Online Guide for Bahraini Universities

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Abstract:
Bahrain University Guide "Website provides the ability to let users search for the right university, by providing all the necessary information about all the public & private universities in Bahrain. This website makes it easy for users to make the correct decision by choosing the right university that suits their abilities from the all-available alternatives of universities in Bahrain. What makes this website unique, which is much easy for users to select their future university, because all the information about all the universities of Bahrain is available to reach from one website only. Overall, this website enables you to reach all the necessary information about all the universities of Bahrain in a short time & less effort. Moreover, to avoid you to make wrong decisions due to time constraints and access to information requires greater effort.

Keywords: **Universities- public & private website- Decision - Information.**

1. Introduction

The use of information technology facilitates access to information, which gives the user access to information in the fastest time and less effort while ensuring the correctness of the information. The used technology will update constantly and facilitates the updating of data. This feature makes users more comfortable (Aldulaimi, Abdeldayem, Keir, & Al-Sanjary, 2021). Through this site, the user can access the data of all the desired universities in Bahrain quickly and easily and this contributes significantly to the decision-making process of which university is most suitable for each user.

Usually, students when they graduate from high school are looking for a university that suits their physical and mental abilities. This decision is built on their future requirements. Later students will work according to the study they chose and this makes this decision very important and should be taken with great care and without any hesitation or doubts because it will determine their future.

The universities in Bahrain are multi-faceted, namely, the University of Bahrain and Polytechnic University, while the private universities vary widely and reach as many as 10 universities: University of Applied Sciences, Ahlia University, Royal University for Woman, Arabian Gulf University, AMA University, Arab Open University, DePaul University, Gulf University, Kingdom University, and RCSI University.

When you have many options, it is difficult for you to choose between them, because you will choose the best, and this is what makes the decision-making process very important. It will determine your destination and future. Everyone who likes to continue university study

have to know the features, requirements, studies and tuition fees for each university of Bahrain Universities, and this may cost you long time and much effort to make a decision.

However, sometimes you do not have the time or the necessary information to take such an important decision. You need someone to make a decision or rely on yourself, but in this case your decision is not well studied, but you are forced to make a quick decision.

With the site that has been designed, there are all available alternatives for universities in Bahrain with all the necessary information for each university and it is easy to register and browse for all public and private universities.

Moreover, the site also provides access to university sites. Contact information is available for each university as: the location of each university, registration contact numbers, Instagram Account and other Communication details.

This Website helps people in the decision-making process, by displaying all available alternatives, which improves your decision, so you will choose the best alternative depending on your situation.

The idea of this website comes to collect the necessary information about all Bahrain universities to keep all the choices in front of students to support their decision by providing all the information needed on one site, to save time, effort and facilitate the using of website with easy access and browse in it.

Finally, to create this website we used our knowledge and experience we gained from "WEB APPLICATION DEVELOPMANT "course, and that makes us able to build this amazing website for the graduation project.

2. Theory And Analysis

Now, at the present time, the study of the university has become necessary, because life has become more difficult than before and the choices are multiple. This makes us fall victim to wrong fateful decisions. Today we need to make important decisions that result for our future as individuals and the future of society. It can be solved easily by accessing the right decision and through this site, which brings us all the alternatives available to choose the right one, and make the right decision in easy way with less effort in short time. This website is an example of "IS" technology, because its system created to provide information needed by the users, which helps them in decision-making process (Darwish, Ahmed, & PAHI, 2020) All what you need today to visit one site and get information about multiple websites, which provide you as a user amazing integration of websites to keep all data stored as one approach with easy access.

A. Introduction:

In each country, there are two sector of universities, public universities with government support with affordable fees for citizens. The other sector is the private universities which we have many of them on our country with different studies and average fees. You can choose one of the best University that suites your target study and fees. Public universities are certified by higher education 100%, but private universities are sometimes not certified by higher education because they sometimes aim for profits   more than the primary goal of educational.

As a student, you have to make a correct decision of choosing the right university from all the available alternatives, because this decision is going to affect your future later on. So that's mean you have to study all the alternatives carefully, but sometime you can't find all the information you need and that's a problem, because we don't have much time to search about these many alternatives.

We depend sometime on people opinions and experiences, to avoid long time of

searching or maybe because we need fast decision, or it can be easily depending on the university reputation, that's all not found on one website or application, so you can reach all the universities information within easy way and short time, to take your decision.

