dentalBranch

A dental company, “Bright Smiles”, has multiple branches (i.e., dental clinics) and would like you to create a software application to help manage the business processes and dental services. Each dental branch has an address, phone number, and a manager. A dental branch offers dental services to patients. Examples of services include cleaning, implants, crowns, fillings, and more. Each of the services has a cost. The clinic keeps track of its patients and staff. The staff includes managers, receptionists, hygienists, and dentists. The patient needs to book an appointment before coming to the clinic. Upon checkout, the clinic charges the patient depending on the services she/he has received. Also, a 5% value-added tax (VAT) is added to the final bill.

**Classes:**

* Branch: Represents a dental clinic branch with attributes such as branchID, address, phonenumber, and manager.
* Service: Represents dental services provided at a branch with attributes such as serviceID, serviceName, and cost.
* Person:
* Staff: Represents staff members at a branch with attributes such as staffID, staffName, and staffRole (e.g. receptionist, hygienist, dentist, or manager).
* Patient: Represents patients with attributes such as patientID, patientName, and contactDetails.

**Attributes:**

Branch attributes:

* branchID
* address
* phoneNumber
* manager

+getBranchID(): String

+setBranchID(branchID: String)

+getAddress(): String

+setAddress(address: String)

+getPhoneNumber(): String

+setPhoneNumber(phoneNumber: String)

+getManager(): String

+setManager(manager: String)

Service attributes:

* serviceID
* serviceName
* cost
* duration

+ getServiceID(): String

+ setServiceID(serviceID: String)

+ getServiceName(): String

+ setServiceName(serviceName: String)

+ getCost(): Float

+ setCost(cost: Float)

+ getDuration(): Time

+ setDuration(duration: Time)

Person attributes:

* ID
* name
* phoneNumber
* email

+ getID(): String

+ setID(ID: String)

+ getName(): String

+ setName(name: String)

+ getPhoneNumber(): String

+ setPhoneNumber(phoneNumber: String)

+ getEmail(): String

+ setEmail(email: String)

Staff attributes:

* ID
* name
* phoneNumber
* email
* staffRole

+ getStaffRole():ENUM  
+ setStaffRole(staffRole: ENUM)

Patient attributes:

* ID
* name
* phoneNumber
* email
* medicalStatus

+ getMedicalStatus(): ENUM  
+ setMedicalStatus(medicalStatus: ENUM)

Medical Status:

* Undetermined - Patient is awaiting physician and/or assessment.
* Good - Vital signs are stable and within normal limits. ...
* Fair - Vital signs are stable and within normal limits. ...
* Serious - Vital signs may be unstable and not within normal limits. ...
* Critical - Vital signs are unstable and not within normal limits.