Team JavaBean Project Proposal

# Project Overview

This is a system used by dental clinics, patients, insurance companies and dental labs throughout the whole reservation, treatment, referral and payment process.

# Application Key Functionalities

1. Patients
   1. Make appointment
   2. View appointment schedule
   3. Submit insurance policy application
2. Dental Clinics
   1. Receptionist
      1. Confirm or reschedule an appointment
      2. Add the patient to the patient queue and inform the related doctor
      3. Confirm referred patients and make appointments for them
   2. Doctor
      1. Treat the patient and write appointment note
      2. Make X-ray shot
      3. Send denture or crown order to dental labs
      4. Refer patient to dental specialist
   3. Manager
      1. Confirm bill and send bills to patients or insurance companies and track the payments status
      2. Pay the bills from dental labs
3. Insurance Companies
   1. MassHealth
   2. Commercial Insurance Companies
      1. Policy Manager
         1. Approve or reject policy application
      2. Finance
         1. Confirm and pay the bills from clinics
4. Dental Labs
   1. Manager
      1. Confirm the orders and assign them to certain operator
      2. Mail the completed products to clinics
      3. Send bills to dental clinics
   2. Operator
      1. Make the dentures or crowns as requested

# Proposed Entities

1. Patients
   1. Personal Information
   2. Medical History
   3. Directory of Treatment Plan
   4. Directory of Appointment
2. Dental Clinics
   1. Directory of Patient
   2. Directory of Appointment
   3. Directory of Employee
   4. Employee
      1. Personal Information
      2. Role: Receptionist, Manager, Doctor …
   5. Treatment History (Directory of Appointment note)
   6. Appointment note
   7. X-ray record
3. Insurance Companies
   1. Directory of Customer (Patients)
   2. Directory of Policy
   3. Policy
   4. Payment History (Directory of Payment History)
4. Dental Labs
   1. Directory of Customer (Dental Clinics)
   2. Directory of Crown or Denture Orders

# Eco-system architecture diagram