

Advantis Dental Surgeries (ADS)

Functional Requirements

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Actors

- Office Manager (admin staff)
- Dentist (practitioner)
- Patient (client)

Identity & Access

- Office Manager registers dentists (first/last name, phone, email, specialization).
- Office Manager enrolls patients (first/last name, phone, email, address, date of birth).
- User accounts exist for Office Manager, Dentist, and Patient; each account links to exactly one principal.
- Dentists and Patients can sign in to view their own appointments.

Appointments

- Patients can request appointments via phone (call-in) or online form.
- Office Manager books appointments; each appointment has date/time, duration, assigned dentist, patient, and surgery location.
- System sends an email confirmation to the patient on booking.
- Patients can request to cancel or reschedule appointments.

Surgeries / Locations

- System stores surgery details: name, address, and telephone number.
- Each appointment occurs at exactly one surgery.

Billing & Payments

- Invoices belong to patients; an appointment may generate an invoice.
- Invoices can have multiple payments (card, cash, check, online).

Business Rules / Constraints

- A dentist must not be assigned more than 5 appointments in any given week.
- Block new appointment requests for a patient with any outstanding (UNPAID) invoice.
- Send confirmation email to the patient when an appointment is booked.