Some student takes wrong decision, because they are depending on other people opinions, or they just choose randomly. Therefore, we decide to create this website with all the necessary information people needs to make their choices, and also there will be contact button to reach the contact information for each university which make it an easy communication to any university you want.

For all of the above needs, I did my project to facilitate the way of search to be in short time and less effort with all the benefits that helps.

About the software and program languages for the coding reason: I have used many programs languages like for example: HTML, CSS, and java programing language.

Java Program Language is a general-purpose concurrent, strongly typed, class-based object-oriented language. It is a normal compiled to the byte code instruction setting and binary format defined in Java Virtual Machine Specification (Oracle, 2008).

The Cascading-Style Sheet or shortcut CSS is not a programming language. It is a markup language used with HTML written in a visual style to design the user interface of a website (the layout style is applied to markup language throughout same sections of the similar parts) (company, 2007). HTML (Hypertext Markup Language) is the language to describing the structure of the Web pages. HTML gives the authors the means:

1. To be able to publish online documents with headings, text, tables, lists and photos, etc.
2. To retrieve online information by hypertext links, at the click of a button.
3. To Design forms for conducting the transactions with remote services, for use in searching for information, and making reservations, ordering products, etc.
4. To include spread-sheets, also video clips, sound clips, and other applications direct into their documents.

With the HTML programming language, the authors can describe the structure of pages using the markup. The elements of language label pieces of the content such as "paragraph," "list," "table," and so on (Abdeldayem, 2022). I have learned about the java, CSS, and, HTML languages through my college courses, and that was very helpful to support me through my project. This knowledge will be implemented in websites page. Some videos will be watched to improve my ability and to learn about the new things that needed for the (Alhadi, Al-Deeb, Abdeldayem, Abo Keir, & Aldulaimi, 2022). More, I have learned and gained a lot of new knowledge through making my graduation project, because I had a new feature to deal with, by my background and some experience of computer since students, I get the ability to create this website. Also, the website page will be downloaded through a free cloud web hosting service, which was Heroku.

Heroku is a cloud Platform as a Service (PaaS) is supporting several programming languages such as: Java, PHP and other programming language. Heroku is one of the first cloud platforms that has been in development since June 2007 [4].

The aim of using this platform is allowing the individuals and organizations to make their website accessible by the WWW" World Wide Web". For the possibility of surfing the site anywhere and easily through internet connection, you just have to click on this link to reach the website page: http://secret-falls-70590.herokuapp.com/

B. Project Background and Methodology:

While I was searching for an idea for my project, the reason is to facilitate getting

information about all Bahrain universities from one website for everyone.it is a unique idea for a website to get information from one place and that wasn't available before. This idea is absolutely the best way to provide information about all the universities in Bahrain for users in a simple way. There are two sectors for universities which are the public universities and the private universities. Users can easily get into the information of all the universities of Bahrain and that's all within one website without much effort, also there is the contact page which provides all the necessary contact information for each university in Bahrain. There are a lot of people how don't have much time to collect information about the universities of Bahrain to decide later which one is the best, So this website is the best solution to find all information in less time and effort.

C. Projects Tools (Hardware / Software):

The project tools that used are TOSHIBA, HP, and Lenovo Personal Computers. The TOSHIPA Intel Core i7 processor technology. Also, I used the HP Computer processer manufacture and speed display is Genuine Intel ® CPU 3.06Hz, 533MHz 1024GB.While the Lenovo display in Intel i5-7200U 2.5Ghz processor CPU @ 2.4GHz. On the other hand, the used software is shown in Figures 1, 2 and 3: Programs used with window 7 & 10 version, and the database used is MySQL database, including Microsoft World 2013 used to write my project report.

Fig. 1: Tools of Programming
This is an example of program called "Microsoft Visual Studio" that used to do some functional coding for the webserver.
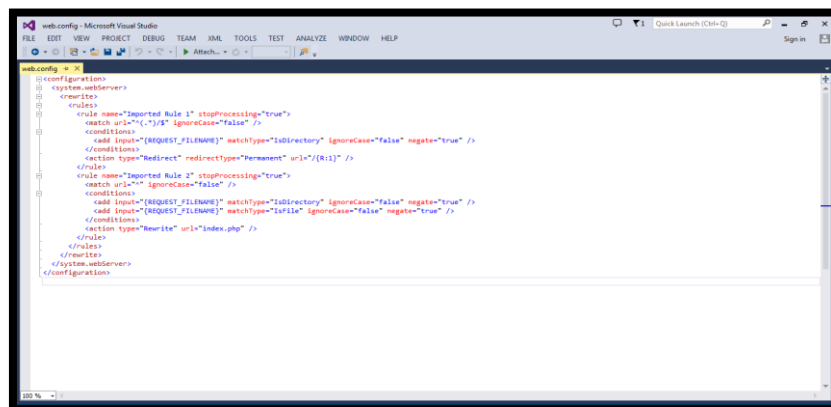

