Up-Skilling program ICTC5-Web Development

Ministry of Social Development

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Oct.20th, 2020

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1. Introduction

1.1 Preamble

The Ministry of Social Development project is a website that contains main categories and services that help the user to know most of the information he wants about the ministry, and there are electronic services that facilitate the completion of transactions in the easiest and best possible way. For each category there are a lot of sub-categories: About the ministry, Services, Initiatives, Media Center, call us.

1.2 Project Motivation

My motivation for creating this website is to help the largest possible number of people to access reliable information from the official authority in an orderly way and to be able to achieve easy and easy-to-use electronic services, saving time and effort.

1.3 Project Aim and Objectives

The aim of this project is to design, create, and develop a modern and responsive website as a great platform with easy-to-use electronic services, giving an overview of categories. It contains all the important information that users need with a new layout, saving time and effort.
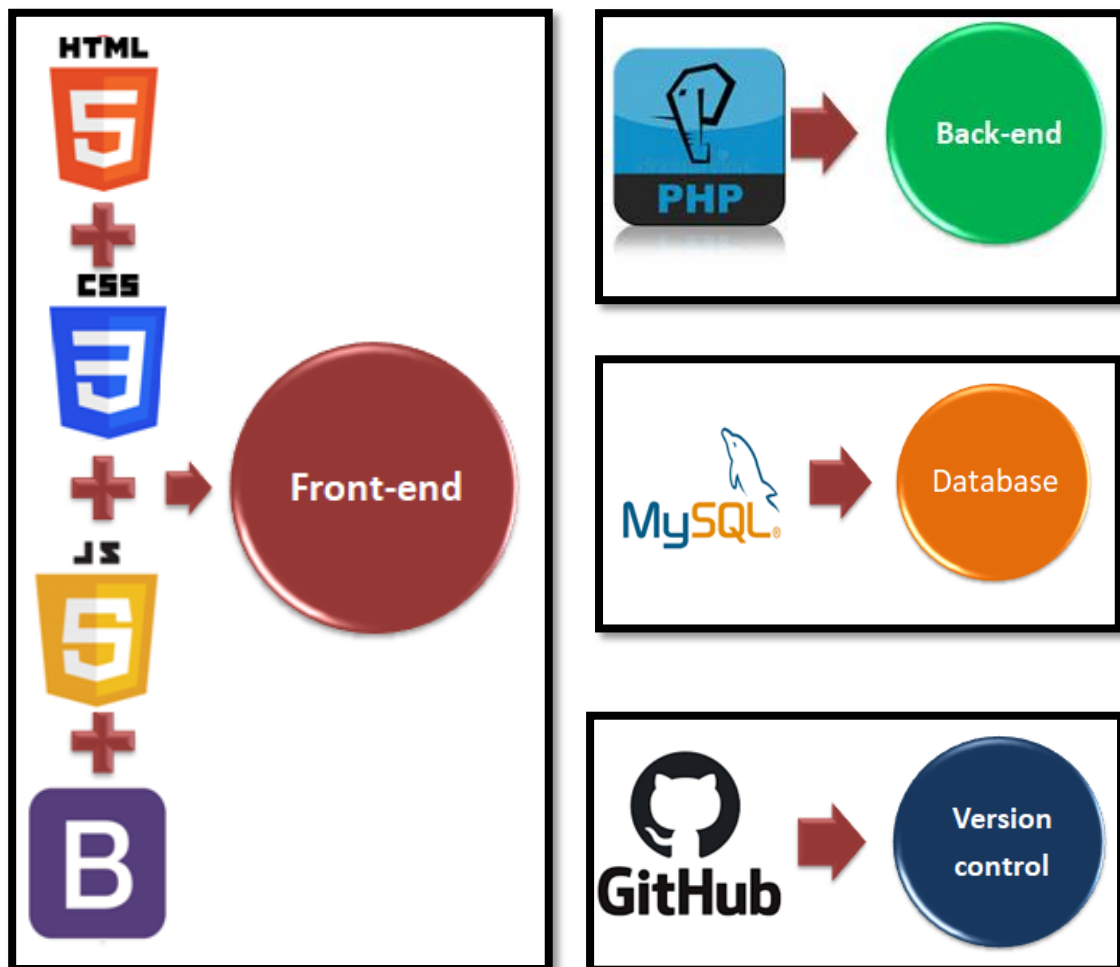
2. Project Details

There are many processes that the project went through to reach the final Website for the Ministry of Social Development. Starting from reviewing the old site of the ministry to improving and developing services and information the site contains, passing through the stage of searching for sites to take ideas and designs that can be added and applied to the new site. After that, the Sitemap was designed to depict the main addresses and link the pages that are connected using the PowerPoint program, then the Wireframe was built to visualize the parts of the pages and what components will be present on the site using the PowerPoint and draw.io site.

 Next, we moved to the design stage of the Mockup, which is the complete visualization of the site by designing it as an actual site using Adobe XD software and PowerPoint. For prototyping (Front-end) we used HTML, CSS, JavaScript, and Bootstrap. Entity Relationship Diagram (ERD) was built to show the main tables in the Database using Lucidchart website and using MYSQL Ministry Website connected with the Database. After that, the development (Back-end) used PHP, and all work was uploaded to GitHub, and it was version control.

2.1 Technologies

For prototyping (Front-end) it had used HTML, CSS, JavaScript, and Bootstrap. Entity Relationship Diagram (ERD) was built to show the main tables in the Database using the Lucidchart website and using MYSQL the Ministry Website was connected with Database. After that, the development (Back-end) used PHP, and all work was uploaded to GitHub, and it was version control.

Fig1.Technologies

1.1 Requirements

To complete all the processes that the project went through, many software requirements and others are mentioned in detail as in the following table.

Table1.Requirements

Process	Requirements
Site Map	PowerPoint
Wire Frame	draw.io / PowerPoint
Mockup	Adobe xd / PowerPoint
Prototype-HTML	Visual Studio Code
Prototype-CSS	Visual Studio Code
JavaScript	Visual Studio Code
Bootstrap	Visual Studio Code
PHP	Visual Studio Code
DataBase	MYSQL WorkBench
ERD	Lucidchart website
Version Control	GitHub
Testing	Excel

2.3 Design

The design phase was divided into many processes and many programs, which will be mentioned in detail as follows:

2.3.1 Sitemap

It is a list of the website pages showing their links to each other. A PowerPoint program was used to create the ministry's sitemap as shown in the figure below.
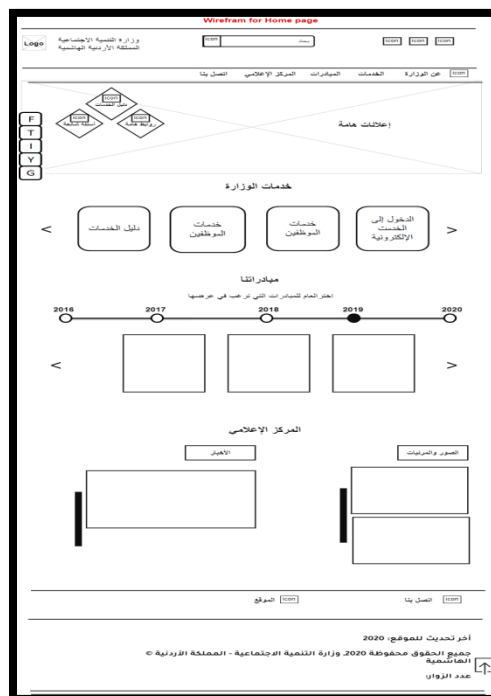
Fig2.Sitemap

2.3.2   Wireframe

Wireframe was built to visualize the parts of the pages and what components will be present on the site using the PowerPoint and draw.io site as shown on the Homepage in the Fig3 below.

Fig3.Wirframe Homepage

2.3.3   Mockup

Mockup is the complete visualization of the site by designing it as an actual site using Adobe XD software and PowerPoint which is used for design evaluation, promotion, and other purposes.
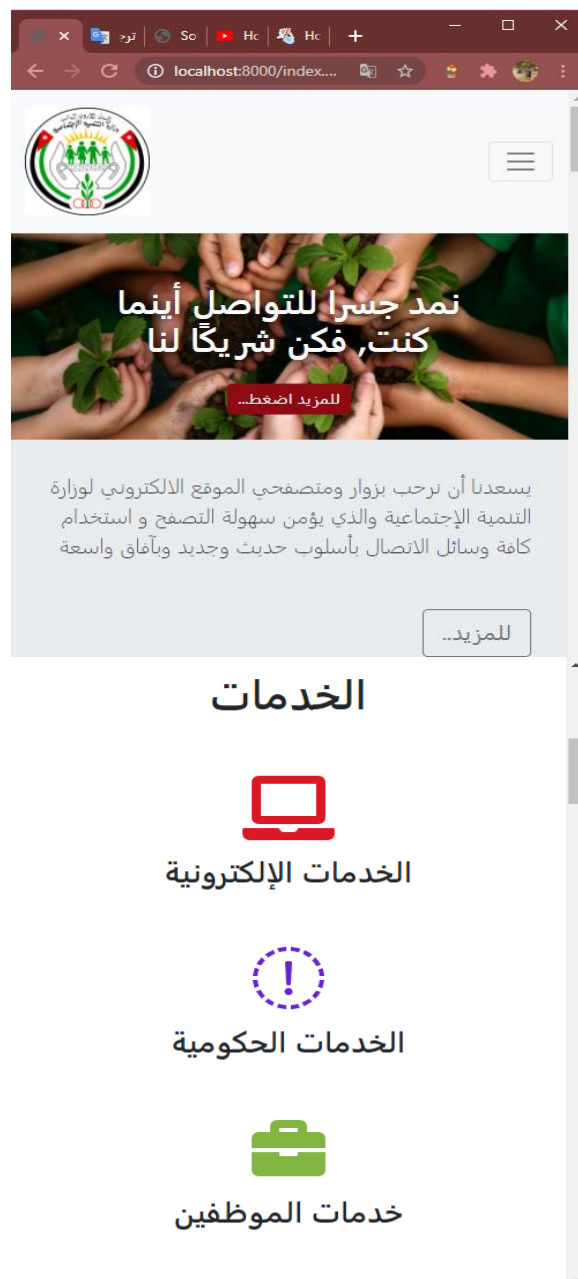
2.3.4   Prototype

For prototyping (Front-end) it had used HTML, CSS, JavaScript, and Bootstrap to achieve a responsive modern website. The following figure is the Homepage of the site with phone coordinates to show responsivity of the site. All remaining website pages are available in the screenshots section in detail.

[1]   Fig4.ResponsiveHomepage   [2]

[3]   [4]

المبادرات

تواصل معنا

مبادرات 2018
المزيد..

اتصل بنا

هاتف: 9327 6567 962+

إيميل: contact@mosd.gov.jo

فاكس: 9961 6567 962+

ص.ب: 1118-6720

مبادرات 2019
المزيد..

