

AUST-Website: A Web Application

A project Report

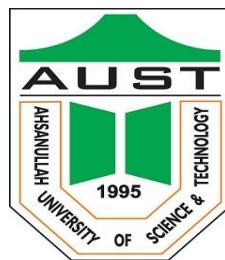
Submitted in partial fulfilment of the requirements for the degree of
Bachelor of Science in Computer Science and Engineering

Submitted by

KumKum Chowdhury	14.02.04.002
Syed Sajid Mahboob	14.02.04.010
Siraj Uz Salehin	14.02.04.019
Ashraful Zaman Eashan	13.02.04.098

Supervised by

Mohammad Moinul Hoque
Associate Professor
Department of Computer Science and Engineering



AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY
DHAKA, BANGLADESH
DECEMBER 2018

DECLARATION

We, hereby, declare that, the work presented in this report is the outcome of the investigation performed by us under the supervision of Md. Moinul Hoque, Department of Computer Science and Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh. The work was spread over two final year courses, CSE4100: Project & Thesis I and CSE4250: Project & Thesis II, in accordance with course curriculum of the Department for the Bachelor of Science in Computer Science and Engineering program.

.....
Kumkum Chowdhury

.....
Syed Sajid Mahboob

.....
Siraj Uz Salehin

.....
Ashraful Zaman Eashan

Countersigned by

.....
Md. Moinul Hoque
Associate Professor
Department of Computer Science and Engineering
Ahsanullah University of Science and Technology

ACKNOWLEDGEMENTS

During the completion of this project work, we have been fortunate to have help, support and encouragement from many people. We would like to acknowledge them for their cooperation.

We would like to thank Md. Moinul Hoque, our project advisor, for guiding us through each and every step of the process with knowledge and support. Thank you for your advice, guidance and assistance.

Finally, we take the opportunity to thank Ahsanullah University of Science and Technology for providing us with such a graceful opportunity to become a part of this institute. It has been a privilege for us to pursue the Degree of Bachelor of Science in Computer Science and Engineering here.

Kumkum Chowdhury (14.02.04.002)

Syed Sajid Mahboob (14.02.04.010)

Siraj Uz Salehin (14.02.04.019)

Ashraful Zaman Eashan (13.02.04.098)

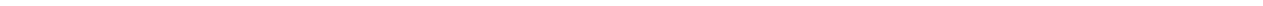


TABLE OF CONTENTS

DECLARATION

ACKNOWLEDGE

TABLE OF CONTENTS

ABSTRACT

LIST OF FIGURES

Chapter 1: Introduction	1
1.1 Introduction	2
1.2 Objectives	2
1.3 Motivation	3
1.4 Purpose	3
1.5 Features	3
1.5.1 Announcement	3
1.5.2 Advanced Filtering	4
1.5.3 Data Collaboration	4
1.5.4 Dynamic Content	4
1.5.5 Dynamic Template	4
1.5.6 Responsive Mobile UI	4
1.6 Action Plan	4
1.7 Existing System's Lacking	5
Chapter 2: Related Works and Tools	7
2.1 Existing System	8
2.2 Background Studies	9
2.2.1 North South University	9
2.2.2 Brac University	9
2.2.3 Oxford University	10
2.2.4 Stanford University	11
2.3 Used Technologies and Tools	11
2.2.1 HTML	11
2.2.2 CSS	12
2.2.3 SASS	12
2.2.4 Bootstrap	13
2.2.5 JavaScript	13
2.2.6 Laravel	14
2.2.7 MySQL	15

2.2.8 Atom	15
2.2.9 Sketch	16
2.3 Initial Design of Our Home made with Sketch	17
Chapter 3: Requirement Analysis	18
3.1 Introduction	19
3.2 System Study	19
3.2.1 Definition of System	19
3.2.2 Requirement of the System	19
3.2.3 System Analysis	19
3.3 Feasibility Analysis	20
3.3.1 Technical Feasibility	20
3.3.2 Service Feasibility	21
3.3.3 Economical Feasibility	21
3.3.4 Functional Requirements	21
3.3.5 Non Functional Requirements	22
3.4 System Planning	22
3.4.1 Preliminary Investigation	23
3.4.2 Information Gathering	23
3.4.3 Structured Analysis	23
Chapter 4: Project Design	24
4.1 Relational Model Diagram	25
4.2 Diagram	26
Chapter 5: Operational Activity of the Project	28
5.1 Home: Menu Section	29
5.2 Home: Upcoming Events and Announcement	31
5.3 Home: Achievements	34
5.4 Home: Message from Authority	35
5.5 Home: Footer	36
5.6 Faculty Members	36
5.7 Faculty Member Extended	37
5.8 Department	38
5.9 Department: Menu Section	38
5.10 Department: Event Section	40
5.11 Department: Message Section	40
5.12 About Department	42

5.13 About Library	44
5.14 Administration	45
5.15 Event List	46
5.16 Event	47
5.17 Announcement List	50
5.18 Announcement	53
5.19 Convocation	57
5.20 Alumni	59
5.21 Admin dashboard login	61
5.22 Admin page	61
5.23 Admin dashboard achievement	62
5.24 Admin dashboard life at aust	62
5.25 Admin dashboard add department	63
5.26 Admin dashboard add faculty	64
5.27 Admin dashboard add document files	66
5.28 Life at aust	66
Chapter 6: Discussion and Conclusion	67
6.1 Challenges	68
6.2 Limitations	68
6.3 Future Plan	68
APPENDIX A	70
APPENDIX B	81
BIBLIOGRAPHY	104

Abstract

A Web application is a software program that resides on a remote location and is delivered to the user of the software over the Internet through a web-browser application interface. A person sitting on his chair in front of a computer can access all the facilities of the application over Internet and also modify the content of any particular site remotely. Unlike traditional query that is carried out physically with effort of a person to go & get information, web application has made it easier for users to reduce physical work and to save time.