Fig. 2: Example of coding using visual studio
Here is the program used to create my database "phpMyAdmin" admistrater of MySQL over web used to store the data of the user's registration information to get them back when it needed to calculate the number of

visitors, because higher number of visitors means that the website is fulfill the users need and gives the benefit that been build it for [5].
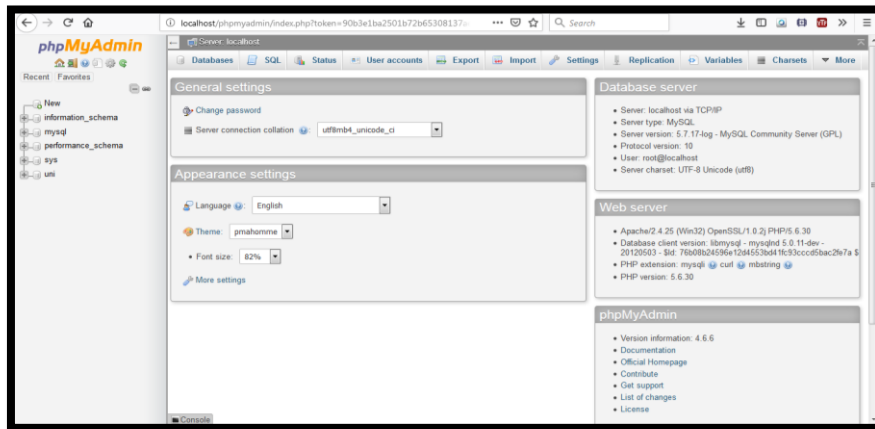

Fig. 3: Database storage is phpMyadmin

D. System Analysis/data Collection:

Here there will be scenario of diagrams that describes the website pages.

E. Diagrams "the physical aspect of design":

The first diagram is the context Diagram which shows what we have includes at the system for the users consist of the features and functionality. Which describes the data flow of the system to make it helpful to understand the website from Figure 4 as it shows the context diagram of the website "system":
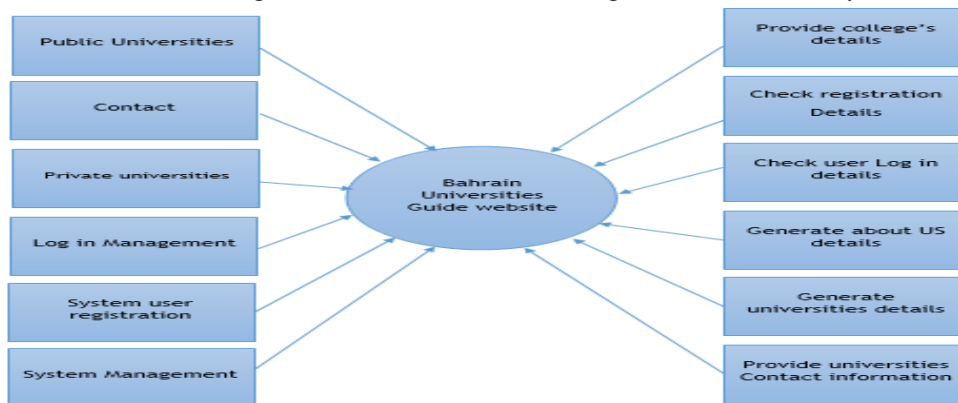
Fig. 4: Bahrain University guide context diagram.

The use case diagram, which is behavioral diagram. The use case diagram shows the functional use of the system and shows the interaction among the elements of the system as shown in Figure 5.
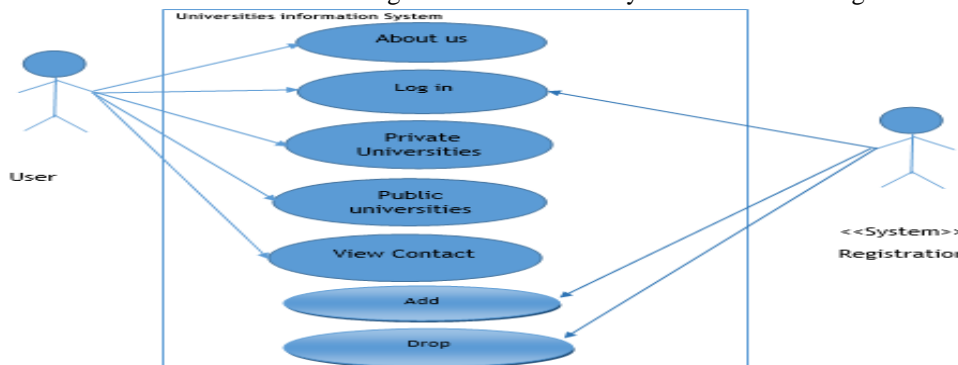
Fig. 5: The use case diagram of Bahrain university.

First, you must sign in by registration on the website, so you can see the features available to you. When you complete the registration and signed in, it takes you into the website. Then you have the about us button to read why we needed to build the website page. Next, everything is between your hands from public, private and

International Journal of Green Management and Business Studies
Vol. 3, No. 1. June 2023.
Available online at www.scipubhouse.com

contact of all the universities of Bahrain to choose the universities you would like to get information about them, also you can contact the universities by the contact information's as shown in Figure 6.
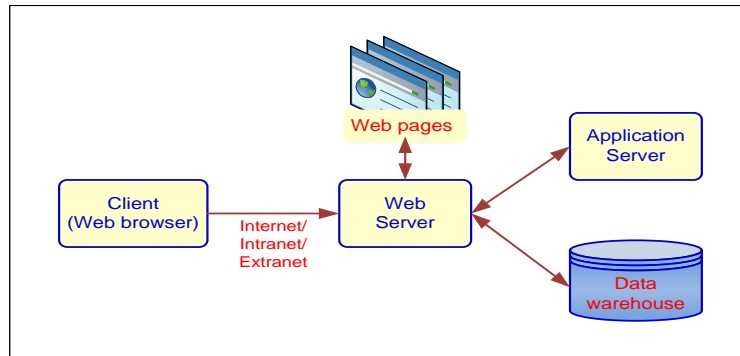

Fig. 6: The Architecture of the website.

System Implementation

In this section, I am showing the implementation of my website pages and here is the result of my project and effort. In addition, about the website pages, I am going to describe them one by one, and here are some screen shoots of my website pages with figured title to identify each page of them as shown in Figure 7.
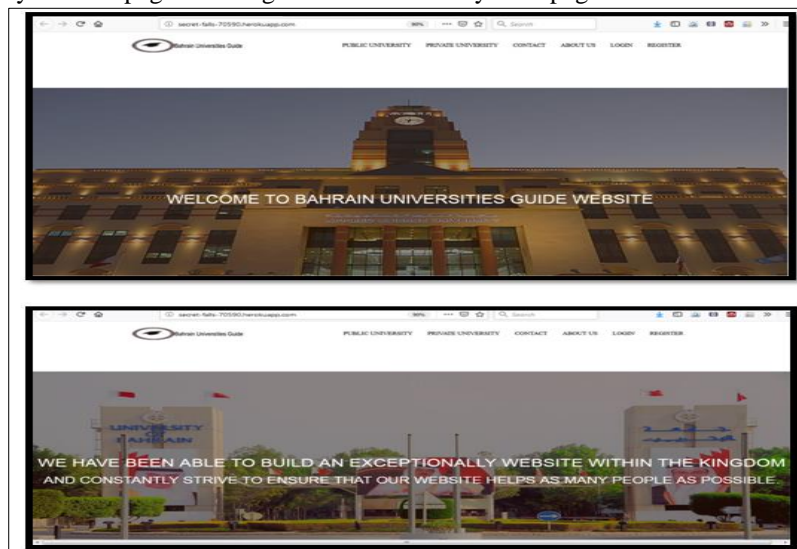
Fig. 7: Website home page.

This is my home page, which is a welcoming to the Bahrain universities guide with aim of helping as many people as possible. There are several options of parameters for users, but they have to register on the site first to be able to use the site features directly.

Here is the registration page, which is the first page to deal with the rest of website pages you have to write down your name, email, and conform your password at the end you press register and everything is good, you are allowed to use the website page as seen in Figure 8.
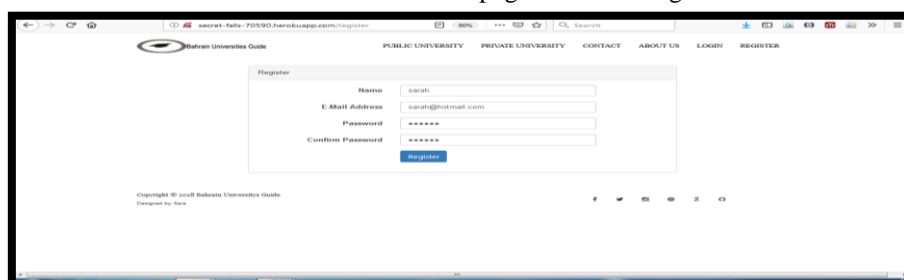

Fig. 8: Registration page.

