**Software Requirements Discovery and Domain Modeling**

Task 1.1

Functional Requirements:

* Dentist Registration: Register dentists with First Name, Last Name, Contact Phone, Email, Specialization, and a unique ID.
* Patient Registration: Register patients with First Name, Last Name, Contact Phone, Email, Mailing Address, and Date of Birth.
* Appointment Booking: The Office Manager books appointments, sending confirmation emails to Patients.
* Appointment Viewing for Dentists: Dentists can view a list of their appointments, including patient details.
* Appointment Viewing for Patients: Patients can view their appointments, including dentist information.
* Appointment Modification: Patients can request to cancel or change their appointments.
* Appointment Limit for Dentists: Limit dentists to a maximum of 5 appointments per week.
* Outstanding Bill Check: Prevent new appointments for Patients with outstanding, unpaid bills.
* Surgery Information Availability: Provide information about each Surgery location, including name, address, and telephone.

Task 1.2

