**UML DIAGRAMS**

UML stands for Unified Modeling Language. UML is a standardized general-purpose modeling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group.

The goal is for UML to become a common language for creating models of object oriented computer software. In its current form UML is comprised of two major components: a Meta-model and a notation. In the future, some form of method or process may also be added to; or associated with, UML.

The Unified Modeling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software system, as well as for business modeling and other non-software systems.

The UML represents a collection of best engineering practices that have proven successful in the modeling of large and complex systems.

The UML is a very important part of developing objects oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects.

**GOALS:**

The Primary goals in the design of the UML are as follows:

1. Provide users a ready-to-use, expressive visual modeling Language so that they can develop and exchange meaningful models.
2. Provide extendibility and specialization mechanisms to extend the core concepts.
3. Be independent of particular programming languages and development process.
4. Provide a formal basis for understanding the modeling language.
5. Encourage the growth of OO tools market.
6. Support higher level development concepts such as collaborations, frameworks, patterns and components.
7. Integrate best practices.

**USE CASE DIAGRAM:**

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted.

Admin

Doctor

Receptionist

**SEQUENCE DIAGRAM:**

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. Sequence diagrams are sometimes called event diagrams, event scenarios, and timing diagrams.

SERVICE

Registration

View Profile

Add / View Appointment

USER

Add / View / Edit Consulting Details

Update Consultation Details

Send Notification

DATA BASE

Response Registration

Request Registration

Request View Profile

Response View Profile

Request Add/View Appointment

Response Add/View Appointment

Request Consulting Details

Response Consulting Details

Request Notification

Response Notification

**ACTIVITY DIAGRAM:**

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

**User Activity Diagram**

LOGIN

View profile

View Appointments

View Doctor

Add / Edit Appointment

Send Notification

Request View Profile

Response View Profile

Request View Appointment

Response View Appointment

Request View Doctor

Response View Doctor

Request Add / Edit Appointment

Response Add / Edit Appointment

Request Send Notification

Response Send Notification

**Admin Activity Diagram**

LOGIN

View Users Details

Add Users

Edit Users

View Patient Appointment

Request User Details

Response User Details

Request Add User

Response Add User

Request Edit User

Response Edit User

Request View Patient Appointment

Response View Patient Appointment

SERVICE

View Users Details

Admin

Add Users

Edit Users

View Patient Appointments

DATA BASE

Request User Details

Response User Details

Request Add User

Request Edit User

Response Add User

Request View Patient Appointment

Response Edit User

Response View Patient Appointment