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**BACHELOR'S DEGREE**

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# Chapter 1:

## Introduction:

At First, we need to define what the Civil status and passport Department is, to get clear view about it. A Civil status and passport Department is one of the most system must Build in any country around word, It can be said that it is also the backbone of the country, As it carries citizens' information.

“Civil status and passport Department, represented by the Jordanian archiving for its services, and it must provide all the scientific requirements and pursue them for the advancement, achievement and optimal service of the citizen.” [1]

Now we have idea how system is critical, but we need to explanation more about The most important services it provides we will mention and focus in this project

- **Issuing** **Personal identity card** : It is the most important document for every citizen As everyone knows that this card is a sensitive matter, the holder can make sure of his identity . It is known to be a very sensitive responsibility.

- **Issuing a passpo**rt : A **passport** is a [travel document](https://en.wikipedia.org/wiki/Travel_document), usually issued by a [country](https://en.wikipedia.org/wiki/Country)'s [government](https://en.wikipedia.org/wiki/Government) to its citizens, that certifies the identity and [nationality](https://en.wikipedia.org/wiki/Nationality) of its holder primarily for the purpose of international travel. Standard passports may contain information such as the holder's name, place and date of birth, photograph, signature, and other relevant identifying information.

## Problem statement and objective:

Recently, with the increase in population overcrowding, there have been large gatherings in the existing branches to serve the citizens around the kingdom, and also what we see in terms of delay and waste of time and effort this is also a big reason for the spread of viruses in our time which makes injuries increase with crowding in a positive relationship, It is worth noting that there are many citizens who go to the branches without

Little feasibility due to the lack of required paperwork, because that we must view the most of service required, this is in order to save time, effort and disease, as we mentioned earlier.

Objective:

- Submit the application to obtain ID card electronically.

- Submit the application to obtain the passport electronically.

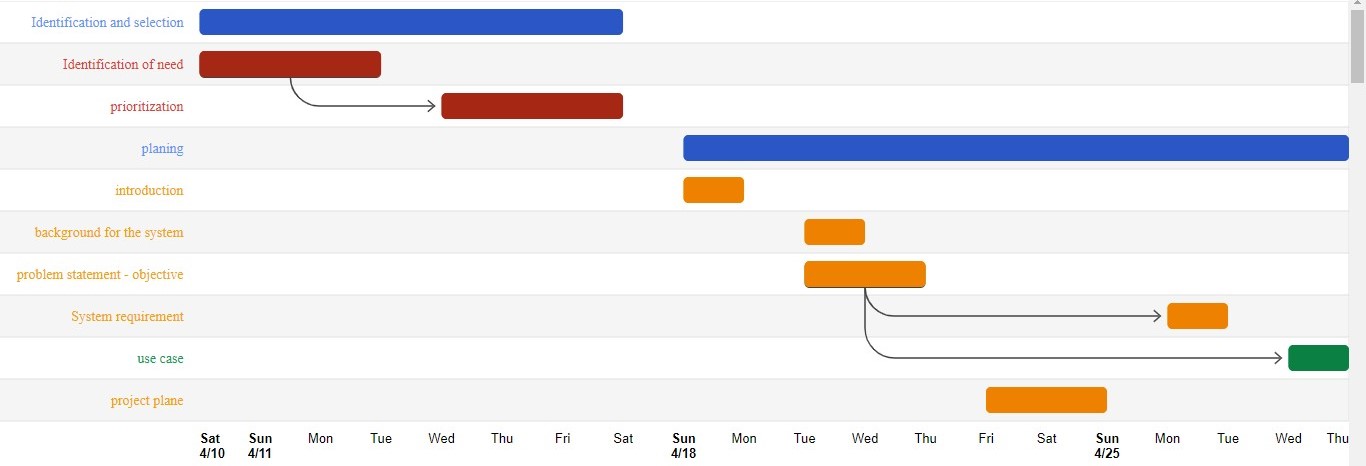
- increase awareness of citizen about our service and what is required or not when they should.

- Submit complaints and suggestions in easy way.

## Project plane:

To view the Gantt-chart In a nicer and interactive way, we was deployed it and prefer visit this link : <https://gant-chart.netlify.app/> .

* Click on phase to view **duration**, **percentage done** and **phase resource**



## System requirement:

### Functional requirement:

In Software engineering and systems engineering, a functional requirement defines a function of a system or its component. A function is described as a set of inputs, the behavior, and outputs in our project the functional requirements are:

1 - System should make registered citizens request order to create ID card.

2 - System should make registered citizens request order to create Passport.

3 - System should make registered citizens to Inquire about the validity of the ID card.

4 - System should make any visitor in website to browsing the locations.

5 - System should make any visitor in website to browsing documentation for services.

6 - System can allow any citizen to Sign Up and Login.

7 - System should make registered citizens to enter to their profile.

8 - System allows to citizen send complaints and brows their service that can apply for registered citizen

9 - System make admin view and work on the citizen order then he can accept or Reject the order. Also can make him view the compliments

### Non-functional requirement:

In systems engineering and requirements engineering, a non-functional requirement is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors. They are contrasted with functional requirements that define specific behavior or functions

Environmental

* Our Application Support the Jordanian citizen.
* Accessibility, Ability to access and benefit from system, because user didn’t need to space or specific OS to use system.

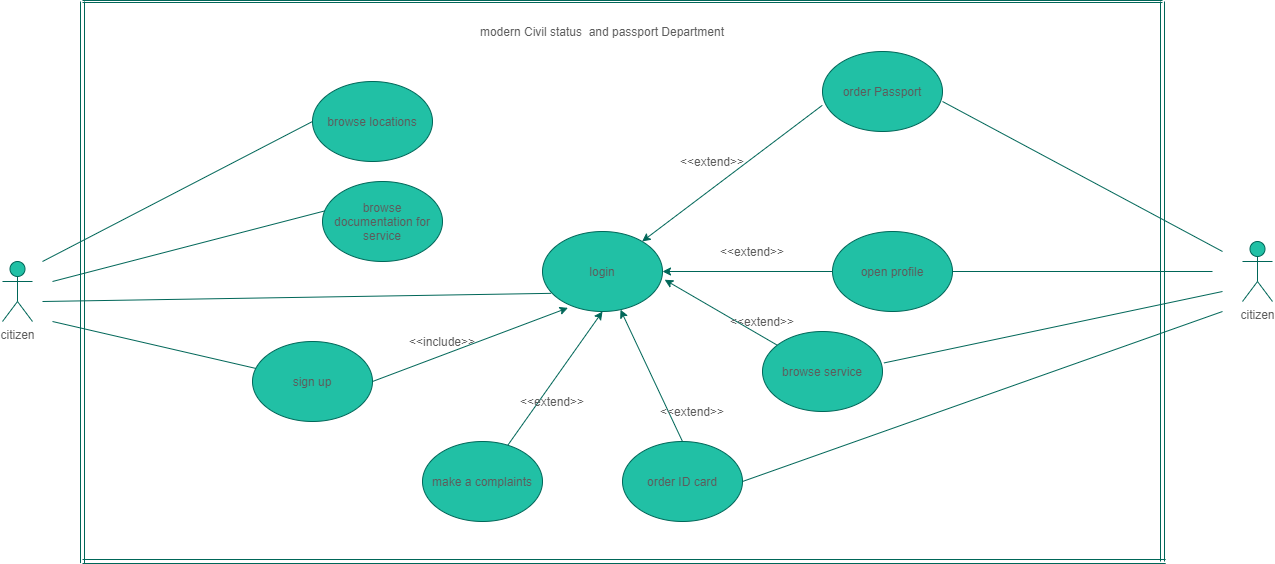
Performance:

* Accuracy in the information entered
* Fast and Easy Used.