The reason of having this registration page to store the number of users of the website and see how much increased which mean it has a huge visiting and that approves how much this website is important and needed

for users. And the users how registered one time only they have to log in next visits you no need to register again as seen in Figure 9.
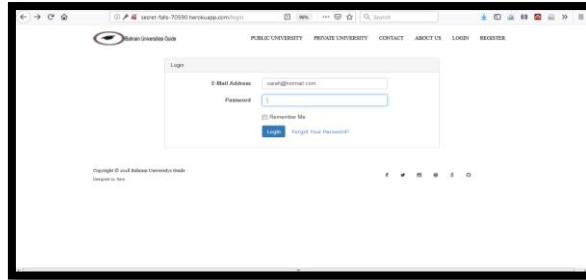

Fig. 8: Log in page.

When you register or log in, the site is run and you can see different options (Public University, Private University, About Us, and Contact).

"About Us|" page is the first option is a short message that shows the activity of the website. This website has been created to guide you for all the Approved universities at Bahrain and we aim to help generations of Bahrainis, residents and people from across the Arabian Gulf area and all around the world to reach to all the necessary information about universities & studies available in Bahrain as shown in Figure 9.
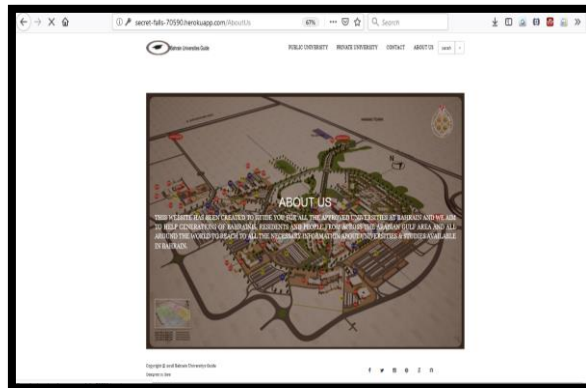

Fig. 9: About us page.

"Public Universities" is second option in the website which contains information about Bahrain public universities, and at the bottom you click on more info to get the necessary details of each university which are the requirements, the fees and the colleges including the studies of each public university as shown in Figure 10.
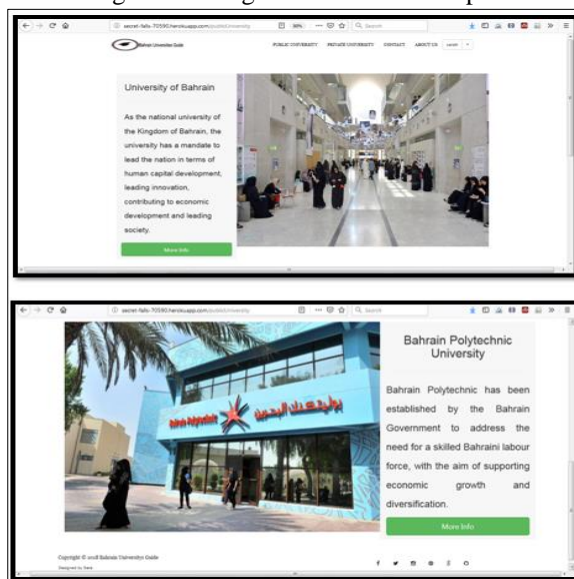

Fig. 10: Public Universities.

Each public university contains several pages of colleges with a link on the bottom to go directly to the accurate

