Ministry Of Higher Education

And Scientific Research

University Of Diyala

College Of Engineering

Communication Engineering Department

Design And Implementation Of The Website For The College Of Engineering University Of Diyala

A project

Submitted to the Department of Communication University of Diyala-College of Engineering in Partial Fulfillment of the Requirement for Degree Bachelor in Communication Engineering

BY

Ibraheem nabit

Mohammed faraidon

Ayat Ahmed

Supervised by

Dr.Montather Abas

M.SC Yassir A.Ahmed

2016 **1437**

بِسْمِ اللهِ الرَّحْمٰنِ الرَّحِيْمِ

اِنَّ فِيْ خَلْقِ السَّمٰوٰتِ وَالْاَرْضِ وَاخْتِلَافِ الَّيْلِ وَالنَّهَارِ وَالْفُلْكِ الَّتِيْ تَجْرِيْ
فِي الْبَحْرِ بِمَا يَنْفَعُ النَّاسَ وَمَا اَنْزَلَ اللّٰهُ مِنَ السَّمَاءِ مِنْ مَّاءٍ فَاَحْيَا بِهِ الْاَرْضَ
بَعْدَ مَوْتِهَا وَبَثَّ فِيْهَا مِنْ كُلِّ دَآبَّةٍ وَّتَصْرِيْفِ الرِّيٰحِ وَالسَّحَابِ الْمُسَخَّرِ
بَيْنَ السَّمَاءِ وَالْاَرْضِ لَاٰيٰتٍ لِّقَوْمٍ يَّعْقِلُوْنَ (164)

صدق اللهُ العلي العظيم

سورة البقرة

SUPERVISORS CERTIFICATION

We certify that the preparation of this project entitled "**Design And Implementation Of The Website For The College Of Engineering University Of Diyala**", was made under our supervision at Communication Engineering Department/College of Engineering in Diyala university by(**Ibraheem nabit**& **Mohammed faraidon** & **Ayat Ahmed**) as a partial fulfillment of the requirements for the degree of B.Sc. in Communication Engineering.

Signature:

Name: **Dr. Montather Abas**

Title: Lect.Doctor

Date: / / 2016

Signature:

Name: **Yassir A.Ahmed**

Title: Ass. Lec.

Date: / / 2016

In view of the available recommendations, I forward this project for debate by the examining committee.

Signature:

Name: **Dr. Montadar Abas Taher**

(Head of the Department)

Title: Lect.Doctor

Date: / / 2016

CERTIFICATION OF THE EXAMINATION COMMITTEE

We certify that we have read this project entitled "**Design And Implementation Of The Website For The College Of Engineering University Of Diyala**" and as examining committee examined the students ((**Ibraheem nabit & Mohammed faraidon** & **Ayat Ahmed**) in its contents and that in our opinion it meets the standards of a project for the degree of B. Sc. in Communication Engineering.

Signature :

Name :

Title :

Date: / /2016
(Member)

Signature:

Name:

Title:

Date: / /2016
(Member)

Signature :

Name :

Title:

Date: / /2016
(chairman)

Approved for Communication Engineering Department.

Signature:
Name: **Dr. Montadar Abas Taher**
(Head of the Department)

Title: Lecturer
Date: / / 2016

Dedication

TO

MY "FAMILY" WITH LOVE

Acknowledgement

We wish to thank our family for their understanding and support including our parents , siblings , our big family and our friends inside and outside university .

We wish to express our deepest gratitude to our Advisor MSC. Yassir A. Ahmed & DR. Montather Abbas for their guidance and friendship during our study. And thank MSC. Hussein Ahmed for his support.And at last we want to thank the department of communication for giving us the chance to work on as a fine project as this one.

