**Chapter 3: System analysis**

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**Chapter3**

**System analysis**

**Here is a detailed knowledge about the analysis of the project.**

**3.1 Introduction about system Analysis:**

Systems development is systematic process which includes phases such as planning, analysis, design, deployment, and maintenance. Here, in this tutorial, we will primarily focus on −

* Systems analysis
* Systems design

It is a process of collecting and interpreting facts, identifying the problems, and decomposition of a system into its components.

System analysis is conducted for the purpose of studying a system or its parts in order to identify its objectives. It is a problem solving technique that improves the system and ensures that all the components of the system work efficiently to accomplish their purpose.

Analysis specifies **what the system should do**.

**There are 3 methods for developing a system: Structured Analysis-SDLC-, Object oriented Analysis, Agile Analysis.**

**We’ll use the structured Analysis method in our project.**

**3.2 System development life cycle (SDLC):**

Diagram

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**Figure (3.1): System development life cycle**

The [System](https://cio-wiki.org/wiki/System) Development Life Cycle is a [process](https://cio-wiki.org/wiki/Process) that involves conceptualizing, building, implementing, and improving [hardware](https://cio-wiki.org/wiki/Hardware), software, or both. The System Development Life Cycle must take into consideration both the end user requirements and security concerns throughout all its phases. From banking to gaming, transportation to healthcare, the System Development Life Cycle is applicable to any field that requires computerized systems.

The systems development life cycle (SDLC) is a conceptual [model](https://cio-wiki.org/wiki/Model) used in project [management](https://cio-wiki.org/wiki/Management) that describes the stages involved in an information system development project, from an initial feasibility study through maintenance of the completed [application](https://cio-wiki.org/wiki/Application). SDLC can apply to technical and non-technical systems. In most use cases, a system is an IT technology such as hardware and software. Project and program managers typically take part in SDLC, along with system and software engineers, development teams and end-users. Every hardware or software system will go through a development process which can be thought as an iterative process with multiple steps. SDLC is used to give a rigid structure and [framework](https://cio-wiki.org/wiki/Framework) to define the phases and steps involved in the development of a system. SDLC is also an abbreviation for Synchronous [Data](https://cio-wiki.org/wiki/Data) Link [Control](https://cio-wiki.org/wiki/Control) and software development life cycle. Software development life cycle is a very similar process to systems development life cycle, but it focuses exclusively on the development life cycle of software.

**3.3 Requirements:**

**Functional Needs:(Registration Process of Software Requirements Specification)**

**Purpose**

The purpose is to describe all the requirements for the Hospital Management System. The following are some of the stake holders:

* Administrative staff.
* Doctors.
* Patient.
* Visitors.
* Receptionist.
  + 1. **Functional Requirements:**
* **Adding Patients:**The Hospital Management allows the team in the front work desk to consist of brand-new clients to the system. They can Sign up on Website need Activation
* **Activation an ID to the patient**: The HMS enables the personnel in the front work desk to give an one-of-a-kind ID for each and every individual and then include them to the record sheet of the individual. The individuals can use the ID throughout their medical facility keep.
* **Deleting Patient**: The Top Manger of the Hospital can delete the patient from the system
* **Emergency Case:** In an emergency case, the administrative staff shall usesystem to assign an emergency room, doctors andnurses to the patient immediately.
* **Record procedure:** The whole treatment procedure for the patient shall be recorded by the system.

**Database**

* **Patient Mandatory Information**

Each patient shall have the following mandatory information: first name, last name, phone number, personal health number, address, postal code, city, country, patient identification number.

* **Update Patient Information**

The system shall allow the user to update any of the patient’s information.

* **Search for Patient**

The system shall allow the user to search for patient’s information by last name or PHN or National ID.

* **Staff Mandatory Information**

Each staff in hospital shall have the following mandatory information: identification number, first name, last name, phone number, address, postal code, city, country, employee type, duty schedule.

**3.3.2 Non-functional**

Requirements can be used to improve the functioning of the computer system, but not the management of the hospital as a whole:

* Safety
* Security
* Efficiency
* Maintainability
* Dependability
* Availability

1. **Safety:**

**Patient Recognition**: The system requires the individual to acknowledge herself or himself making use of the phone.

**Logon ID**: Any kind of customers that utilize the system require to hold a Logon ID as well as password.

**Alterations**: Any adjustments like insert, erase, update, etc. for the data source can be integrated promptly as well as executed only by the manager

**Administrator legal rights**: The manager can consider as well as alter any kind of info in the Health center Management System.

1. **Efficiency:**

Action Time: The system offers acknowledgment in simply one 2nd once the ‘individual’s details is inspected.

 Capacity: The system needs to sustain at the very least 1,000,000,000 individuals at once. And more in feature.

