

A University website using Content Management System (CMS) and add-on plugins

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A Project
in
The Department
of
Computer Science and Engineering



Presented in Partial Fulfillment of the Requirements
For the Degree of Master of Science in Computer Science and Engineering
United International University
Dhaka, Bangladesh
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Approval Certificate

This project titled "**A University website using Content Management System (CMS) and add-on plugins.**" submitted by **Sanjida Rab**, Student ID: **012133012**, has been accepted as Satisfactory in fulfillment of the requirement for the degree of Master of Science in Computer Science and Engineering on 27th January 2018.

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Declaration

This is to certify that the work entitled “A University website using Content Management System (CMS) and add-on plugins” is the outcome of the research carried out by me under the supervision of Mohammad Nurul Huda, Professor & Coordinator - MSCSE.

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In my capacity as supervisor of the candidate’s project, I verify/certify that the above statements are true to the best of my knowledge.

Dr.Mohammad Nurul Huda,
Professor & Coordinator ,MSCSE
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Abstract

Thousands of students take the decision that will have the significant impact on the rest of their live. This decision will affect their career, earnings, and professional development. A university website is the first impression to represent university reputation.

This project highlights the making process of the responsive university webpage by using WordPress Content Management System. As the use of technology by the current and next generation of students as well as their parents continues to grow, universities will need to utilize better, responsive and more easily navigable websites. An alumni registration form is also included on the university website to get the information of the student.

The website designed by using WordPress Content Management System. WordPress is the most popular, free, search engine optimizer, user-friendly and open source content management system (CMS) which established on PHP and MySQL database. An alumni registration form is also included on the University website.

Acknowledgement

Firstly, I would like to like thank the almighty Allah to give me the positive energy to the the project work. I would like to thank my project my supervisor Prof. Mohammad Nurul Huda for the continuous support of my MSc project work. His guidance and advice helped me to complete my project work.

Lastly, I would like to thank my family members to support me always throughout of my life.

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Chapter 1

Introduction

The purpose of the project was to design and develop the university website which plays the important and efficient role to take the decision to consider any specific university. It will highlight the need for universities to have attractive, user-friendly and clear information to understand the university's programs, course offerings, faculty, location, scholarship and relevant accreditations.

Custom CMS or Content Management System is the best option to design the university website. The Content Management System(CMS) has become the most efficient and powerful website application development tools since PHP. The WordPress Content Management System (CMS) has a web application development tool that uses a MySQL as the database in the cPanel interface.

The most important things why choose the custom CMS platform is given below:

- Content Management System is usually the best solution for the university website design.
- Anyone can update or edit the website on his own requirement with small skill.



Figure 1.1: Web Development Application

Content Management System WordPress gives the opportunities for the number of large and small organizations to update, edit the content of the website. By using any WordPress theme, a web developer can easily modify or edit the appearance of the website and add functionalities as when needed without facing any issues.

WordPress CMS has own self-contained system and does not need any type of HTML code editing software. WordPress is very clean and simple which is very much useful for search engine optimization in the website. To extend the functionality a Web Application Developer can use WordPress plugins as the requirement.

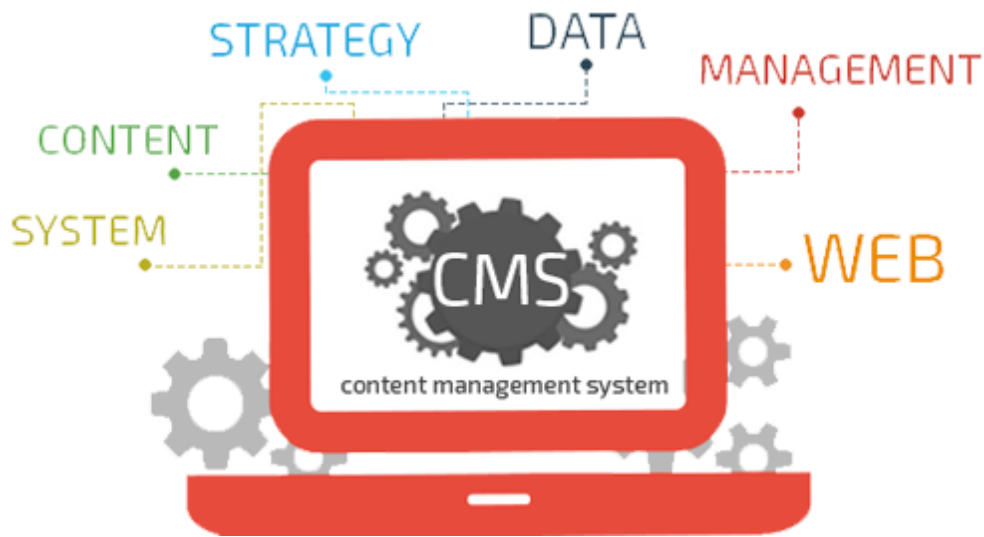


Figure 1.2: Content Management System

1.1 Goals of the project

Websites have become methods of information sharing and interactivity through the worldwide using the internet. By implementation of the university website project, we try to provide the Web Developer with the ability to design website pages on the internet.

- User control and freedom.
- Aesthetic or creative design.
- Responsive convenient or user-friendly website.

Chapter 2

Background and Literature Review

Web application development is the most important aspects of worldwide presence for any type of business through the internet. Website development is the way to make people aware of the service, brand and/or products of any kinds of business organizations.

People can understand the brand, product and service which are relevant and even the necessary information for them to purchase or use. Representing the information or service with high-resolution images, data, presentation and information will have to create a large impact on the website visitors or traffic.



Figure 2.1: Responsive Website Development

2.1 Web Application Development

The web application development is an application program which is stored data or information on the remote access server and delivered the information over the internet through the browser interface.

2.1.1 Mobile web applications

The Mobile application is a used to stand for the process by which a mobile application is prepared for mobile devices.



Figure 2.2: Mobile Apps Development

2.2 Content Management System

The Content Management System or CMS is an application which supports creating, editing, organizing, update and publishing content, using the web browser on a smartphone, tablet, laptop or personal computer.



Figure 2.3: Content Management Systems

Different types of Content Management System (CMS):

The most popular open source or freeware Content Management System (CMS) are:

- WordPress
- Joomla
- Drupal
- Magento

The content management system(CMS) has two elements. They are given below:

- Content Management Application (CMA)
- Content Delivery Application (CDA)

Content Management Application is the method for the front-end user which interface allows the user to add, edit, update and remove content from the website.

Content Delivery Application (CDA) organizes the information or content and updates the data on the website.

2.2.1 Advantages and disadvantages of Content Management System (CMS)

Advantages of Content Management System (CMS)

- User-friendly interface
- Quick formation
- Developer and community support

- Ease of maintenance, including updates
- Cost-efficient, especially with the out-the-box solutions, open source or free
- Extendable functionality, through the large number of plugins, add-ons and extensions
- Search Engine Optimization(SEO) friendly features



Figure 2.4: Advantages of CMS

Disadvantages of Content Management System (CMS)

- Sometimes there may be hidden costs such as implementation, customization, support or training related issue.
- People may need the server resources for different types of Content Management System (CMS).
- People will need to apply for the regular updates and patches to make sure the website is secure and safe.

2.3WordPress

WordPress is a freeware open source content management system (CMS) which developed on PHP and MySQL database. WordPress CMS has to be uploaded or installed on the website hosting server by using the cPanel interface.

WordPress Content Management System has an own web template interface system. WordPress CMS users install or upload the theme which gives a user to change the outside look as creative or attractive and functionalities of the website without using HTML code or website content.



Figure 2.5: WordPress Website Design Process

WordPress plugin allows the user to increase the features or functionalities of the WordPress website. Most of the popular plugins are available in WordPress CMS interface. Many third parties offer paid plugins can be purchased from their own websites to increase the functionalities.

2.3.1 Features of WordPress CMS

- WordPress is open source as in freedom.
- WordPress is easy to customize for any people.
- WordPress is expandable by using different types of themes and plugins.
- WordPress has search engine optimization friendly feature.
- WordPress is very easy to manage and handle.
- WordPress has the safe and secure interface.
- WordPress can handle different types of media feature.



Figure 2.6: WordPress Development

The Advantages of WordPress CMS

- Responsive and user-friendly to all electric device.
- Versatile Design: WordPress website can help to represent the brand and share it with the worldwide through the internet.
- Easy to use and manage: WordPress CMS allows a Web Developer to choose a theme and then start uploading, importing, inserting content such as images, copy, and blog posts.
- No HTML code required
- Website is 100% customized

The Disadvantages of WordPress CMS

- Unsecured for login
- Provide incomplete and inconsistent the documentation of theme and plugin
- MySQL as a database
- Scalability issues with the data model
- PHP version related problems
- User-generated content
- Automatic upgrade feature
- Incompatible with the web application development tools
- Too much expensive paid themes and plugins

Chapter 3

Methodology

Using WordPress Content Management System application, a developer can design their own website pages very easily and with minimum technical knowledge. It eliminates the need for writing long lines of codes, getting entangled in error fixing the process.

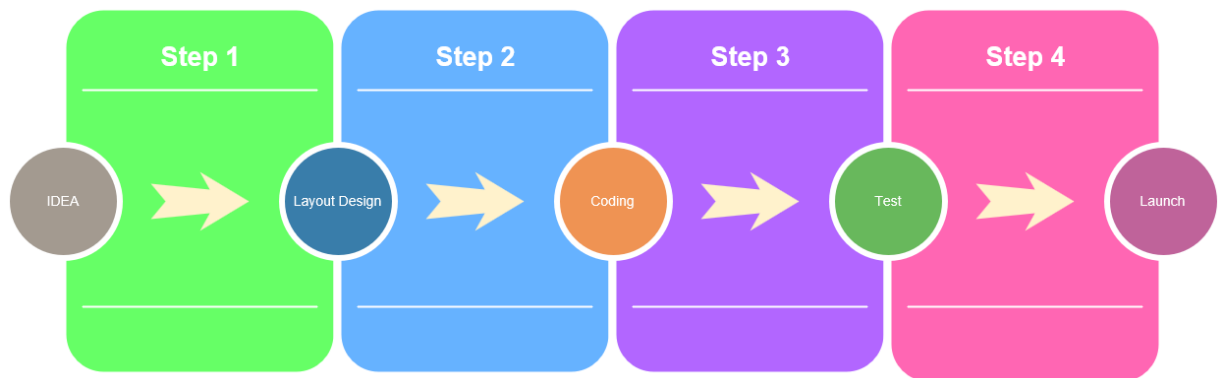


Figure 3.1: A University Website Design Flow Chart

To finish the project, Word Press Premium Divi theme is using. Nowadays Divi theme is the best themes for website design.

The feature of Divi theme is given below:

- Real-Time design which updated the design of website pages.
- The customizable element which helps to adjust the font, colors, sizing, spacing and custom CSS.
- Premade some layouts
- Drag and drop option which is used by the Divi builder.
- Just click & type options
- 46 content elements
- Import & Export option
- In-line Editing option

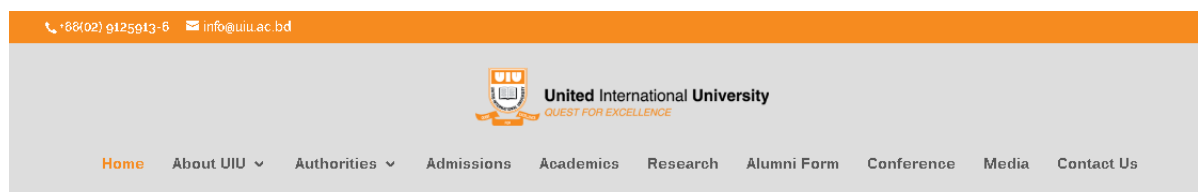


Figure 3.2: Header of the website

In the header section, menu position is centered align. The logo of the university is in the centered position. At the top bar of the menu area, mobile number and mail address are placed.

