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| **Room** |
| #RoomNo = 0:int  #number\_of\_Beds = 30:int  #number\_of\_Doctors = 3:int  #DoctorData[3]:Doctor  #PatientData[30]:Patient  #NursesData[10]:Nurse |
| +Room()  InputDoctorData(char option): void  InputPatientData(Room room[], char option): void  ModifyPatientData(Room room[], char option, char choice): void  modifydoctordata(Room room[], char option, char choice): void  InputNurseData(Room room[], char option): void  ModifyNurseData(Room room[], char option, char choice): void  ImportRoomFiles(char option): void  ~Room() |

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| **QuarantineCenter** |
| #Location: static string  #static string centerid: static string  #static string contactnumber: static string  #Room RoomData[3]:  #adminpassword: static string  #string userpassword:string |
| +QuarantineCenter()  +CenterData():void  +inputcenterdata():void  +exportcenterdata(): void  +importcenterdata(): void  +checkadminpass(string pass): bool  +checkuserpass(string pass): bool  +setuserpass(): void  +setadminpass(): void  +displaycenterdata(): void  +InputDoctors(char option)  +searchDoctor(char option, char choice): void  +InputPatient(char option): void  +searchPatient(char option, char choice): void  +InputNurse(char option): void  +searchNurse(char option, char choice): void  +ImportAllFiles(char option): void |

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| **Person** |
| #id:string  #name:string  #age:string  #gender:string  #bloodgroup:string |
| +personType()  +SetPersonDataa()=0:virtual void |

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| **Doctor** |
| #doctorspeciality:sting  #roomno:string |
| +Doctor()  +SetPersonData(string iid, string iname, string icnic, string igender, string ibloodgroup)  InputSingleDoctor(Doctor\*\* Doc, int numberofdocs, char option)  +InputAllDoctors(Doctor\*\* Doc, int numberofdocs, char option)  +DoctorUniqueId(Doctor\*\* Docs, int numofdocs, string tempid)  +SearchDoctor(Doctor\*\* Doc, int numberofdocs, char option, char choice)  +ExportDoctorsData(Doctor\*\* Doc, int numberofdocs, char option)  +ImportDoctorsData(Doctor\*\* Doc, int numberofdocs, char option)  +DisplaySingleDoctor()  +DisplayAllDoctors(Doctor\*\* Doc, int numberofdocs)  +~Doctor() {} |

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| **Patient** |
| #patientbedno  #patientroomno  #totalbeds = 30  #ReservedBedsRoom\_1  #ReservedBedsRoom\_2  #ReservedBedsRoom\_3  #admit\_date:char  #discharge\_date:char |
| +Patient()  +SetPersonData(string iid, string iname, string icnic, string igender, string ibloodgroup)  +InputSinglePatient(Patient\*\*patientdata, char option)  +PatientIdUnique(Patient\*\* patient, string tempid, int numofpatients)  +SearchPatient(Patient \*\*patientdata, char option, char choice)  +ImportTotalReservedBeds(Patient\*\* patientdata)  +ExportTotalReservedBeds(Patient\*\* patientdata)  +ImportPatientsData(Patient\*\* patientdata, char option)  +ExportPatientsData(Patient\*\* patientdata, int data, char option)  +PatientAdmit(Patient\*\* patientdata, int data, char option)  +PatientDischarged(Patient\*\* patientdata, int start, int data, char option)  +DisplayPatientData(char option)  +DisplayAllPatients(Patient\*\* patientdata, int numberofdocs)  ~Patient() |

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| **Nurse** |
| NurseRoomNo:int  NurseRole:string  NursesInRoom\_1: static int  NursesInRoom\_2: static int  NursesInRoom\_3: static int |
| Nurse();  SetPersonData(string iid, string iname, string icnic, string igender, string ibloodgroup)  setNurseData(string iid, string iname, string icnic, string igender, string ibloodgroup)  InputSingleNurse(Nurse \*\*NurseData, char option)  NurseIdUnique(Nurse\*\* NurseData, string tempid, int numofNurses)  SearchNurse(Nurse\*\* NurseData, char option, char choice)  ImportTotalNurses(Nurse\*\* NurseData);  ExportTotalNurse(Nurse\*\* NurseData);  ImportNursesData(Nurse\*\* NurseData, char option);  ExportNurseData(Nurse\*\* NurseData, int data, char option);  NurseAdd(Nurse\*\* NurseData, int data, char option);  NurseDelete(Nurse\*\* NurseData, int start, int data, char option);  DisplayNurseData(char option);  DisplayAllNurses(Nurse\*\* NurseData, int numberofdocs); |

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| **Corona** |
| #CurrentTest: char\*  #PreviousTest: char\*  #TestResult: string  #now = time(0): time\_t |
| +Corona():  +inputTest(): void  +ReturnResult():void  +displayTest():void |

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| **GeneralWard** |
| Diseasename:string |
| +GeneralWard()  +InputDisease():void  +DisplayDisease():void |