 Consistency: The system requires to make certain that the standards of the accessibilities are complied with.

1. **Maintainability:**

Back-Up: The system uses the efficiency servers for data back up.

Growing up: Using Evolution term to define the dynamic growth.

Mistakes: The system will certainly track every mistake along with maintain a log of it.

Feedback: Analysis Feedback from System Performance & Data.

1. **Integrity**:

Schedule: The system is offered constantly evolution.

Database: Related on (Website – Mobile – Desk).

1. **Security**:

**Logon ID** Any user who uses the system shall have a Logon ID and

Password.

1. **Modification:**

Any modification (insert, delete, update) for the Database shall be synchronized and done only by the administrator in the ward.

1. **Front Desk staff Rights:**

Front Desk staff shall be able to view all information in system, add new patients to system but shall not be able to modify any information in it.

1. **Administrators**' **Rights:**

Administrators shall be able to view and modify all information in system.

1. **Availability:**

The system shall be available all the time.

**3.4 UML Diagrams:**

**3.4.1** **Unified Modelling Language (UML)** is a modeling language in the field of software engineering which aims to set standard ways to visualize the design of a system. UML guides the creation of multiple types of diagrams such as interaction, structure and behavior diagrams.

* Structure Diagrams

[Class Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ClassDiagram)

* Behavioral Diagrams
  + [Use Case Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#UseCaseDiagram)
  + [Activity Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#ActivityDiagram)
  + [Sequence Diagram](https://creately.com/blog/diagrams/uml-diagram-types-examples/#SequenceDiagram)

**3.4.2 Data flow diagrams (DFDs):**

Data flow diagram is traditional visual representation of the information flows within a system. By creating a Data Flow Diagram, you can tell the information provided by and delivered to someone who takes part in system processes, the information needed in order to complete the processes and the information needed to be stored and accessed.

**3.4.3 Context Diagram:**

A context diagram is a data flow diagram, with only one massive central process that subsumes everything inside the scope of the system. It shows how the system will receive and send data flows to the external entities involved

**Symbols and Notations:**

**Entity/Source:**

**Represent a human, system or subsystem, we can show the entity as shapes in figure (3.2) or figure (3.3):**

**Figure (3.2): Entity Rectangle Symbol**

**OR**

**Figure (3.3): Entity Rounded Corners Rectangle Symbol**

**Process**:

**Business activity or function where the manipulation and transformation of data takes place, we present the process using these shapes shown in figure (3.4) or figure (3.5):**

**Figure (3.4): process Circle**

**OR**

**Figure (3.5): process symbol**

**Data flow:**

**Represents the flow of information, with its direction represented by an arrow head that shows at the end(s) of flow connector. Figure (3.6) shows the arrow used to represent the data flow through system.**

**Figure (3.6): Data flow Symbol**

Diagram

Description automatically generated

In this data flow diagram you will see the general process done in Hospital management. This will also serve as a guide as you go through the deeper processes of the Hospital management system data flow diagrams.

when you build the levels of data flow diagrams, the connections of the transactions and data also broadens and gets more specific. DFD for Hospital Management System Level 1 Next to the context diagram is the level 1 data flow diagram. The content of Hospital management system DFD level 1 must be single process node from the context diagram and is broken down into sub processes In this level,

the system must display or reveal further processing information. And the actors that are going to use this system is were the patients, hospital administrator and the hospital employees.

### The following are the flows that the System can generate:

### Managing Patient

### Assigning Medicine

### Managing Employees /Doctors

### Assigning Facilities

* **DFD for Hospital Management System Level 0**

To start with, let us familiarize what is Hospital management system level 0.  
  
The hospital management system level 0 is also known as context diagram. It’s supposed to be an abstract view, with the mechanism represented as a single process with external parties.  
  
This DFD for the system depicts the overall structure as a single bubble. It comes with incoming/outgoing indicators showing input and output data.

**Level 0**

Diagram

Description automatically generated**Figure (3.7): Context Diagram level 0**

* **DFD for Hospital Management System Level 1**

Next to the context diagram is the level 1 data flow diagram.  
  
The content of Hospital management system DFD level 1 must be single process node from the context diagram and is broken down into sub processes.  
  
In this level, the system must display or reveal further processing information. And the actors that are going to use this system is were the patients, hospital administrator and the hospital employees.

The following are essential data to accommodate:  
• Patient Information.  
• Employees Information.  
• Medicines.  
• Facilities.

**Level 1**

Diagram

Description automatically generated**Figure (3.8): Context Diagram level 1**

These procedures require information such as a list of patients, medicines, employees/doctors, and facilities from which served as the bases for admin to manage hospital transactions. This type of data is represented by a data store.  
  
With being knowledgeable about the DFD level 1 of the Hospital Management System, you will know then its broaden context terms.  
  
