# Dental clinic Management System

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# Introduction

The project plays an important role in making dental therapy procedures known to more than one dentist, as well integrating the dental therapy sections in all its branches. Our project is like a Facebook for dentists.

### **Project Objectives:**

The project aims to achieve a number of goals to manage the dental clinics, as follow:

- 1. Patients can book an appointment to visit the doctor electronically.
- 2. Patient reminder that reminds the patient to his appointment.
- 3. Storing all patient's information and their medical records electronically in the database instead of traditional files.
- 4. Manages the patient's credits electronically.
- 5. Conversation page between the dentists themselves, and between them and their secretaries.
- 6. Facilitate communication between dentists, labs, and patients.
- 7. Creating an e-prescription, in addition to that the system will warn the dentist if the patient has an allergic to any kind of drugs.

### **System Requirements:**

The administrator functional requirements

- 1. Activation or deactivation for the dentist and ray labs accounts.
- 2. Modifying dentist's and ray-labs official accounts.
- 3. Adding advertisements on all the pages (dentist, patient, secretary, X-ray labs).
- 4. Sending messages to the dentist, and X-ray lab.
- 5. Searching.

The dentist's functional requirements

- 1. Modifying secretary account.
- 2. Modifying his account.
- 3. Modifying and updating patient's medical history files.
- 4. Exchanges patient's ray-images, and reports between the dentists themselves and between them and ray-labs.
- 5. Sending messages to the admin, other dentist, X-ray labs, and patient.
- 6. Creating an electronic prescription for the patients.
- 7. Searching.

The patient's functional requirements

- 1. Registration on the site.
- 2. Booking an appointment in the dental clinic.
- 3. Canceling his appointment.
- 4. Modifying and updating his personal profile.
- 5. Sending messages to the dentist or to his secretary.
- 6. Searching.

The secretary's functional requirements

- 1. Modifying the patient's personal file.
- 2. Modifying the patient's medical file.
- 3. Creating an account to the patient.
- 4. Sending message to the X-ray lab, dentist.
- 5. Managing the patient's credit electronically.
- 6. Verifying the patient registration.
- 7. Verifying or rejecting for the patient appointment.
- 8. Searching.

X-ray labs functional requirements

- 1. Uploading the x-ray images or report on the patient's profiles.
- Sending messages to the admin, dentist, and his secretary.
- 3. Searching.

### **Context Diagram:**

Figure 1 is Context Diagram for a project.

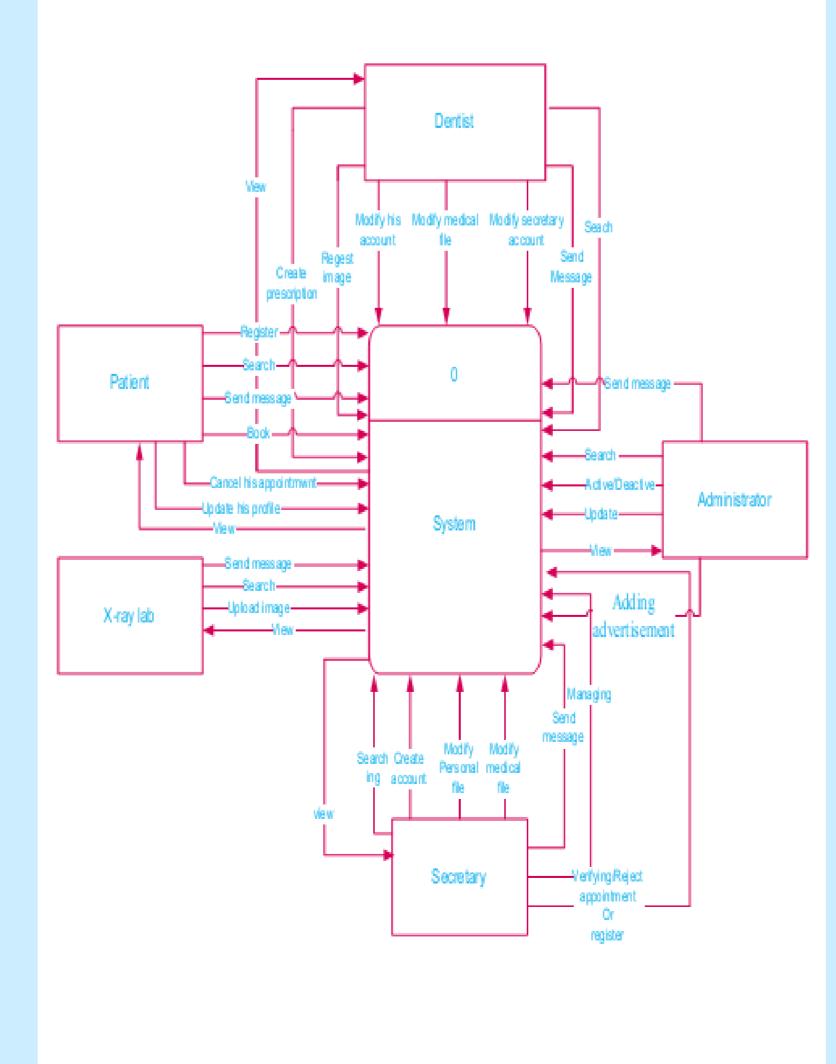


Figure 1 : Context Diagram.