In this project work, we have developed a web application for Ahsanullah University of Science & Technology. The application primarily serves the purpose of the website of the institution. Moreover, the content management system for the site has been made dynamic so that, modification of date can be performed without changing any code of the application. During the development process, we have gone through a comprehensive requirement analysis and collected information according to our institutional requirements. We also pointed out various weaknesses of the existing web-platform of the institution. By visiting different & well known university websites around the world through, we have been updated about the state-of-the-art and implanted those recent and secured technologies in our system. The project has been successfully implemented with Laravel framework with front-end interface and backend content management panel.

LIST OF FIGURES

2.1: Existing Website of AUST -----	8
2.2: HTML5 -----	12
2.3: CSS3 -----	12
2.4: SASS -----	13
2.5: Responsive Web with Bootstrap -----	13
2.6: JavaScript -----	14
2.7: Laravel -----	15
2.8: MySQL -----	15
2.9: ATOM EDITOR -----	16
2.10: SKETCH APPLICATION -----	16
2.11: Initial Home Page Design with Sketch -----	17
4.1: Relational Model Diagram -----	26
4.2: Relational Model Diagram Extend -----	27
5.1: Menu Section -----	29
5.2: Sub Menu Section I -----	30
5.3: Sub Menu Section II -----	30
5.4: Upcoming events -----	31
5.5: Announcements -----	32
5.6: Achievements (Mobile Tab View Mode) -----	34
5.7: Message from authority (Web View Mode) -----	35
5.8: Footer Section (Mobile Tab View) -----	36
5.9: Faculty Member Page -----	36
5.10: Faculty Member Extended -----	37
5.11: Department Page -----	38
5.12: Department Page (Sub Menu) -----	39
5.13: Event Section -----	40

5.14: Department Head Message -----	40
5.15: DEPT about Section -----	42
5.16: Library -----	44
5.17: Administration section (list of vice chancellors) -----	45
5.18: Event Page -----	46
5.19: Event Details (Hult Prize at Aust) -----	47
5.20: Event Details (Imagine cup 2019) -----	48
5.21: Announcement list Page (all) -----	50
5.22: Announcement list Page (Filter Options) -----	51
5.23: Announcement List Page (filtered: order by date) -----	52
5.24: Announcement HTML page (Syndicate meeting of Aust) -----	53
5.25: Announcement image page (Notice for M.Sc. Eng.) -----	54
5.26: Announcement PDF page (Revised schedule of Carry/Clearance) -----	55
5.27: Convocation Page (10 th Convocation) -----	57
5.28: Alumni List -----	59
5.29: Alumni List (Filtered with “electrical”) -----	60
5.30: Admin dashboard login -----	61
5.31: Admin page -----	61
5.32: Admin dashboard achievement -----	62
5.33: Admin dashboard add story section -----	62
5.34: Admin dashboard add department section -----	63
5.35: Admin dashboard add faculty section -----	64
5.36 Admin dashboard add faculty section extended -----	65
5.37 Admin dashboard add document files -----	66
5.38 Life at aust -----	66

CHAPTER ONE

INTRODUCTION

1.1 Introduction

Web programming, also known as web development, is the creation of dynamic web applications. Examples of web applications are social networking sites like Facebook or e-commerce sites like Amazon. The good news is that learning web development is not that hard!

In fact, many argue it's the best form of coding for beginners to learn. It's easy to set up, you get instant results and there's plenty of online training available.

A lot of people learn web coding because they want to create the next Facebook or find a job in the industry. But it's also a good choice if you just want a general introduction to coding, since it's super easy to get started. No matter whether you're looking for a career or just want to learn coding, learning how to develop for the web is for you. It's one of the smartest decisions you will ever make!

We decided to develop a university web application because a well-developed university website is very comfortable for a user. A well-developed university website has many qualities. Some of them are detail content, easy to understand contents, garish look and easy to navigate pages. Then we chose our university website as our current university website has many lacking and unable to keep going with the trend. We implanted the requirements of [aust.edu](#) [16] in our web application. There are several features absent in our current website and our main focus is to cover all the possible features that are very much needed in these days and very much important for any university website.

1.2 Objectives

- Our main objective of this project is to make a dynamic templet based web application for AUST.
- Where we will make sure in every possible section is dynamic content based, also well-structured data collaboration and advanced filtering.
- We will use the best tools and technologies to make it as the state of the art.
- Where our goal will be to make the user interface and user experience the best in every possible way by using the latest frameworks and technologies.

- The current website of AUST, too much backdated, not well secured, there is no use of any frameworks, nothing at all. So, our plan is to develop the whole website in a new way and take it to a whole new level.

1.3 Motivation

- As we are making the web application for AUST. So, it will help to find out the real problem and solutions. We have vast users to test them out what, we are making good quality of product or not.
- From start to end of this project, we have learnt all the front and backend frameworks and technologies. So, it's a great opportunity for us to learn them and implement them as well.
- To develop the complete web-application we have to know the core of concept of every single section. Most importantly, what we are using in this project, is up to date technologies. Which has a great demand in market place, so if we can utilize the best of this, then we will have a strong portfolio for our future.
- Our main motivation is to make the web application state of the art. But, there is a big problem with our existing website, everything is backdated and this is not what it should be like today. So, we will take it in a different new look.

1.4 Purpose

We are going to make a web application for our university. Our existing web site has security issues & also backdated. For that, we want to make this web application. This web application is not just for our university. Any university can use this web application. That's the reason behind the web application.

1.5 Features

1.5.1 Announcement

- There will be updated news of academic & administration section by date wise.

1.5.2 Advanced Filtering

- In News feed section, it can be shown by advanced filtering. Advanced Filtering is like, a user can filter the news section by a drop down menu. In drop down menu, there will be academic section, student section, event section, administration section etc.

1.5.3 Data Collaboration

- In the Web application, there will be the option to pull the data from IUMS using restful API so that it doesn't have to generate manual data for student, teacher & other core information.

1.5.4 Dynamic Content

- All data which will be handled in our web application will be dynamic content. Admin doesn't have to think about backend code section to change any information in the web site. There will be an admin panel page where an admin can easily input information like editing information. He doesn't need to access backend database section.

1.5.5 Dynamic Template

- In our web application there are a good number of templates of the same web site so that admin can change view of the web site. Admin can also edit the templates dynamically like change the color, font styles etc.

1.5.6 Responsive Mobile UI

- Our web application will be fit into mobile & also tab view.