In addition to that, this may also serve as your reference on how the inputs or data fed on the system. Then you will be also informed about the outputs that the system gives.  
  
These processes shown in the DFD were all based on the concept of Hospital Management System.

* **DFD for Hospital Management System Level 2**

After presenting the Hospital management system DFD levels 0 and 1, next to that is level 2.  
  
Here’s what you need to consider in creating data flow diagram level 2 for Hospital management system.

• The Level 2 DFD for the system should represent the basic modules as well as data flow between them.

• Since the DFD level 2 is the highest abstraction level, its Hospital management system processes must be detailed that is based on the DFD level 1.

Finally, after figuring the processes given in the system, the user will now have their request being processed.  
  
The Processes that the system should prioritize are as follows:  
• Managing Patient  
• Assigning Medicine  
• Managing Employees/Doctors  
• Assigning Facilities

**Level 2**

Diagram

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**Figure (3.9): Context Diagram level 2**

**Use Case**:

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements.

A [**use case diagram**](https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-use-case-diagram/) models different types of users interact with the system to solve a problem. As such, it describes the goals of the users, the interactions between the users and the system, and the required behavior of the system in satisfying these goals.

[**Use cases**](https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-use-case-diagram/) define interactions between external actors and the system to attain particular goals. A use case diagram contains four main components

it consists of a number of model elements. The most important model elements are:

**Actor**

Actors are usually individuals involved with the system defined according to their roles. The actor can be a human or other external system as **Show in figure (3.10)**

**Figure (3.10): actor symbol**

**system boundary:**

The system boundary defines the system of interest in relation to the world around it, **its symbol show in figure (3.11).**

**Figure (3.11): system boundary**

**Operation:**

Function that done by actor, its symbol shown in Figure (3.12).

Figure (3.12): operation symbol

**Relationships**

The relationships between and among the actors and the use cases.

**Association: link between an actor and the use case.**

**Its symbol show in figure (3.13)**

Figure (3.13): association relation symbol

**Generalization: relationship between one general operation and one specific operation, its symbol show in figure (3.14).**

Figure (3.14): generalization relation symbol

**The head of arrow toward the parent operation**

**<<include>> Use Case**

The time to use the <<include>> relationship is after you have completed the first cut description of all your main Use Cases. You can now look at the Use Cases and identify common sequences of user-system interaction. **its symbol show in figure (3.15).**

**Figure (3.15): include relation**

**The head of arrow toward the child use case -operation-**

**<<extend>> Use Case**

An extending use case is, effectively, an alternate course of the base use case. The <<extend>> use case accomplishes this by conceptually inserting additional action sequences into the base use-case sequence**, its symbol show in figure (3.16).**

Figure (3.16): extend relation symbol

**The head of arrow is toward the parent-base-use case.**

Hospital management system use case diagram has 5 actor deal with the system (patient, physician/doctor, Admin, receptionist, pharmacist) and has 4 process done between patient and physician through the system , where admin has 6 process in system such as (add doctor , and receptionist, add history, and patient) as shown in figure(3.17 & 3.18) .

**![Diagram

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TkURXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjAzOjI0IDAxOjAzOjQ5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1MwAAkpIAAgAAAAM1MwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AuMC4xMDAxMS4xNjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDIxLTAzLTIzVDIyOjEwOjAyLjUyOTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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Figure (3.17): use case diagram

![Diagram

Description automatically 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Figure (3.18): use case diagram

**3.4.4 Sequence Diagrams**

**Sequence Diagrams**   
A sequence diagram simply depicts interaction between objects in a sequential order i.e. the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function. These diagrams are widely used by businessmen and software developers to document and understand requirements for new and existing systems.

**Sequence Diagram Notations**

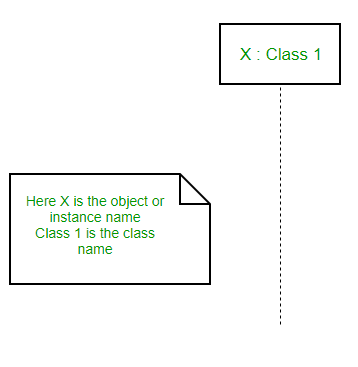
Actors

An actor in a UML diagram represents a type of role where it interacts with the system and its objects. It is important to note here that an actor is always outside the scope of the system we aim to model using the UML diagram. **, its symbol represents in figure (3.19)**

Figure (3.19): actor sequence symbol

**Lifelines**

 A lifeline is a named element which depicts an individual participant in a sequence diagram. So basically each instance in a sequence diagram is represented by a lifeline. Lifeline elements are located at the top in a sequence diagram. The standard in UML for naming a lifeline follows the following format – Instance Name : Class Name, **the object’s lifeline is shown in figure (3.20).**

Figure (3.20): object’s Lifeline

**Activation:** box over object's life line; drawn when object's method is on the stack, either that object is running its code, or it is on the stack waiting for another object's method to finish

Figure (3.21) shows the symbol activation form, while figure (3.22) shows the nested activation that uses to indicate recursion.