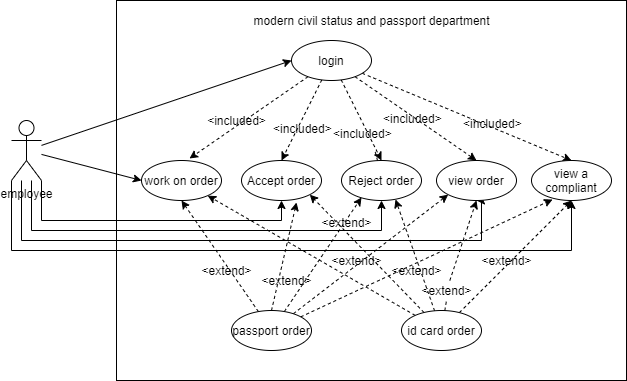
Maintainability

* Our Application must be developed from a time to another.
* Avoid making the users feeling boring and save time and effort.

## Use case diagram:



(Citizen use-case)



(Employee use-case)

|  |  |
| --- | --- |
| **Use case name** | Sign up |
| Actors | citizen |
| Description | To make user/employee enter for his account |
| Step of process | Enter required Login form |

|  |  |
| --- | --- |
| **Use case name** | Login |
| Actors | Citizen/Employee |
| Description | Make user create account to get specific service |
| Step of process | Enter required login form |

|  |  |
| --- | --- |
| **Use case name** | Order passport |
| Actors | Citizen |
| Description | To apply for a passport, user must fill and submit Application |
| Step of process | Enter the information completely and accurately, then confirm the order |

|  |  |
| --- | --- |
| **Use case name** | order ID card |
| Actors | Citizen |
| Description | To apply for a ID card, user must fill and submit Application |
| Step of process | Enter the information completely and accurately, then confirm the order |

|  |  |
| --- | --- |
| **Use case name** | Browse documentation service |
| Actors | Citizen |
| Description | To make all citizen know what is necessary for him |
| Step of process | Just enter to services page in website |

|  |  |
| --- | --- |
| **Use case name** | browse service |
| Actors | Citizen |
| Description | To view what is service for registered citizen |
| Step of process | After login user can open this page |

|  |  |
| --- | --- |
| **Use case name** | browse locations |
| Actors | Citizen |
| Description | To make all citizen know where is the nearest branch |
| Step of process | Website visitor By the map Exhibited in website |

|  |  |
| --- | --- |
| **Use case name** | open profile |
| Actors | Citizen |
| Description | To make citizen open and view his profile |
| Step of process | While citizen logged in to site he can enter |

|  |  |
| --- | --- |
| **Use case name** | Accept order |
| Actors | employee |
| Description | To give consent for citizen |
| Step of process | Check application If is correct or not. to start work in order |

|  |  |
| --- | --- |
| **Use case name** | Accept order |
| Actors | employee |
| Description | The request is due to lack or there is unconfirmed or correct information |
| Step of process | Deleting the application from the list with returning a notice to the citizen |

|  |  |
| --- | --- |
| **Use case name** | Reject order |
| Actors | employee |
| Description | The request is due to lack or there is unconfirmed or correct information |
| Step of process | Deleting the application from the list with returning a notice to the citizen |

|  |  |
| --- | --- |
| **Use case name** | view order |
| Actors | employee |
| Description | The request is due to lack or there is unconfirmed or correct information |
| Step of process | Deleting the application from the list with returning a notice to the citizen |

# Chapter 2: **System Design**

## Use-Case Diagrams

|  |  |
| --- | --- |
| **Use case name** | Sign up |
| Actors | citizen |
| Description | To make user/employee enter for his account |
| Step of process | Enter required Login form |
| Triggering Event | Citizen's desire to create online account to access service on the system |
| Pre-Condition | Citizen must be Jordanian |
| Post-Condition | Show Accept Message |
| Exception or Possible Error | 1 - Invalid submit because the user filling the form in wrong way,  2 - Also, it’s maybe can fill wrong information  3 – The user already registered |

|  |  |
| --- | --- |
| **Use case name** | Login |
| Actors | Citizen/Employee |
| Description | Make user login to his account for get specific service |
| Step of process | Enter required login form |
| Triggering Event | User desire to access online services and profile |
| Pre-Condition | User must have account |
| Post-Condition | Redirect user to home page |
| Exception or Possible Error | 1 - User does not exist  2 - Wrong password or Nationality number |

|  |  |
| --- | --- |
| **Use case name** | Order passport |
| Actors | Citizen |
| Description | To apply for a passport, user must fill and submit Application |
| Step of process | Enter the information completely and accurately, then confirm the order |
| Triggering Event | Citizens need to create a passport |
| Pre-Condition | 1 - Citizen must Logged In  2 – Not applied online order before to get Passport |
| Post-Condition | Show accept order message and redirect to services page |
| Exception or Possible Error | 1 – The phone number Invalid  2 – the mother’s name must have four sections in Arabic and English  3- Fields is empty |

|  |  |
| --- | --- |
| **Use case name** | order ID card |
| Actors | Citizen |
| Description | To apply for a ID card, user must fill and submit Application |
| Step of process | Enter the information completely and accurately, then confirm the order |
| Triggering Event | Citizens need to create a ID card |
| Pre-Condition | 1 - Citizen must Logged In  2 – Not applied online order before to get ID card |
| Post-Condition | Show accept order message and redirect to services page |
| Exception or Possible Error | 1 – The phone number Invalid  2 – the mother’s name ccitizen must have four sections  3- Fields is empty |

|  |  |
| --- | --- |
| **Use case name** | Browse documentation service |
| Actors | Citizen |
| Description | To make all citizen know what is necessary for him |
| Step of process | Just enter to services page in website |
| Triggering Event | Citizen entry to browse required documents |
| Pre-Condition | Visit the website |
| Post-Condition | View all required doc. For citizen |
| Exception or Possible Error | Page not found (if there’s upgrade or maintenance on server) |

|  |  |
| --- | --- |
| **Use case name** | browse service |
| Actors | Citizen |
| Description | To view what is service for registered citizen |
| Step of process | After login user can open this page |
| Triggering Event | After Logged In system redirect Citizen in this page |
| Pre-Condition | Citizen must Logged In |
| Post-Condition | Redirect the Citizen to (passport/ Id card) modal to apply order if it possible |
| Exception or Possible Error | Page not found (if there’s upgrade or maintenance on server) |

|  |  |
| --- | --- |
| **Use case name** | browse locations |
| Actors | Citizen |
| Description | To make all citizen know where is the nearest branch |
| Step of process | Website visitor By the map Exhibited in website |
| Triggering Event | Citizen entry to browse branch’s locations |
| Pre-Condition | Visit the website |
| Post-Condition | Open small modal to view directions |
| Exception or Possible Error | 1 – new branch not added to the map  2 – close branch without delete his mark on map |