1.6 Action plan

- **Information Gathering**

At the very first stage, we had collected information about our current website and other universities websites. Then we compared between them and make a list of pros and cons among them. Then we make a plan to implement our work and strategies that we had wanted.

- **Efficient Database Create**

The design of the database has to be efficient to get the maximum functionalities by using minimum number of database tables.

- **Layout Design**
We have to make an eye-catching front end view that is compatible in this modern time
- **Coding**
In this step, we have to code and implement that we have planned in the above stages.
We have to implement this in an efficient way.
- **Testing**
In this step, we have to code and implement that we have planned in the above stages.
We have to implement this in an efficient way.
- **Deployment**
After completing all the above stages we will deploy or project on the live server or on the localhost.

1.7 Existing System's lacking

- **Design alignments**
In some of the sections of our current website, the design is not structured properly. This is the reason for what it does not seem friendly and perfect to any user.
- **Security issues**
As we know that our current website is made of using very simple technologies that are easily hackable just injecting any some tag words. The current system is unable to give security to important data that is confidential to others.
- **Inappropriate for any device GUI**
If we have a look at our current system using any small devices like mobile, notepad or other devices except desktop the system doesn't manage the display ratio and doesn't make the outlook according to that particular device.
- **Unorganized news and events**
All kinds of news and events are gathered in a single page which is very much backdated. When a user gets into any department page he or she is not able to see any corresponding news or events.
- **Unorganized faculty corner**
Details of the faculty members are not well organized here.

- **Unorganized alumni corner**

Details of the alumni are not well organized here. The current position of the alumni is unknown to the appeared students

- **Down of servers while developing or changing somethings**

In our current system when we have to make any changes or to update any file or information, we have to shut down the server for a certain time and after completing the process again we must restart the server which is not compatible to this modern time. If in the meantime any user browse the varsity website, he or she will not be able to visit that site.

CHAPTER TWO

Related Works and Tools

Chapter 2: Related Works and Tools

2.1 Existing System

The existing website of Ahsanullah University Science & Technology [16], is way too poor than any other well-known university of our country. That was developed more than a decade ago. Which failed to meet the current demand. As it was developed a decade ago, it has lot of lacking and backdated technologies that failed to ensure the sufficient security. Our current AUST website was developed in raw PHP, HTML and CSS. If we compare, our existing website to all related technologies, it not a product to fill the demand of user. Even though our website is not at all dynamic, the website content is static, which is another example of how much backdated our website is.



Figure 2.1: Existing Website of AUST

2.2 Background studies (Used Technologies)

We have visited a number of similar web-application sites to get a clear understanding of recent technologies that may come handy in our project development. Using this [wappalyzer](#)[15] website we found the technologies used by the following universities.

2.2.1 North South University: (<http://www.northsouth.edu/>)[1]

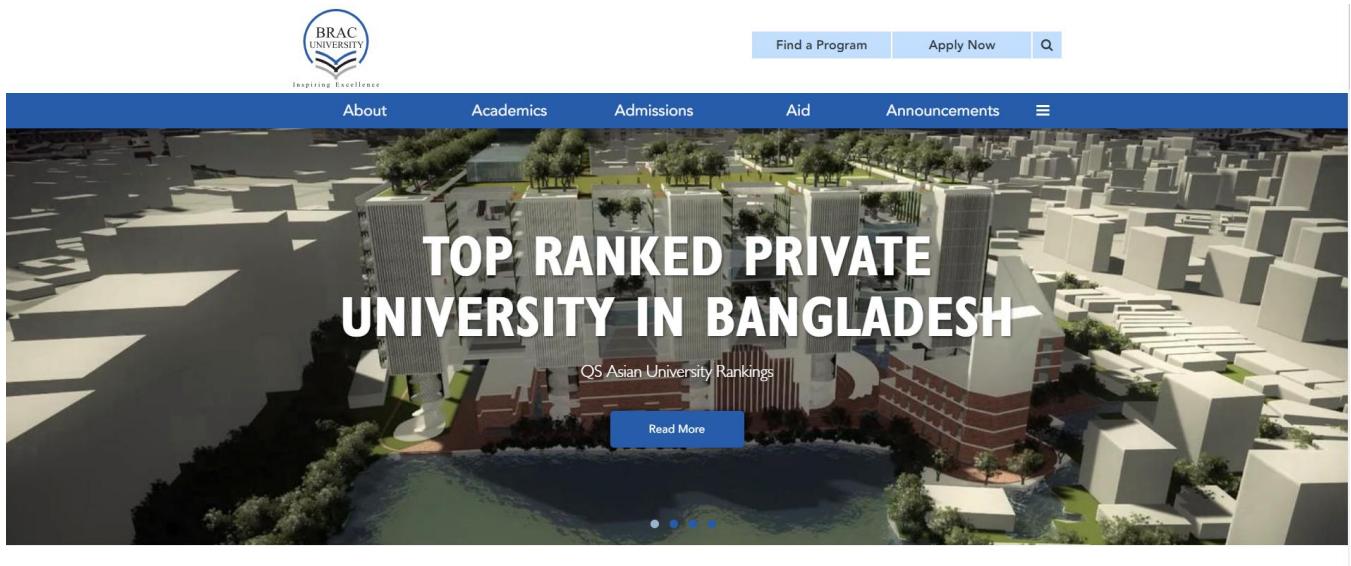
- OWL Carousel
- MODX
- Jquery
- Modernizr
- PHP
- Bootstrap
- Animate.css
- Fancy Box
- Font Awesome

The screenshot shows the homepage of North South University. At the top, there's a yellow banner with the university's name and logo. Below it is a dark blue header bar with navigation links: Academic Calendar, Newsletters, Journals, Catalog, Library, Email, Archive, Contact Us, About, Academic, Faculty, Admission, NSU Online, Alumni, Research, and Useful Links. A sub-header "Center of Excellence in Higher Education" is visible. The main content area features a large image of four men in suits, one holding a trophy. Below this are sections for News & Events, NSU Brief History, Undergraduate Study, Graduate Study, and Research. Logos for ACBSP, AACSB, and EQUIS are displayed. On the right side, there's a "Notice" sidebar with links to various documents and a "Upcoming Events" sidebar listing lectures on drug abuse, terrorism, and military law. The footer contains contact information, social media icons, and a copyright notice.

2.2.2 Brac University (<https://www.bracu.ac.bd/>)[2]

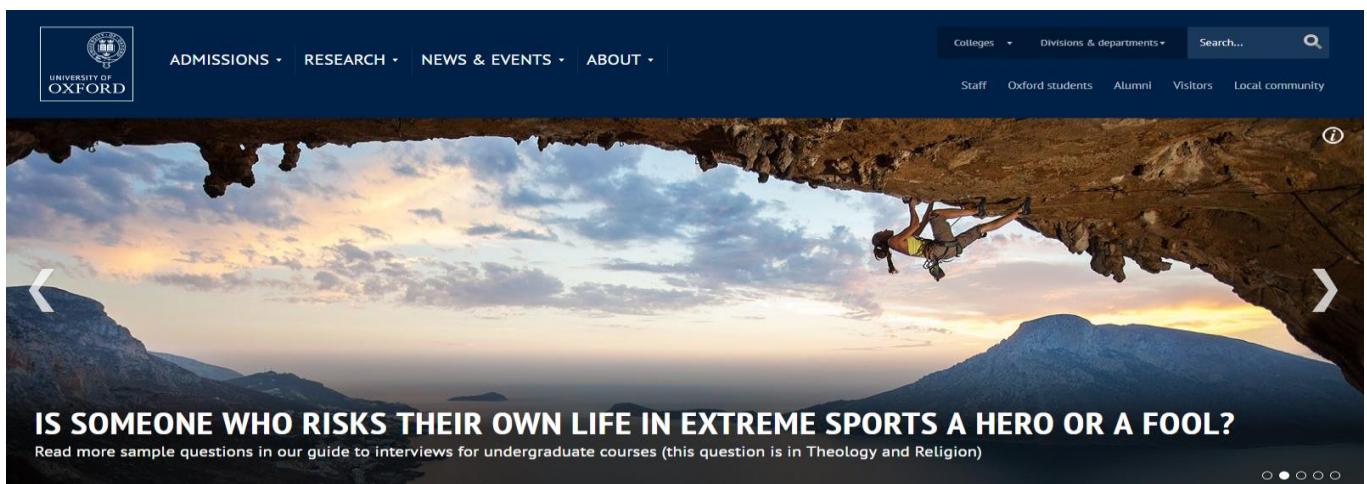
- Drupal
- Zurb Foundation
- PHP
- CentOS

- ShareThis
- Apache
- YouTube



2.2.3 Oxford University (<http://www.ox.ac.uk/>)[3]

- Drupal
- Google Tag manager
- PHP
- Google Font API
- Varnish
- Apache
- YouTube



2.2.4 Stanford University (<https://www.stanford.edu/>)[4]

- Nginx
- WordPress
- PHP
- Google Analytics
- Amazon Cloud front
- Modernizr
- JQuery
- Google Font API



2.3 Used Technologies and Tools in Our Project

2.3.1 HTML

Hypertext Markup Language (HTML)[5] is the standard markup language for creating web pages and web applications with Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally includes cues for the appearance of the documents.



Figure 2.2: HTML5

2.3.2 CSS

Cascading Style Sheet (CSS)[6] is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, and enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.



Figure 2.3: CSS3

2.3.3 SASS

Sass (Syntactically awesome style sheets)[7] is a style sheet language initially designed by Hampton Catlin and developed by Natalie Weizenbaum. After its initial versions, Weizenbaum and Chris Eppstein have continued to extend Sass with SassScript, a simple scripting language used in Sass files. Sass is a preprocessor scripting language that is interpreted or compiled into CSS. SassScript is a scripting language itself. Sass allows variables to be defined. Sass supports four datatypes: Number, Strings, Colors, and Booleans.



Figure 2.4: SASS

2.3.4 Bootstrap

Bootstrap[8] is a free and open-source front end library for designing websites and web applications. It contains HTML and CSS based design template for typography, form, button, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only. Bootstrap is the second most-starred project on GitHub, with more than 123,000 stars.



Figure 2.5: Responsive Web with Bootstrap

2.3.5 JavaScript

JavaScript[9] often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web. JavaScript enables interactive web pages and thus is an essential part of web applications. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative (including object-oriented and prototype-based) programming styles. It has an API for working with text, arrays, dates, regular expressions, and basic manipulation of the DOM, but the

language itself does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.



Figure 2.6: JavaScript

2.3.6 Laravel

Laravel[10] is a web application framework with expressive, elegant syntax. We believe development must be an enjoyable, creative experience to be truly fulfilling. Laravel attempts to take the pain out of development by easing common tasks used in the majority of web projects, such as authentication, routing, sessions, and caching.

Laravel aims to make the development process a pleasing one for the developer without sacrificing application functionality. Happy developers make the best code. To this end, we've attempted to combine the very best of what we have seen in other web frameworks, including frameworks implemented in other languages, such as Ruby on Rails, ASP.NET MVC, and Sinatra.

Laravel is accessible, yet powerful, providing powerful tools needed for large, robust applications. A superb inversion of control container, expressive migration system, and tightly integrated unit testing support give you the tools you need to build any application with which you are tasked.



Figure 2.7: Laravel

2.3.7 MySQL

MySQL[11] is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.



Figure 2.8: MySQL

2.3.8 ATOM

Atom[12] is a free and open-source text and source code editor for macOS, Linux, and Microsoft Windows with support for plug-ins written in Node.js, and embedded Git Control, developed by GitHub. Atom is a desktop application built using web technologies. Most of the extending packages have free software licenses and are community-built and maintained. Atom is based on Electron (formerly known as Atom Shell), a framework that enables cross-platform desktop applications using Chromium and Node.js. It is written in CoffeeScript and Less. It can also be

used as an integrated development environment (IDE). Atom was released from beta, as version 1.0, on 25 June 2015. Its developers call it a "hackable text editor for the 21st Century".



Figure 2.9: ATOM EDITOR

2.3.9 SKETCH

Sketch[13] is a proprietary vector graphics editor for Apple's macOS, developed by the Dutch company Bohemian Coding. It won an Apple Design Award in 2012. Sketch was first released on 7 September 2010.



Figure 2.10: SKETCH APPLICATION

2.4 Initial Design of our Homepage made with Sketch

The image shows the initial design of a homepage created using Sketch. The header features the university's name "AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY" and social media links for Facebook, LinkedIn, and YouTube. The navigation menu includes links for HOME, ACADEMICS, ADMISSIONS, ADMINISTRATIONS, NEWS & EVENTS, FACULTIES, ABOUT, and LIFE @AUST. Below the menu is a large photograph of a modern, multi-story building complex with colorful facades. The main content area is divided into two sections: "News & Events" and "Announcement". The "News & Events" section contains three cards, each showing a person working at a computer and the text "Hacathon Biggest hacathon ever in AUST Feb 12, 2018". The "Announcement" section contains a list of 12 items, each with the date "25 Mar 2018" and the text "2nd waiting list for different quota, Spring 2018 Semester". A "View More" button is located at the bottom right of the announcement section.

Date	Content
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester
25 Mar 2018	2nd waiting list for different quota, Spring 2018 Semester

Figure 2.11: Initial Home Page Design with Sketch

CHAPTER THREE

REQUIREMENT ANALYSIS

3. Requirement Analysis

3.1 Introduction

Analysis is the focus of system developing and is the stage when system designers have to work at two levels of regarding the study of situational issues and possible solutions in terms of “what to do” and “how to do”.

3.2 System Study

3.2.1 Definition of the System

A system is an orderly grouping of independent components linked together according to a plan to achieve a specific objective. Its main characteristics are organization, interaction, independent, integration and central objective a system does not necessarily mean to a computer system. It may be a manual system or any other names.

3.2.2 Requirement of the System

A University web application can mean far different than a University web site. A web site user expect a fully featured web site that delivers a detail experience to a user. There are some requirements that have to be met any solution that offers to deliver university web application functionalities. Here is a list of system requirements that will set the web application for success:

- **Security:** The database system has to be secure to prevent unauthorized access, theft and/or disruption to data and services held and offered by the system.
- **Scalability:** The system will begin offering small number of dynamic contents to admin but must be capable of being upgraded to large number of dynamic contents and process more back-end operation.
- **Robustness:** The system should be able to operate and handle various type of data needed to function properly.
- **Extensibility:** The system should be able to increase the number of services without disrupting the rest of the services offered.
- **Integrity of information:** The data contained in the database system must be preserved against malicious or unintentional attacks. Data held must not be redundant.
- **Flexibility:** The system should be able to adopt to the ever-changing requirements of a dynamic environment.

3.2.3 System Analysis

The Merriam-Webster dictionary defines system analysis as “the process of studying a procedure or business in order to identify its goal and purposes and create systems and procedures that will achieve them in an efficient way”. Another way sees system analysis as problem solving technique that breaks down a system into its component pieces for the purpose of the studying how well those component parts work and interact to accomplish their purpose.

3.3 Feasibility Analysis

The goal of feasibility study is to place emphasis on potential problems that could occur if a project is pursued and determine if, after all significant factors are considered, the project should be pursued. A feasibility study helps identify logistical problems and nearly all business-related problem, along with solutions to alleviate them. Three types are-

- Technical Feasibility
- Service Feasibility
- Economical Feasibility

3.3.1 Technical Feasibility

Technical feasibility is the complete study to project in terms of input, processes, output, fields, programs and procedures. It is a very effective tool for long term planning and trouble shooting. The technical feasibility study should most essentially support the financial information of an organization. This is concerned with specifying the necessary data and the software to satisfy the user requirements. The technical needs of the system vary considerably but might include

- The facility to produce outputs in a given time.
- Response time under conditions.
- It compasses the technical needs of the system.
- Configuration of the system is given a huge importance than the actual make of hardware while examining technical feasibility.

Used Technologies in Our Application:

Front End:

- HTML5
- CSS3
- Bootstrap4

Back End:

- PHP(Laravel Framework)

Database:

- MySQL

This technologies are now so secured & compatible with any modern devices. Any type of users like mobile or tab or computer can feel the smooth & experience responsive UI. We used PHP framework for security & responsive purpose so that users of this web application don't have face any kind of issues. All well-known & enriched technology are going to be used in our web application so that our web application can go so far without any hustle & security issues.

3.3.2 Service Feasibility

Our previous web site is not so comfortable to the users .It has security & some backward issues. It doesn't have the mobile or tab view for that reason a mobile user have to face some peculiar issues like zoom in or zoom out.

So the University web application has the demand before the users, so it has the service feasibility.

3.3.3 Economical Feasibility

Economical feasibility determines whether there are sufficient benefits in creating to make the cost acceptable, or the cost of the system too high. As this signifies cost-benefit analysis and savings. On the behalf of the cost-benefit analysis, the proposed system is feasible and is economical regarding its pre-assumed cost for making a system. We classified the cost of University web application according to the phase in which they occur. As we know that system development costs are usually one-time costs that will not reoccur after the project has been completed. For calculating the development costs we evaluated are-

- Cost of time

The technologies which we used & going to be used are free resources. We don't have to buy this material to build this web application. We don't have to hire extra employees to work this out .So we can say that our web application is economically feasible.

3.3.4 Functional Requirements

Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system and the explanation of each subsystem. If consists of what task the system should perform, the process involved, which data should be system holds and the interfaces with user. The requirements identified are:

- **Sticky Home Menu:** The web application should help the user to move back from any page or go forward to any page.
- **Dashboard:** This web application should be handled by admin through a dashboard. Admin can change web template, color & data which is accessible to him.
- **Dynamic Content:** In this web application all kind of data should be dynamic .Any time any data can be changed by the admin through dashboard.
- **Filtering Announcement:** Announcements fields should be filtered by date, department & administration wise.