ABSTRACT

This project is site design college of Engineering University of Diyala that has many of the characteristics and features that can be easily used within a set of ideas for the design of the site where it was set up home with ease to facilitate the process of browsing the information has been put and fragmentation both its own department and that helps the student or supervisor easily obtained where possible the design and development of ideas for news for students and faculty within a given design can be identified easily Information News were previously non-systematic or overlapping in old which website

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1.1 Introduction about website

Web design is the process of planning and implementation of multimedia contents through network(the Internet),by appropriate characterization techniques as languages for viewing on Internet browsers patterns or the rest of the user interfaces based on the Internet. The meaning of the web design process is the creation of an Internet site (a group of files placed side by side on the Internet or more server) which allows display content (this includes content and interactive interfaces) for the end user in the form of a web page upon request, which contains several elements, such as texts, models and bitmap images and all that is arranged by one of the languages used, such as HTML, XHTML, and XML

1.2 Aim of the work (objectives)

Depending on the Model of Engineering College for University of Washington as a fundamental model to work on the page. That is the previous page was ancient and out of date compared to the former pages of other global colleges

1.3 Problem Statement

This Page(the page of diyala university of engineering college)are generated to trading college news and its achievements and news of students, professors and scientific seminars and discussions, to reach followers quite easily. The old page did not provide the international standards ,thus, it is important to put .anew up today. Webpage ,which should meets the international standards

1.4 The basics of Web design

It's important that the site is designed well, The location which has good content but designed badly or do not live up to the standards of the user will not have the benefit of the user, and also if the site has a great design but the content is worthless, so it is important that meets two elements - good design and good content - for the .success of the site

2.1 Introduction

Depending on a modern news for students and professors on the page of each department, Customize a parts of both the morning and evening study and a special part of the updated information and news, depend on newest and developed designs and include a links and icons of college students and the top

2.2 Design and Content

Design should not interfere in the content which makes it difficult to read, and must the background of the design not prevent the reading of the content or attenuated, it must not be accompanied by the design constraint for reading smooth content

2.3 Easily of Browsing (Accessibility)

Browsing system must be easy and clear for the user and it does not need an effort to get the page he(she) want to be accessible, It must also have links it self clear on the page and in a prominent place, The user must knows where is he (she) on any page of the site pages, by putting titles in a prominent place or change the color of a link of the current page

2.4 Homogenized design and ease of loading

2.4.1 Homogenized design

It must be homogeneous site pages, to be known for a user of the site, even if the internal pages are different largely from the Home, must combine the site as a whole basic form pages can be used to distinguish him.

2.4.2 Ease of loading

It must be characterized by the design of the site to easily download, usually a web browser does not have enough patience to wait for the download site for a long time, and if he found it takes more than the usual time to go away, it must work to make the site opens fast.

2.5 Web design soft wares

There are different Web Pages design soft wares available in the market. The most popular soft wares are; Scream and Quanta+, which they are compatible to Linux operating systems, also Dreamweaver ,Front page, and Microsoft expression studio, where these last the soft wares are compatible with the windows operating system. In our project, we have used an easy to use, friendly, and even cheap software called web builder ,which is compatible to the windows operating system.

2.6 Website Builder(web builder)

Website builders are tools that typically allow the construction of websites without manual code editing. They fall into two categories:

•online proprietary tools provided by web hosting companies. These are typically intended for users to build their private site. Some companies allow the site owner to install alternative tools (commercial or open source) - the more complex of these may also be described as Content Management Systems;

•offline software which runs on a computer, creating pages and which can then publish these pages on any host. (These are often considered to be "website design software" rather than "website builders".)

