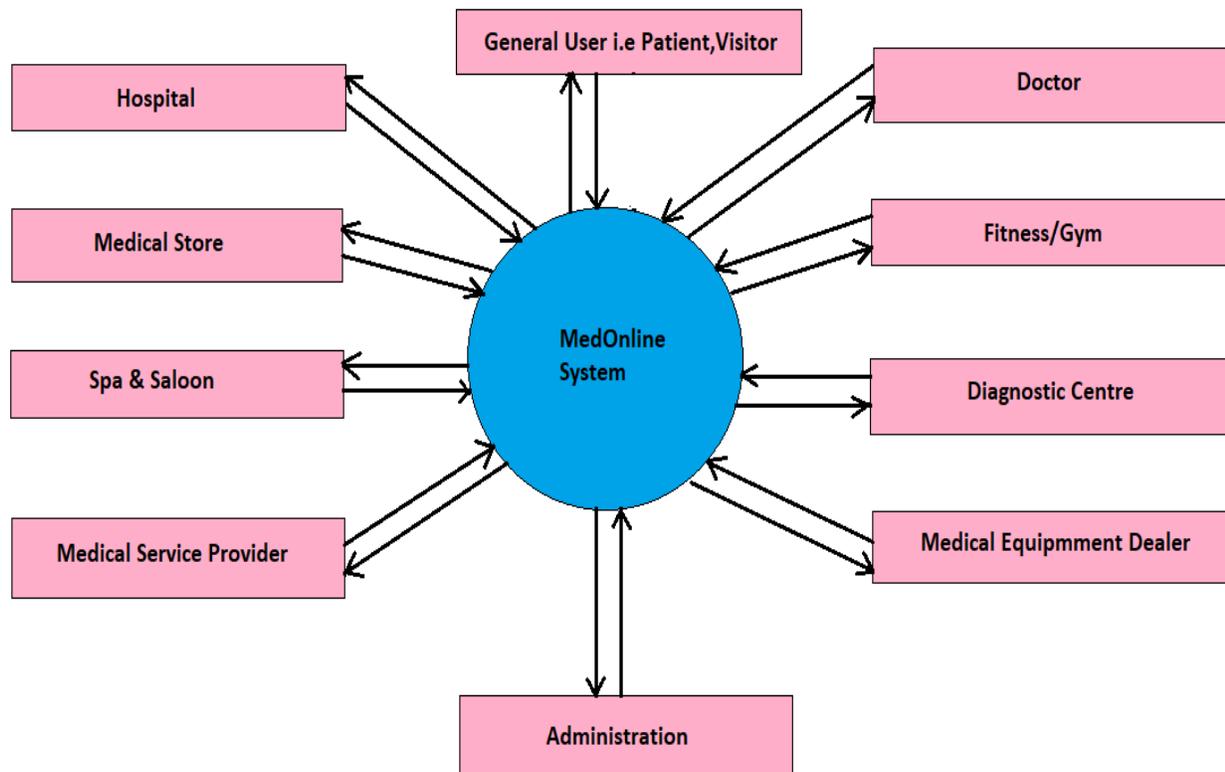


Figure 3: Data flows within the system

## 6. CONCLUSION

“Med Online” is a website and an online medical system which is valuable for doctors as well as the patients. Admin perform their business by getting 10% of doctor fees.

- Medical stores get online deals by offering home delivery of medicines to the patients. Thus long process and paper work can be neglected.
- Most of the time, hospitals order their medical tools from mobile phones such as oxygen cylinders etc. But by using our website, medical equipments can be ordered online.

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