ساعات العمل

من الأحد إلى الخميس

8:30am – 3:30pm

الشكاوى والاقتراحات

روابط هامة

أسئلة شائعة
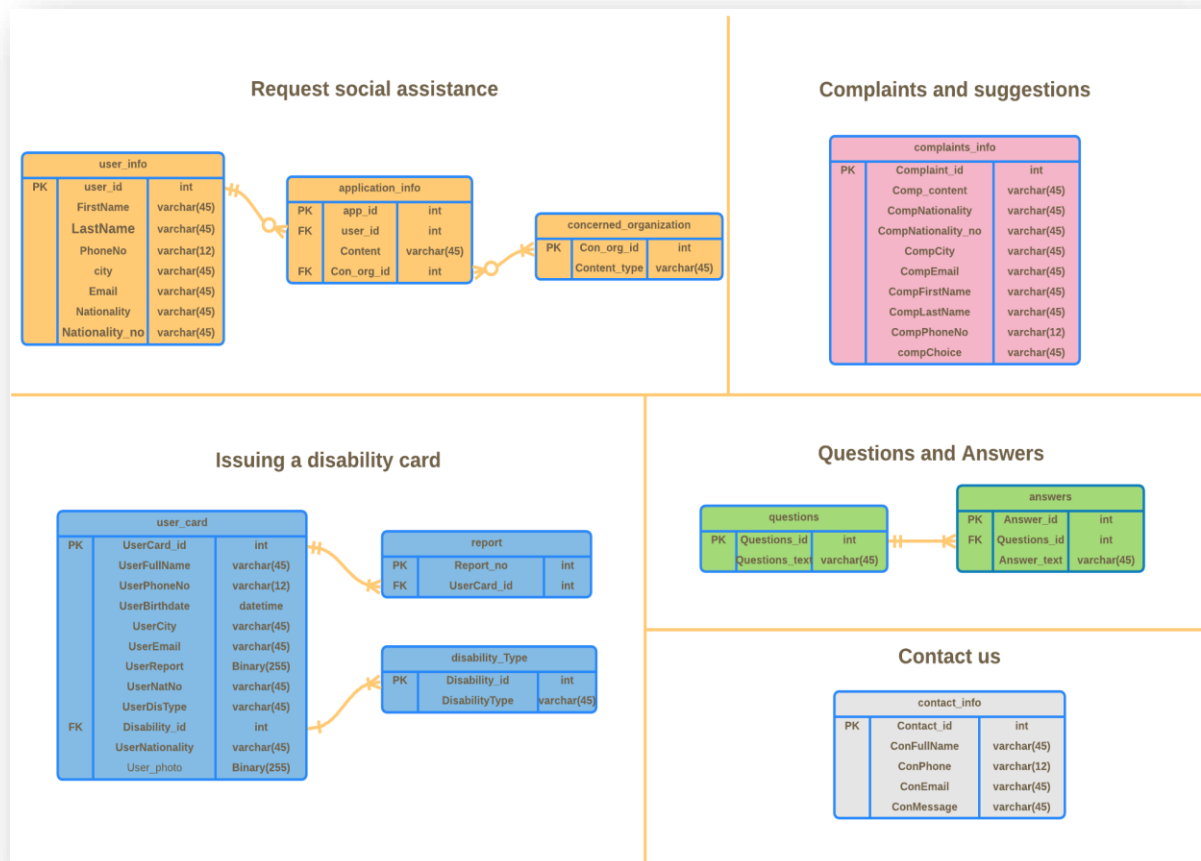
موقعنا

عمان – دوار الداخلية – خلف وكالة الأنباء بترا

مبادرات 2020
المزيد..

المملكة الأردنية الهاشمية – وزارة التنمية الاجتماعية – جميع الحقوق محفوظة © 2020

2.4 Database

Entity Relationship Diagram (ERD) in figure 5 below was built to show the main tables in the Database using the Lucidchart website and using MYSQL Workbench Ministry Website connected with Database.

Fig5.Database ERD

2.5 Development

The development (Back-end) used PHP mainly in the Services pages. PHP is a general-purpose scripting language especially suited to web development.

2.6 Testing

Testing is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Excel has been used to create the Test cases as shown below in Table to test the ministry site.

Tabel2.Testing

Project Name	Ministry of Social Development Website
Created by	Dana Alsawalha
Creation day	Oct. 18th, 2020

