Class List:  
  
1. Admin

2. User

3. Diagnostic Center

4. Test

5. HealthCareSystem

6. Appointment

Attributes and operations:

1. DiagnosticCenter

-admin: Admin

-centerName: String

-centerId: BigInteger

-listOfTests: List<Test>

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1. Admin

-adminId: BigInteger

-centerList: List<DiagnosticCenter>

+addCenter(center: DiagnosticCenter): void

+updateCenter(center: DiagnosticCenter): void

+removeCenter(center: DiagnosticCenter): void

+addTest(test: Test): void

+updateTest(test: Test): void

+removeTest(test: Test): void

+approveAppointment(): void (Here, admin first calls getAppointmentList();, then approves the appointments accordingly)

1. Test

-testId String

-testName String

-center DiagnosticCenter

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1. User

-userId: BigInteger

-userName: String

+makeAppointment(user: User, center: Center, test: Test, )

(User will call getSuperCenterList(); from HealthCareSystem and then from the DiagnosticCenter Object selected it will call the listOfTests(); method to retrieve all available tests in that center. Then he can use this method)

1. HealthCareSystem

-superCenterList: List<DiagnosticCenter>

-appointmentList: List<Appointment>

+getSuperCenterList(): List<DiagnosticCenter>

+getAppointmentList(): List<Appointment>

1. Appointment

-user User;

-appointmentId: BigInteger

-test: Test

-datetime: DateTime

Problem Statement: