Ministry of Digital Economy and Entrepreneurship

Aseel Ali Al-Owaidi

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Dr. Jalal Kiswani

Ms. Hana Alrasheed

Dr. William Smairat

Ms. Jacquelyn Brown

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I.   Introduction

I would like to thank Al Hussein Technical University and the Ministry of Digital Economy and Entrepreneurship for giving me this great opportunity. ICT enables economic growth by broadening the reach of technologies such as high-speed Internet, mobile broadband, and computing; expanding these technologies itself creates growth, and the fact that technologies make it easier for people to interact and make workers more productive creates additional benefits.

Living in the digital world, a website is crucial for any ministry. A website can be used to accomplish many different services to help the ministry grow. I have built a responsive website for the Ministry of Digital Economy and Entrepreneurship with a new design aimed at offering three services: support students in ICT, support alumni in southern universities within ICT to find job opportunities, and support graduation projects in ICT. It is a great opportunity to enhance cooperation between creative youth and the ministry.

II.   Project details

All details related to the project are explained below.

1. Technology

Front end: The practice of converting data to a graphical interface, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that data.

I created my website by using: HTML5, CSS3, Flex and Bootstrap.

Back end: Is   what keeps the internet running behind the scenes, lays the foundational code that enables websites to process the actions that users take on the front end and deliver the correct information in return.

I created my website by using PHP.

Database: An organized collection of data, generally stored and accessed electronically from a computer system. Where databases are more complex they are often developed using formal design and modeling techniques.

I created my website by using MySQL Workbench.

Modeling: I created my website by using: Lucid chart, Draw.io, Proto.io, PowerPoint and visual studio.

Version control: A class of systems responsible for managing changes to computer programs, documents, large web sites, or other collections of information. Version control is a component of software configuration management.

I created my website by using GitHub.
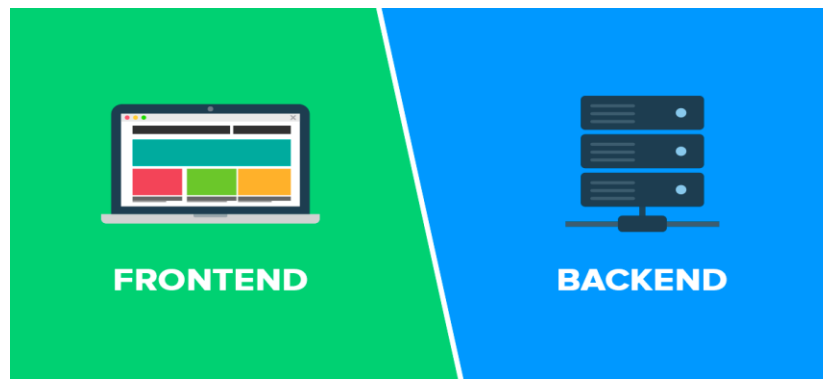
2. Requirements

1. User should be able to get all the information, news and services related to ministry from the website.

2. If the users at school and interested in technology they should be able to apply for a service created for them by filling all the required fields.

3. If the users at universities and interested in technology they should be able to apply for a services created for them especially for graduation projects and graduates in the southern universities by filling all the required fields.

4. Users should be able to get a message to thank them for filling the forms.

5. User should be able to get all the information to contact with the ministry.

3. Design

1. **Sitemap**: This is a file where you provide information about the pages, videos, and other files on the site, and the relationships between them.
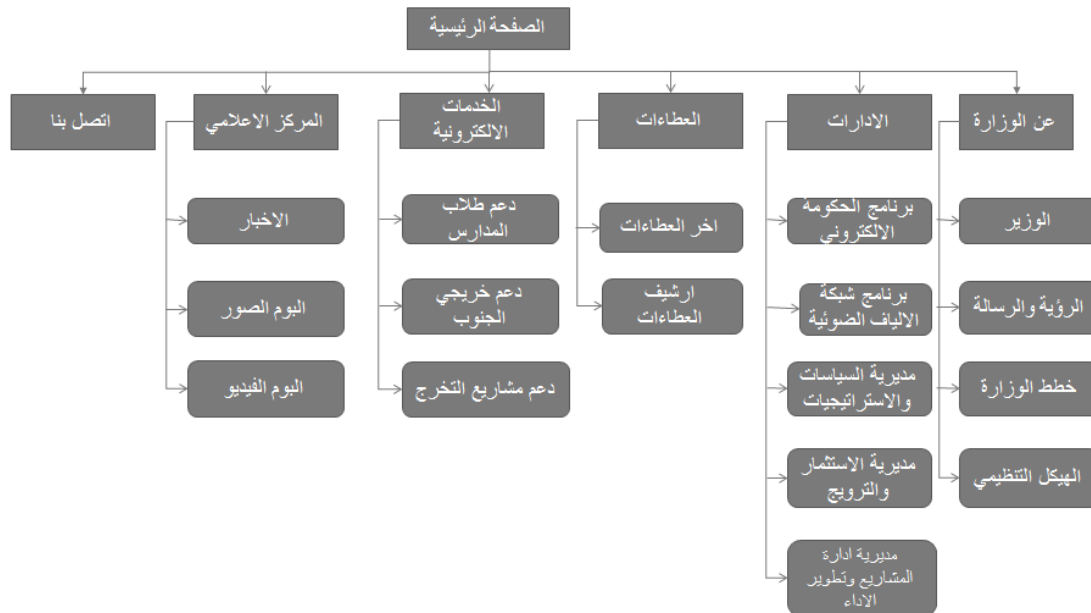
2. **Wireframe**: is a two-dimensional skeletal outline of my website. Wireframes provide a clear overview of the page structure, layout, information architecture, functionality, and intended behaviors.
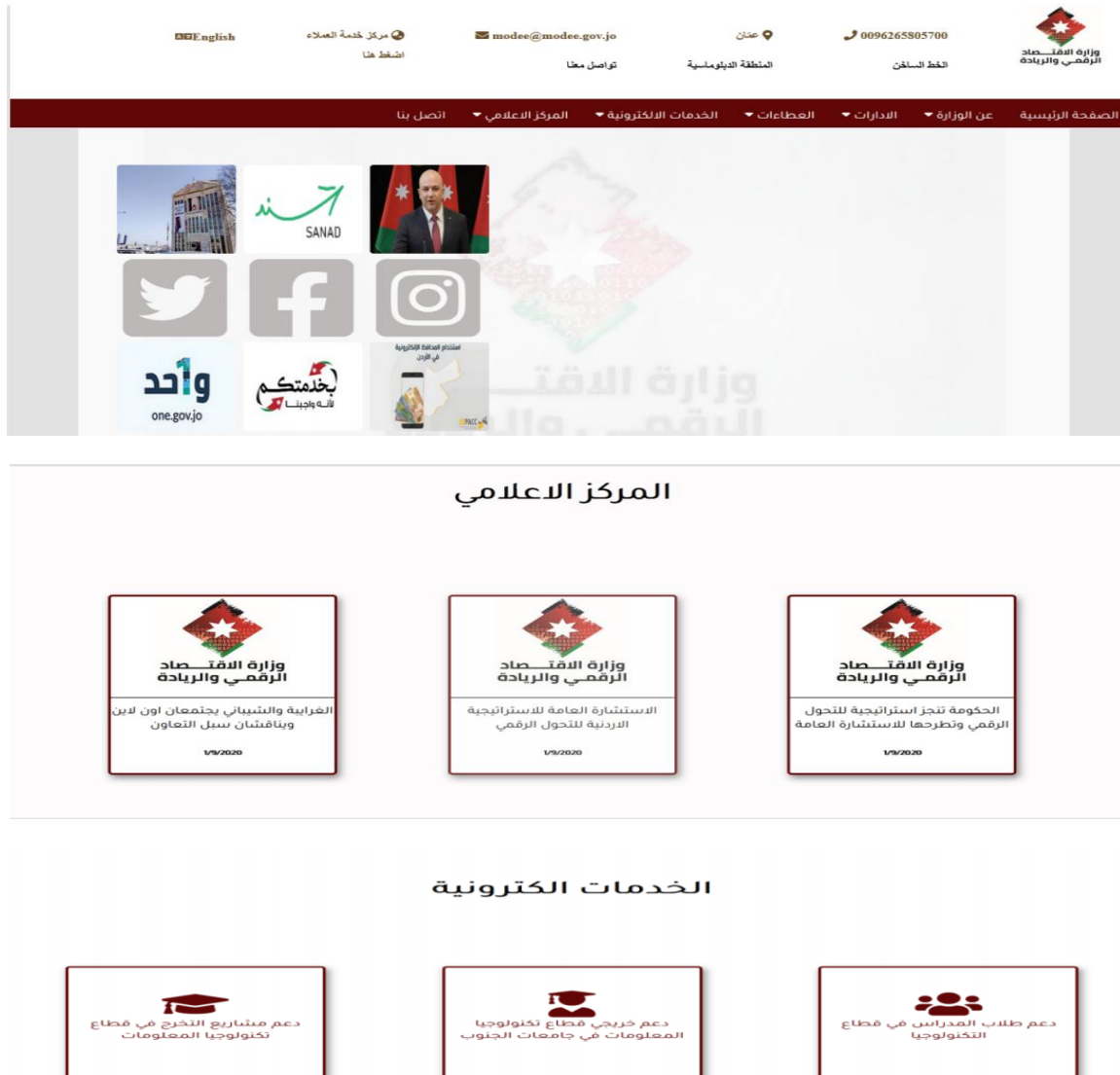

Home page- provide a clear overview of the home page

header

الرؤية

الرسالة

footer
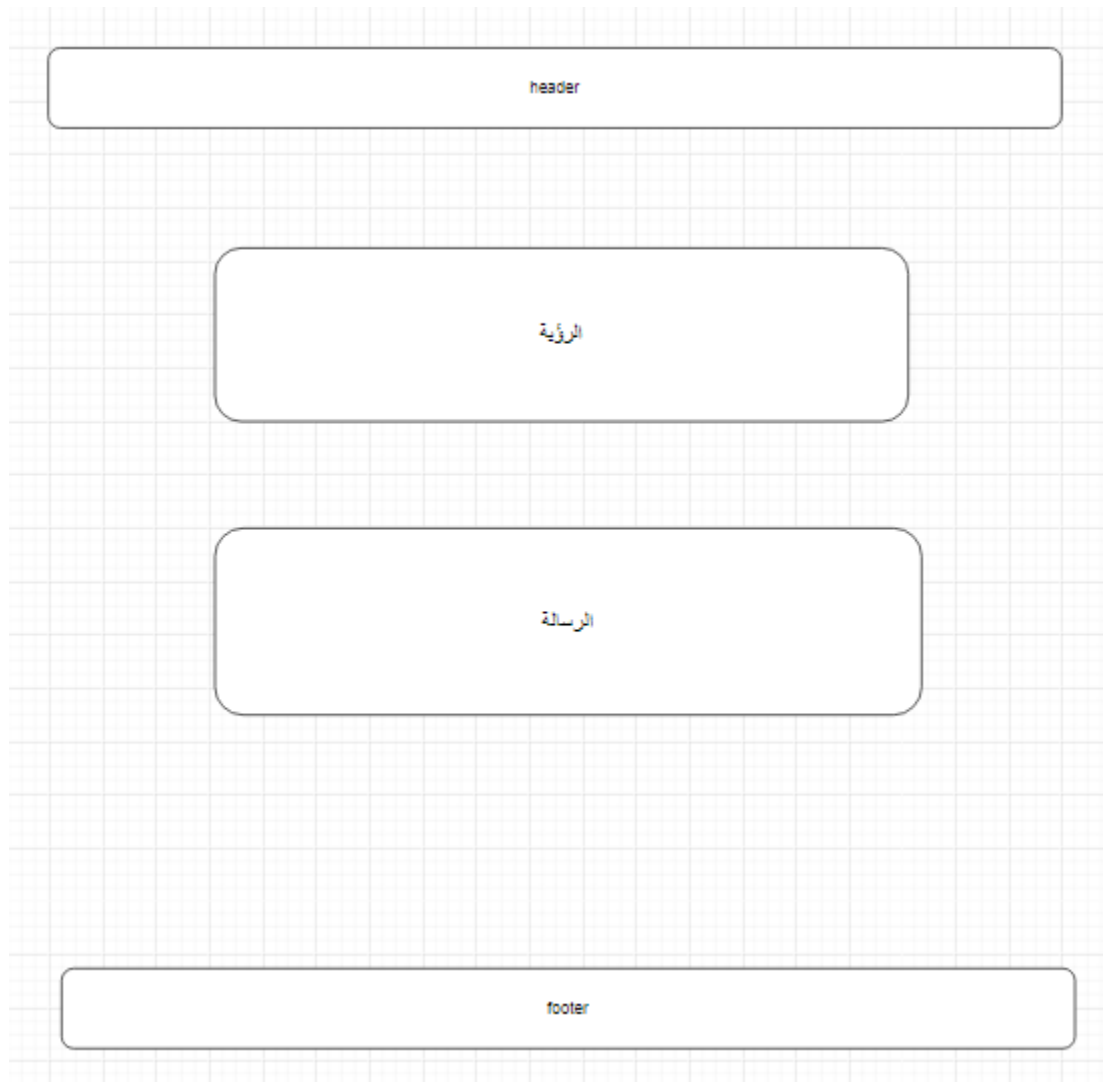
Page has information about minister (a lot of pages have the same structure)

3. **Mockup**: is a high-fidelity simulation of how a website will look. Website mockups combine the structure and logic of a wireframe but with the images, graphics and UI elements that the final product will have.

Mockup for home page

Mockup for minister page (a lot of pages have the same mockup)

4. **Prototype**: is interactive demo of a website. These are often used to gather feedback from project stakeholders early in the project lifecycle, before the project goes into final development.

الخدمات الكترونية

دعم مشاريع التخرج في قطاع تكنولوجيا المعلومات

دعم خريجي قطاع تكنولوجيا المعلومات في جامعات الجنوب

دعم طلاب المدارس في قطاع التكنولوجيا

الرسالة والرؤية	الخدمات الالكترونية	روابط مهمة	وسائل التواصل الاجتماعي
اقتصاد رقمي شمولي يحقق تنمية اقتصادية واجتماعية مستدامة	• طلاب المدارس	• الهيكل التنظيمي	
تعزيز البيئة التشريعية والتنظيمية والارتقاء بالبنى التحتية لتمكين	• خريجي جامعات الجنوب	• سند	
التحول الرقمي وتحفيز الابداع والابتكار	• مشاريع التخرج	• التواصل	

Prototype for home page

Prototype for ministry plan: when you click on any plan you can get more details about it.

برنامج شبكة الالياف الضوئية الوطني

الرئيسية » الادارات » برنامج شبكة الالياف الضوئية الوطني

إنطلاقاً من الرؤية الملكية السامية وبناءً على موافقة مجلس الوزراء الموقر بتاريخ 25 حزيران 2003 فقد تم البدء في إنشاء شبكة الألياف الضوئية الوطنية من خلال وزارة الإتصالات وتكنولوجيا المعلومات حيث تم الانتهاء من تنفيذ شبكة التعليم الجامعي والبحث العلمي في عام 2005 و ذلك بربط ثماني جامعات حكومية. إضافة لذلك ، فقد تم البدء بتنفيذ شبكة المدارس التي تهدف إلى ربط حوالي 3600 مؤسسة تعليمية والتي تشمل مدارس حكومية و كليات مجتمع ومحطات معرفة ومراكز مصادر تعلم ولتعظيم الإستفادة من هذه الشبكة في خدمة الجهود الوطنية لتطوير وتحديث القطاع العام . فقد تم توسيع نطاق الشبكة لتشمل ربط الجهات الحكومية وربط الجهات الصحية.

وقد تم إنجاز ربط 1361 موقع موزعة كالتالي :
930 جهة تعليمية. 315 جهة حكومية و 116 جهة صحية موزعةً على المناطق كما في الجدول التالي:

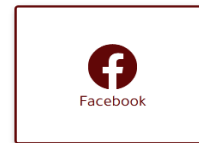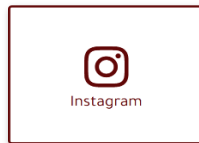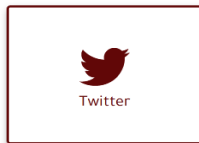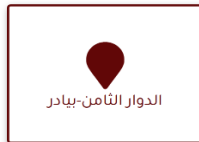| عدد الجهات الصحية	عدد الجهات الحكومية	عدد الجهات التعليمية	مجموع المواقع	المنطقة
8	20	79	107	اربد الداخلية
38	12	179	229	اربد الخارجية
21	14	88	123	المفرق
8	7	28	43	الرمثا
10	119	227	356	عمان
11	29	58	98	العقبة
2	0	0	2	معان
0	0	4	4	الجفر
18	111	255	384	الكرك
0	0	8	8	(لاسلكي) السلط+الزرق+الدفيانة+حيان الرويبض
0	3	4	7	خط عمان-العقبة
116	315	930	1361	مجموع المواقع المربوطة

الرسالة والرؤية
اقتصاد رقمي شمولي يحقق تنمية اقتصادية واجتماعية مستدامة
تعزيز البيئة التشريعية والتنظيمية والارتقاء بالبنى التحتية للتمكين
التحول الرقمي وتحفيز الابداع والابتكار

الخدمات الالكترونية
- تقديم اقتراح
- تقديم شكوى
- استفسار
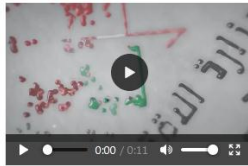
روابط مهمة
- الهيكل التنظيمي
- سند
- التواصل

وسائل التواصل الاجتماعي
- f
- Instagram
- Twitter
- YouTube

Prototype for national broadband network program

Prototype for news page

Prototype for photo gallery

Prototype for video gallery

Prototype for contact us page

prototype for one of the services- it is a form by filling the fields you can apply for the service.

5. **ERD**: is an Entity Relationship Diagram for website which is a graphical representation of database entities (tables, table columns, table definitions, attributes) and inter-relationships between these entities (how the tables are connected).

ERD for website's database
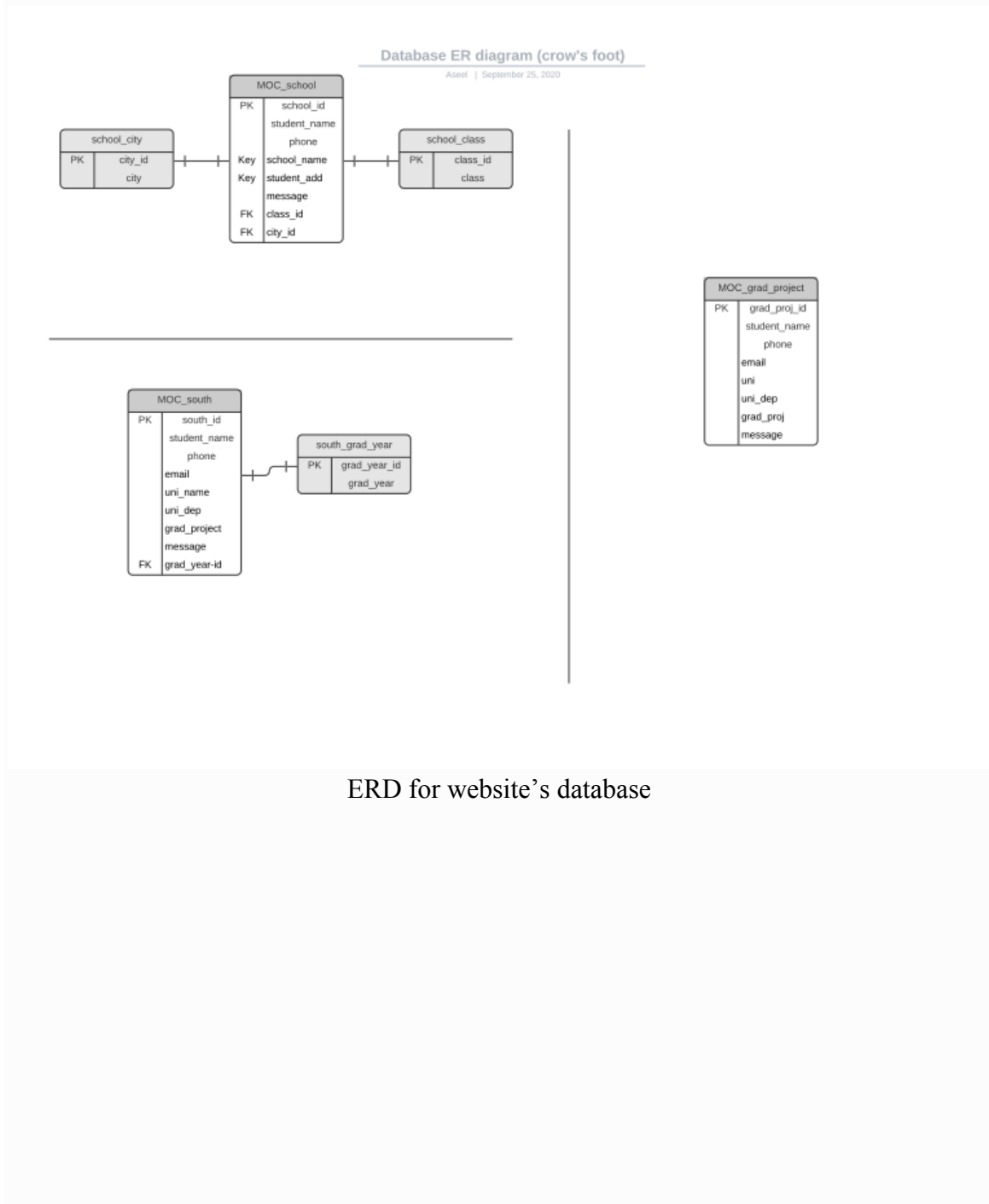
4. Development

For backend I use PHP for database and to make a connection between frontend and backend also I used MySQL Workbench for database.

```php
gradinfo.php
1   <?php
2   include '../Ministry/config.php';
3
4   if(isset($_POST['name'])){
5       $data= $mysqli->query("INSERT INTO `commerce`.`graduation` (`name`, `num`, `email`, `uni`, `department`, `project`, `me
6       VALUES ('$_POST[name]', '$_POST[num]', '$_POST[email]', '$_POST[uni]', '$_POST[department]', '$_POST[project]', '$_POST
7       if($data)
8           echo 'inserted';
9
10      else
11      {echo 'Error';
12      echo $mysqli->error;
13      }
14  };
15  ?>
```

5. Testing

1. Field labels should be standard e.g. field accepting user's name should be labeled properly as 'Name'.

2. URL should open a specific page.

3. Check the text on all pages for spelling and grammatical errors.

4. Check the functionality of buttons available on all pages.

5. Max year in the select field must be current year (2020).

6. Enough space should be provided between field labels, columns, rows, error messages, etc.

7. Upon click of an input text field, the mouse arrow pointer should get changed to the cursor.

8. All pages should have a title.

9. Page text should be left-justified.

10. Check if correct data is getting saved in the database upon a successful page submit.

6. Deployment

Is the process of deploying the code (html, css, javascript and server code) from source control or source artifacts to a hosting platform. This is usually in the cloud or on a local server. So i create a domain name and hosting my website.

7. Screenshots

Here I will show you screenshots from my website and code.

III. Services

1. Support students in ICT.

2. Support alumni in southern universities within ICT to find job opportunities.

3. Support graduation projects in ICT.

IV. Source code

I used visual studio code to write my codes, I will show you some of my source code below.

```javascript
    <script>
        function myFunction() {
    var x = document.getElementById("myTopnav");
    if (x.className === "topnav") {
      x.className += " responsive";
    } else {
      x.className = "topnav";
    }
  }

  //Get the button
  var mybutton = document.getElementById("myBtn");

  // When the user scrolls down 20px from the top of the document, show the button
  window.onscroll = function() {scrollFunction()};

  function scrollFunction() {
    if (document.body.scrollTop > 20 || document.documentElement.scrollTop > 20) {
      mybutton.style.display = "block";
    } else {
      mybutton.style.display = "none";
    }
  }

  // When the user clicks on the button, scroll to the top of the document
  function topFunction() {
    document.body.scrollTop = 0;
    document.documentElement.scrollTop = 0;
  }
    </script>
```

```php
gradinfo.php
<?php
include '../Ministry/config.php';

if(isset($_POST['name'])){
    $data= $mysqli->query("INSERT INTO `commerce`.`graduation` (`name`, `num`, `email`, `uni`, `department`, `project`, `me
    VALUES ('$_POST[name]', '$_POST[num]', '$_POST[email]', '$_POST[uni]', '$_POST[department]', '$_POST[project]', '$_POST
    if($data)
        echo 'inserted';

    else
    {echo 'Error';
    echo $mysqli->error;
    }
};
?>
```

V.   Conclusion

Living in the digital world, a website is crucial for any ministry. A website can be used to accomplish many different services to help the ministry grow. The website provides a map and directions to the ministry for all to find the locations easily. Nowadays, people are busy and also smart. They have no time to visit the ministry. They search the internet to know about the services and programs.

ICT permeates all aspects of life, providing newer, better, and quicker ways for people to interact, network, seek help, gain access to information, and learn. ICT is very important to school students, university students and alumni. Therefore, I focus on providing the website with three services related to ICT.