Test Scenario Description	Test Case ID	Test Case Description	Test Steps	Precondition	Test Data	Expected Result	Actual Result	Status
Verify the Submit functionality of the request social assistance service form page.	TC_001	Enter valid nationality, nationality number, phone number, city, first name, last name, email, concerned side, and message.	1-Enter valid nationality. 2-Enter valid nationality no. 3-Enter valid phone no. 4-Enter valid city. 5-Enter valid first name. 6-Enter valid last name. 7-Enter valid email. 8- Enter valid concerned. 9-Enter valid message. 10-Click submit button.	valid URL Test Data	Nationality: أردني Nationality no: 0123456789 Phone no: 000-000-0000 City: عمان First name: دانا Last name: الصوالحة Email: d@gmail.com Concerned: الضمان الاجتماعي Message: تقديم مساعدة اجتماعية	Successfully submit Apopup box message شكرا لتقديم الطلب؛	Successfully submit with message شكرا لتقديم الطلب؛	pass
Verify the Submit functionality of the request social assistance service form page.	TC_002	Enter valid nationality, nationality number, invalid phone number, valid city, first name, last name, email, concerned side, and message.	1-Enter valid nationality. 2-Enter valid nationality no. 3-Enter valid phone no. 4-Enter valid city. 5-Enter valid first name. 6-Enter valid last name. 7-Enter valid email. 8- Enter valid concerned. 9-Enter valid message. 10-Click submit button.	valid URL Test Data	Nationality: أردني Nationality no: 0123456789 Phone no: 000-000 City: عمان First name: دانا Last name: الصوالحة Email: d@gmail.com Concerned: الضمان الاجتماعي Message: تقديم مساعدة اجتماعية	Successfully submit Apopup box message شكرا لتقديم الطلب؛	Alert: Please match the requsted format: 000-000-0000 Not submitted	Fail
Verify the Submit functionality of the request social assistance service form page.	TC_003	Enter valid nationality, empty nationality number, phone number, city, first name, last name, email, concerned side, and message.	1-Enter valid nationality. 2-Enter valid nationality no. 3-Enter valid phone no. 4-Enter valid city. 5-Enter valid first name. 6-Enter valid last name. 7-Enter valid email. 8- Enter valid concerned. 9-Enter valid message. 10-Click submit button.	valid URL Test Data	Nationality: أردني Nationality no: 0123456789 Phone no: 000-000-0000 City: عمان First name: دانا Last name: الصوالحة Email: d@gmail.com Concerned: الضمان الاجتماعي Message: تقديم مساعدة اجتماعية	Successfully submit with message شكرا لتقديم الطلب؛	Alert: Please fill out this field. Not submitted	Fail
Verify the Submit functionality of the request social assistance service form page.	TC_004	Enter valid nationality, nationality number, phone number, city, first name, last name,invalid email, concerned side, and message.	1-Enter valid nationality. 2-Enter valid nationality no. 3-Enter valid phone no. 4-Enter valid city. 5-Enter valid first name. 6-Enter valid last name. 7-Enter valid email. 8- Enter valid concerned. 9-Enter valid message. 10-Click submit button.	valid URL Test Data	Nationality: أردني Nationality no: 0123456789 Phone no: 000-000-0000 City: عمان First name: دانا Last name: الصوالحة Email: dgmail.com Concerned: الضمان الاجتماعي Message: تقديم مساعدة اجتماعية	Successfully submit Apopup box message شكرا لتقديم الطلب؛	Alert: Please include '@' in the email address. 'dgmail.com' is missing an '@'. Not submitted	Fail
Verify the Submit functionality of the request social assistance service form page.	TC_005	Enter valid nationality, nationality number, phone number, city, first name, last name, email concerned side, and empty message.	1-Enter valid nationality. 2-Enter valid nationality no. 3-Enter valid phone no. 4-Enter valid city. 5-Enter valid first name. 6-Enter valid last name. 7-Enter valid email. 8- Enter valid concerned. 9-Enter valid message. 10-Click submit button.	valid URL Test Data	Nationality: أردني Nationality no: 0123456789 Phone no: 000-000-0000 City: عمان First name: دانا Last name: الصوالحة Email: d@gmail.com Concerned: الضمان الاجتماعي Message:	Successfully submit with message شكرا لتقديم الطلب؛	Alert: Please fill out this field. Not submitted	Fail

2.7 Deployment

All work uploaded to GitHub, and it was the version control.

