

## Dental Clinic Management System

### Project Scenario

This project's intent is to have a fully functional Dental Clinic management system, allowing us to manage patient visits, and billing, as well as assign dentists to each patient's visit. In a real-life environment, it would allow for processing users as either patients or dentists, and as a billing system all in one, using a graphical user interface.

### Design Paradigm

Functionalities to be included are:

- The creation of patients with their appropriate attributes (patient's name and last name, age, and insurance status [whether patient is insured or not]).
- The creation of dentists with their appropriate attributes (dentist's name and last name).
- The creation of apprentice dentists with their appropriate attributes (apprentice dentists would be assigned certain tasks that are not demanding, while more demanding procedures would be assigned to regular dentists).
- The creation and maintenance of bills, with two separate bill types, one for the patient, and one for the dentist.
- The dentist bill includes more tedious information such as the necessary treatment, and treatment cost for the dentist, and the treatment cost for the patient (or insurance if applicable).
- The patient bill will simply include their information, the treatment they underwent, as well as the bill amount.

### Expected Output

Desired functionality:

Provide an interface allowing dentists to sign in and manage patient's visits by:

- Creating and removing visits
- Assigning dentists to patient visits
- Creating and removing bills

The interface would also allow a patient to use the system, however with less privileges:

- Viewing bill

- Paying bill

We are still revising functionalities to add for patients, but as of now, the projected privileges are the functionalities listed above.

Furthermore, if time permits, we would like to add more complex views in the user interface, such as viewing a dentist's directory, or their list of patients, etc., however these all remain concepts that are not confirmed to be implemented within the time constraints provided.