**Report of project**

**Civil Registry**

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**INTRODUCTION**

* A government institution that provides proof of various events and procedures associated with the marital status of individuals knows it as the Civil Registry. The marriage the birth the death the emancipation and even the names and surnames of human beings are recorded by these entities, in general, they are responsible for managing various personal documents.
* Supporting the existence of civil records is the need for the state to obtain reliable information on citizens, which fulfills the tasks of protection and social assistance and develops policies based on the use of the statistics emanating from it.
* Therefore, when one is born, it is necessary to register your birth with the civil registry, which will give an identity document to the newborn.
* There will be your first and last name, date of birth, nationality and other information.
* This registration in the civil registry implies the state’s recognition of the person who was just born: it can be said that a person who does not have documents does not exist for the state, so he is outside the system and cannot access public services such as education and health.
* By registering a marriage or divorce in the civil registry, on the other hand, it is the duty of the members of the spouses. Registration of deaths, on the other hand, allows the exercise of the right of inheritance.
* The Civil Registry, in short, is an institution of great importance to citizens since, through their actions and the documents of these cases, it is possible to exercise a great deal of rights.
* In other words, it is clear that the existence of the civil registry and its procedures provide benefits to both the state and citizens, because greater and more reliable control can only be negative for those who wish to evade their obligations.

**Definition of the program**

* The civil registry program is a very important program in working life. The civil registry belongs to the Ministry of Interior and is used to extract the national ID card, birth certificate, its renewal, and so on.
* We will be exposed to implementing that program in the C# programming language, which is one of the most important programming languages, the most beautiful and the deepest.

**User interface:**

When the user run the program a welcome screen is displayed which contains the name of the project ,the doctor’s name and university name.

After that, you will find yourself faced with four options:

* First: Birth certificate extract.
* Second: Extract the national ID card.
* Third: Renewal of the national ID card.
* Fourth: Exit the program.

**The first choice:**

The first service is to obtain a birth certificate when choosing it. It asks you to enter a set of personal data such as the first name, last name, the national number of the father, the day of birth, the month of birth, the year of birth, the mother’s name, the national number of the mother and your nationality. Then he asks you to specify the gender.

Then the program asks about your religion, choose one if you are a Muslim, two Christian, three other than that. Then he asks about your place of birth, choose your governorate, and then displays a birth certificate that is basically your request and includes all your data that you previously entered, then press one to return to the previous list and any key to exit the program.

**The second choice:**

The second service is to obtain the national ID card. When you choose two, the program will ask you. Your national number, first name. The second name. Place of residence. Your job, gender, one for male, two for feminine. Religion. I chose a Muslim. Two christian. Three for other than that. After that, marital status. Choose one if you are single. Two married, one year release. Then the program shows you both sides of the card containing all your data that you have just entered.

**The third choice:**

The third service, renew the national ID card.

**The forth choice:**

Exit the program and specify the service you want by choosing its number from the list, then pressing the Enter button.

**The first class:**

Customer

* It consists of all the basic and important information about the customer in the private section the following attributes: first name, last name, date of birth, mother’s name, nationality gender, religion, marital status, place of residence, work, the national number, and the national number of the father and the national number of the mother.
* The public section contains default constructor, seters and geters for each of these attributes.
* Function show data\_1: displays the birth certificate of the customer, containing all his data.
* Function read 1 from file: reads birth certificate information from the file.
* Function show data 2:The function displays the customer’s national ID card data on the screen (both sides of the card).
* Function read 2 from file: The customer’s national ID card data is read from a file, so that the class customer contains all the customer or user data.

**The second Class 2:**

Service

* The main goal of it is to create the menu from which the customer should choose from the user interface as well as display the introduction screen of the program.
* It consists of a set of functions that work to configure linked list to form the list from which the customer should choose and such functions, add, delete and display. In linked list and also the intro function to display the introduction of the program.

**The third Class:**

Request

* The class request inherits from class customer. Now class request has variable attributes and methods from class customer. and add another some functions **like:**

Is leap: it return true if year is multiple of four and not multiple of 100 or year is multiple of 400 .it defines a leap year and a captive year.

Is valid Date: to make sure that date is correct, like handling February month with leap year.

Whereas if it is a leap year february is 29 days, or if it is a captive year. February is the usual 28 days.

Most of months (April-June-sept-nov) have number of days less than or equal to 30.

Get date: The main function for date .it asks user to enter day of birth and check its validity, it must be greater than or equal to one and less than or equal to thirty-one, then ask him to enter month of birth and check its validity, it must be greater than or equal one, and less than or equal 12, then ask him to enter year of birth .and also check its validity, after that national ID has formed by cutting last two number in year to put them in national ID.

City: the main function for place of birth. A list of options comes out for you, consisting of 28 governorates, next to each number.

Gender: to determine the gender, male or female.

Choice one:

if the user choose one from menu, This function contains a class customer object. Then the user is asked to enter the first name, last name, the national number of the father, the name of the mother, the national number of the mother, nationality, gender, religion, place of birth, and then a file is opened to write that in it.

Choice 2:

If the user choose two from the menu.

The first file is deleted before the creation of a new one in which the same requirements are requested to prevent to print wrong data, then the customer's national ID card is displayed.

**The main function:**

An object of the class customer, service, is created to use them.

In the main function, the introduction of the program is displayed in the user interface, after that a list is displayed for the user to choose one from which to obtain a birth certificate, two to obtain the national ID card, three renew the four national ID card to exit the program. When choosing one, it enters you into a series of requirements to obtain the birth certificate and displays a message for you, one click to return to the previous list and any key to exit, and the list is displayed repeatedly until the customer rejects it and when implementing his services for them and choosing two, he asks you a series of requirements to obtain the national ID card then I show you three, it shows you the four valid national ID card to exit the program.