|  |  |
| --- | --- |
| **Use case name** | open profile |
| Actors | Citizen |
| Description | To make citizen open profile and to view or update his information |
| Step of process | While citizen logged in to site he can enter |
| Triggering Event | Citizen desire to be sure or update profile information |
| Pre-Condition | Citizen must Logged In |
| Post-Condition | Changed profile information if user changed it |
| Exception or Possible Error | Enter new wrong information |

|  |  |
| --- | --- |
| **Use case name** | Accept order |
| Actors | employee |
| Description | To give consent for citizen |
| Step of process | Check application If is correct or not. to start work in order |
| Triggering Event | It has been confirmed that the request information is correct |
| Pre-Condition | 1- Employee must Logged In as admin not citizen  2 – all required information It’s correct |
| Post-Condition | Accepted the citizen order then start work on |
| Exception or Possible Error | 1- Lost internet connection |

|  |  |
| --- | --- |
| **Use case name** | Reject order |
| Actors | employee |
| Description | The request is due to lack or there is unconfirmed or correct information |
| Step of process | Deleting the application from the list with returning a notice to the citizen |
| Triggering Event | There is an wrong in the order information |
| Pre-Condition | 1 - Employee must Logged In as admin not citizen  2 – find wrong information in order |
| Post-Condition | rejected the citizen order and select new one |
| Exception or Possible Error | 1- Lost internet connection |

|  |  |
| --- | --- |
| **Use case name** | view order |
| Actors | employee |
| Description | The request is due to lack or there is unconfirmed or correct information |
| Step of process | Deleting the application from the list with returning a notice to the citizen |
| Triggering Event | Choose order to start work on |
| Pre-Condition | Logged In |
| Post-Condition | Start working on order |
| Exception or Possible Error | 1- Lost internet connection  2 – server under maintenance |

## Data Flow Diagram

### Context Diagram:

Diagram

Description automatically generated

### **Level-0 DFD**

Diagram

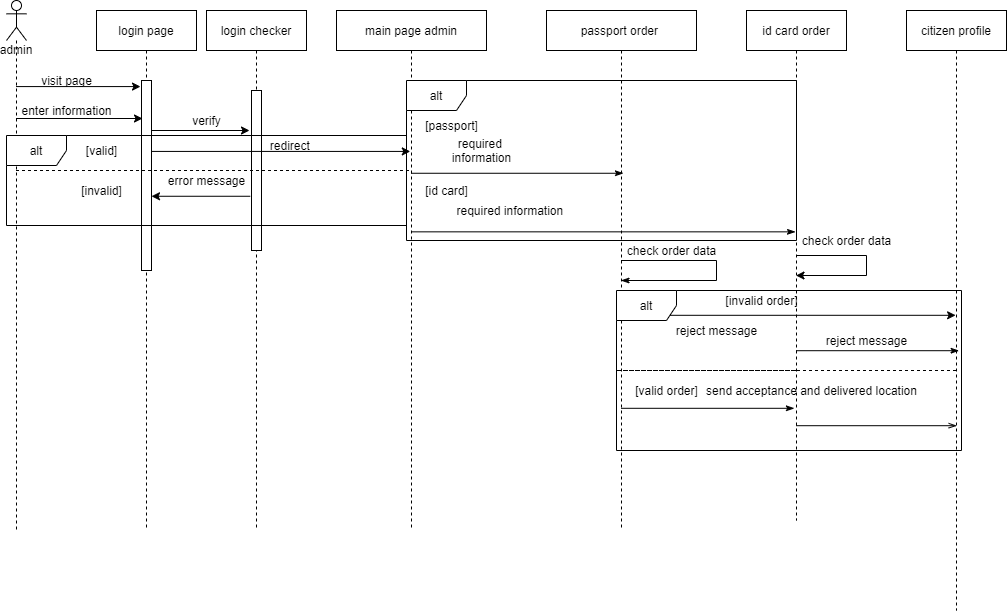
Description automatically generated

## Sequence Diagram

### Citizen sequence:

### 

### Admin sequence:



Select order

## Database Design

### **Table/Entity**

|  |  |
| --- | --- |
| **Admin** | **Graphical user interface, application  Description automatically generated** |
| **Assent\_Id** | **Graphical user interface, application  Description automatically generated with medium confidence** |
| **complaint** | **Graphical user interface, application  Description automatically generated** |
| **user** | **Graphical user interface, application  Description automatically generated** |
| **Id\_card** | **Table  Description automatically generated** |
| **Passport** | **Table  Description automatically generated** |

### **Database Entity Relational Diagram (ERD)**

Diagram

Description automatically generated with low confidence

### **Database Schemas Diagram**

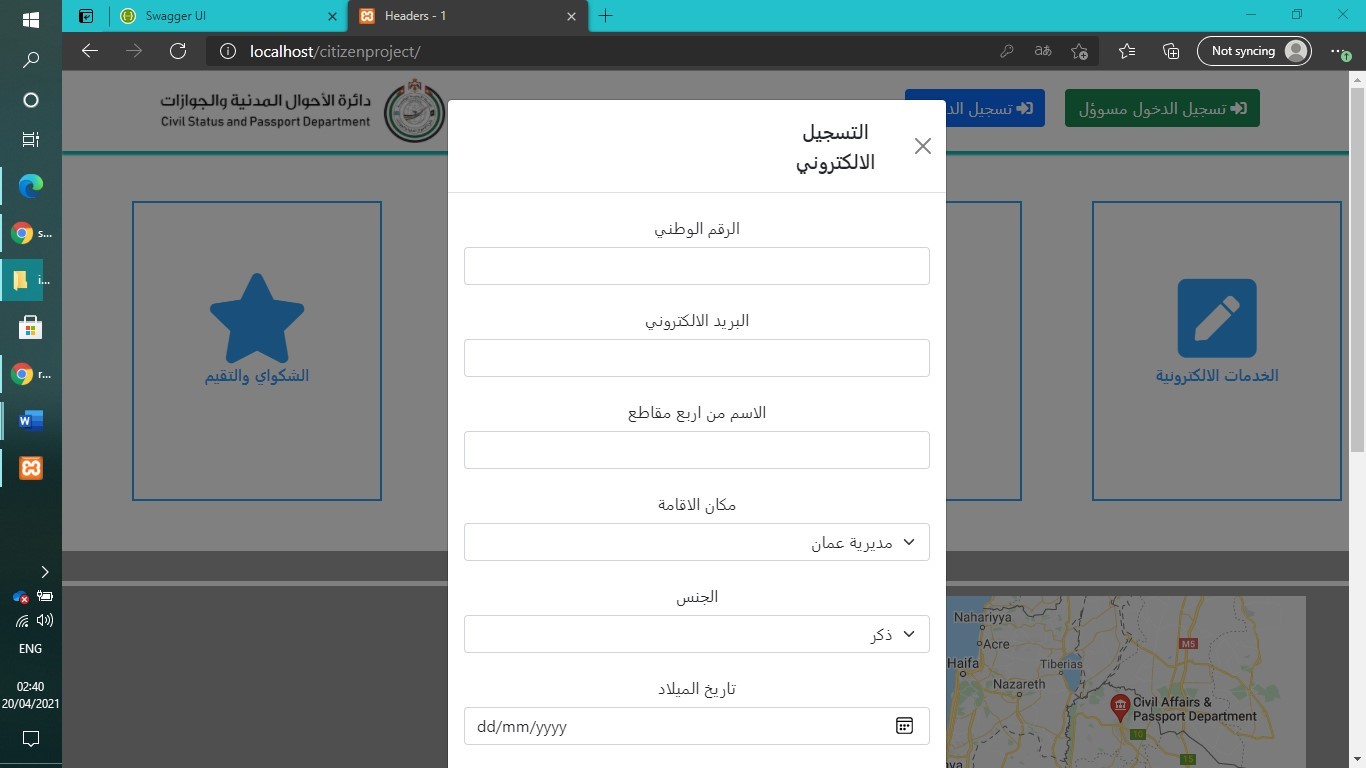
A picture containing graphical user interface