web page of the university itself and you can get more information through it as shown in Figure 11, Figure 12, Figure 13, and Figure 14.
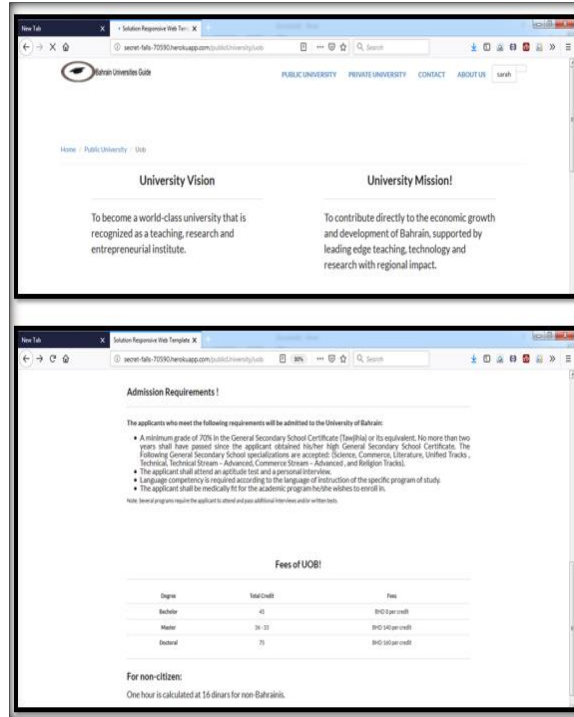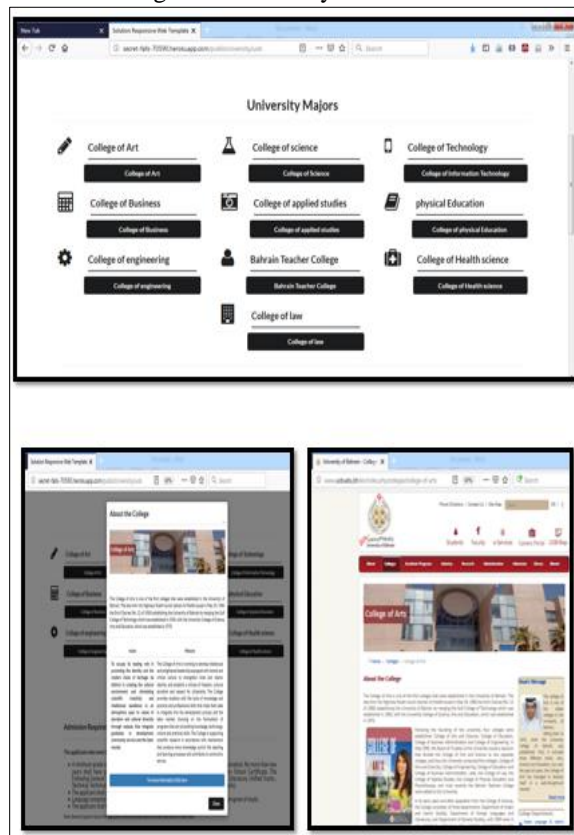

Fig. 11: University of Bahrain.
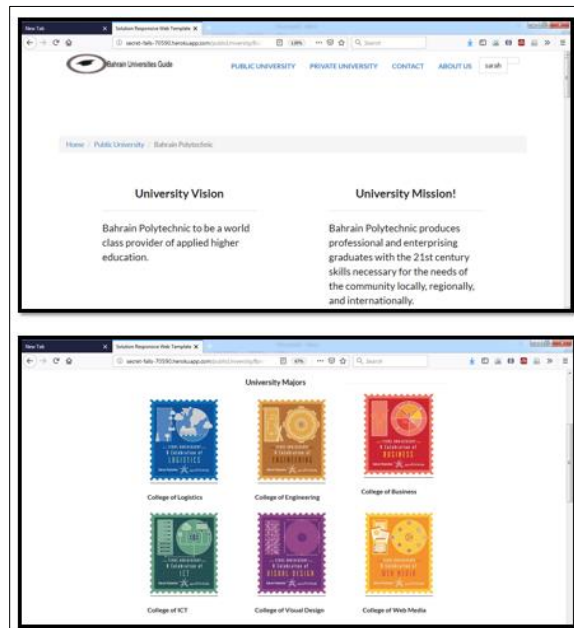

Fig. 12: University Majors of UOB.

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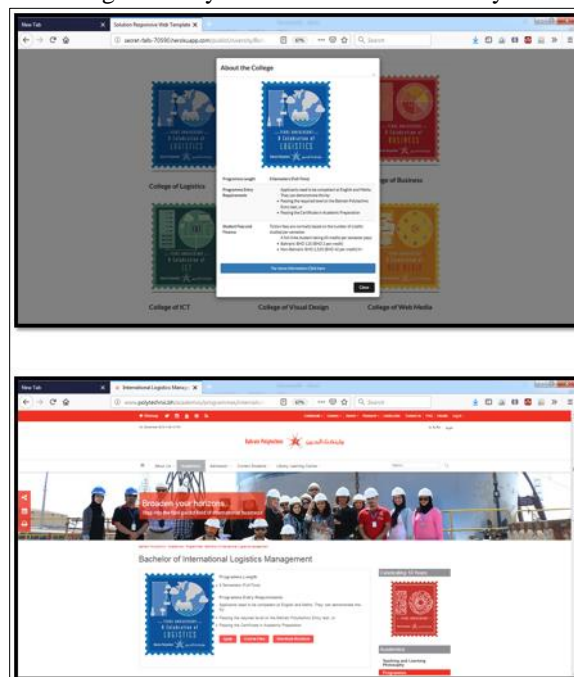Fig. 13: Polytechnic Bahrain University.

