

| Hospital |
|--|
| -name: String -location: String -capacity: int |
| +addDoctor(): void +removeDoctor(): void +updateCapacity(): void |

| System Admin |
|--|
| -username: String -password: String |
| +login(): boolean +logout: void +cruddata(): void +viewHospital: List<Hospital> |

| Community |
|--|
| -name: String -location: String -hospitals: List<Hospital> |
| +addHospital(): void +removeHospital(): void +updateLocation(): void |

| Doctor |
|---|
| -name: String -speaciality: String -licenseNo: String -username: String -password: String |
| <u>+login(): boolean</u> <u>+logout(): void</u> <u>+viewEncounters(): List<Encoiunter></u> <u>+createEncounter(): void</u> |

| Patient |
|---|
| -name: String -age: int -gender: String -address: String -city: String -email: String -phone: String -medicalHistory: String |
| +searchDoctor(): List<Doctor> +bookAppointment(): void |

| Encounter |
|--|
| -date: Date -doctor: Doctor -patient: Patient -vitalSign: VitalSign |
| +createEncounter(): void +viewEncounters(): :ist<Encounter> |

| Pharmacy |
|--|
| -date: Date -medicineName: String -medicineAmount: int |
| |

| VitalSign |
|--|
| -date: Date -temperature: double -bloodPressure: int -respiratoryRate: int -heartRate: int |
| |

| Vaccination |
|--|
| -patientName: String -patientID: double -vaccineType: String -vaccineDose: int -healthcareProvider: String |
| +createEncounter(): void +viewEncounters(): :ist<Encounter> |