3.3.5 Non-Functional Requirements

It describes aspects of the system that are concerned with how the system provides the functional requirements .They are:

- **Security:** The subsystem should be provide a high level of security and integrity of the data held by the system, only authorized personnel of the University can gain access to the University's secured page in the web application .
- **Performance:** The web application should have high performance rate when user interacts with the web page.
- **Error Handling:** Error must be free from the web application. If something occurs, there must be a recover state that will recover the whole thing easily & within a short time.
- **Organized Data:** The web application should have organized data to deal with admin & the users. Organized data is also enough data for the users & admin to interact with the web application.
- **Efficient Database:** The web application should have an efficient database. Because there will be handled a lots of records. Efficient database will fetch the data quickly and feed the query easily.
- **Ease of Use:** Considered the level of knowledge possessed by the users of this application, a simple but quality interface should be developed to make it easy to understand.

3.4 System Planning

System planning has two major outputs embody its contributions. These are proposals and design concepts. The proposal is addressed to decision makers. One of its main ingredients consists of a statement of the objectives of the system. There are many problems and pitfalls associated with system planning which should be kept in mind in system planning. Consideration of these helps to make the plans more realistic, more likely to accepted and less likely to bog down in the implementation stages. The development of an adequate science of planning should carry high priority among systems people, as such a science will help to provide effective analytical and communication tools for system planning.

3.4.1 Preliminary Investigation

The initial investigations has the objective of determining the validity of the user's request for a candidate system and weather a feasibility study should be conducted. The objectives of the problem posed by the users must be understood within the framework of the organization's MIS plan. We had investigated from the connected authority about the project.

3.4.2 Information Gathering

A main part of feasibility analysis is gathering information about the present system. The analyst must know what information to gather, where to find it and what to make of it. The proper use of tools for gathering information is the key to successful analysis. The tools are the traditional interview, questionnaires and on-site observation. We analyzed other websites before starting to make this project. We tried our best to implement different features and look more attractive than the old one.

3.4.3 Structured Analysis

The traditional tools of data gathering have limitations. An English narrative description is often vague and difficult for the user to grasp. System flowcharts focus more on physical than on logical implementation of the candidate system, Because of these drawbacks, structured tools were introduced for analysis is a set of techniques and graphical tools (DFD) that allow the analyst to develop a new kind of system specifications that are easily understandable to the user.

CHAPTER FOUR

PROJECT DESIGN

4. Project Design

4.1 Relational Model Diagram:

The relational model for database management is an approach to managing data using a structure and language consistent with first-order predicate logic. A database organized in terms of the relational model is a relational database.

The purpose of the relational model is to provide a declarative method for specifying data and queries: users directly state what information the database contains and what information they want from it, and let the database management system software take care of describing data structures for storing the data and retrieval procedures for answering queries.

The relational model's central idea is to describe a database as a collection of predicates over a finite set of predicate variables, describing constraints on the possible values and combinations of values. The content of the database at any given time is a finite (logical) model of the database, i.e. a set of relations, one per predicate variable, such that all predicates are satisfied.

In our following relational diagram [fig: 4.1, 4.2], the models are constructed in such a way so that we can meet our web application requirements. In our web application all the menus and the sub menus are shown from HomeMenu and SunMenu model. Announcements on home page & announcement list on Announcement page data are shown from announcement model. There is a relationship between department model and announcement model as the announcements are categorized by department id. In the following relational diagram, department model is also connected with employee, department head, lab and course models. As all the staff in general is an employee so we made a base employee model and split them by their category like AdminCategory model. And rest of the models handled the other stuff according to their work like achievements handled by achievement model.