Fig. 14: University majors of polytechnic.

"Private University" is the third Option and it contains ten different universities, also you can click on the university button under the picture to see the information of each university of them as seen in Figure 15.

Fig. 15: Private Universities.

As an Example of one of the ten private university in Bahrain I choose the university I am studying in which is "Applied since University" and here also you can press on the links of the several colleges to get into the direct university website, and you can see the college page specifically as shown from Figure 16, Figure 17, and Figure 18.
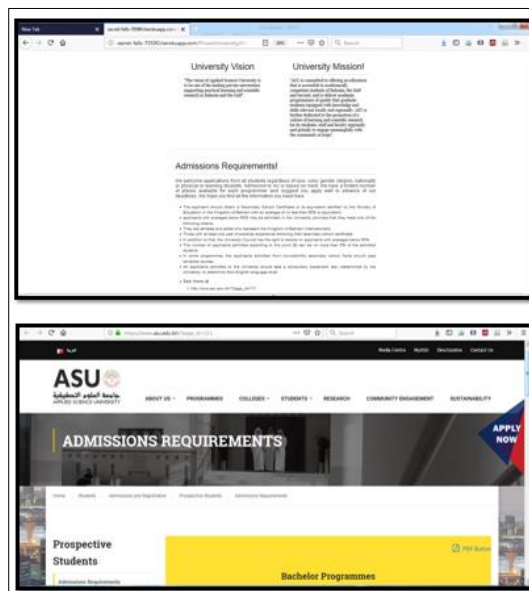

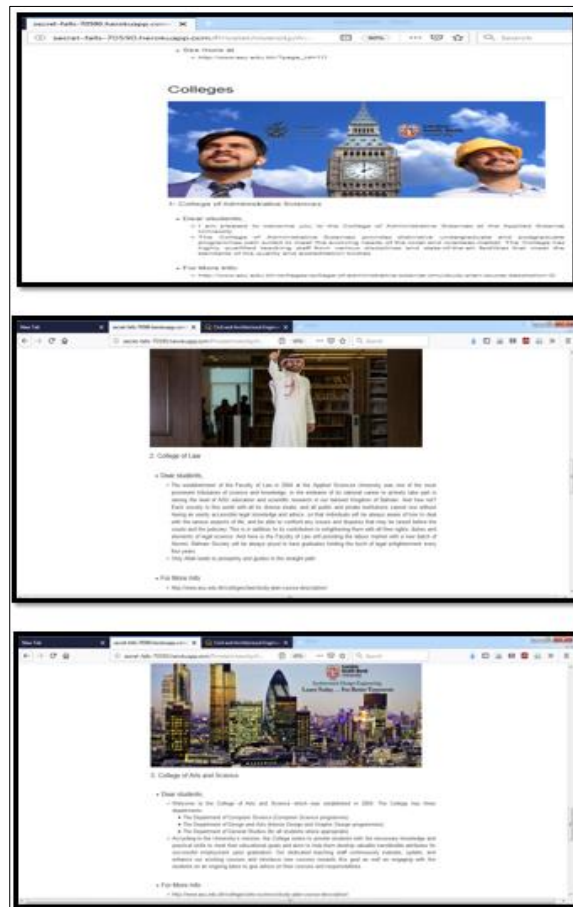
Fig. 16: Applied Science University.
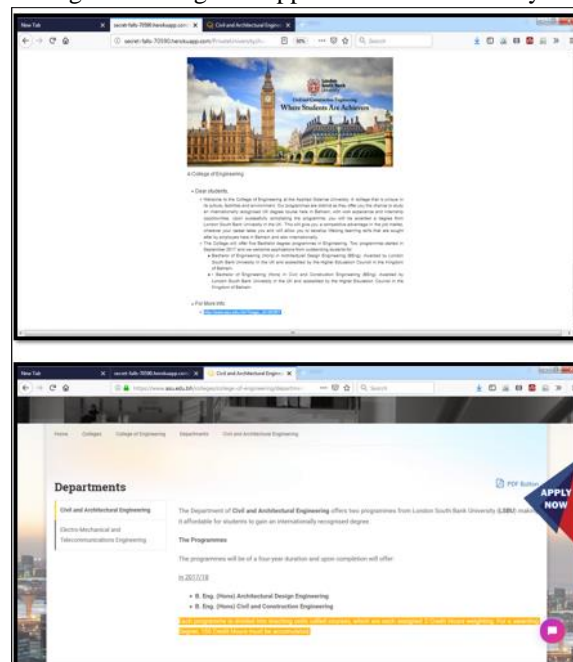
Fig. 17: Colleges of applied science university.

