

Class patient:

The patient class represents a patient in a hospital, with various properties such as name, age, address, phone number, health status, and bill amount. It has the following private properties:

patientName: a string representing the patient's name.

patientAddress: a string representing the patient's address.

healthStatus: a string representing the patient's health status (e.g. "critical", "stable", etc.).

gender: a string representing the patient's gender.

patientAge: an integer representing the patient's age.

patientPhoneNumber: an integer representing the patient's phone number.

patientId: an integer representing the patient's ID number.

billAmount: a floating point number representing the patient's bill amount.

admitDate: a chrono::steady_clock::time_point object representing the date and time that the patient was admitted to the hospital.

The patient class has the following public methods:

patient()

The default constructor for the patient class. Initializes all properties to their default values.

patient(string patientName, string patientAddress, string healthStatus, string gender, int patientAge, int patientPhoneNumber, int patientId, double billAmount)

A constructor for the patient class that initializes all properties to the given values.

void setPatientName(string s)

Sets the patient's name to the given string s.

void setPatientAddress(string s)

Sets the patient's address to the given string s.

`void setHealthStatus(string s)`

Sets the patient's health status to the given string s.

`void setPatientGender(string s)`

Sets the patient's gender to the given string s.

`void setPatientAge(int s)`

Sets the patient's age to the given integer s.

`void setPatientPhoneNumber(int s)`

Sets the patient's phone number to the given integer s.

`void setPatientId(int s)`

Sets the patient's ID number to the given integer s.

`void setBillAmount(double s)`

Sets the patient's bill amount to the given floating point number s.

`void setAdmitDate(std::chrono::steady_clock::time_point date)`

Sets the patient's admit date to the given
chrono::steady_clock::time_point object date.

`string getPatientName()const`

Returns the patient's name as a string.

`string getPatientAddress()const`

Returns the patient's address as a string.

`string getHealthStatus()const`

Returns the patient's health status as a string.

`string getPatientGender()const`

Returns the patient's gender as a string.

int getPatientAge()const

Returns the patient's age as an integer.

int getPatientPhoneNumber()const

Returns the patient's phone number as an integer.

double getBillAmount()const

Returns the patient's bill amount as a floating point number.

int getPatientId()const

Returns the patient's ID number as an integer.

void display()

Displays the patient's information on the console, including their name, age, gender, health status, address, ID number, phone number, and bill amount.

void editPatientInformation()

Allows the user to edit the patient's information. The user can choose which property to edit from a list of options, and then enter the new value for that property. The available options are:

Edit name.

Edit address.

Edit age