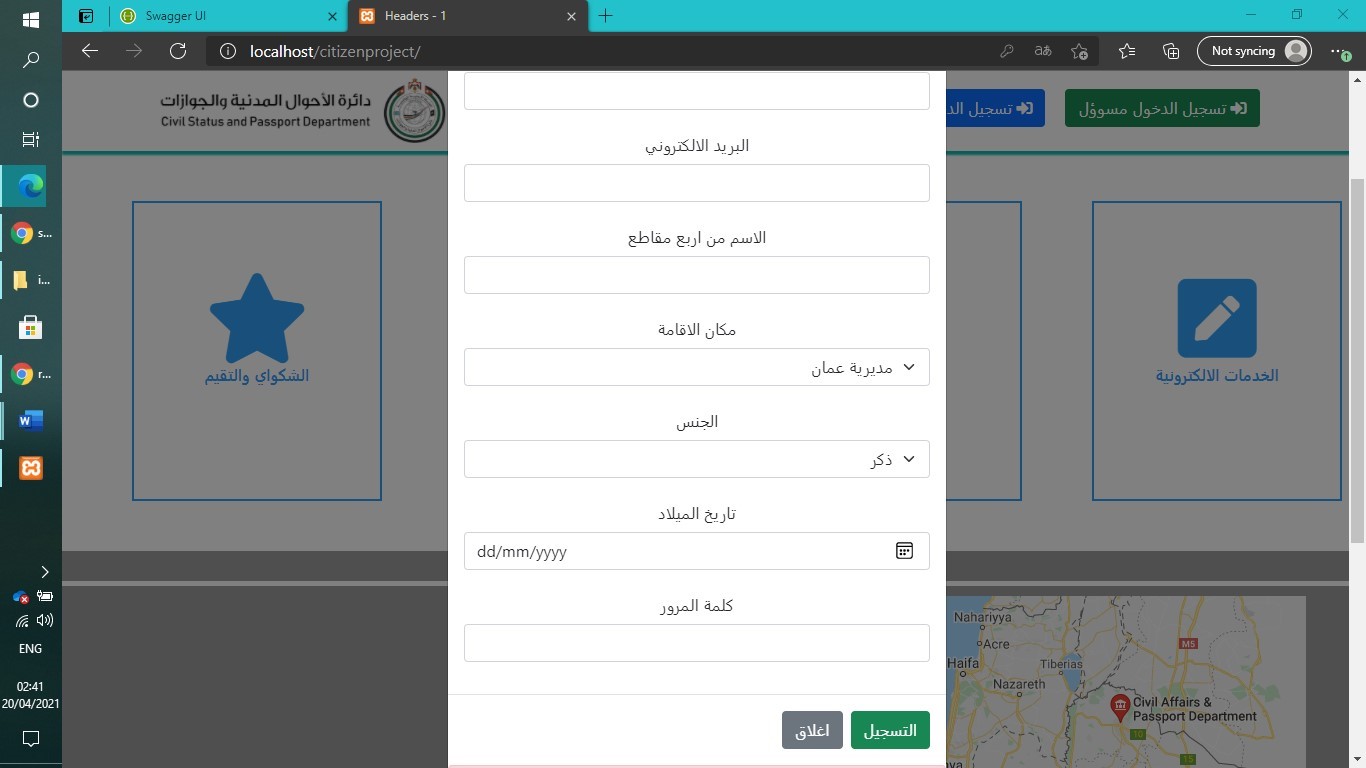
Description automatically generated

## Graphical-Interface (GUI) Design

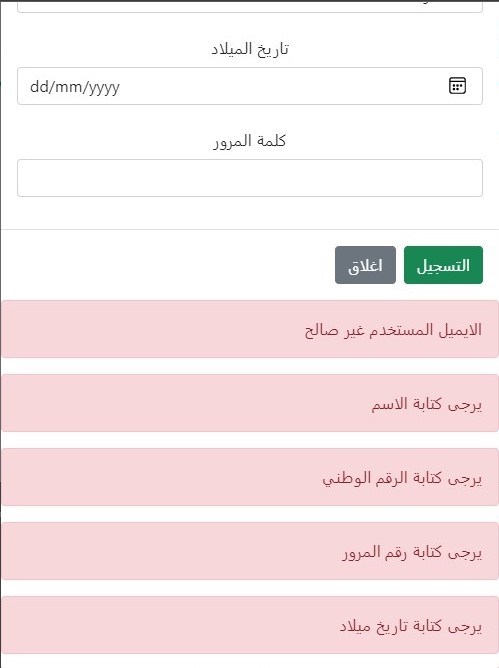
### **Forms & Reports-Design**

#### **Register Form**





#### **Register