2.7Webbuilder windows operating systems

Some pictures for web builder system

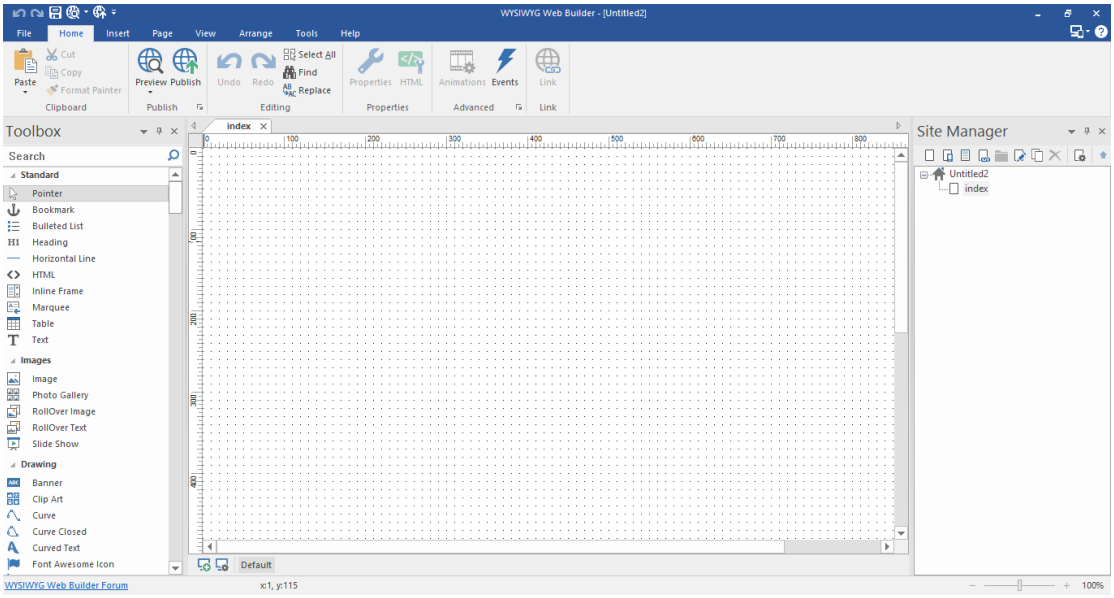


Figure 2. 1:tools web builder

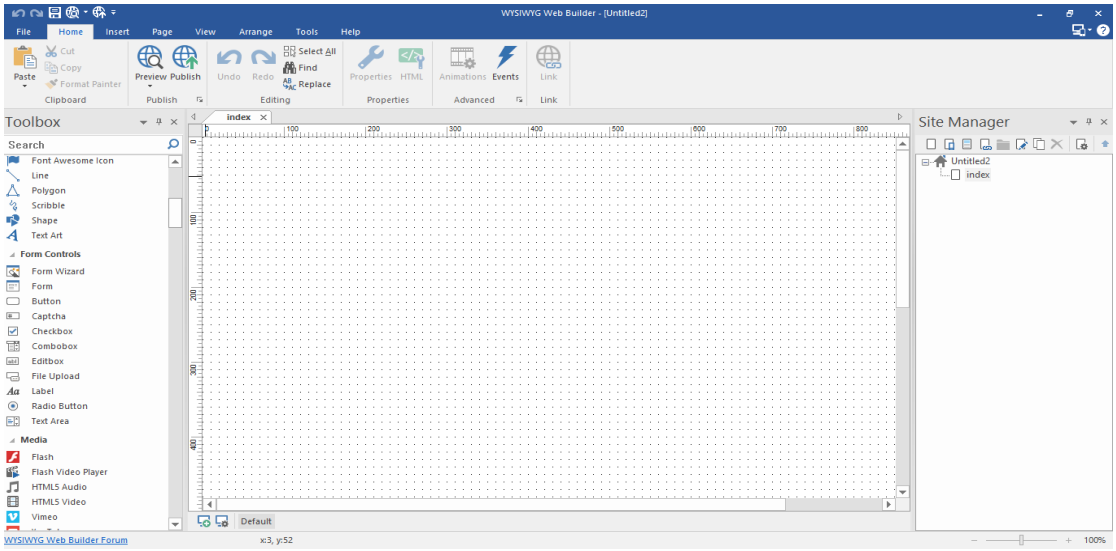


Figure 2.2:form controls and media

3.1 Introduction

We can design the site of the College of Engineering through the sequence of ideas and the development of parts within the main interface of the college of an engineering, and then branching out links within the sequential pages within the site designer can design and put the information within them as required for the idea that puts designers

3.2 Methodology strategy

After the development in the field of science the need for a modern webpage for the college of engineering becomes necessary this is to keep the reader up to date with respect to the web site of the college of engineering and we have adopted the web site of the university of Washington as our goal.

So the advantage of the new site:

- Speed in browsing and supports all programming languages(php,html,rss(..‹
- Can be compatible with the application of the private Android
- Add tools and icons to facilitate the process of searching and browsing with the possibility of renewal‹
- A high quality deliverable‹
- High speed turnaround‹
- Low cost ‹
- Usability is a term often used during website development‹

3.3 Web Development

Website Development is a process for creating a new website or implementing changes to one already in use, e.g. adding a significant new section to a live site. There are 8 steps in the development process. These are:

1. Planning: Decide why you want a website and what to create.
2. Content: Create a list of the content you want.
3. Design: Create a design for displaying the content.
4. Construction: Write the code and load up your content.
5. Test: Make sure everything works properly.
6. Hosting: Choose a domain name & find a place to put your site
7. on the internet, and
8. Publicity: Build traffic via publishing the site.