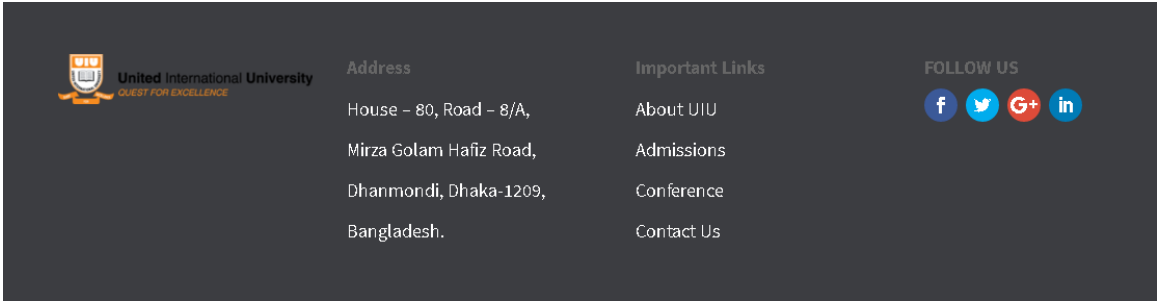


Figure 3.3: Footer of the website

In the footer section, four columns have stayed. In the first column of footer area university logo is placed. Social media link with the icon stays in the fourth column. Important links are given in the third section of the footer. The address is given in the third column of the footer area.

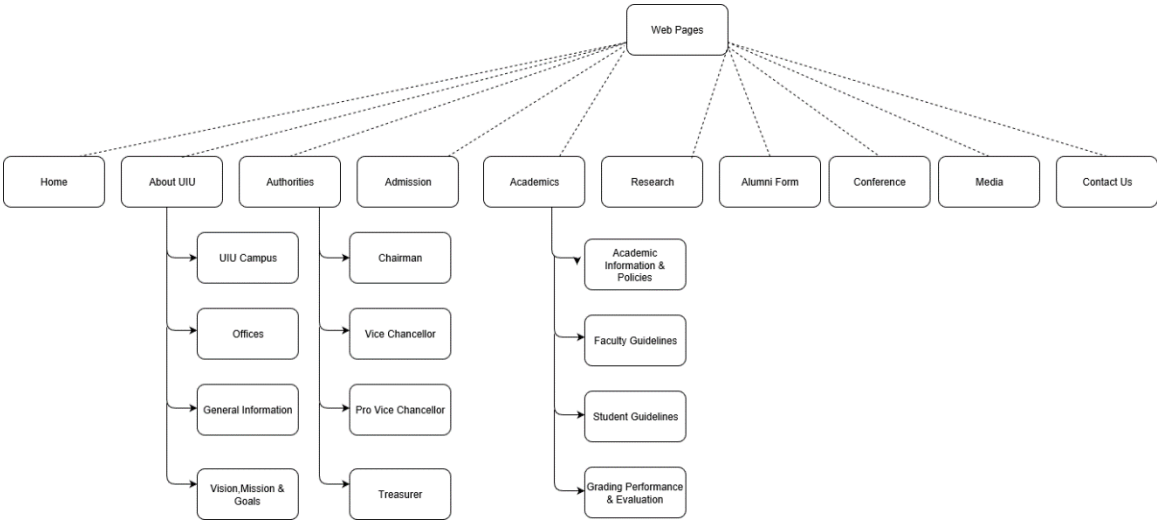


Figure 3.4: Diagram of webpages

Homepage

The animated slider is representing the university facilities and features. People can get main information from the homepage.

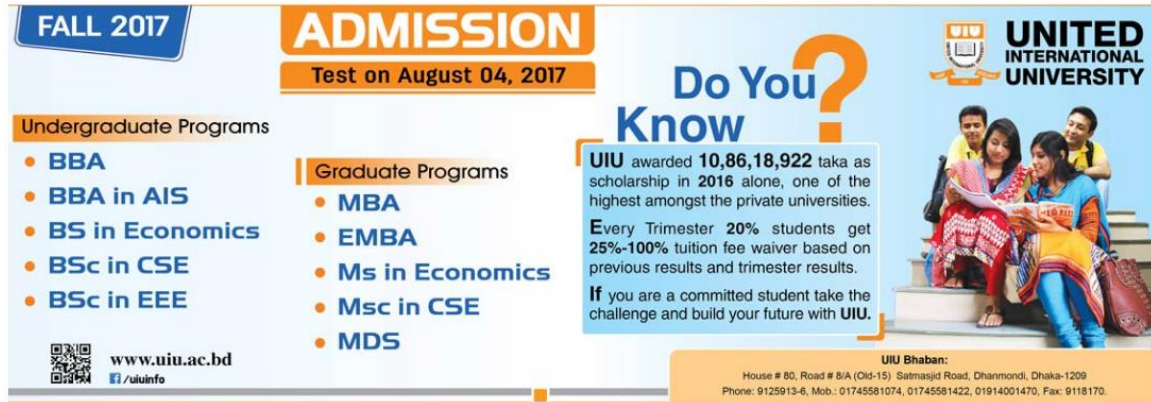


Figure 3.5: Animated Slider section of the home page

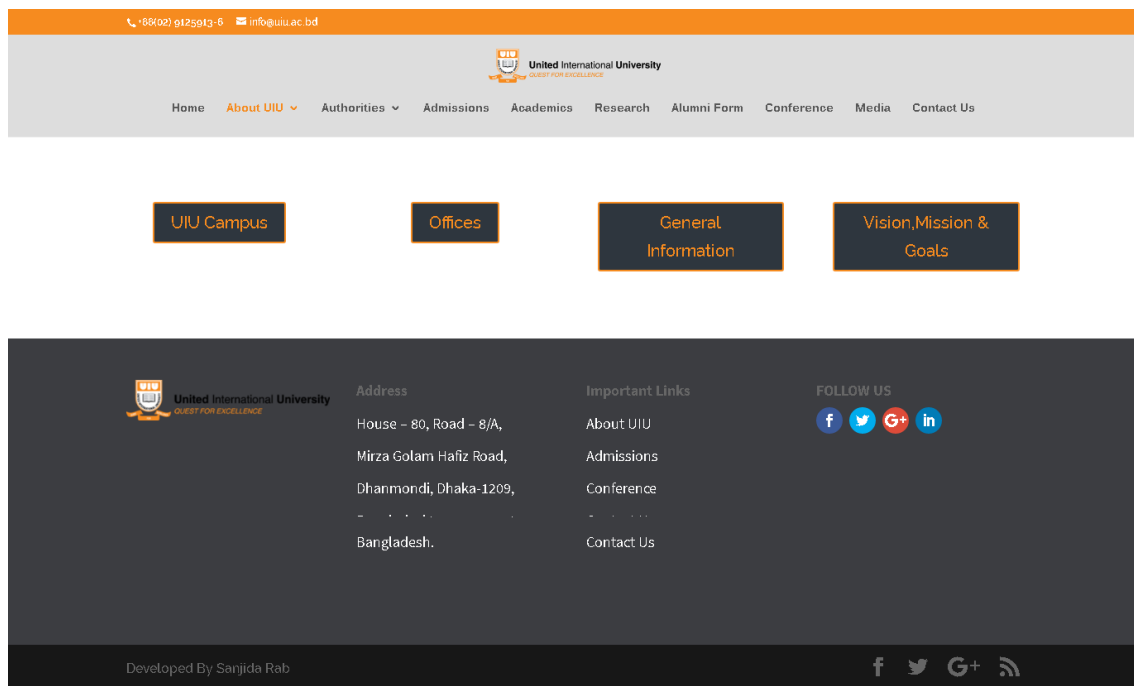


Figure 3.6: About Us page

About us, the page has four animated buttons which are linked by their required pages. Pages are:

- UIU Campus,
- Offices,

- General Information and
- Vision, Mission & Goals.

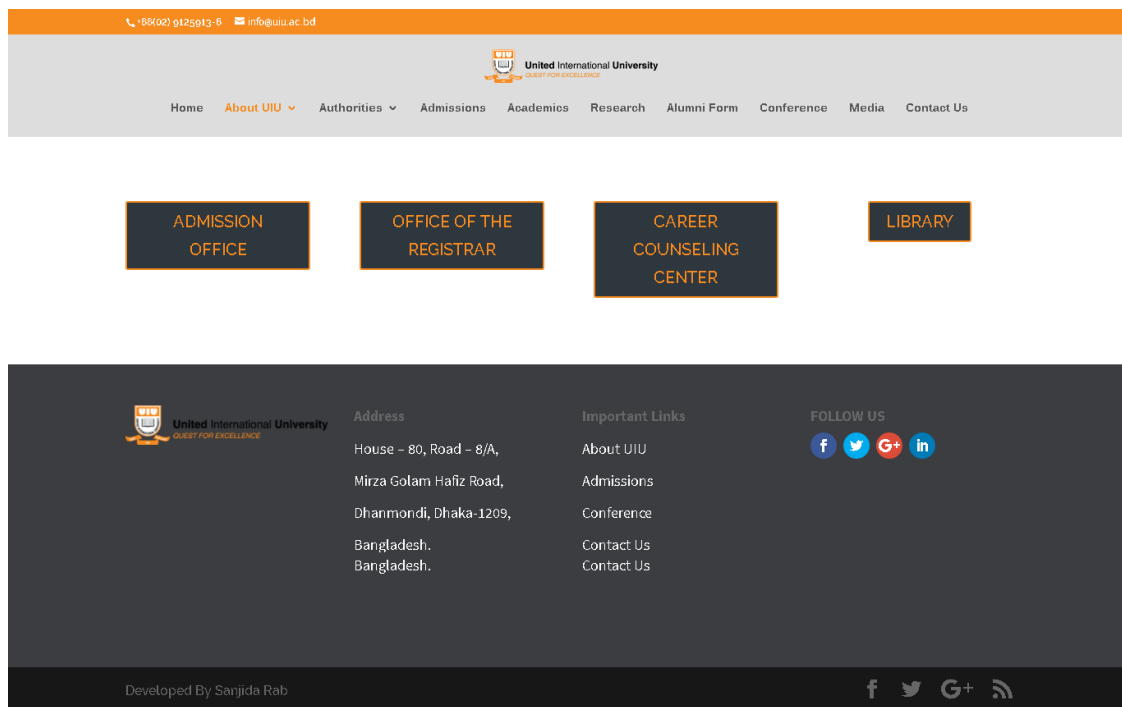


Figure 3.7: Offices page

Offices page have four animated buttons which are linked by their required pages. Pages are:

- Admission office,
- Office of the registrar,
- Career Counseling Center
- Library