form messages**



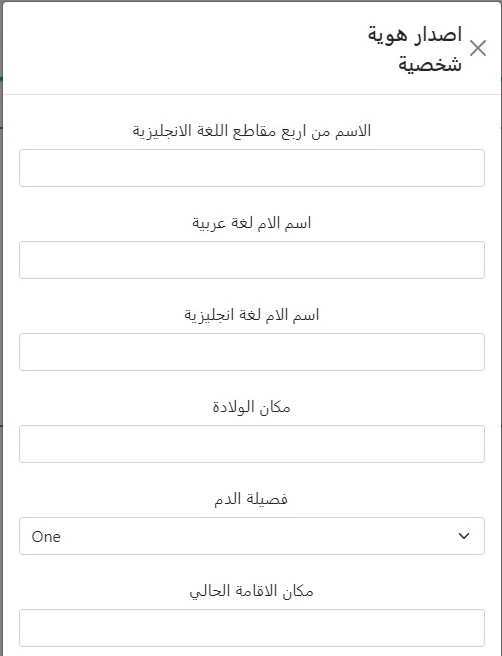
#### **Login form**

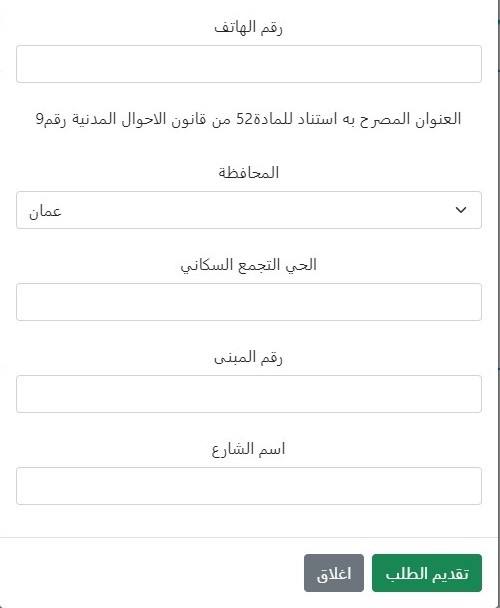


#### **Error login form**

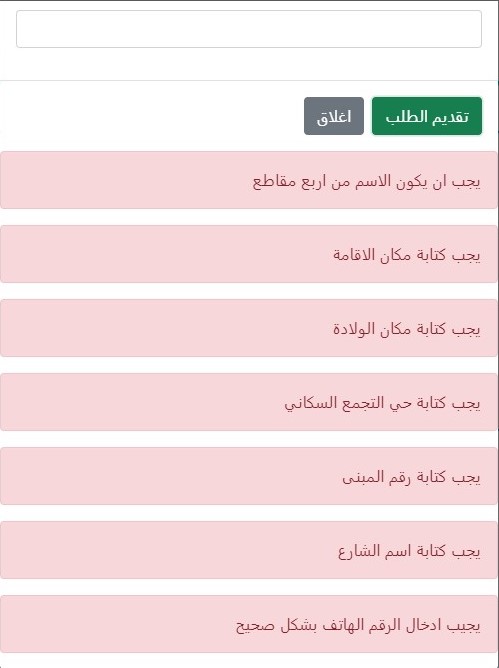


#### **ID card order form**