2. Conclusion

As the planned had done in this project from collecting requirements and through designing, creating, and developing processes, I succeeded to build a modern, functional, having nice User Interface, and responsive website for the Ministry of Social Development as a great platform with easy-to-use electronic services, saving time and effort and containing all important information that users needed.
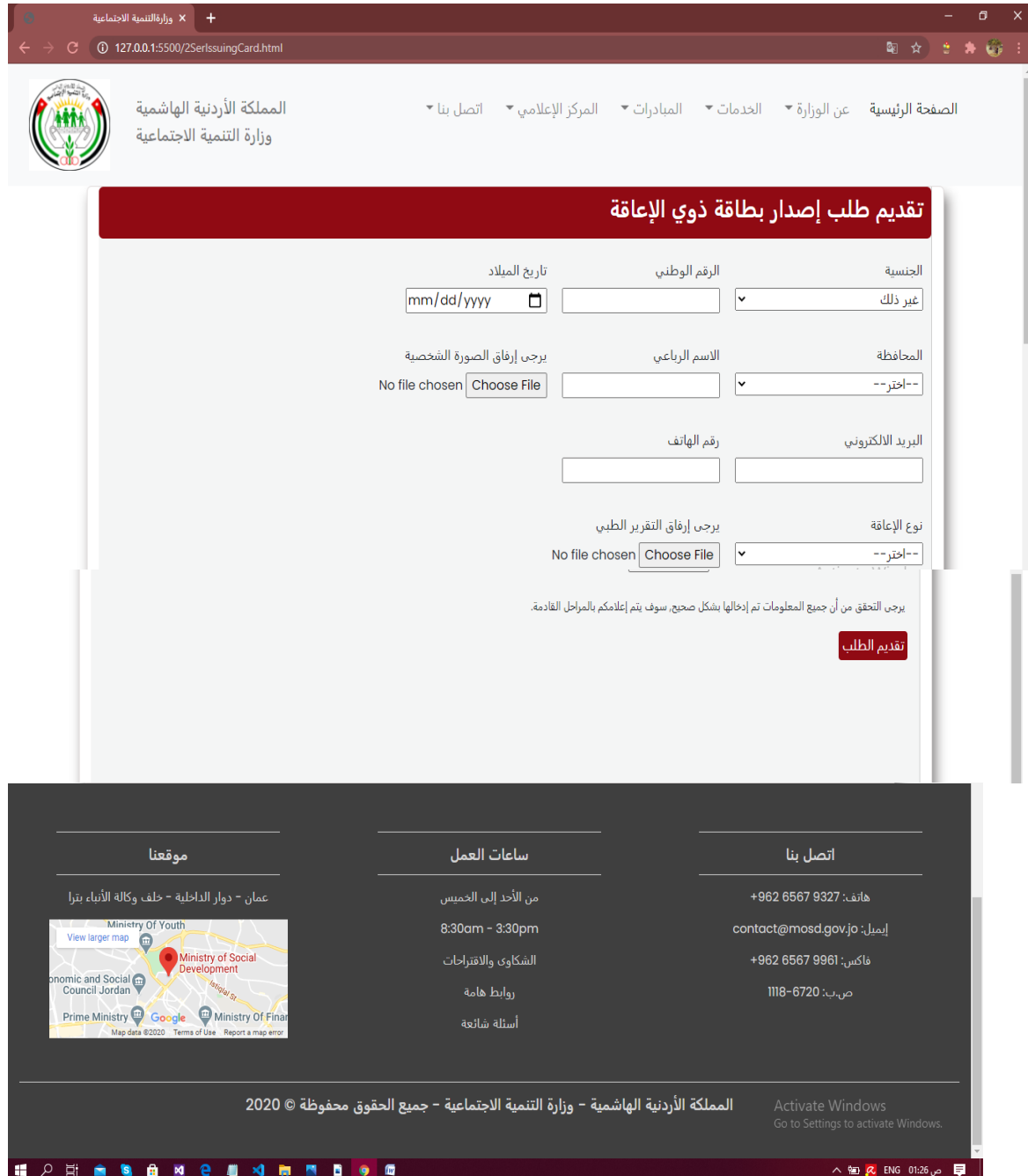
3. References

1- https://en.wikipedia.org/wiki/Mockup

4. Appendix

Figure 6 below is a screenshot of the service for submitting a disability card issuance, a service that has been added to the site.

Fig6. Requesting the issuance of a disability card service

5. Source Code

These represent the most important screenshots that show the connection to the Databases as in figure 7, the PHP code that stores the data in the database and interacts with it for the Social assistance request service as in figure 8.

Fig7.Sourcecode connection with DB

```php
connection.php
1   <?php
2       $conn = mysqli_connect("localhost","root","123456","minstry");
3       if(!$conn) {
4           die("Connection failed to the DB");
5       }
6   ?>
```

Fig8.Sourcecode Service1

```php
1SerRequest.php ×   3SerComplaints.php   4FAQ.html   2SerIssuingCard.php   EleServices.html   Structure.html
1SerRequest.php
1   <?php
2   include_once('./connection.php');
3
4   if(array_key_exists('submit', $_POST)) {
5
6       $firstName = $_POST['firstName'];
7       $lastName = $_POST['lastName'];
8       $phone  = $_POST['phone'];
9       $city = $_POST['city'];
10      $email = $_POST['email'];
11      $nationality  = $_POST['nationality'];
12      $nationalNum = $_POST['national-number'];
13      $contentType = $_POST['concerned'];
14      $message = $_POST['message'];
15
16      $sql = "INSERT INTO user_info(FirstName, LastName, PhoneNo, city, Email, Nationality, Nationality_no)
17              VALUES ('$firstName', '$lastName', '$phone', '$city', '$email','$nationality', '$nationalNum')";
18
19      $sql1 = "INSERT INTO concerned_organization(contant_type)
20          Values('$contentType')";
21
22      $sql2 = "INSERT INTO application_info(Contant)
23          Values('$message')";
24
25      if(mysqli_query($conn, $sql) && mysqli_query($conn, $sql1) && mysqli_query($conn, $sql2)) {
26          echo "<script>alert('شكرا لتقديم الطلب')</script>";
27      } else {
28          echo mysqli_error($conn);
29      }
30  }
31  ?>
```