4.2 Relation Diagrams

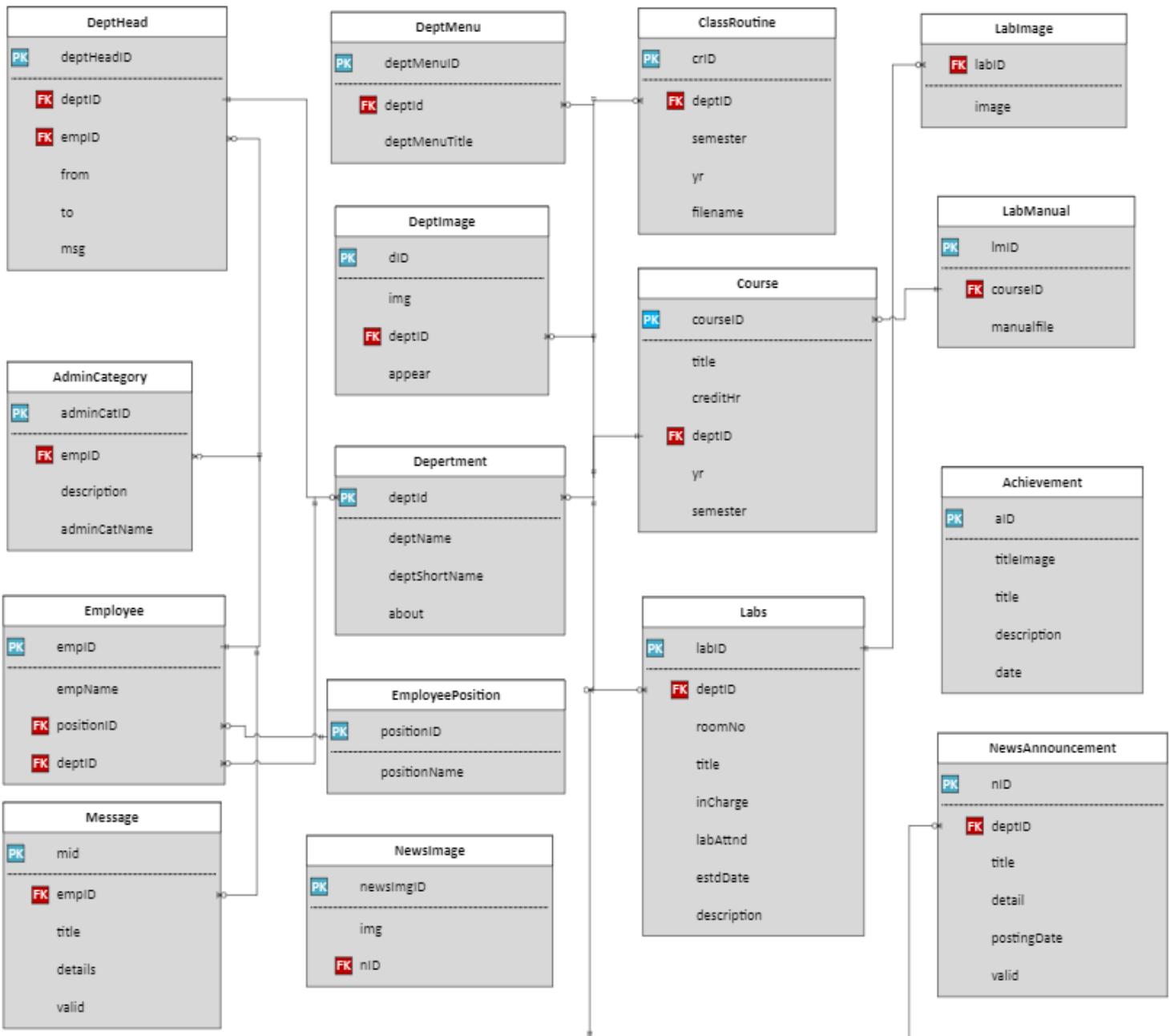


Figure 4.1: Relational Model Diagram (Microsoft Visio [14])

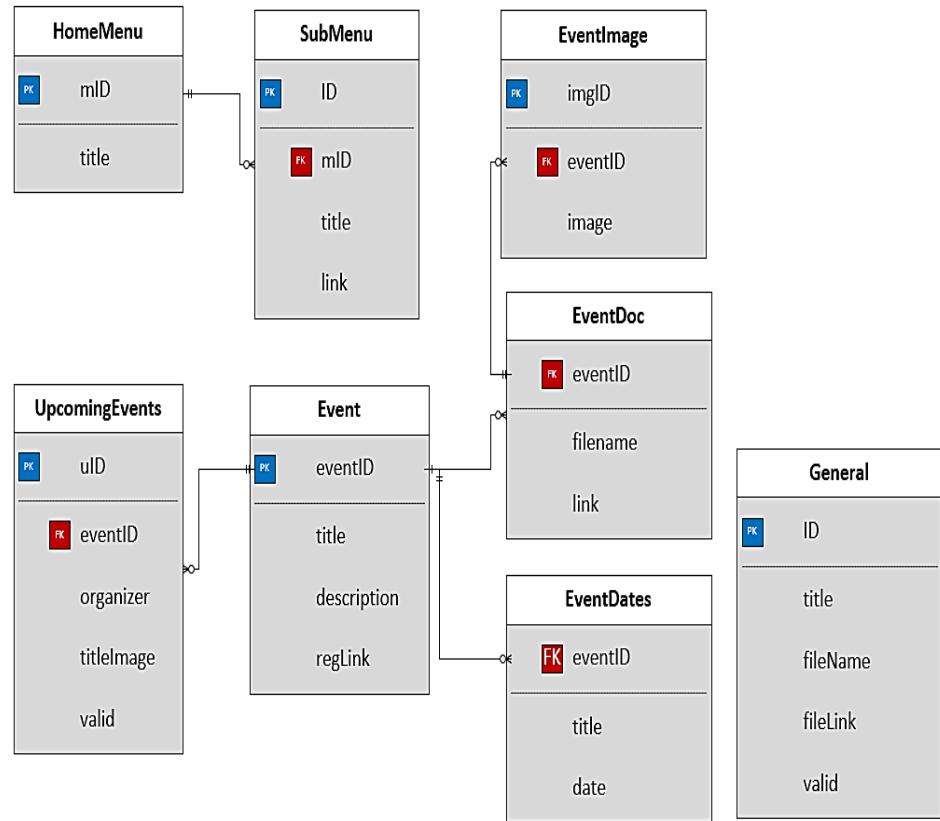


Figure 4.2: Relational Model Diagram Extend

CHAPTER FIVE

OPERATIONAL ACTIVITY OF THE PROJECT

5: Operational Activity of the Project

5.1 HOME: MENU SECTION

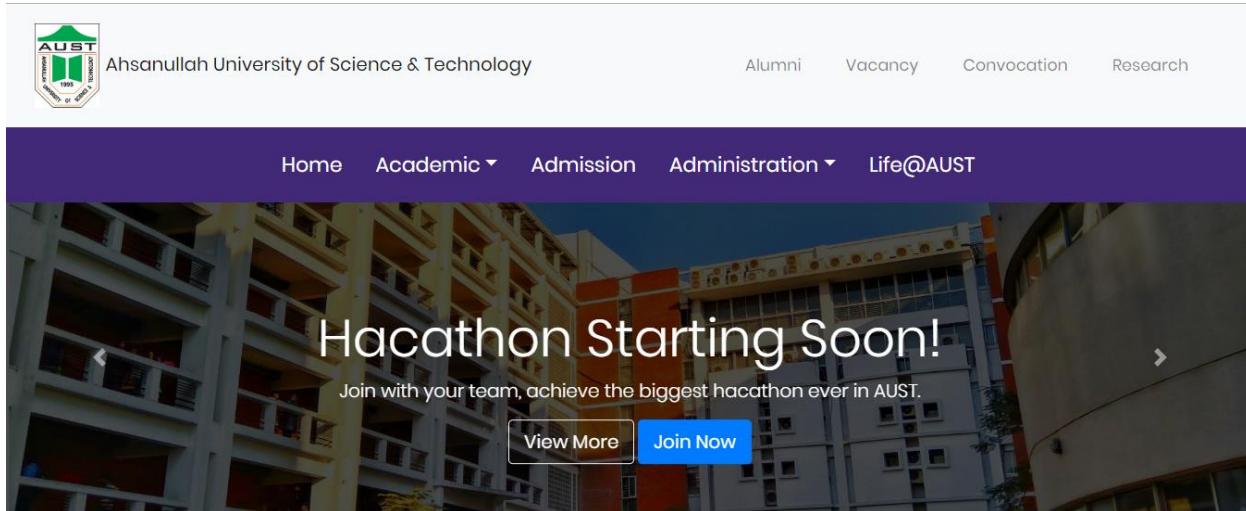


Figure 5.1: Menu Section

This is the menu section of our homepage, there will be a sticky top navbar, at the top of the homepage section. Under the navbar there will be a main menu section, where we can explore all over the web application through the menu buttons and dropdowns. After that, a slider image will appear with latest or important news title with a short description of it. There will be two more button to view more details about the information.