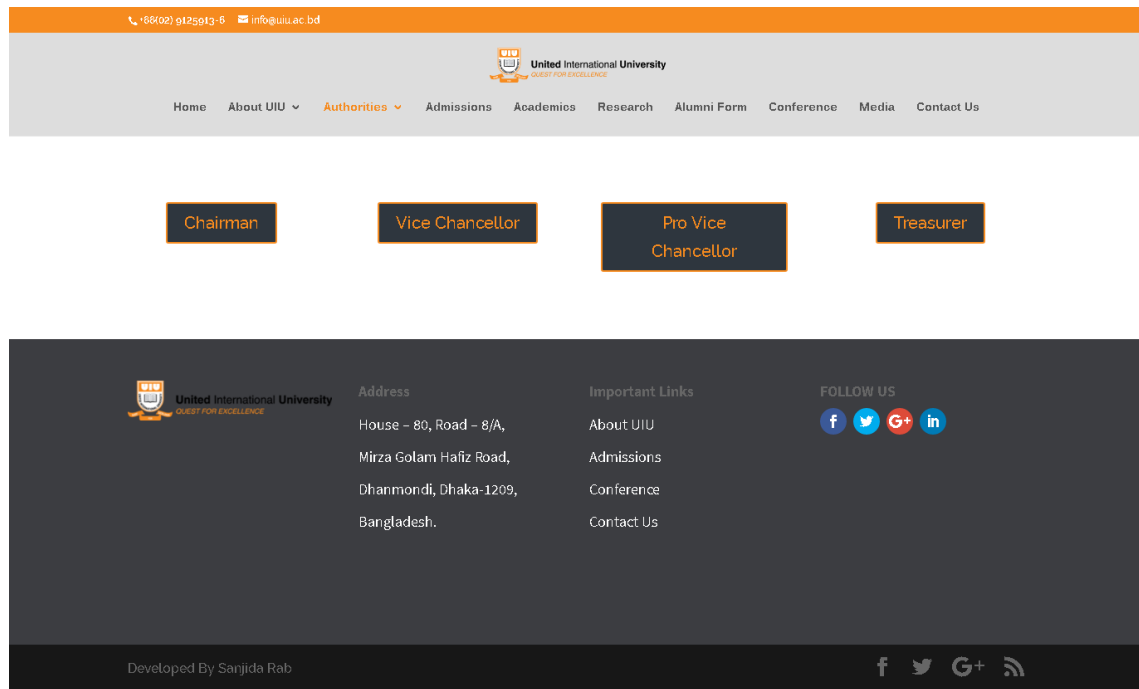


Figure 3.8: Authorities Page

Offices page have four animated buttons which are linked by their required pages. Pages are:

- Chairman,
- Vice Chancellor,
- Pro Vice-Chancellor
- Treasurer

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Profile of the Chairman

Mr. Md. Hasan Mahmood Raja



Message from Chairman

On the eve of its 25th anniversary, united group modestly presents its newest and most promising venture in the shape of United International University. With a heartfelt desire to promoting our ideals into the fields of education and research, United International University is poised to become an instant celebrity in the field of higher education. Built with the vision of producing the graduates of the new millennium with the dexterity and maturity the nation requires – this endeavor heralds our continued commitment to the people of Bangladesh.

It is our expectation that United International University will bring a new era in the field of higher education. It will provide the nation and the global economy with a fresh and continuous combination of highly skilled graduates ready and willing to meet and exceed all professional opportunities in all fields of involvement. The will and determination of United Group, coupled with the team of local and foreign experts and educational partners and skilled lineup of professionals and educationists will help us to carry our dreams onward.

As we continue to progress to meet the challenges and goals of today, we will maintain our vigil for the challenges of tomorrow. Through this journey Insha-Allah our will and commitment to our cause will remain steadfast.

Hasan Mahmood Raja
Chairman of the Board of Governors


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Figure 3.9: Chairman Page

Chairman page has the message and picture of the chairman.

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Profile of the Vice Chancellor

Professor Dr. M. Rezwan Khan
 B.Sc. Engg. (EEE, BUET), M.Sc. Engg. (UCL, UK),
 Ph.D (UCL, UK)
 Senior Member, IEEE and Member IEB
 Former Professor, Dept. of EEE, BUET



Message from Vice Chancellor

United International University, UIU, has been established with a view to creating an educational institution with a difference. Its goal is to provide quality education in the fields of Science, Engineering and Business, and at the same time to produce skilled professionals with high standard of human/moral values. Befitting infrastructure, congenial environment, well equipped laboratories and highly qualified experienced faculty members are precondition for quality education UIU is committed to provide all these necessary components to make it an educational institution of international standing.

Teaching only cannot be the sole aim of a university, as the basic definition of the university lies in extending the horizon of knowledge. UIU is particularly keen to develop research activities so that its graduates and the faculty members can leave a lasting impression at home and abroad. Arrangements are being made to establish links with renowned universities of Asia, Europe, Australia and North America and very soon UIU will have credit transfer agreements with a number of internationally reputed universities. I am confident that UIU has all the capabilities to pursue the never ending quest for educational excellence.

Sincerely,


 Prof. Dr. M. Rezwan Khan
 The Vice Chancellor


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Figure 3.10: Vice Chancellor Page

Vice Chancellor Page has the message, profile, and picture of the Vice Chancellor.

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Profile of the Pro Vice Chancellor

Professor Dr. Chowdhury Mofizur Rahman
 B.Sc. Engg. (EEE, BUET), M.Sc. Engg. (CSE, BUET)
 Ph.D (CS, Tokyo Institute of Technology)
 Former Professor and Head, CSE Dept. BUET
 Joint Coordinator, EU sponsored cLINK & FUSION project



Message from Pro Vice Chancellor

The students of today are the Architects of tomorrow. To meet the challenges of the present in an ever changing globe, teeming with bleeding edge technology and relentless competition, the graduates of today must also be determined but flexible, dexterous but resolute. Bangladesh has a need to produce the graduates that will drive us to an industrial and technological renaissance and deliver us to the Promised Land. With these stated missions and resolute goals, United International University has risen to the challenge of providing Bangladesh with the life blood /line for such a revolution Our mission goal demands of us not just remain another participant in the sea of private initiatives for higher education in Bangladesh, but to also be a major player in the transmission and dissemination of knowledge, research and technology in Bangladesh.

With an affirmed goal United International University will provide the assistance, encouragement, resource, participation and legitimacy required in establishing the back bone of credible higher research in the socio- politic and socio-economic landscape of Bangladesh. Naturally, our initiative embraces a level of reality missing from the usual landscape. Industry relevant recognition and universal acclaim will be the main focus of United International University in the coming years. Desired close co-operation with the leading companies in the nation and abroad will be pursued and attained through sincerity and clarity.

It is only a matter of time before United International University finds itself in the hearts and minds of prospective students and parents alike of the near future. So, join us to help make United International University a conduit for our vision – share the united experience.

Sincerely,


 Prof. Dr. Chowdhury Mofizur Rahman
 Pro Vice Chancellor, UIU


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Figure 3.11: Pro Vice Chancellor Page

Pro Vice-Chancellor Page has the message, profile, and picture of the Pro Vice-Chancellor.

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Profile of the Treasurer

Habib Abu Ibrahim
M.Sc. in Statistics (Dhaka University)
Former:
Treasurer, Sher-E-Bangla Agricultural University
Vice Chairman, Export Promotion Bureau
Joint Secretary, Ministry of Finance
Member, BCS (Audit & Accounts)




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Figure 3.12: Treasurer Page

Treasurer Page has the message, profile, and picture of the treasurer.

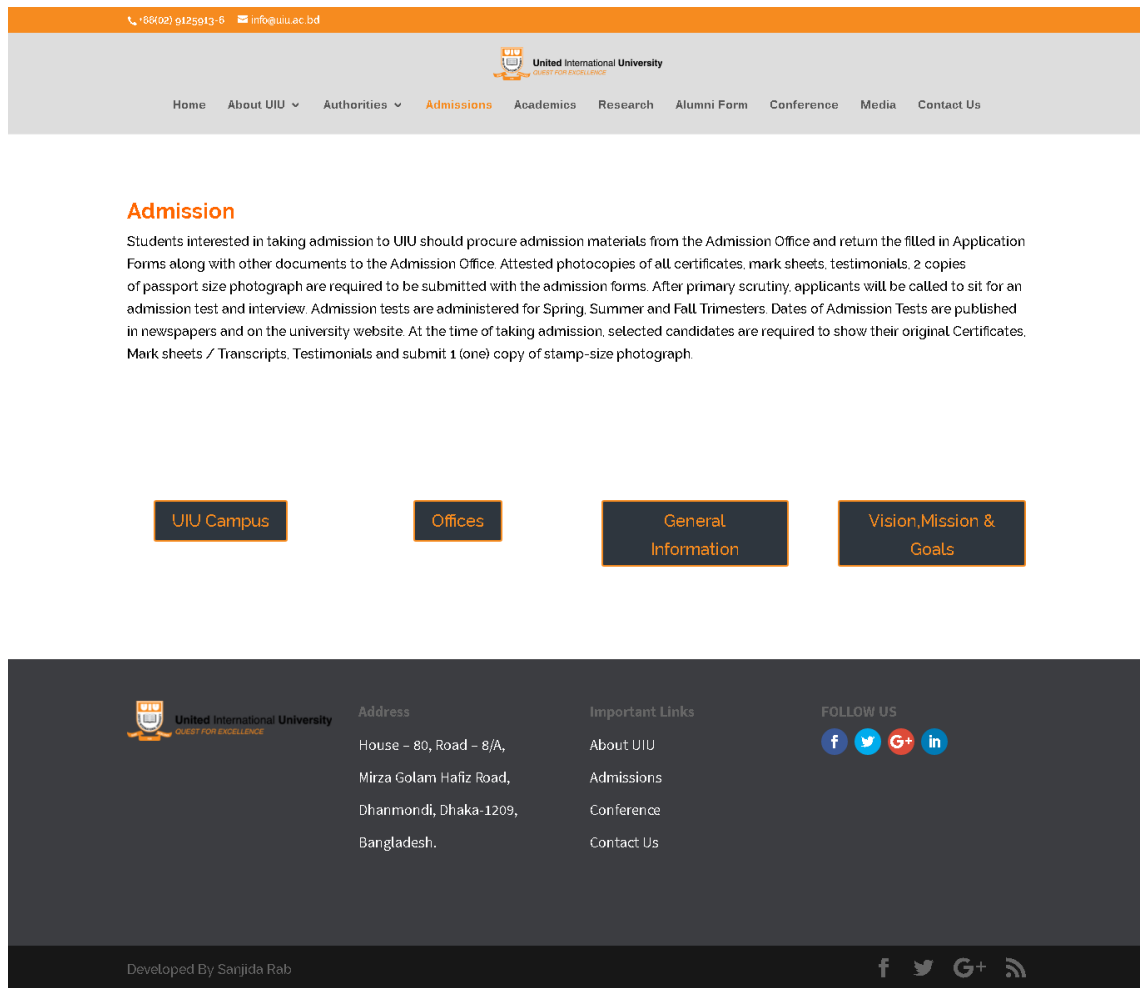


Figure 3.13: Admission Page

Admission page has four animated buttons which are linked by their required pages. Pages are:

- UIU Campus,
- Offices,
- General Information
- Vision, mission & goals

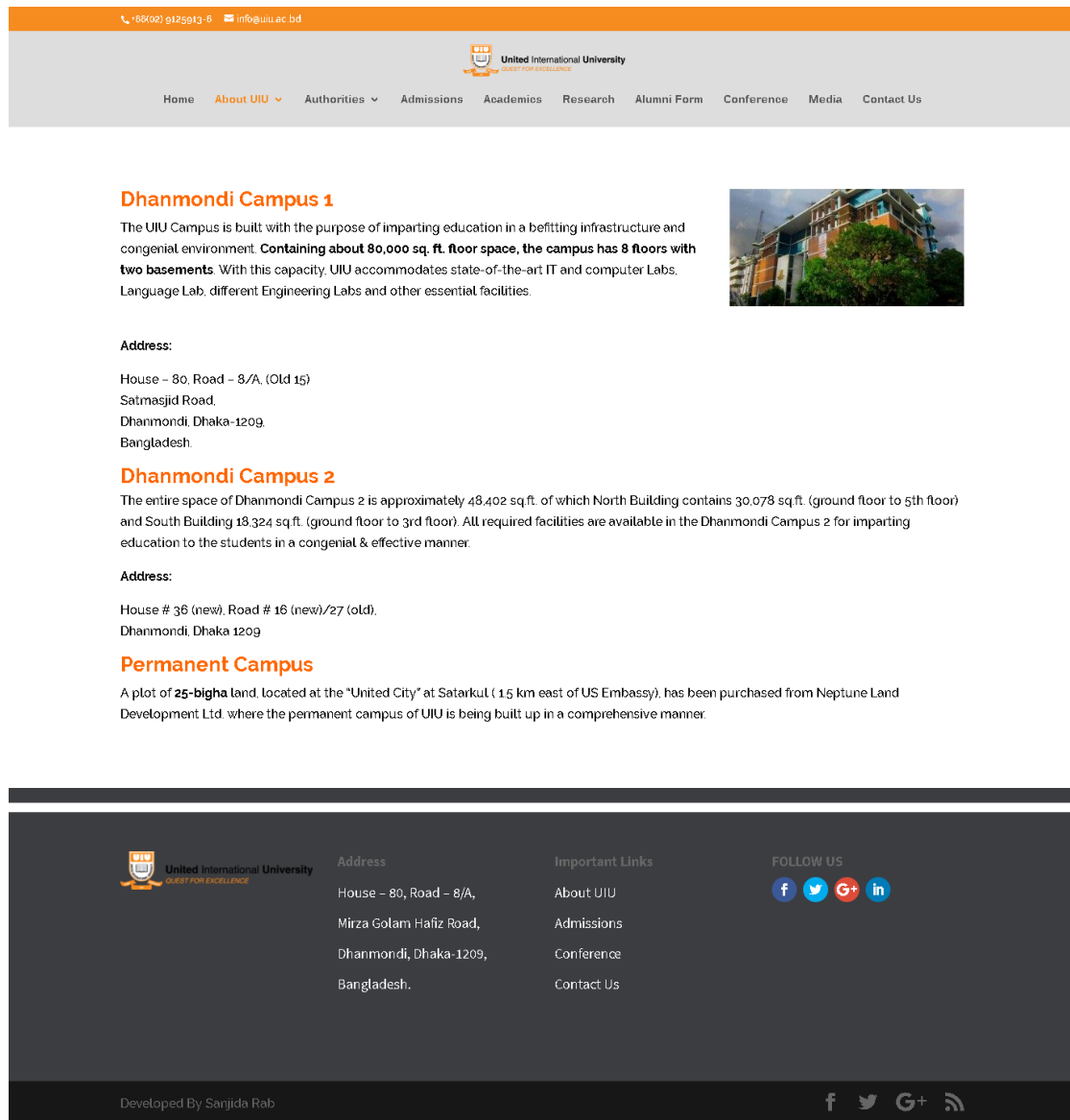


Figure 3.14: UIU Campus page

University campus-related information is given in the UIU Campus page.

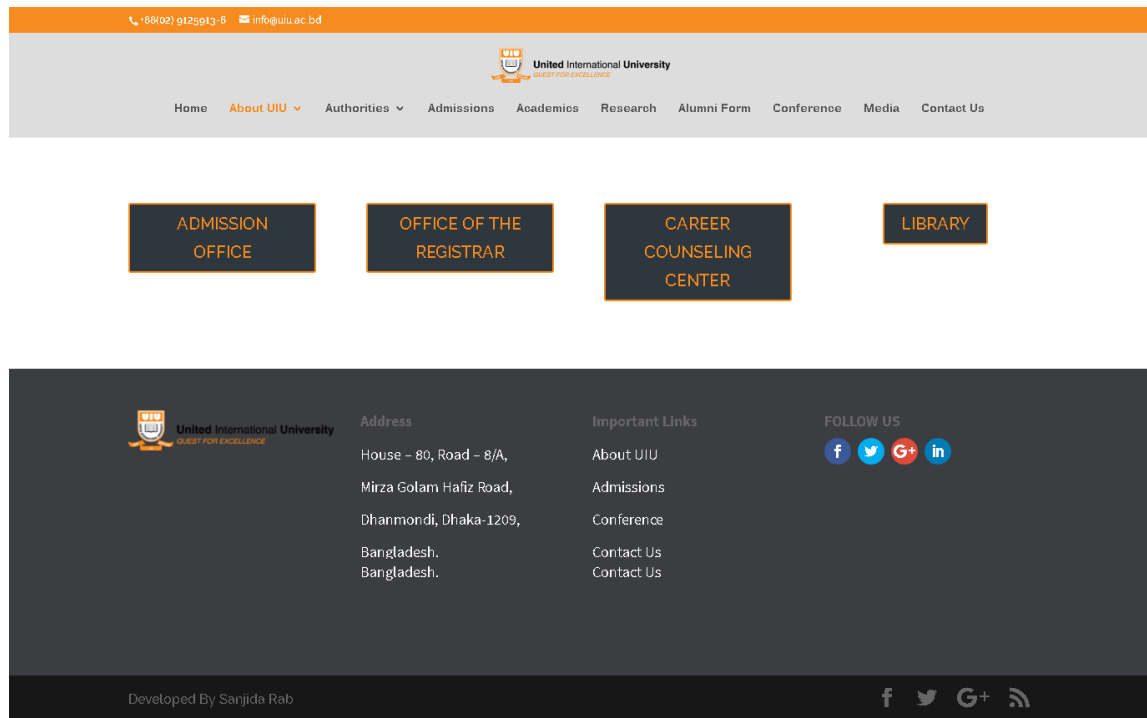


Figure 3.15: Offices page

Offices page has four animated buttons which are linked by their required pages. Pages are:

- Admission Office
- Offices of the register
- Career counseling center
- Library