3.4 Website Planning

Site planning is the process of setting goals and needs of the users requirements that allow easily browse the site through proper design

3.5 Interface Design

Interface Design is concerned with the selection of web elements that facilitate interaction with site visitors. Such features generally encompass links, buttons, check boxes, etc.

3.6 Website Construction

Website Construction is a process for converting content and design into

web code, usually HTML ,or may be, according to the modern website building soft wares, the whole process can be achieved visually. However there are some necessary guidelines should be followed؛

- Browser compatibility،
- Screen resolution،
- Web accessibility ،
- Other, e.g. coding languages, metadata, character sets, analytics،

3.7 Browser Compatibility

A browser is the software used to display a website on the computer. There are several of these products available (as well as different versions for each product), and each of them can display a site slightly differently. To ensure that the site is presented correctly on the broadest possible range of computers, we have to make sure it is fully compatible with the browsers

3.8 Website Hosting

Website Hosting refers to the service that allows a site to be stored on and accessed from the internet. For most organizations there are only two options in this regard: invest in a self-made infrastructure or find an external host. While a small website with expert staff could probably undertake its own hosting, most customized infrastructures are created for busy Dynamic Transactional sites. This is because these sites are driven by a desire to retain total control of everything they do. As such, the only realistic option for the vast majority of firms is to seek the support of an independent Website Hosting company. Website Hosting companies number in the thousands. Yet, even a cursory review will show that they are not all the same. Some offer excellent value in terms of disk space, but have very poor service. Others

have highly knowledgeable staff, but are undermined by bad technology The following process can be used to identify suitable candidates

Step 1. Collect References

Ask the peers (e.g. via a trade organization) how they handle their own sites.

Step 2. Initial Screening

Contact selected Hosts by email, outlining your requirements. Any company that fails to respond within a timely period can be eliminated.

Step 3. Detailed Screening

•Site hosting & connectivity

•Security arrangements

•Customer service

•Cost

3.9 Website Addresses/Domain Names

Every device on the internet has a unique number called an IP address attached to it, e.g. 123.456.789.012. However, strings of numbers are difficult to remember, so a parallel system is also availed This allows addresses called 'Domain Names' to be created from alphabetical characters. A Domain Name is simply a textual label that

corresponds to a numerical IP address. Many variations on the format of a web address are possible. This type of configuration is possible because a web address is composed of several different parts. These are:

•Sub domain: By convention this is www – but can be different.

•Second-level domain name: This is usually the name of the organization.

•Top-level domain name: This can include .com, .org, .ie, etc

3.10 Top level domains

com: This was initially intended for commercial businesses, but may now be used for almost anything

edu: This is supposed to be used by educational institutions, particularly in the USA..

org: This is intended for the use of non-commercial organizations‹

e.g. www.unitednations.org•

net: This was originally intended for organizations such as:

Internet Service Providers, but may now be used for almost anything.

gov: This is for the use of government websites, e.g.www.firstgov.gov

int: This is for the use of international organizations, e.g.www.europa.eu.int

eu: This is for the use of organizations or individuals based within the EU.

biz: This is intended for businesses only.

info: This is intended for any organization that wants to publish informational content.

museum: This is for museums.

name: This is for personal names.

pro: This is used for various professional organizations or individuals.

coop: This is for the use of genuine co-op

aero: This is for the use of the aviation industry.

jobs: This is proposed for use in the recruitment industry.

travel: This is proposed for use in the travel industry.

post: This is proposed for use in the postal industry.

mobi: This is proposed for use in the mobile phone industry.

asia: This is for the use of organizations in the Asian region

mail: This is proposed for the creation of a spam free email zone.

tel: This is proposed to allow telecommunications companies to register telephone numbers as domain names.