Fig. 18: College link directly take you to website page.

"Contact" is the fourth and the last option to get from my website pages, by clicking on the contact button you get tow part public contact for the public universities and the private contact for private universities, all of the information you need to have interaction or communication between the user and the university directly by

International Journal of Green Management and Business Studies
Vol. 3, No. 1. June 2023.
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contact page, which contains important details of university such as: location, phone number , email address , and Instagram as the most asocial communication popularity as shown from Figure 19 and Figure 20.
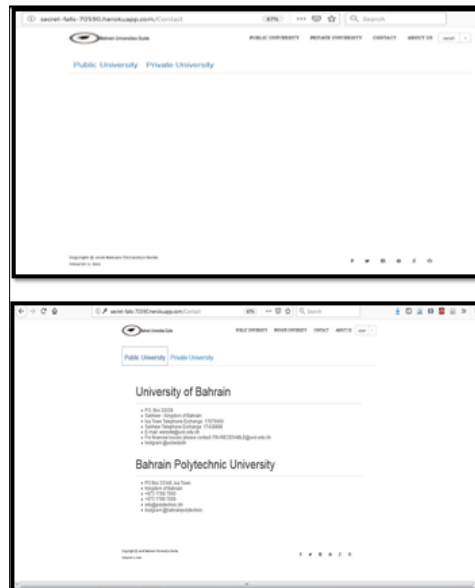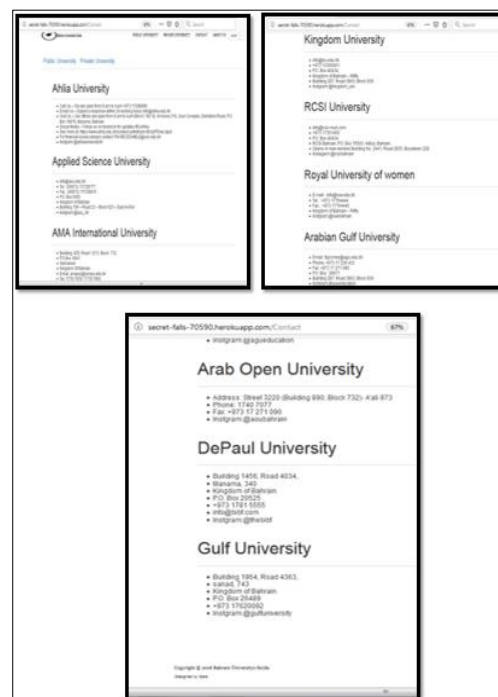

Fig. 19: Contact of public universities.

Fig. 20: Contact of private universities.

3. Conclusion

Transforming my idea to a real page website helps a lot of people to get all the necessary information they need about any approved universities in Bahrain to choose best alternative to study in within minimum time and less effort of searching to make the process much easier for users then before (Jameel, Karem, Aldulaimi, Muttar, & Ahmad, 2022). Now they don't need to get into each and every university website separately, but now you just get all the information you need about all approved universities of Bahrain between your hands from one website only.

More than that by downloading my website page all we have to share this link "http://secret-falls-70590.herokuapp.com/"to get into the website page from any device or it can be through smart phone either to make it as simple as possible to users, by using your smart phone you can have a direct call from the contact page information, and which is a great feature.

➢ This is helpful website because you get information about all the universities at Bahrain easily within one place.
➢ You can compare between the universities easily to choose the best one for you.
➢ You are able to contact the university directly in easy way.
➢ This website page makes it easy to know all the approved universities at Bahrain.

4. **Recomandation**

There are some recommendations to improve my website page in the future:

1) To create a feedback feature to know about users opinions and to take them in order to improve the website page.
2) To add GPS for the university locations.
3) To convert the website into mobile application to be free and available for all smart phone users.

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