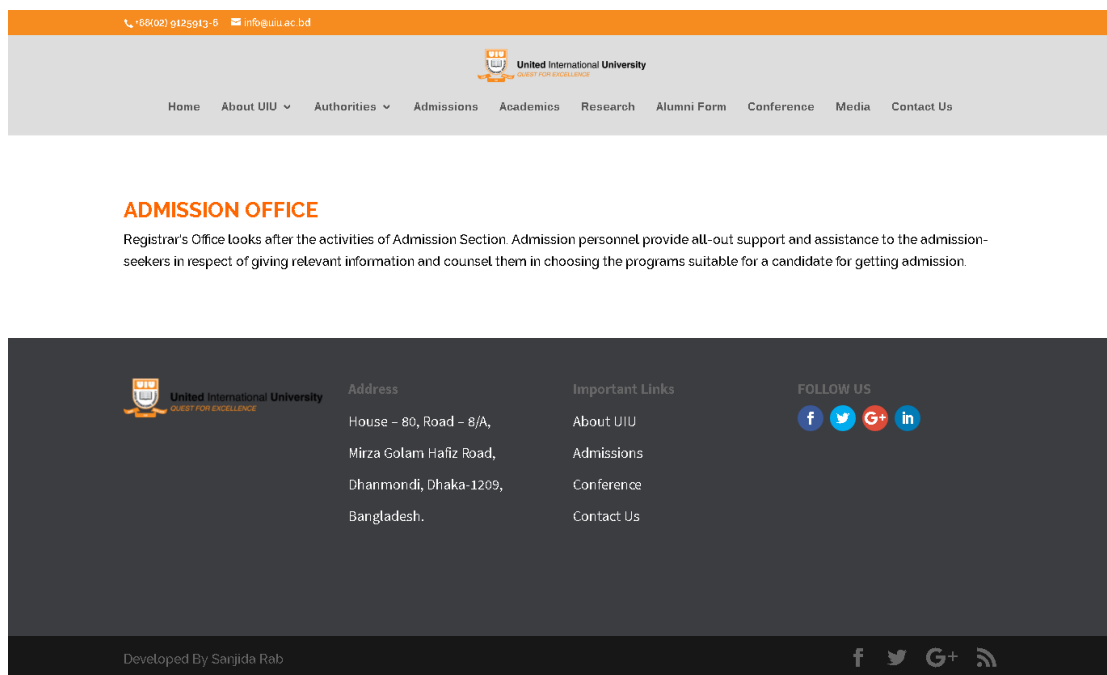


Figure 3.16: Admission Office page

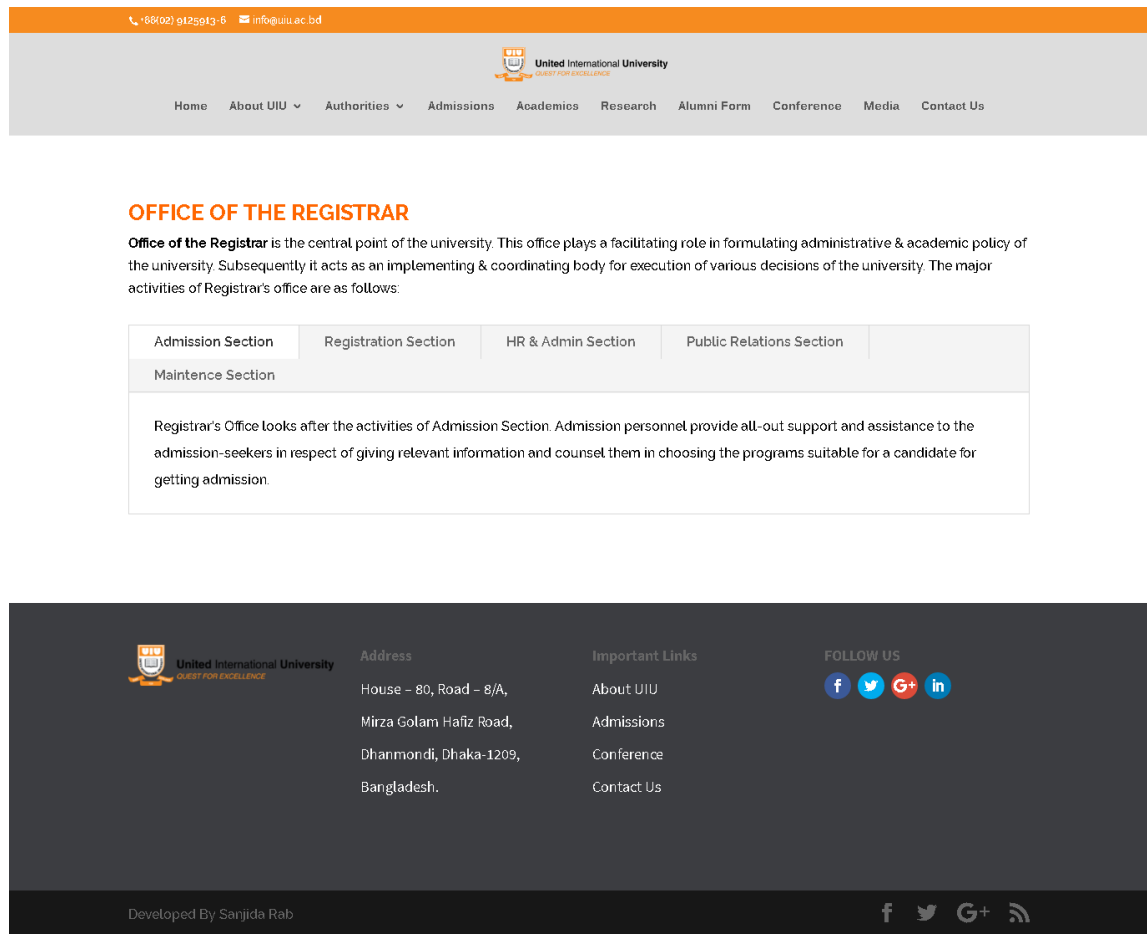


Figure 3.17: Office of the Register page

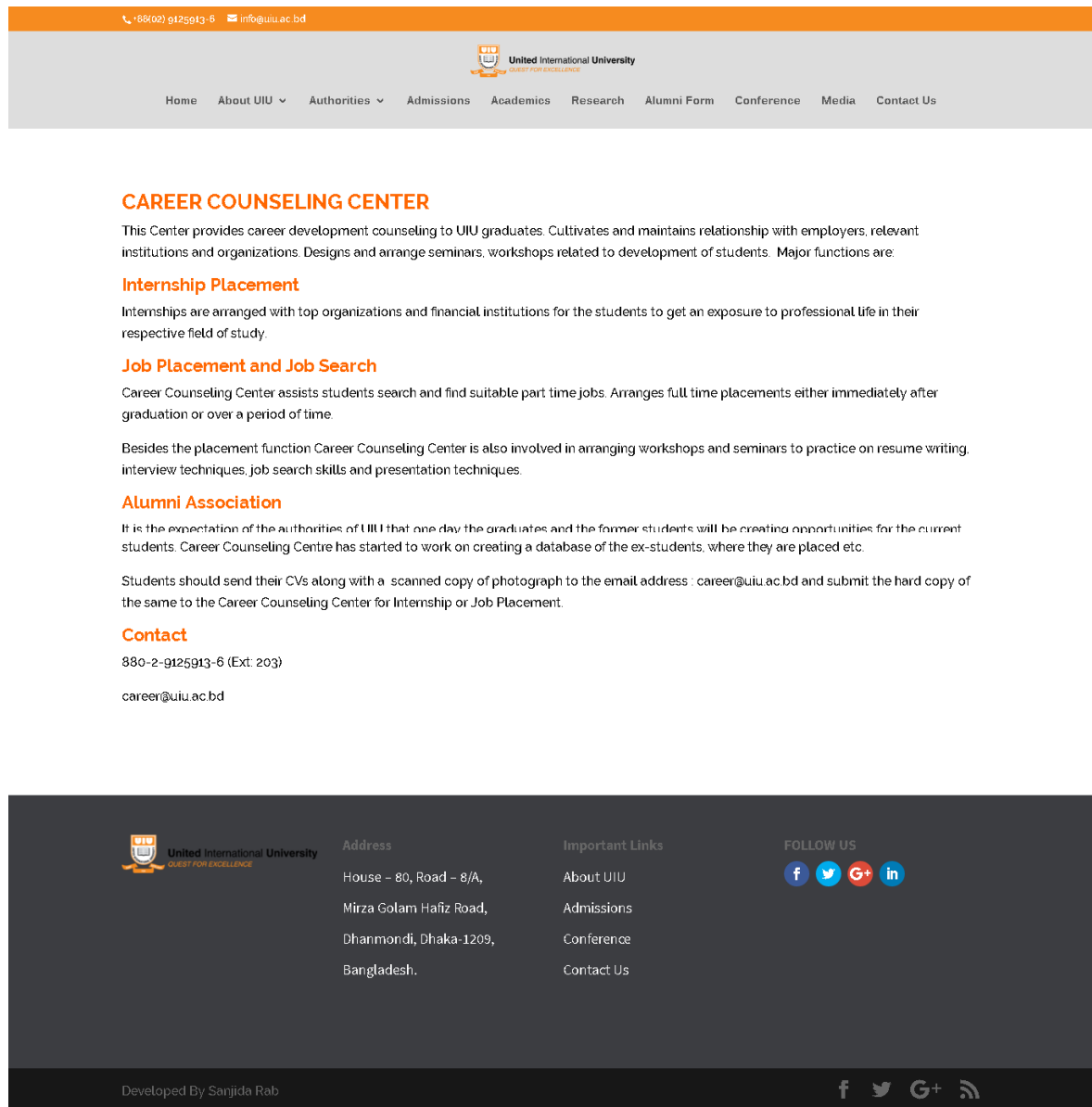


Figure 3.18: Career Counseling Center Page

Career Counseling Center Page has some information which is Internship Placement, Job Placement and Job Search and Alumni Association.

LIBRARY

Due to the explosion of knowledge in both traditional and digital forms, UIU Library has developed a system that is capable of serving the best of its users. UIU Library is working closely with faculties to integrate resources and also to ensure that our collections meet with needs of our teaching and research programs.

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Figure 3.19: Library Page

Library Page has university library related information.

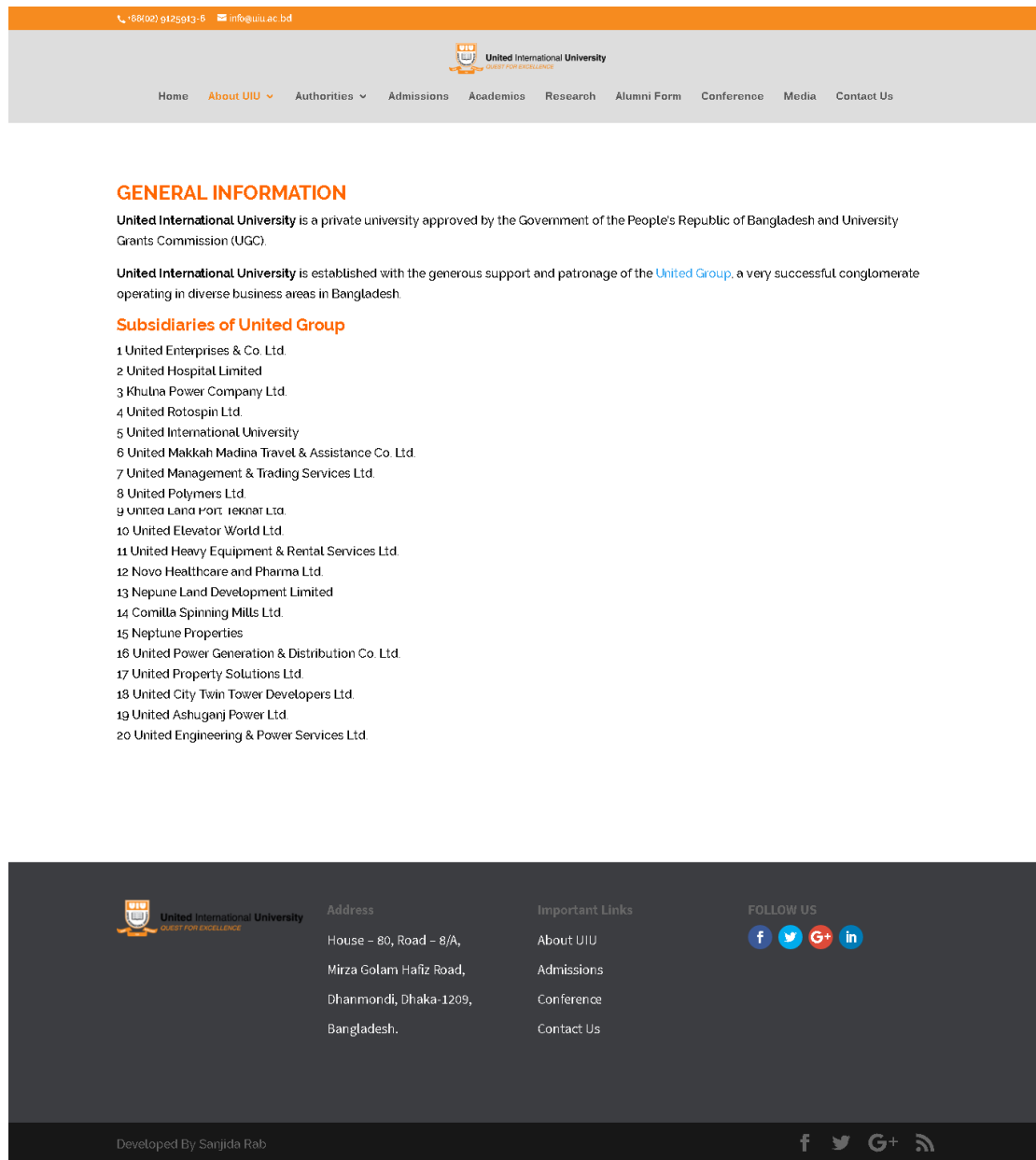


Figure 3.20: General Information Page

General information page has information about the united international university and united group.

