

1.1 Introduction

In this chapter, we deal with the initial study phase, and in this chapter a general introduction to the initial study and what this study aims to be mentioned is mentioned in it. We will mention in it the problems of the current manual system and define the goals of the new target system in addition to the work of the current manual system.

1.2 Definition of the initial study

It is a review of all the initial data on the site, in terms of the idea of the work, the goal of achieving it and the desired benefit from it, as well as the preliminary planning for the stages of its implementation.

1.3 Project Overview

This study aims through this project to create a website for analysis centers and how the website works on the side of the site manager is to process user data from (add - delete - modify) each user on the site and determine the powers granted to him and then process the data of insurance companies And the types of analyzes and on the part of the subscriber, he logs into the site and registers the subscription, which is the registration process by recording his personal data (name of the subscriber - password) to create a new account for him. He can also book a type of analysis through the site. Receiving reservation requests and confirming them, as well as sending the analysis data to the analysis technician, who in turn receives the request and sends the results of the analyzes to the reception employee through the system.

1.4 Project objectives

1. Easy to book an analysis.
2. Save time in the process of booking and reviewing the available analyzes in the laboratory.
3. Save effort and not attend in person in denying time to book an analysis.
4. The system provides the ability to know the number of customers and prevent data duplication and save it in a secure database with quick access to it at any time.

1.5 Define the problem

After closely examining the current method of workflow, we found that the analysis laboratory suffers from many problems, as it is not possible to search for visitor data in full or partial match, as well as the difficulty of knowing the record of a previous visitor in the laboratory and the analyzes that he conducted, as there are problems in recording data and recording them in notebooks and paper records One of the most important problems that the laboratory faces is the difficulty of dealing with insurance companies and the nature of the reservation, and this method is costly of time and effort and there is a waste of money in terms of spending on records, stationery and papers.

1.6 Methodology used to build the system:

There are many methodologies that are used in projects, and after researching these methodologies, we came up with the most suitable of these methodologies: the waterfall model.

Waterfall model: It is a sequential design process commonly used in software development processes. Where the sequence in the workflow method is in the form of constant successive stages from top to bottom, and it is not possible to move to the next stage without completing and verifying the current stage, and the stages of the waterfall model are divided into: analysis, design, implementation, testing, operation and maintenance.