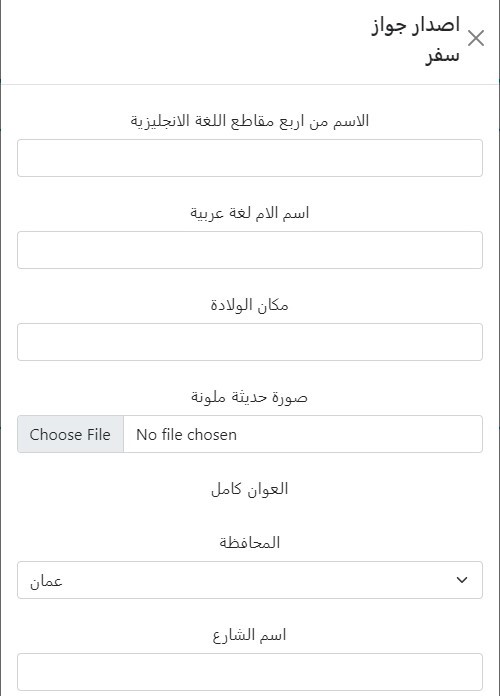




#### **Error ID card order form**

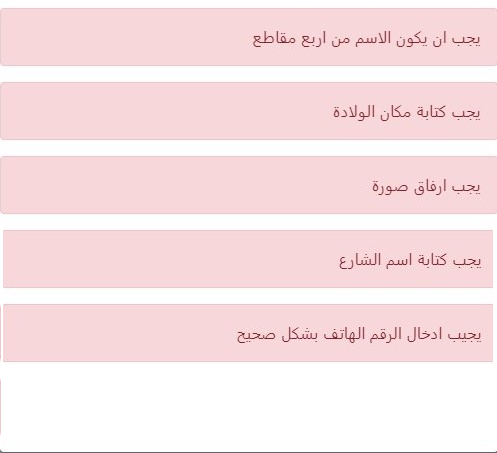


#### **Passport order form**

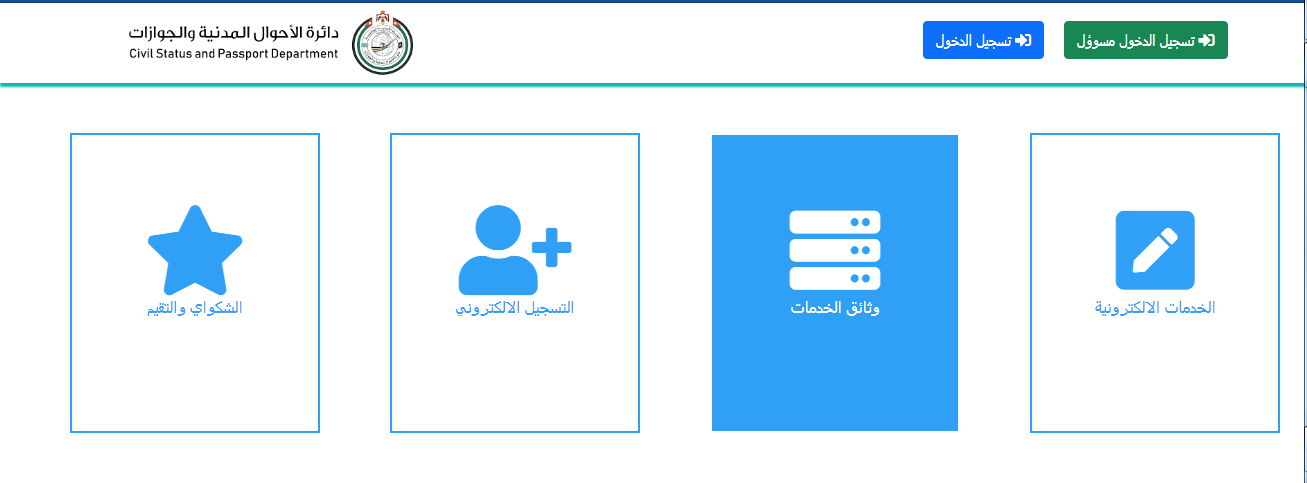




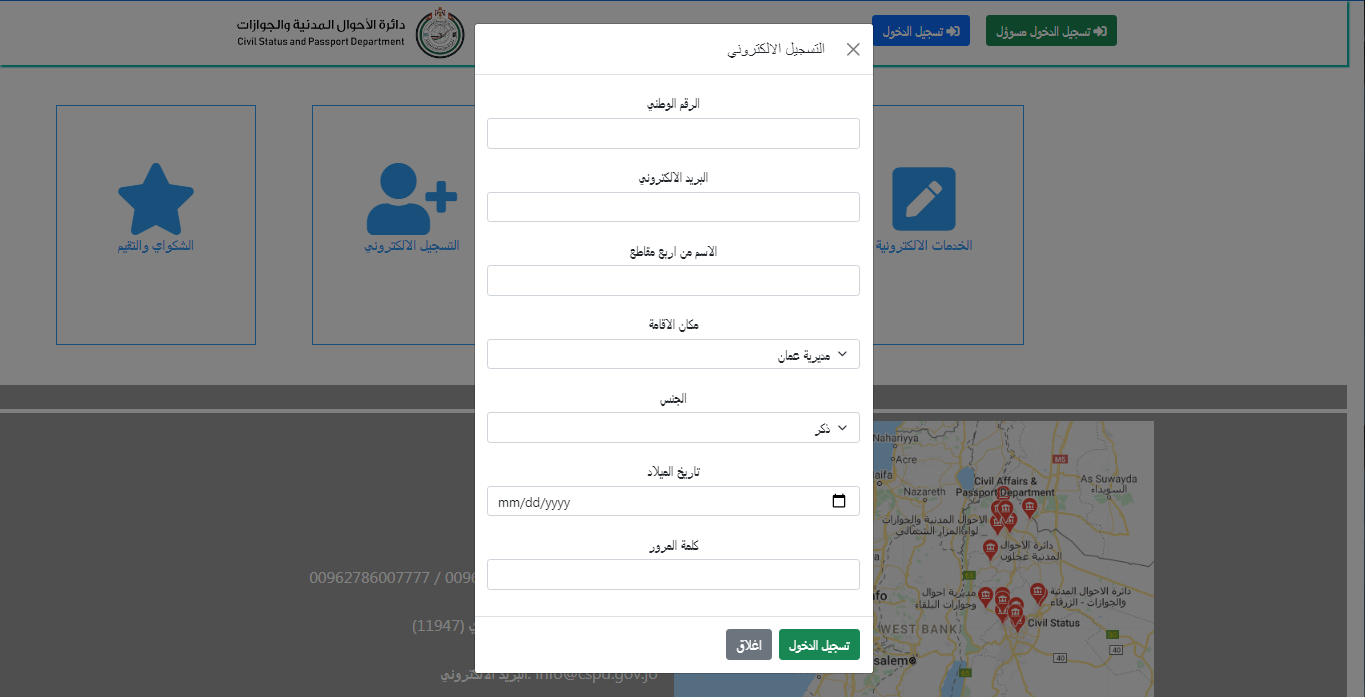