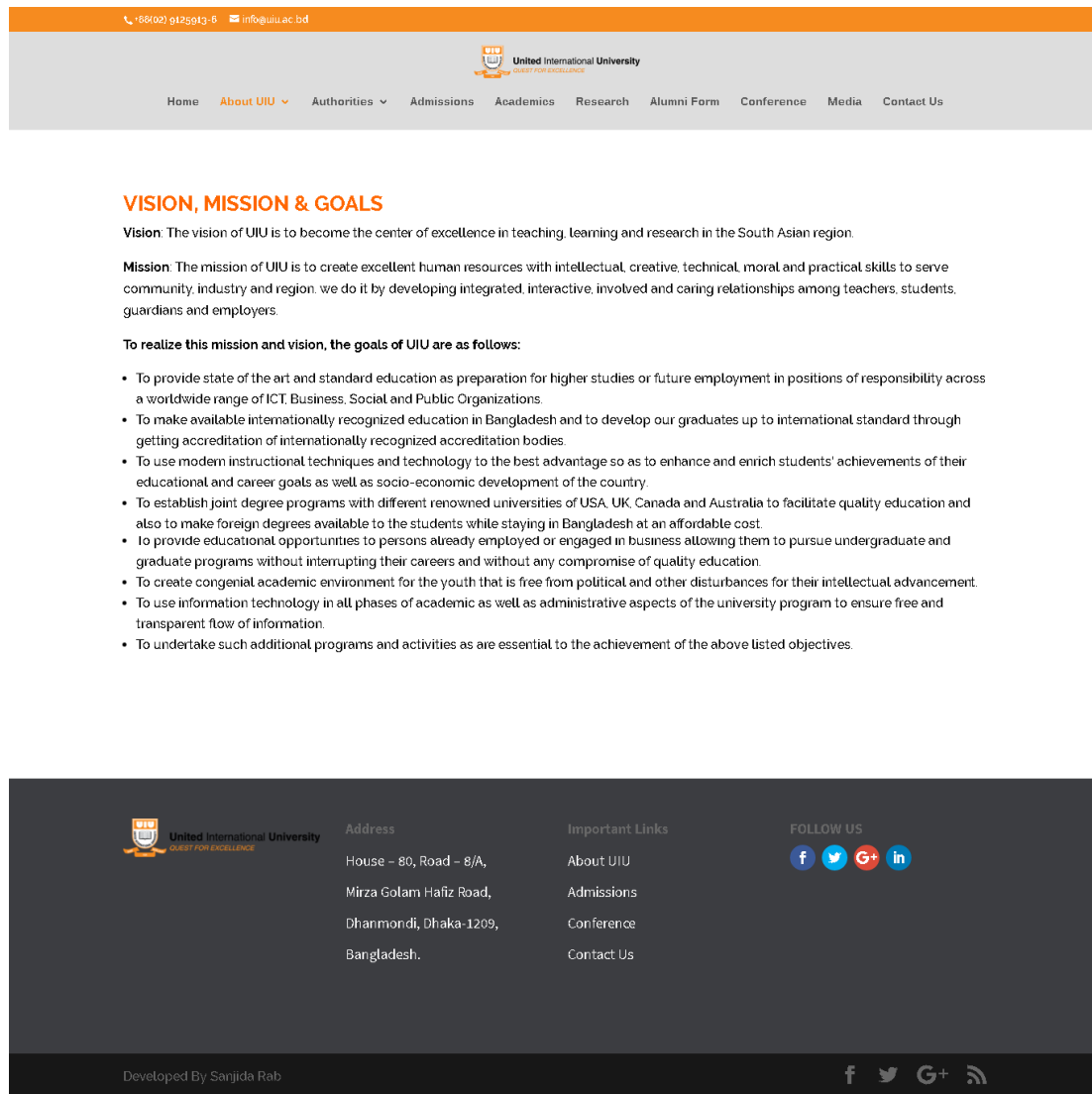


Figure 3.21: Vision, Mission & Goals page

Vision, Mission & Goals page has the details of vision, mission, and goals of the university.

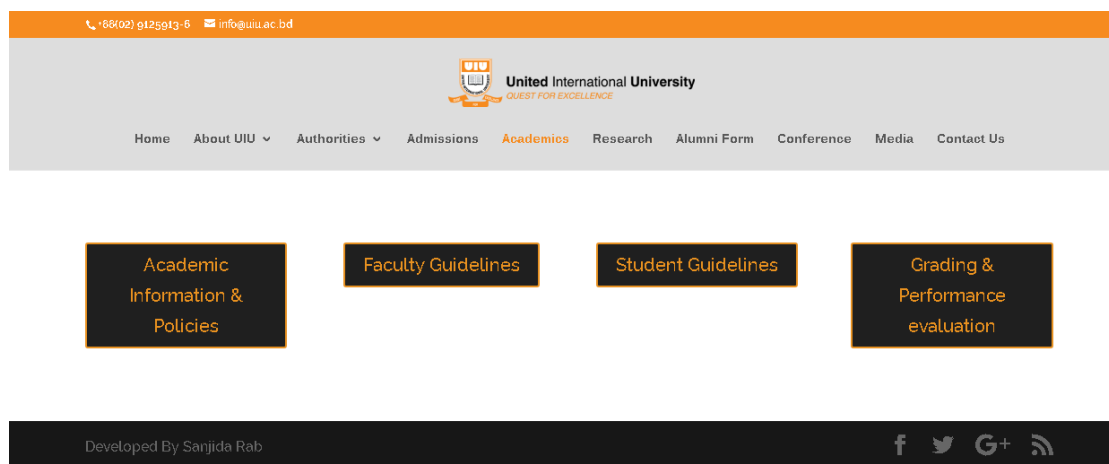


Figure 3.22: Academics Page

Academics Page have four animated buttons which are linked by their required pages. Pages are:

- Academic information and policies
- Faculty Guidelines,
- Student Guidelines
- Grading & performance evaluation

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Registration
Students are required to complete their registration formalities before a trimester starts. The Admission Office will notify the newly admitted students about the time and place of their registration. Students should consult their course advisors for planning their courses and to be familiar with UIU policies and procedures related to registration. Students can make registration through online.

Late Registration and Add-Drop of Courses
A student seeking to register after the scheduled date has to take permission of the concerned respective Head of the Department. A student given permission to register late has to pay late registration fee. A student may drop course(s) only within the date mentioned in the Academic Calendar with the approval of the Head of the department. The last day of dropping a course in a trimester without a record (i.e., "W") in the transcript, is mentioned in the academic calendar.

Students' Advising
Faculty Advisors, prior to registration, will advise students of the undergraduate and graduate programs. Students of undergraduate & graduate programs have to register a minimum of 9 (nine) credits and 6 (six) credits respectively in a single Trimester.

Change of Program/Department

- Concerned Heads of the Departments/Programs must agree to the department/ program change.
- A student on probation will not be eligible to apply for department/program change
- A student willing to shift from BBA to BBA in AIS and Vice Versa must have a minimum CGPA of 2.00 for being eligible to apply for program change
- A student willing to shift from BBA to BSECO is free to go provided he/she has a minimum CGPA of 2.00. In such cases, the student will have to pay his/her tuition fees as per the rate fixed for students of BSECO program after the change takes effect.
- A student of BSECO willing to change his/her program to BBA will not be allowed to do so unless he/she sits for the Admission Test for BBA Program and qualifies in such a test. Same condition will be applicable for a student of an academic program under School of Business & Economics intending to shift to a program of School of Science & Engineering.
- A regular student changing his/her department/program will not require paying Admission Fee anymore. Tuition Fee rate will remain unchanged for the students shifting from BBA to BBA in AIS and Vice Versa. For the students shifting from School of Business & Economics to School of Science & Engineering. Tuition Fee rate applicable for the Trimester in which he/she appeared at Admission Test for the respective program will remain in force.
- Grades of equivalent courses can be transferred in the case of Department/Program Change.
- Students intending to change department/program must apply within the deadline given by the Dean of the School of Business & Economics.
- A student seeking department/program change before getting admission will require approval/permission from the concerned Heads of the Departments/Programs.

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Figure 3.23: Academic information and policies Page

Academic information and policies page has the information about Registration, Late Registration and Add-Drop of Courses, Students' Advising and department.

Faculty guideline page has the information of Guidelines for Faculty Members to maintain the quality and standard of teaching.

Student guideline page has the information of Guidelines for Faculty Members to maintain the quality and standard of teaching.

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Grading System

The performance of a student in a given course is made through continuous evaluation that comprises quizzes/ in-course tests, class participation, attendance, home work/assignment, case study, mid-terms and trimester final examinations. Letter grades and grade points are used to evaluate the performance of a student in a given course. The table below shows the grading policy.

Letter Grade	Grade Point	Assessment
A	4.00	Outstanding
A-	3.67	Excellent
B+	3.33	Very Good
B	3.00	Good
B-	2.67	Above Average
C+	2.33	Average
C	2.00	Below Average
C-	1.67	Poor
D+	1.33	Very poor
D	1.00	Pass
F	0.00	Fail

Calculation of GPA/CGPA

Grade Point Average (GPA) is the weighted average grade of a trimester while Cumulative Grade Point Average (CGPA) is the weighted average of the grade points obtained in all the courses completed by a student along with last trimester. For example, if a student passes/completes four courses in a trimester having credits of C₁, C₂, C₃, & C₄ and his grade points in these courses are G₁, G₂, G₃, & G₄ respectively then:

Earned Credit Hours

The course in which a student has obtained "D" or higher grade will be counted as earned credit hours. Any course in which a student has obtained "F" grade will not be counted towards his/her earned credit. In that case he/she will have to retake the course.

Incomplete (I)

Incomplete (I) grade may be assigned in special circumstances at the discretion of course teacher. The student has to take the initiative to remove the "I" grade within one month of the following trimester. If action is not taken, the "I" grade will revert to "F".

Retaking a course (R)

Students may select to retake a course if he or she thinks grade improvement is possible. Students who wish to retake a course must register for the course again and will have to pay tuition and other applicable fees. Degree requirements for both Undergraduate and Graduate Programs: CGPA 2.00.


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Figure 3.24: Grading Performance & Evaluation page

Grading Performance & Evaluation page has the information of Grading System and policies, Calculation of GPA/CGPA.

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UIU Research Grant

United International University (UIU) has taken a pioneering initiative to provide Research Fund for its faculty members to conduct quality research activities and set examples for other institutions. An initial annual budget of **Tk. 10,000,000 (1 Crore)** has been allocated for this purpose.

Research proposals will be invited twice a year to award funds in January and July every year (Tk. 5,000,000 for each call). The maximum allocated fund for a particular project will not exceed Tk. 1200,000 for a 2-year project. Smaller projects with duration between 1 to 2 years or less than 1 year will be allocated a budget proportionate to their time duration.

A Selection Committee has been formed comprising of the Vice Chancellor as its Chairman and Pro-Vice Chancellor and Deans of two Schools as its member to evaluate the Project Proposals as well as to select the research projects for awarding the grant.

Event

Further Extension of Time to Register for UIU Transportation Service

Latest News

Grand Finale of 10th UIU national Debate Championship
Energy of The Future-

Calendar

February 2018						
M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				
« Aug						


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Figure 3.25: Research Page

In the research page, people can know the research-related information they are: Research proposals and budget.

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Upcoming Conference

8
JAN 18

International Conference on Sustainable Development 2018

Upcoming Conference

The current challenges of the academics, scientists, politicians, bureaucrats, and the stakeholders in every society of the World are to...

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Past Conference

Medical Engineering, Health Informatics and Technology (MediTec 2016)

Engineering and technology play pivotal role in the development of quality healthcare in today's world. The International Conference on Medical Engineering,...

Read More

International Conference on Sustainable Development

The World Community and World Leaders face challenges to accelerate the 2030 Sustainable development Agenda and promote inclusive Green Growth...

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IBRO-APRC

About Organizer: Prof. Khondaker Mamun (Initiator, Bangladesh Research and Awareness Initiative of Neuroscience (BRAIN) and Director, Advanced Intelligent Multidisciplinary Systems Lab (AIMS...

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Event

UIU Academic & Administrative Activities at Permanent Campus from Spring 2018 Trimester

Further Extension of Time to

Latest News

Grand Finale of 10th UIU national Debate Championship

Energy of The Future- Centre for Energy Research, UIU

Calender

February 2018

M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				
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Figure 3.26: Conference page

Upcoming conference and past conference are news type post on the conference page. These posts are published with title, description, and date.

At the right-sidebar, event and latest news are posted in the section. Also, a calendar is included in the sidebar.

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Alumni Registration Form

UIU ID (provide your first ID, if awarded more than one degree) *

e.g - 8 digit UIU student ID

CONVOCATION ATTENDED **

Example: 1st

DEGREE AWARDED *

e.g - BBA, MBA, CSE, EEE etc

DEPARTMENT/SCHOOL/INSTITUTE *

e.g - BBA, MBA, CSE, EEE etc

FULL NAME [ALL CAPS] *

CGPA (Out of 4) *

GENDER *

Female

EMAIL ADDRESS (VALID AND ACTIVE) *

CELL NUMBER (ACTIVE) *

LAND PHONE NUMBER (IF ANY)

Address

BLOOD GROUP *

A+

EMPLOYMENT STATUS [Are you currently employed ?] *

☐ Yes
☐ No
☐ Self Employed

Submit


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Figure 3.27: Alumni Page

An alumni form has some field which is connected to the WordPress content management system. We find this information in excel format which is very much user friendly for a user.