## Database Design:

Figure 3 show the Database Design of the system.

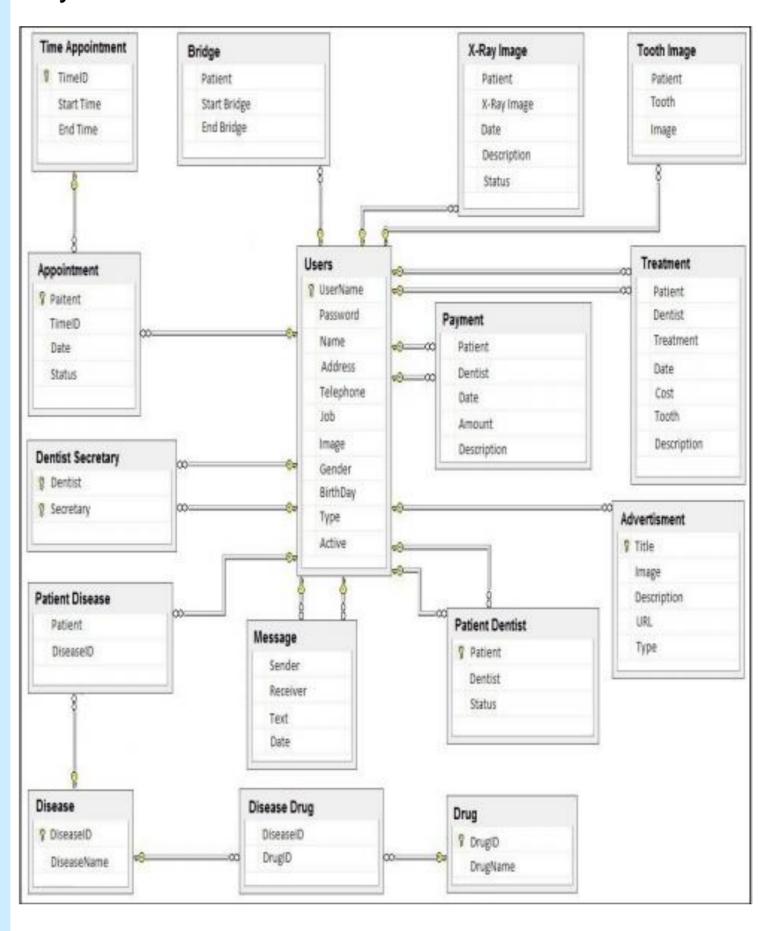


Figure 3: Database Design

# **System Implementation:**

• Developing Environmental Requirements:

The most important software used in developing our project which is as follow:

- 1. Microsoft Windows7
- 2. Microsoft Visual studio 2010
- 3. Microsoft ASP.NET
- 4. Adobe Flash CS5Deployment diagram

To offer the ability for all clients to access the website without the need to install any additional component on their desktop, the system designed as a Three Tier Architecture as shown in figure 4.

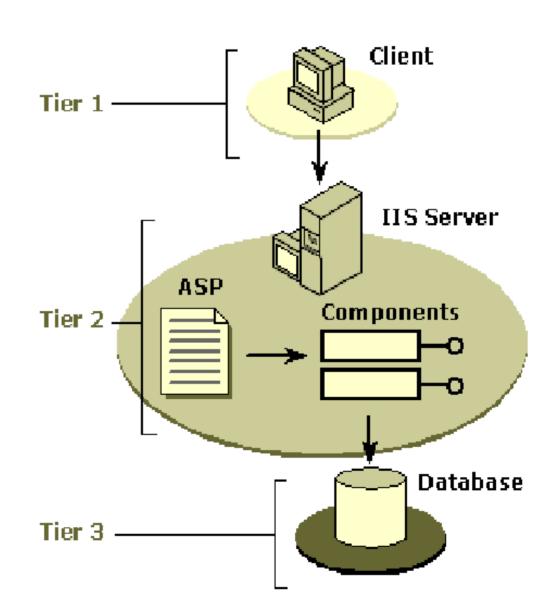


Figure 4: Three-Tier architecture