4.1 Introduction

Designed the new Engineering College to be easy to browse and updatable and appropriate to the content of the information show in Figure (4.1.a)

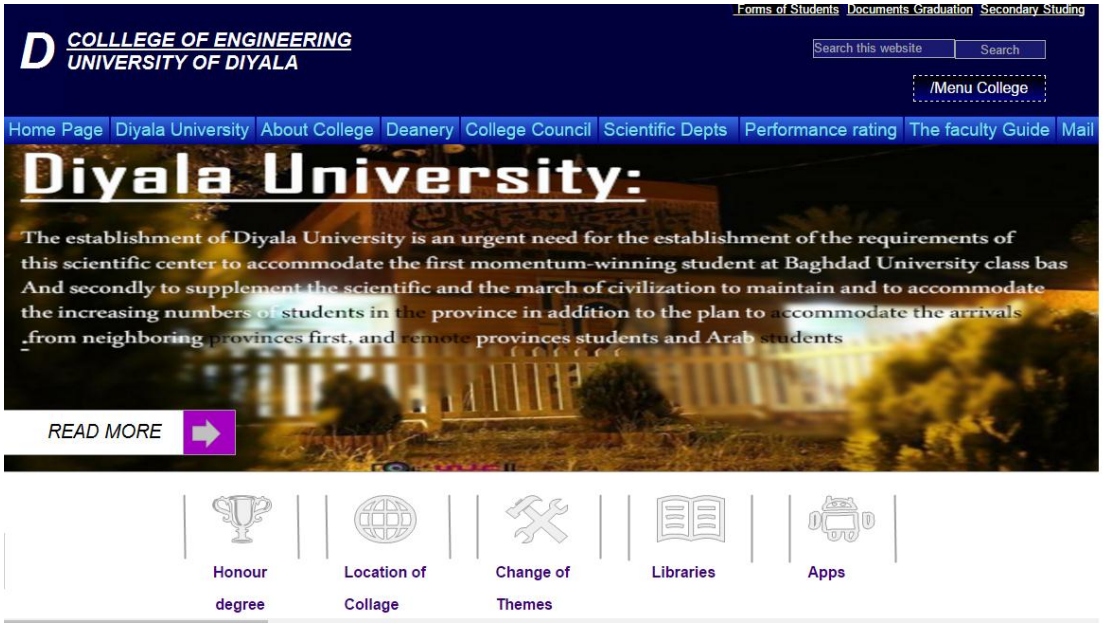


Figure (4.1.a) : Show The main interface of the college

Add news as well as within the Future Home of the college with the addition of special image of Dean show Figure 4.1.b

Figure (4.1.b) : More new future and Dean Photos

Design a special part the news of the college and seminars as well as special evening students Figure (4.1.c)