Alumni form Fields are given below:

- UIU ID
- Convocation Attended
- Degree Awarded
- Department/School/Institute
- Full Name
- CGPA
- Gender
- Email Address
- Cell Number
- Land Phone Number
- Address
- Blood Group
- Employment Status

ARForms plugin is the form builder plugin which is using to create the alumni form.

The feature of ARForms plugin is given below:

- Great form entries analysis charts
- Conditional laws which use advanced forms
- Unique live form styling facility
- Support multiple user input field elements
- Quick and easy form builder which have the facility to easily drag and drop
- Fancy checkbox and radio button with different color options
- Bootstrap style Prefix/Suffix font awesome icons can be used to the input box
- Google font support
- Export information form data
- Instant preview option
- Quick form duplicator option
- Fully customizable by using form styling tool.
- Different ways to create form.
 - – popup
 - – widget

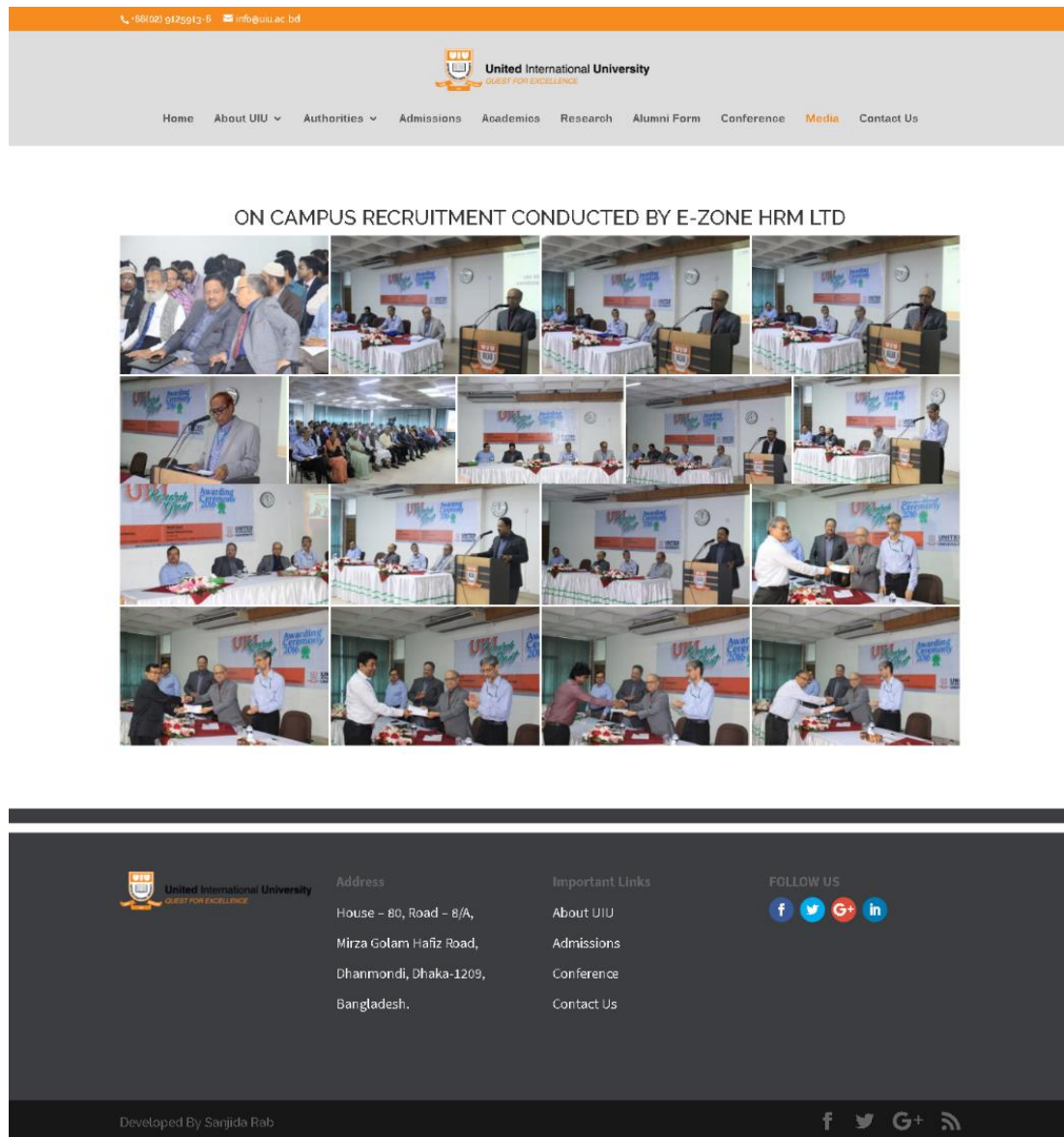


Figure 3.28: Media Page

Media page has an album which is made by Unite Gallery Plugin. In the album, the zoom function is enabled.

Unite Gallery Plugin Features is given below:

- Media Lightbox
- Gallery parts can be controlled by the touch.
- Zooming Effect – The gallery has the unique zoom effect that could be applied to buttons, mouse wheel or pinch gesture on the touch-enabled devices.
- Skinnable – Allow to change the skin with ease in different CSS.
- Category tabs functionality

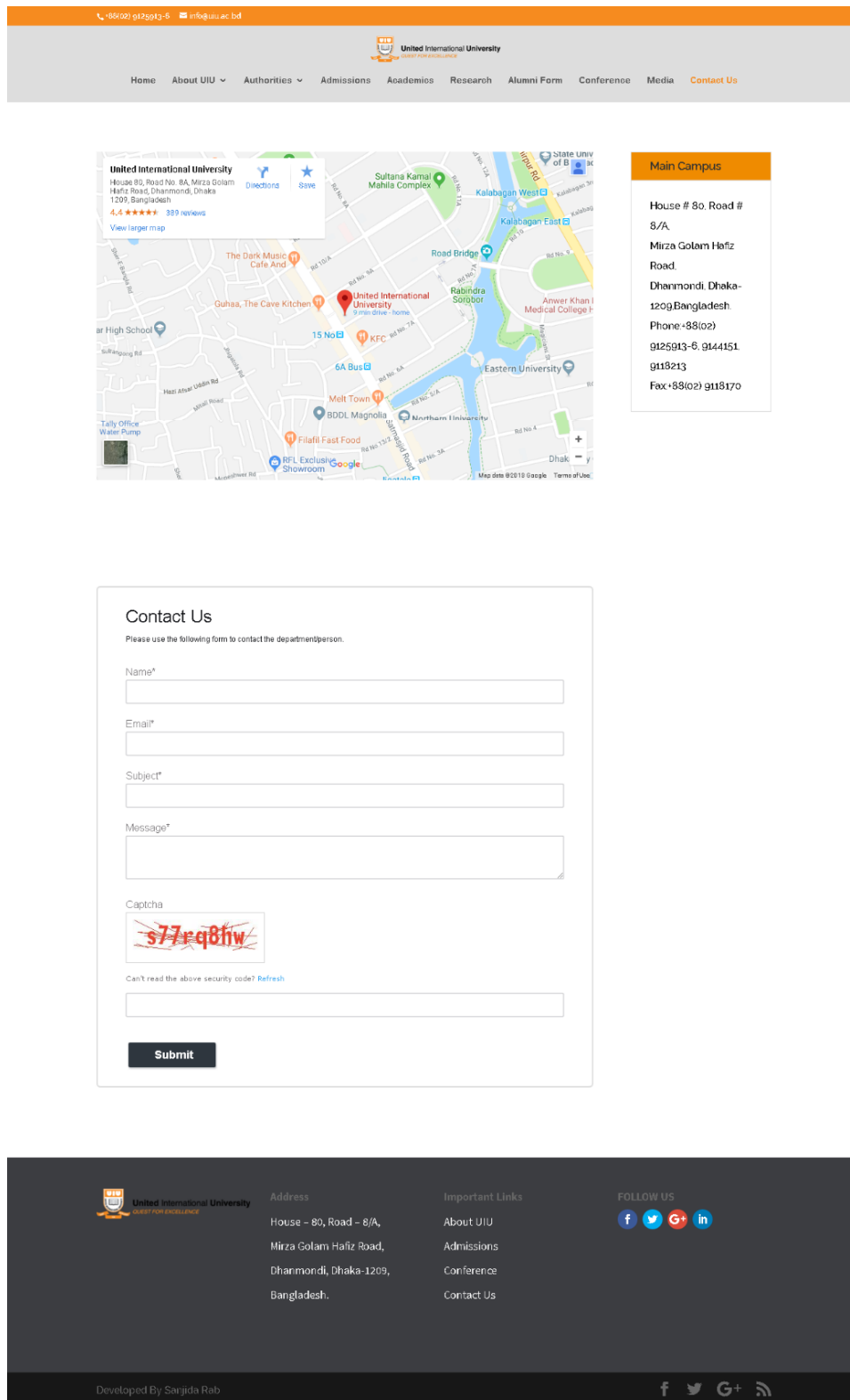


Figure 3.29: Contact Us page

Contact us page has a google map of the university location. A contact form is also included in the contact us page. A right-side bar section is also including which have campus address.

Contact us form included in these files which are given below:

- Name
- Email
- Subject
- Message
- Captcha

Features

- Application installation is not required; the user accesses the application on the website. WordPress plug-in installation may be required.
- Updates and upgrades to newer versions are automatically applied.
- Any computer with the internet connection can become an access point to an application, no matter what operating system is installed on the computer.
- The risk of viral infection is mostly decreasing when running the application on the website instead of an executable option.

3.1 External Interface Requirements

Hardware Interfaces

TCP/IP is the reliable connection-oriented protocol which allows byte streaming originating on the personal computer to deliver without any types of error data on any other personal computer between the two different networks.

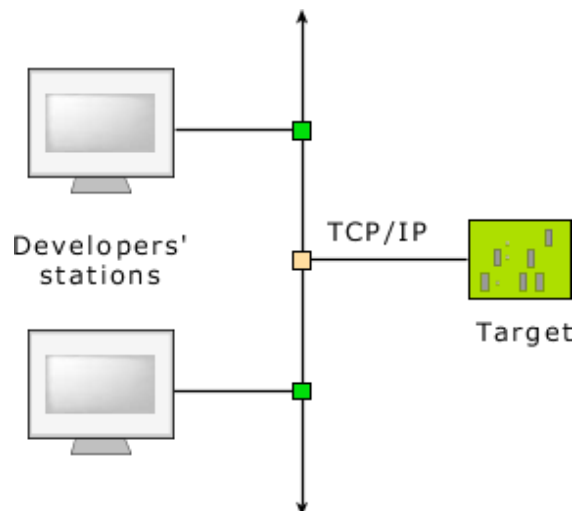


Figure 3.30: TCP/IP Connection

Transmission control protocol is fragmenting the incoming byte stream into the discrete data or message and parses each one on to the internet layer. At the destination port, the receiving TCP process is reassembling the message into the output stream.

TCP protocol also is handling the flow control to make sure the fast sender cannot swamp a slow receiver with the message than it can handle.

User Interfaces

A dashboard is provided to the Web Developer for development of web pages.

