Interface
<<interface>>

+ display(str: String): void

I_PerformCheckup

+ patientHistory: String
+ updatedPatientHistory: String

+ requestPatientHistory(patientID: String): void
+ prescribeTreatment(treatment: String): void
+ display(String): void

C_PerformCheckup

+ patientHistory: String
+ updatedPatientHistory: String

+ requestPatientHistory(patientID: String): String
+ updatePatientHistory(patientID: String, treatment: String): String

E_Appointment

+ requestDoctor(doctorName: String): list<Date>
+ bookAppointment(timeslot: Date): int

C_ScheduleAppointment

+ listOfTimeslots: list<Date>
+ tokenNumber:int

+ requestDoctor(doctorName: String): list<Date>
+ requestAppointment(timeslot: Date): int
+ sendPatientDetails(patientDetails: String): void

I_ScheduleAppointment

+ listOfTimeslots: list<Date>
+ tokenNumber:int

+ requestDoctor(doctorName: String): void
+ requestAppointment(timeslot: Date): void
+ sendPatientDetails(patientDetails: String): void
+ display(String): void

I_PerformTest

+ updatedPatientHistory: String

+ updatePatientHistory(patientID:String, String): void
+ display(String): void

C_PerformTest

+ updatedPatientHistory: String

+ updatePatientHistory(patientID:String, String): String

E_Patient

+ requestPateintHistory(patientID: String): String
+ updatePatientHistory(patientID: String, roomNo: int): void
+ sendPatientDetails(patientDetails: String): void
+ updatePatientHistory(patientID: String, treatment: String): String
+ requestPateintHistory(patientID: String): String
+ updatePatientHistory(patientID:String, String): String

C_AdmitPatient

+ listOfVacantRooms: list<int>
+ approval: boolean

+ requestVacantRoom(): list<int>
+ assignRoom(patientID: String, roomNo: int): boolean
+ updatePatientHistory(patientID: String, roomNo: int): void

I_AdmitPatient

+ listOfVacantRooms: list<int>
+ approval: boolean

+ requestVacantRoom(): void
+ assignRoom(patientID: String, roomNo: int): void
+ updatePatientHistory(patientID: String, roomNo: int): void
+ display(String): void

I_GenerateBill

+ bill: Bill

+ requestBill(patientID: String): void
+ display(String): void

C_GenerateBill

+ patientHistory: String

+ requestBill(patientID: String): void
+ calculateBill(patientHistory: String): Bill

E_Rooms

+ requestVacantRoom(): list<int>
+ assignRoom(patientID: String, roomNo: int): boolean

Bill

+ billAmount: double

+ Bill()
+ getBillAmount(): double
+ setBillAmount(billAmount: double): void
+ toString: String

HOSPITAL MANAGEMENT SYSTEM CLASS DIAGRAM