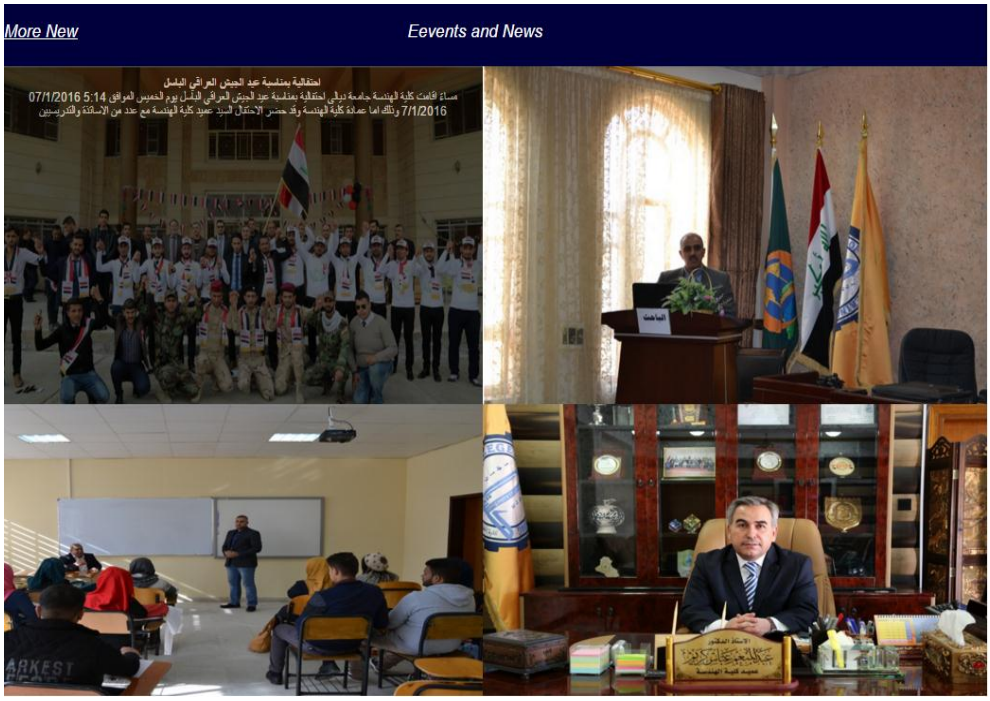
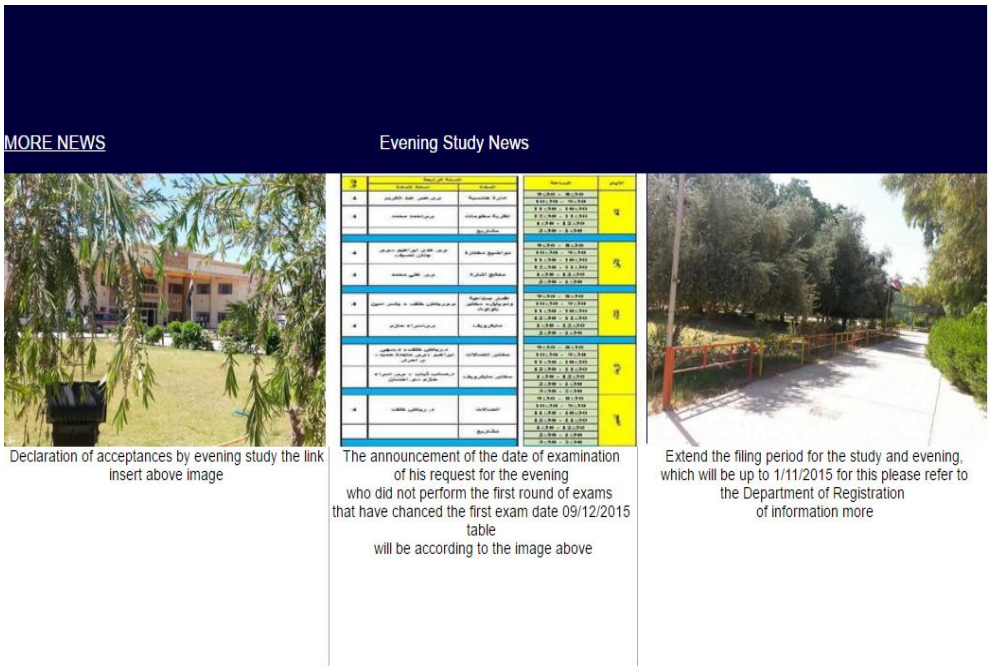


Figure (4.1.c):News collage of engineering

A special part of the evening considering design icons sites continue Marital Figure (4.1.d)



Figure(4.1.d): Evening study college of Engineering

Figure (4.1.e): Social Media

4.2 DISCUSSION

So was freedom from the former site that contains specific features and replace them with the new website, which supports the new features with the possibility of updating

Could be seen the previous site of the College of Engineering show in Figure4.2

Figure(4.2) show web site almudyu6

4.3 Final results

Distributed to the four parts of the first one is browsing the site will be easy because of the sequence of ideas in place, and the second is the start mode top of the page special section on the students so that the student can find out geometry guide easily, final score put specific information for each section and these news containing Al achievements and news pertaining to the department put grades and the evolution of laboratories and other

4.3.1 Browsing the website collage of engineering

Browsing will be easy and fast it includes information about the college and the content of news and information And other social communication sites

4.3.2 Special Engineering students part

There is this part at the top of the page contains an application form and controls admission to the college and the information required for graduation documents and also there is a special part of the study and evening there are bottom of the page to the content of their own

4.3.3 News For each department

Contains developments specific to each section of the college to the content of the news department of general and specific to the News can be show in Figure4.3

Figure (4.3):News of existing displays within the communications department

4.4 Final Discussion

That easy design and simple browse allows find information be easily without complexity obtained general information of collage engineering get their examinations Activate features could be developed and updated by the idea to be out

4.5 Future work (Android Application)

Android design application that helps to find out the latest news and college social networking sites so this application is an important part of the new site for the news that up quick and easy wait was published on the Google Play store and is easy loading and any updates will be published by Al College as well as the notice comes not on its own renovation

features that can be added to the program of the future

- Delivering news and information to students and faculty Wi followers This application is used

• Feed or Rss advantages Site supports so any news raises the Al site will be loaded by the application of Al notice up to the application user

• The possibility to browse the rest of the sites within this application through its add special links