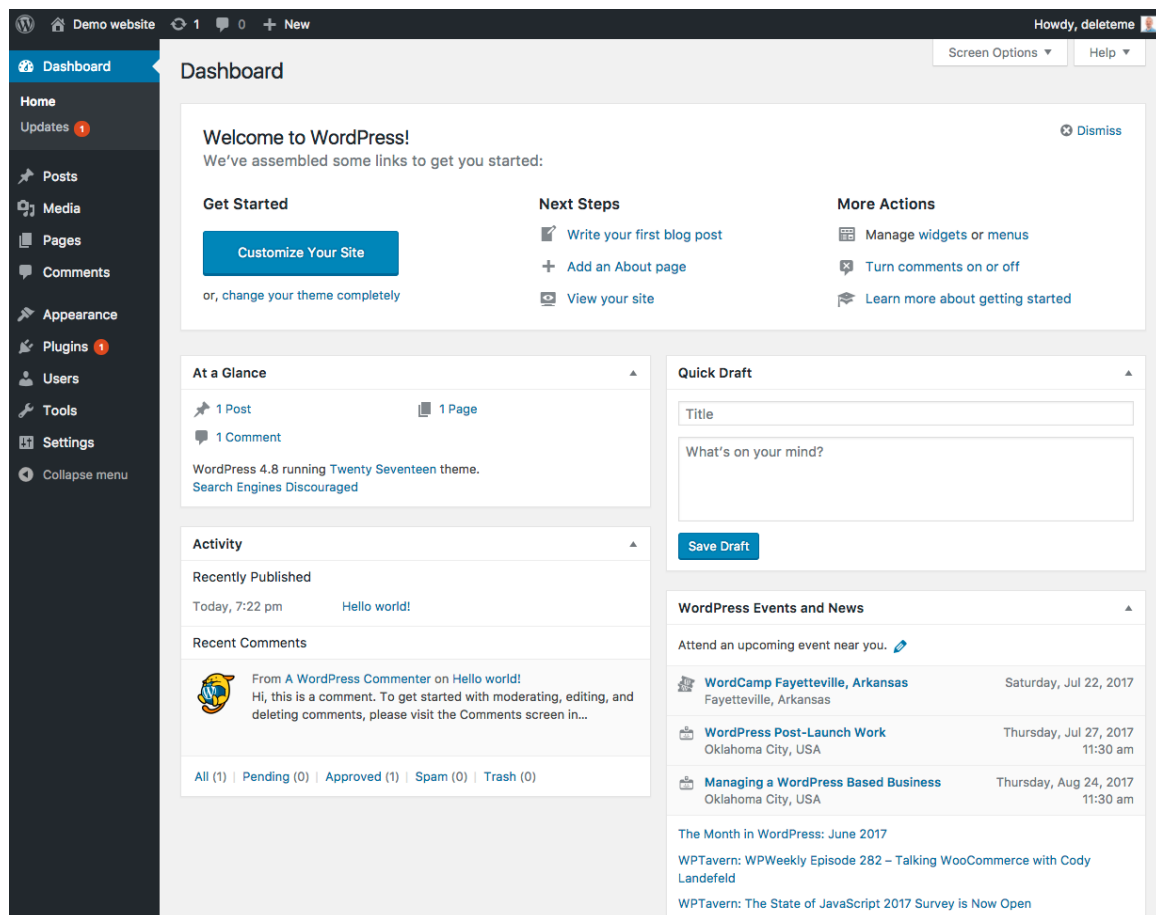


Figure 3.31: WordPress Dashboard

cPanel Interface

The cPanel is a virtual Linux-based website hosting control panel system which provides the graphical interface mode for hosting the website. cPanel utilizes the 3-tier structure

which provides the ability for the administrator, reseller, and end-user website proprietors to control the different parts of website and server administration through the website browser.

The Graphical User Interface (GUI), cPanel has the command line interface (CLI) and Application Program Interface (API) based access which permits third-party software merchants, website hosting companies or organizations, and developers to configure the standard system administration process.

Also, the Application-based support which includes Apache, PHP, MySQL, and Perl. cPanel is accessed by the port 2083 via https. Email related support includes POP3, IMAP, and SMTP service.

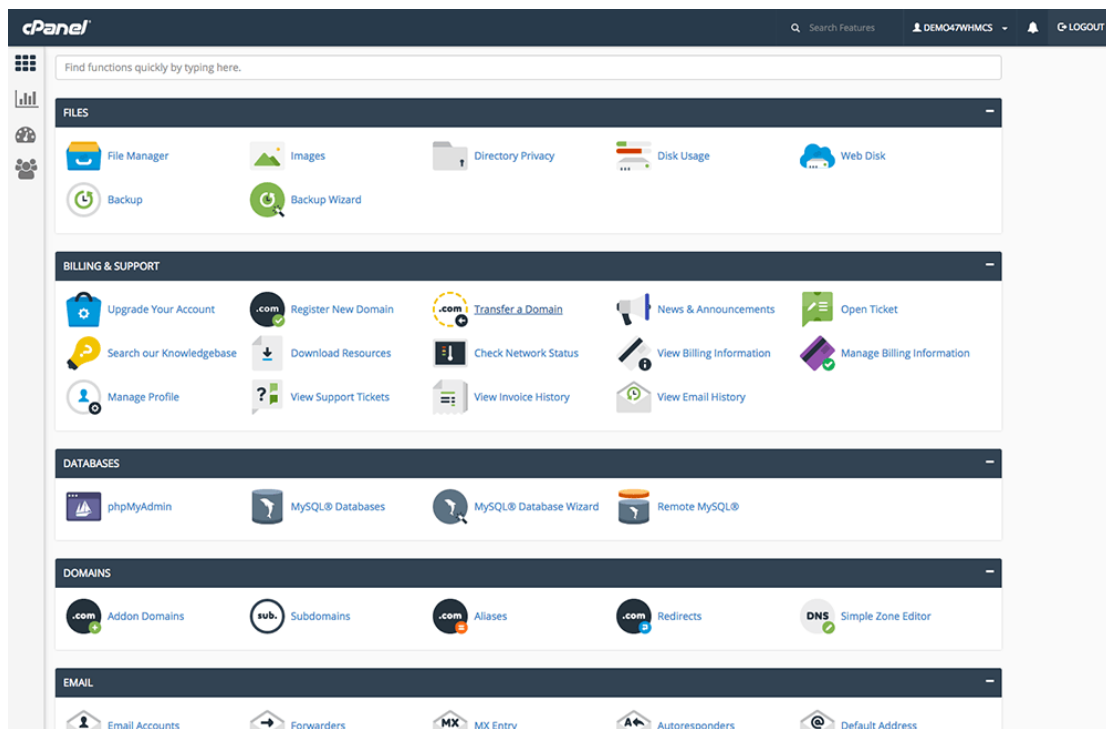


Figure 3.32: cPanel Interface

Once installed, the cPanel cannot be easily removed. cPanel's FAQ states that the best way to uninstall cPanel is by regenerating the server. However, uninstall guides are available online for expert server administrators who do not want to regenerate the server. Similarly,

cPanel should be installed on the new operating system with the minimal prior configuration.

phpMyAdmin

phpMyAdmin is the freeware open source administrative tool for MySQL database in the control panel. As a portable web application is written by using primarily in PHP, it has become the most famous MySQL administration tools, especially for the web hosting services.

The screenshot displays the phpMyAdmin web interface. On the left, a sidebar shows a tree view of the database structure for 'sanjdam_wp66' and 'sanjdam_wp776'. The main area shows a list of tables for the 'sanjdam_wp776' database. The table list includes columns for Table, Action, Rows, Type, Collation, Size, and Overhead. Below the table list, there is a 'Create table' form with fields for Name and Number of columns, and a 'Go' button.

Table	Action	Rows	Type	Collation	Size	Overhead
wprk_arf_ar	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_arf_autoresponder	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_arf_entries	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	80 K B	-
wprk_arf_entry_values	Browse Structure Search Insert Empty Drop	28	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_arf_fields	Browse Structure Search Insert Empty Drop	31	InnoDB	utf8mb4_unicode_ci	224 K B	-
wprk_arf_forms	Browse Structure Search Insert Empty Drop	38	InnoDB	utf8mb4_unicode_ci	240 K B	-
wprk_arf_ref_forms	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32 K B	-
wprk_arf_views	Browse Structure Search Insert Empty Drop	36	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_commentmeta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_comments	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	96 K B	-
wprk_datalist	Browse Structure Search Insert Empty Drop	0	MyISAM	utf8_general_ci	4 K B	-
wprk_hsa_plugin	Browse Structure Search Insert Empty Drop	2	MyISAM	utf8_general_ci	2.2 K B	-
wprk_layerslider	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_layerslider_revisions	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	1.4 K B	-
wprk_links	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32 K B	-
wprk_litespeed_optimizer	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48 K B	-
Console wprk_options	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48 K B	-
Console wprk_optin_meta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_options	Browse Structure Search Insert Empty Drop	246	InnoDB	utf8mb4_unicode_ci	1.4 K B	-
wprk_postmeta	Browse Structure Search Insert Empty Drop	1,858	InnoDB	utf8mb4_unicode_ci	352 K B	-
wprk_posts	Browse Structure Search Insert Empty Drop	479	InnoDB	utf8mb4_unicode_ci	5.6 K B	-
wprk_revslider_css	Browse Structure Search Insert Empty Drop	109	InnoDB	utf8mb4_unicode_ci	128 K B	-
wprk_revslider_layer_animations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_revslider_navigations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_revslider_slides	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	64 K B	-
wprk_revslider_slides	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_unicode_ci	96 K B	-
wprk_revslider_static_slides	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_termmeta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_terms	Browse Structure Search Insert Empty Drop	14	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_term_relationships	Browse Structure Search Insert Empty Drop	87	InnoDB	utf8mb4_unicode_ci	32 K B	-
wprk_term_taxonomy	Browse Structure Search Insert Empty Drop	14	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_unitegallery_categories	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_unitegallery_galleries	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	16 K B	-
Console wprk_unitegallery_items	Browse Structure Search Insert Empty Drop	32	InnoDB	utf8mb4_unicode_ci	16 K B	-
wprk_usermeta	Browse Structure Search Insert Empty Drop	38	InnoDB	utf8mb4_unicode_ci	48 K B	-
wprk_users	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	64 K B	-
36 tables	Sum	2,230	InnoDB	utf8mb4_unicode_ci	9 K B	0 B

Figure 3.33: phpMyAdmin interface

Communications Interfaces

Hypertext transfer protocol or HTP is the way used to transfer or move the information or data on the internet. Its original purpose is to provide the process to publish HTML website pages through the internet.

Chapter 4

Results

As the end of the project, the website is responsive for all browsers and all devices. The website can be updated using these functionalities.

- People will be get updated information from the university website.
- Any new can be noticed from the university website.
- Any information can be updated easily
- Responsive to all types of browsers and electronic devices.

Fallacies:

- The layout cannot be changed using coding because it can own layout.
- If somehow any wrong script in PHP file some functionality can be automatically changed
- If anyone hacked the website, he can misuse the website information.

Chapter 5

Conclusion

The use of the website has many too positive impacts on education. People are now using the website to access the unlimited numbers of information and resources in the information technology.

Hope the project has provided with important information to people. The user-friendly website should be liked by everyone.

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2. <https://stmikes.utoronto.ca/wp-content/uploads/2016/10/USMC-Website-RFP-2016-1.pdf>
3. <https://web.stanford.edu/~eadolfo/cis-redesign/attachments/proposal-newsignature.pdf>

Appendix A

Software Requirements

- cPanel(Control Panel)
- Wordpress Premium Theme
- Wordpress Premium Addons Plugin
- Web Browsers
- Adobe Photoshop