**Object**

Figure (3.21): activation symbol

**Object**

Figure (3.22): nested activation symbol

**Message : Communication between active objectives.**

**Write the message name and arguments above the arrow.**

**Reply Message**

 Reply messages are used to show the message being sent from the receiver to the sender. We represent a return/reply message using an open arrowhead with a dotted line. The interaction moves forward only when a reply message is sent by the receiver. **figure (3.23) represents return message symbol.**

Figure (3.23): Return message symbol

**Synchronous messages**

A synchronous message waits for a reply before the interaction can move forward. The sender waits until the receiver has completed the processing of the message. The caller continues only when it knows that the receiver has processed the previous message i.e. it receives a reply message. A large number of calls in object oriented programming are synchronous. We use a solid arrow head to represent a synchronous message. **figure (3.24) represents synchronous message symbol**

Figure (3.24): synchronous message symbol

**Asynchronous Messages** An asynchronous message does not wait for a reply from the receiver. The interaction moves forward irrespective of the receiver processing the previous message or not. We use a lined arrow head to represent an asynchronous message. **, figure (3.25) represents Asynchronous symbol.**

Figure (3.25): Asynchronous message symbol

**Admin:** make many operation such as (add, delete, update, view) in patient and physician.

Diagram

Description automatically generated

**Figure (3.26) Admin sequences diagram**

**3.4.5 Flowchart Diagram:**

A flow chart is a graphical or symbolic representation of a process. Each step in the process is represented by a different symbol and contains a short description of the process step. The flow chart symbols are linked together with arrows showing the process flow direction.

Diagram

Description automatically generated

Table (3.27): flowchart symbols

**3.5 Matching algorithm flowchart in system:**

The patient enters the symptoms of the disease and the system analyzes these symptoms and nominate the appropriate clinic for him based on the system databases.

In matching : the first symptom is matched against the second ,if a match is found ,it matches the first and second with the third (general case with a third symptom)

Ex: low blood pressure (general case, generated through matching two symptoms) + fast heart rate --> potential arrhythmia (this is considered a potential diseases)

Algorithm (User side)

1. Start
2. Enter 1st, 2nd and 3rd symptom
3. Read matched department output
4. End

Algorithm (System side)

1. Start
2. Read 1st,2nd and 3rd symptom
3. If 1st and 2nd symptoms match
   1. Then
      1. Read DB and summon the general case those two symptoms are indicative of, placeholder name DB\_gc\_A
      2. If DB\_gc\_A and 3rd symptom match
         1. Then
            1. Read DB and summon the potential disease that the general case and third symptom are indicative of, Placeholder name DB\_pd\_X
            2. Read DB and summon department for DB\_pd\_X
            3. Print department
         2. Else
            1. Read DB and summon the general case DB\_gc\_A
            2. Read DB and summon department for DB\_gc\_A
            3. Print department
   2. Else if 2nd and 3rd symptoms match
      1. Then
         1. Read DB and summon the general case those two symptoms are indicative of, placeholder name DB\_gc\_B
         2. If DB\_gc\_B and 1st symptom match
            1. Then

Read DB and summon the potential disease that the general case and third symptom are indicative of, Placeholder name DB\_pd\_Y

Read DB and summon department for DB\_pd\_Y

Print department

* + - * 1. Else

Read DB and summon the general case DB\_gc\_B

Read DB and summon department for DB\_gc\_B

Print department

* + 1. Else if 1st and 3rd symptoms match
       1. Then
          1. Read DB and summon the general case those two symptoms are indicative of, placeholder name DB\_gc\_C
          2. If DB\_gc\_C and 2nd symptom match

Then

Read DB and summon the potential disease that the general case and symptom are indicative of, Placeholder name DB\_pd\_Z

Read DB and summon department for DB\_pd\_Z

Print department

Else

Read DB and summon the general case DB\_gc\_C

Read DB and summon department for DB\_gc\_C

Print department

* + - 1. Else
         1. Print “Could not find a suitable department, please check with a general physician”

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated with medium confidence**

**Table

Description automatically generated**

Figure (3.28): flowchart Diagram

**3.6 Summery:**

**We talked in this chapter about: Introduction about system Analysis,** **System development life cycle, UML Diagrams, DFD diagrams, Context diagram, Use case diagram, Sequence diagram and Flowchart diagram and**  **matching algorithm in system.**

**To be continued the rest of diagrams that are related to DB and Design phase**