• The ability to share breaking news service by activating the advantage participation within the application

```
<rss version="2.0">
 <channel>
   <title>RSS Feed</title>
   <description></description>
   <link>http://www.yourwebsite.com/</link>
  <item>
    <title>منظومات الطاقة المتجددة الهجينة</title>
    <link>http://</link>
   <description>
     10/4/2016 10:59 صباحا<br>برعاية السيد عميد كلية الهندسة الاستاذ الدكتور عبد المنعم عباس
     كريم أقام قسم هندسة المواد حلقة نقاشية بعنوان منظومات الطاقة المتجددة الهجينة ألقاها
     (م.م. علي ناظم جباره)
   </description>
  </item>
  <item>
    <title>حلقة نقاشية بعنوان النانو تكنولوجي</title>
    <link>http://</link>
   <description>
     06/4/2016 12:19 مساءً<br>تام قسم الهندسة الميكانيكية يوم الثلاثاء الموافق 5-4-2016 بعنوان
     النانو تكنولوجي وتطبيقاتها في الصناعة القاها الدكتور مزهر طه محمد
   </description>
  </item>
 </channel>
</rss>
```

Figure (4.4.a):show code breaking news Before arriving for Android

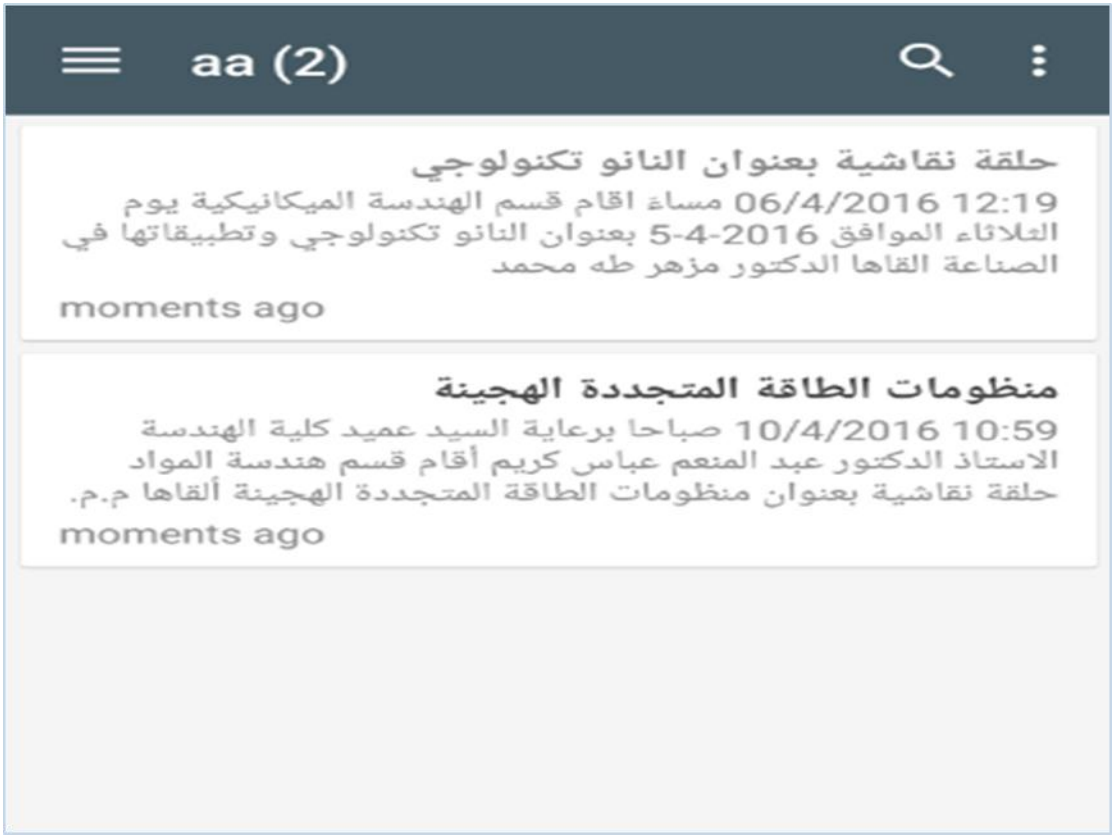


Figure (4.4.b):show code breaking news after arriving for Android

Figure (4.4.c):show share news for different apps

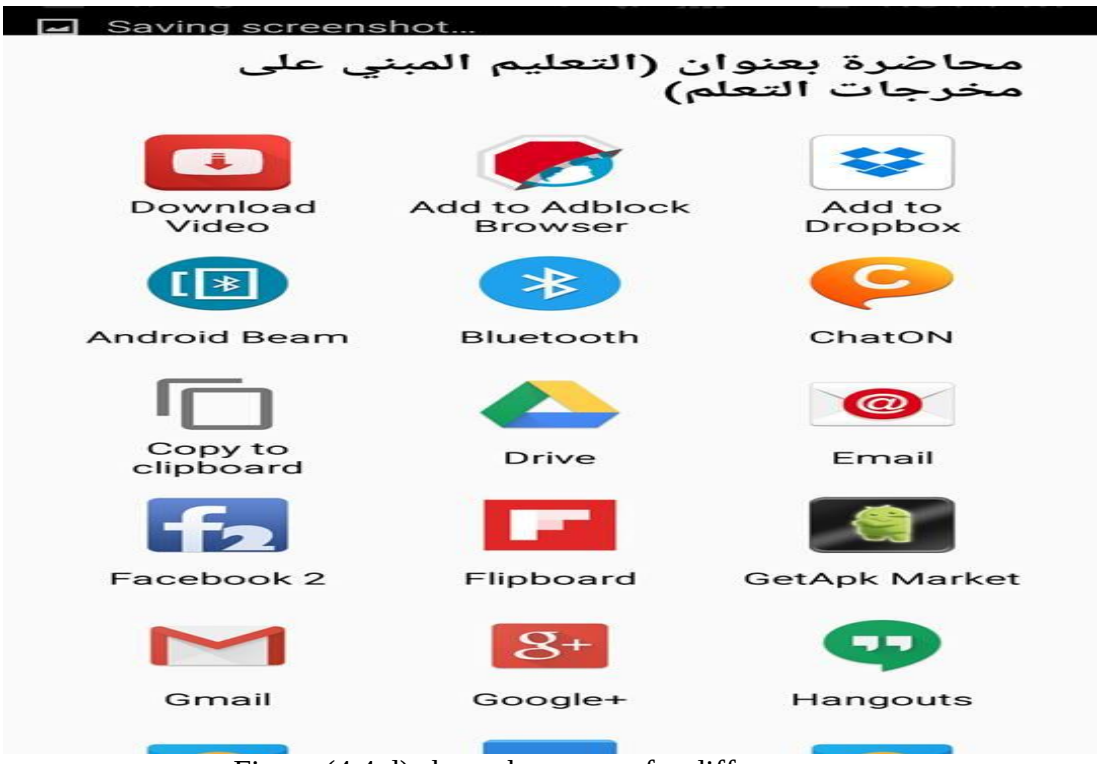


Figure (4.4.d):show share news for different apps

5.1 Conclusion

This project aims to create a new site of the Faculty of Engineering which contains Al large variety features That help the development of the permanent site through the ideas formulated by the designer and as desired by the need for it is this program evolves, integrated from many aspects, by using web builder we found:

1. We can develop the site according to the desire and every period as needed to be out
2. Add external links to the new site of the college so that visitors can browse other sites within the College
3. The possibility of coordinating colors and menus News Forums Home and other forms found within the new site[2]
4. Add news Home along with the achievements of the college

5.2 Future work

This work can be extended to cover the other part which was not included in

the project. Some of these points can be summarized in the following points:

1. Create an account for each student and professor, according to their own section through logged on to the site by Gmail
2. Add forums site the college, which has the account he could comment
3. The ability to make registration of acceptances own college acceptances so as to facilitate the process and thus reduces the momentum of the existing Al Department Date

وزارة التعليم العالي والبحث العلمي

جامعة ديالى_كلية الهندسة

قسم هندسة الأتصالات

تصميم وتطبيق الموقع الألكتروني لكلية الهندسة في جامعة ديالى

مشروع

مقدم الى قسم هندسة الأتصالات

في جامعة ديالى – كلية الهندسة كجزء من متطلبات نيل درجة البكلوريوس

في هندسة الأتصالات

من قبل

إبراهيم نابت

محمد فريدون

آيات أحمد

بأشراف

د.منتظر عباس

م.م ياسر آمين احمد