File

pathD: string
pathP: string
pathN: string
pathS: string

+ saveDoc(): void
+ readSec(): void
+ readDoc(): void
+ savePat(): void
+ readNur(): void
+ saveNur(): void
+ readPat(): void
+ saveSec(): void

Admin

+ args: string
+ people: ArrayList<People>
+ staff: ArrayList<Staff>
- username: string
- password: string

+ changePassword(): void
+ changeUserName(): void
+ adminMenu(): void
+ getUsername(): string
+ getPassword(): string

Hospital

+ id: int
+ once: boolean

+ main(string[] args): void

<<Abstract>>
People

name: string
lastName: string
field1: string
address: string
email: string
gender: string
password: string
userName: string
age: int
contact: int
id: int

+ people(String name,String lastname,
int age,int contact,String gender,
String address,String email,
String userName,String password)
+ getAllInfo(): string
+ getAllAppointments(): void

Patient

- bloodType: string
+ bill: double
+ args: string[]
+ field: type
+ appointments: ArrayList<Apppointment>
+ prescription: ArrayList<string>

+ Patient(String name, String lastname,
int age, int contact, String gender,
String address, String email,
String userName,String password,
String bloodType)

+ getAllPrescription(): void
+ getAllAppointments(): void
+ bookAppointment(): void
+ deleteAccount(): void
+ getAllInfo(): string
+ getBill(): string
+ patientLogInMenu(Patient patient): void
+ patientSignUpMenu(): void

<<Interface>>
Staff

+ un: ArrayList<string>
+ deleteAccount(): void

Secretary

- fullName: string
- email: string
- number: int
+ id: int
+ args: string[]

+ getFullName(): string
+ toString(): string
+ getEmail(): string
+ getNumber(): int
+ method(type): void

Appointment

- doctor: Doctor
- date: Date
- patient: Patient

+ Appointment(Patient patient,Doctor doctor)

+ prescription(Appointment appointment): void
+ toString(): string

Nurse

- fullName: string
- email: string
- number: int
+ id: int
+ args: string[]

+ getFullName(): string
+ getNumber(): int
+ getEmail(): string
+ toString(): string
+ deleteAccount(): void

Doctor

- appointmentMax: int
+ salary: double
+ appointments: ArrayList<Appointment>
+ args: string[]

+ Doctor(String name, String lastname,
int age, int contact, String gender,
String address, String email,
String userName,String password)

+ getAppointmentMax(): int
+ setAppointmentMax(int appointmentMax): void
+ deleteAccount(): void
+ getSalary(): string
+ getAllAppointments(): void
+ getAllInfo(): string
+ doctorSignUpMenu(): void
+ doctorMenu(Doctor doctor): void

Extends

Use

Use

S

Use

Use

Use

Use

Use

Use

Extends

Extends

implements

implements

implements

implements

Use

Use

- All elements have unique and non-duplicate usernames and IDs.
- Each doctor has an appointmentmax variable that, if it exceeds 4, does not allow the patient to visit that doctor.
- The doctor has a salary and receives $10 after each visit, and the patient has a bill and receives $10 after each visit.
- Both the doctor and the patient have access to the visits they have had, and the patient also has access to the written prescriptions.
- The patient can choose the doctor of their choice for visit through the bookappointment method.
- In the appointment class, visits occurs and the patient can select their type of illness from the list.
- In the file class, the save methods perform the write operation and the read methods perform the read operation.
- An ID is automatically assigned to each account that is created, but each person's username is taken as input from the person, and if it is a duplicate, a duplicate message is sent and a new username is requested.
- The admin has a predefined username and ID and by entering the correct information (username: Admin, password: 54321), can enter the admin menu and from there access the information of the entire program, such as all people and their information and can also delete any user.
- And is able to change their username or password. To send information to the file, the admin must do this through the menu and the information is not directly entered into the file after entering.
- Nurse, secretary cannot create an account, but only a limited number of accounts are available and they can only log in to the account and say delete account. Which is saved in the file. (That's why it is commented)
- Doctor and patient have the ability to delete their account.