#### **Error passport form**



### User pages Screenshot

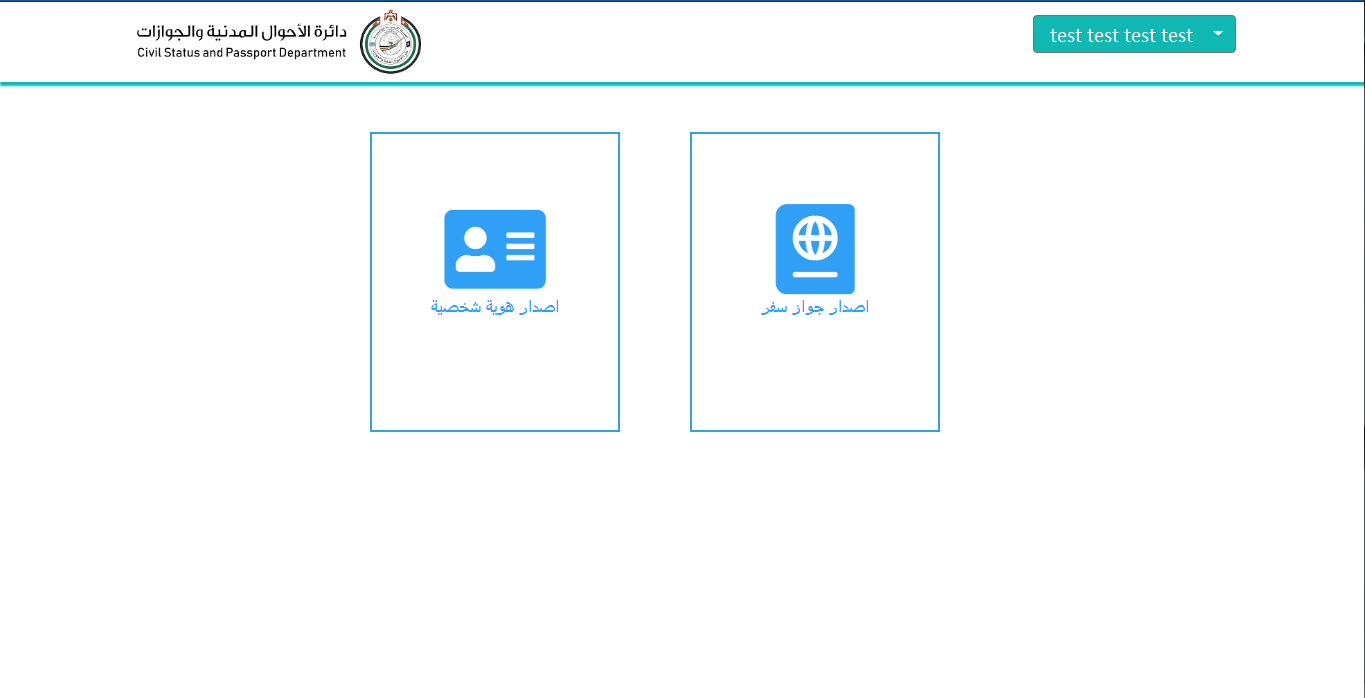




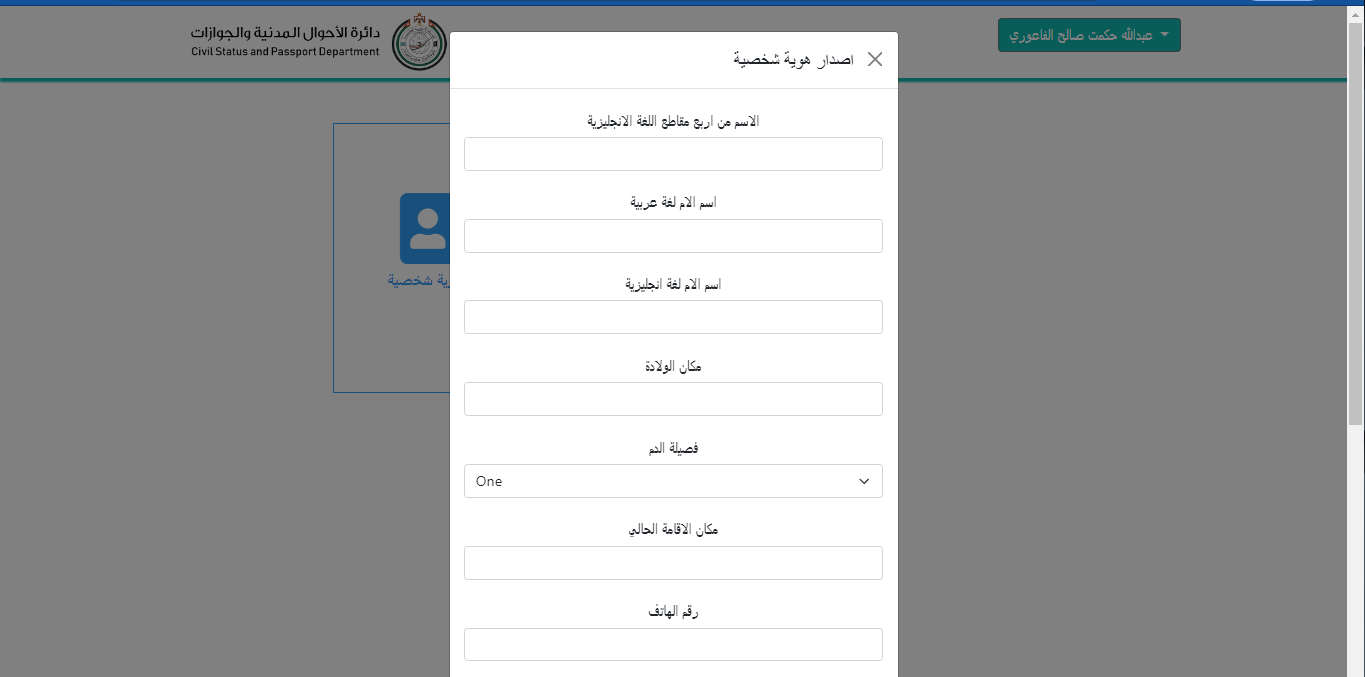


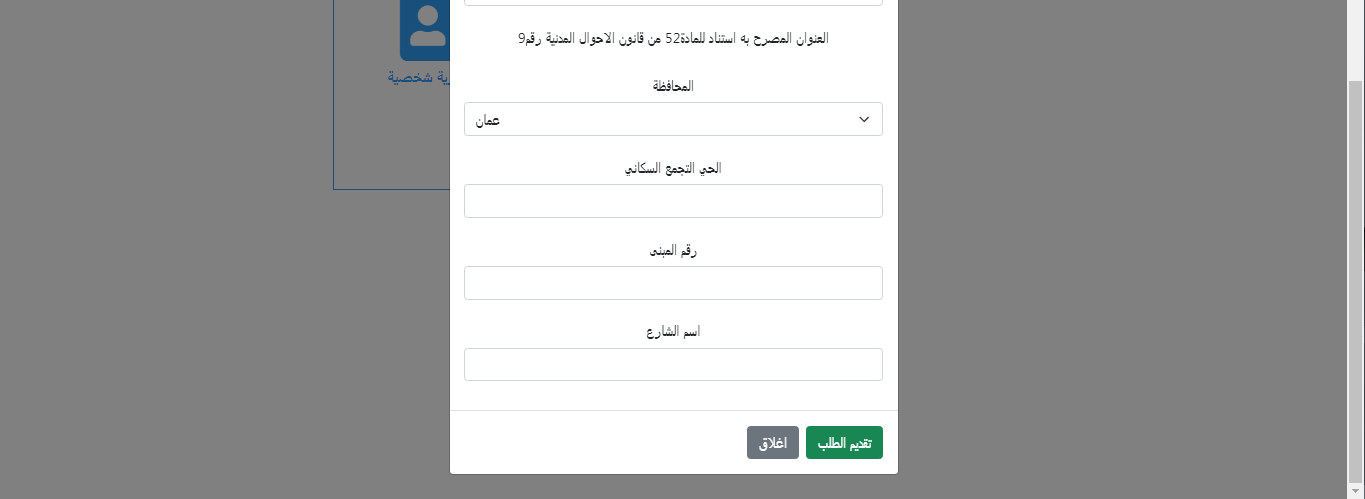


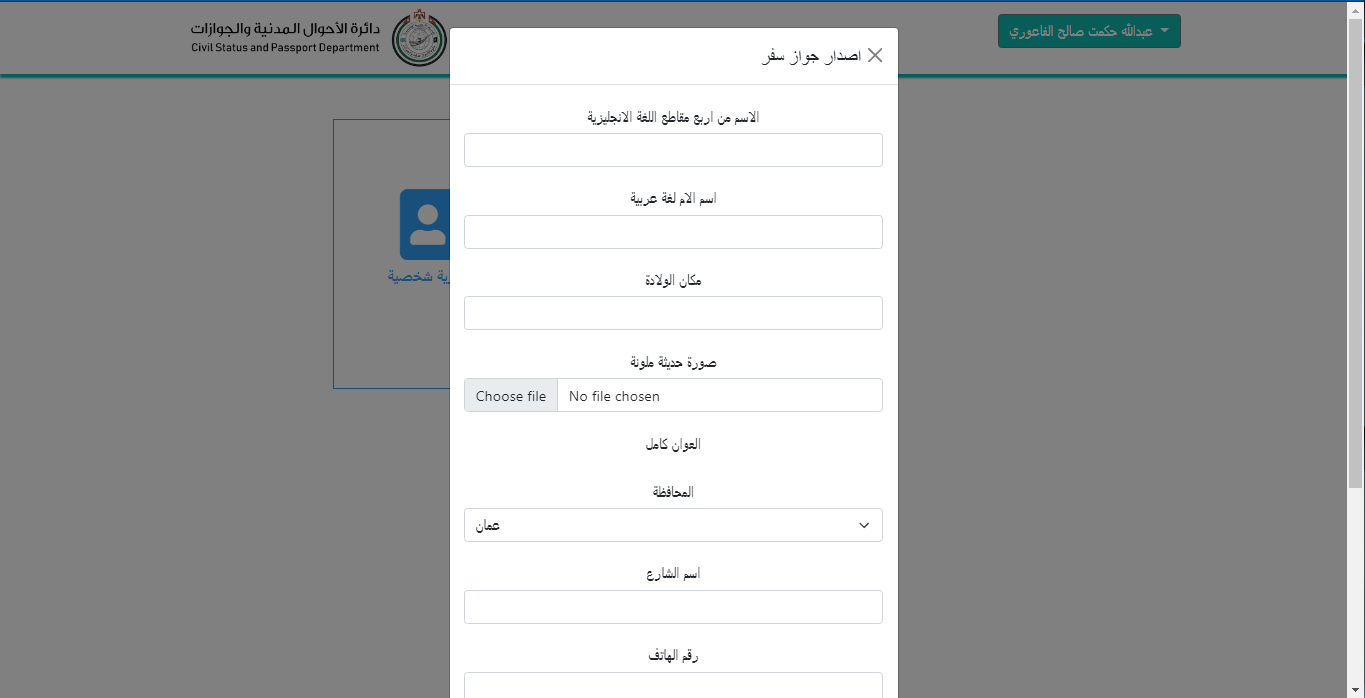


