Scenarios:

1. Use Case: Registration

Purpose: Allow the secretary to register the customer at the practice

Require: Secretary is present, customer is present, Registration page is showing. Patient isn’t already registered

Event Flow: 1. Customer walks into Sheffield Dental Practice

2. Customer asks to be registered by secretary

3. Customer is registered by secretary

4. Customer walks out of practice

Success: Customer is registered. Registration page is showing

Optional Extension:

Use Case: Registration

Extension: Subscribe

Point: Registration, after step 3

Require: Customer opts to subscribe to a health plan.

Event Flow: 1. The secretary subscribes the customer to a plan

2. Secretary records that Customer is on a plan

3. Secretary asks customer to sign bank mandate

Resume use case.

Success: The customer is also subscribed to a health plan.

Actors and tasks:

KEY: Red represents what’s handled by the system

* Secretary:
  + Register customer
    - Subscribe customer if opted for
    - Ask patient to sign bank mandate
  + Book initial appointment to visit hygienist & dentist on same day
  + Book next appointment at the end of previous
    - If dentist identifies a problem, books treatment visit(s)
  + Cancel appointment when patient rings up and book new appointment.
  + View appointments calendar
  + Check out patient after visit
    - Check if they owe
    - Book next appointment
    - Prints receipt for amount owed and paid by patient.
* Patient:
  + Register at practice
    - Opt to subscribe to plan
    - Sign bank Mandate
  + Visit hygienist to clean teeth
  + Visit dentist for check-up
  + Visit dentist for treatment
  + Cancel inconvenient visits (by calling secretary).
* Partners:
  + Hygienist clean patient’s teeth
  + Dentist performs check-up on patient
    - Dentist identifies problem in check up
  + Dentist treats patient
  + View appointments calendar
  + Record that patient has been seen (logging cost)

Information Modelling:

* Actors:
  + Patient
    - Title
    - Forename
    - Surname
    - Date of birth (dd-mm-yyyy)
    - Phone number
    - Address (PK – House number & post code)
  + Secretary
    - Check-up/ cleaning lasts 20 minutes
    - Treatment lasts 1 hour
  + Dentist
  + Hygienist
* Classes:
* Attributes:
* Associations:

Healthcare Plans:

Cosmetic work not covered by any plan

* NHS free plan:
  + Children under 18
  + 2 check-ups
  + 2 hygiene visits
  + 6 repairs per year
* The Maintenance plan:
  + £15 per month
  + 2 check-ups
  + 2 hygiene visits per year
* The Oral Health plan:
  + £21 per month
  + 4 hygiene visits
  + 2 check-ups per year
* The Dental Repair plan:
  + £36 per month
  + 2 repairs
  + 2 check-ups
  + 2 hygiene visits per year