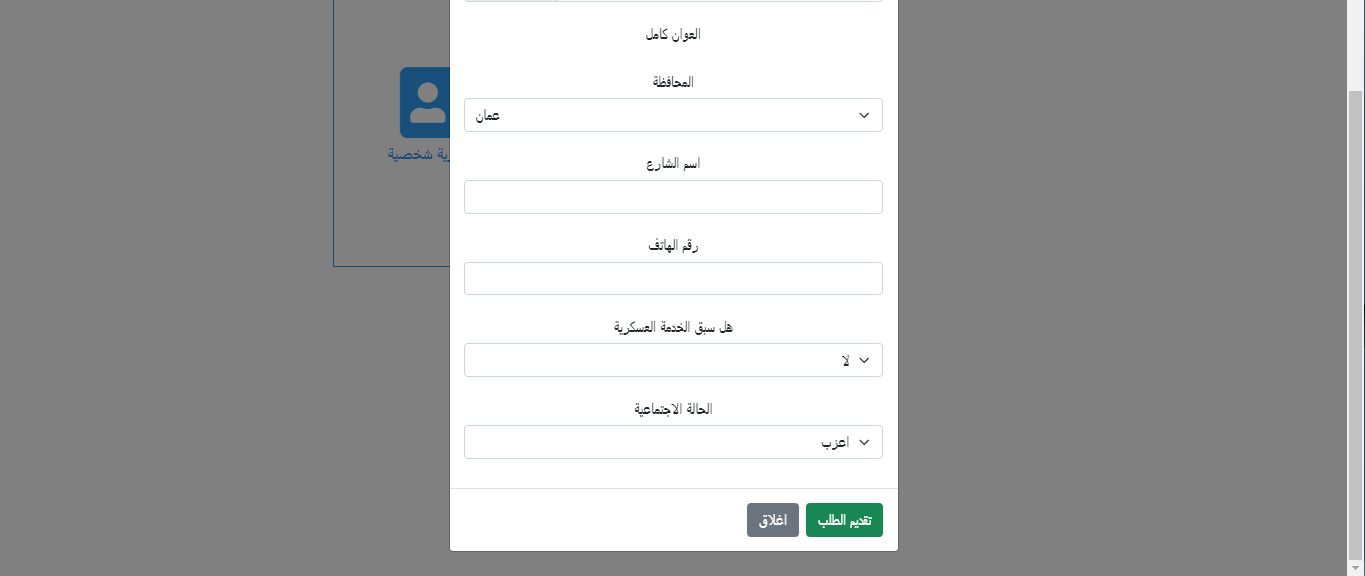


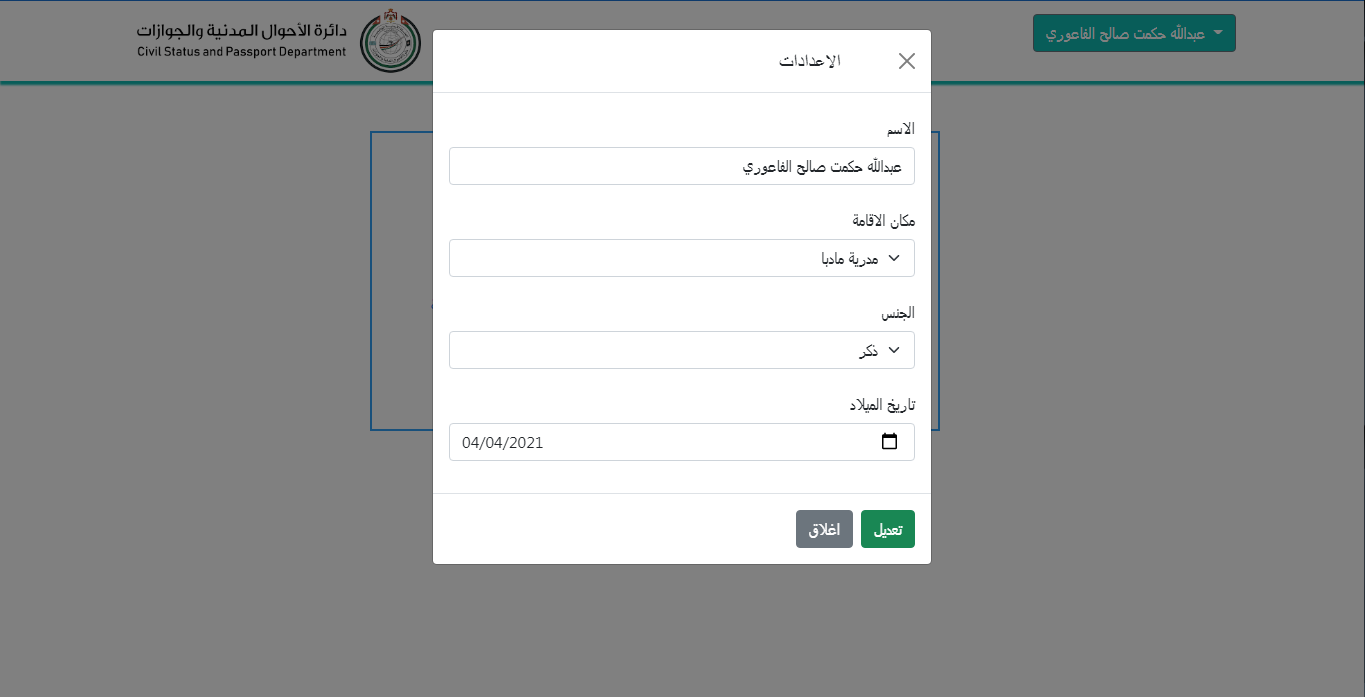




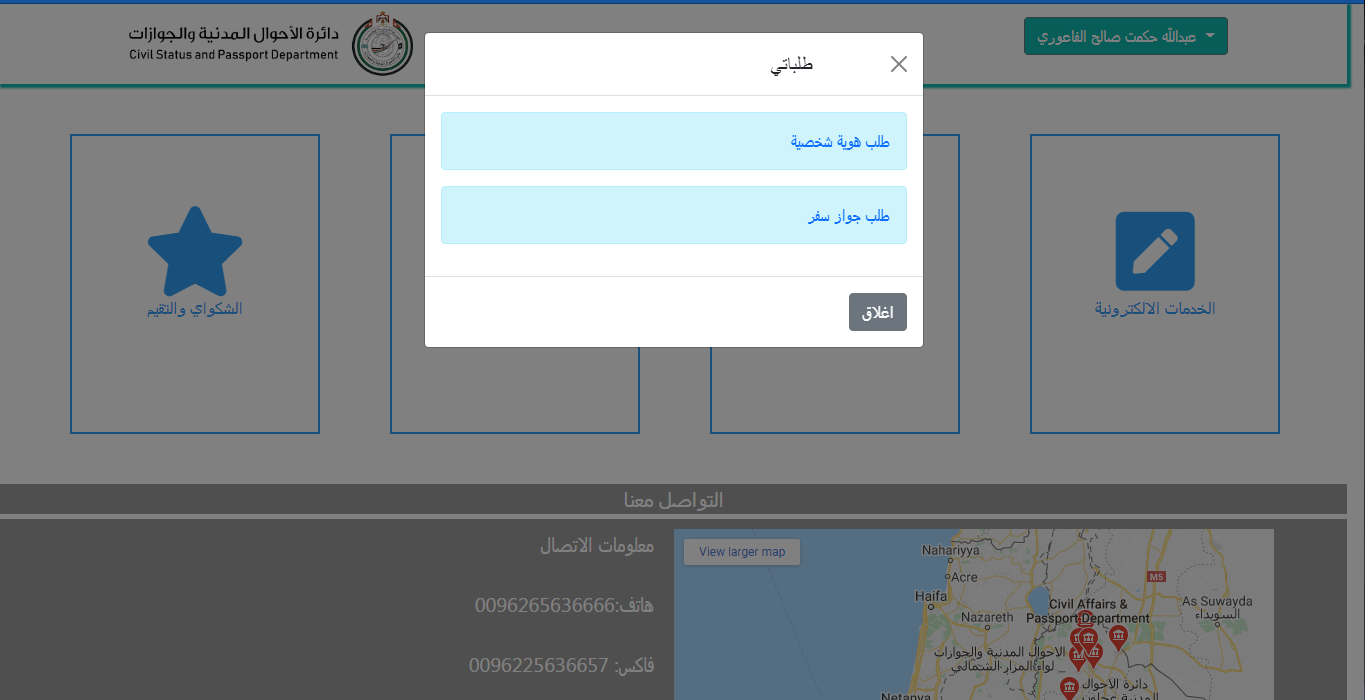












## References:

1 - <https://www.ammonnews.net/article/572369> . Friday, March 5:03 PM.