Navbar Items:

- AUST Logo
- Alumni
- Vacancy
- Convocation

Menu Items:

- Home
- Academic
- Admission
- Admin
- Life@AUST

Slider Image:

- Background News Image
- News Title
- News Description

- View More Button

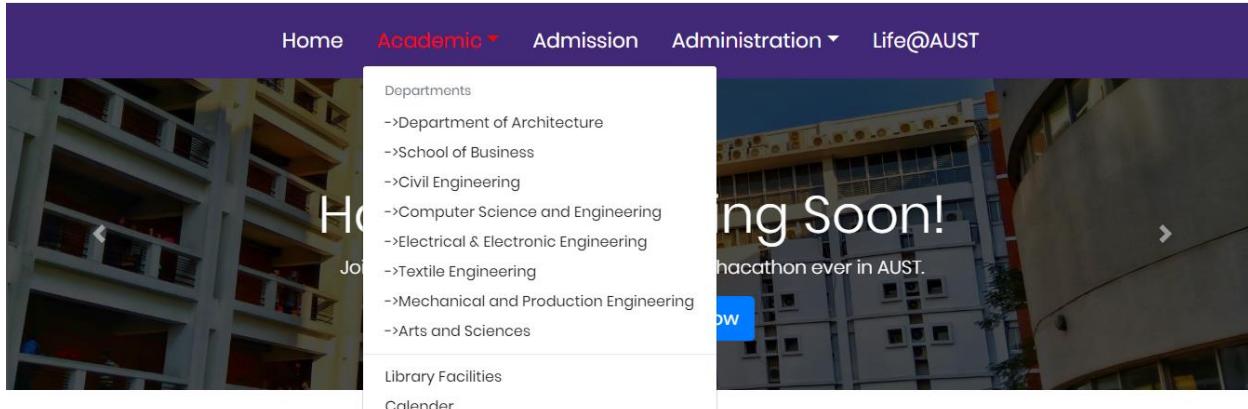


Figure 5.2: Sub Menu Section I

When we keep our mouse on any of the option then it will automatically dropped down with its sub men options that will redirect a user to the corresponding page.

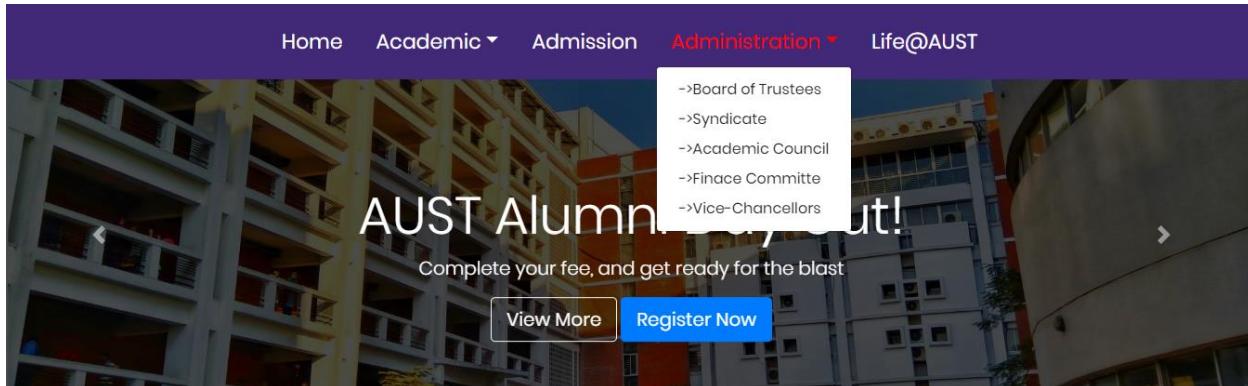


Figure 5.3: Sub Menu Section II

Again when we keep our mouse on the administration menu option it will drop down its sub menu that will redirect a user to the corresponding administrative pages.

Tables in Menu Section:

Table: Menu

Attribute	Type
mID (PK)	int
title	varchar

Table: SubMenu

Attribute	Type
smID (PK)	int
mID (FK)	int
smTitle	varchar
pageLink	varchar

From menu table we will get the first menu option that will show on the home page at first. Then we will get some more options inside some menu tabs that will come from this submenu table. This submenu options then will redirect a user to another page.

5.2 HOME: UPCOMING EVENTS AND ANNOUNCEMENT



Figure 5.4: Upcoming events

This is the upcoming and announcement section under the menu section. In upcoming events there will be, an upcoming event image with corresponding upcoming event title, event date and organizer name. Where user can skip or control the upcoming image using slider, even it will automatically slide after a certain time. User can see all the global upcoming events by clicking Upcoming Event Link. Besides upcoming event Announcement will take place, where user can scroll all the announcement list. And also can see corresponding date and announcement titles.

Upcoming Event Items:

- Upcoming Event Link
- Background Slider Image
- Event Title
- Event Short Description
- Organizer

ANNOUNCEMENT

2018-11-06	Farewell Ceremony of Fall-2017 held at AUST
2018-11-06	Seminar on opportunities for graduate studies at Drexel University held at AUST
2018-11-06	Notification for services interrupt due to up-gradation of core network systems
2018-11-05	ঈদ আজ্জা, the Celebration of Eid-Ul-Fitr (2018) in The Department of Civil Engineering
2018-11-05	6th waiting list for different departments (General)
2018-11-04	Notice for the M. Sc. Engg. and M. Engg. students of the Department of Civil Engineering
2018-10-27	List of selected Candidates for Master's Program of EEE Department

Figure 5.5: Announcements

Here is the news and announcement section where we can see all types of news and announcements. On the home page we will see all the news with its posted date which is ordered by descending according to its post date. After clicking any of the news it will take a user to the corresponding news details information page where a user will be able to see all the details about that particular news.

Announcement Items:

- Announcement Link
- Announcement Date
- Announcement Title

Table: upcoming_events

Attribute	Type
uvID (PK)	int
eventId (FK)	int
event_title	varchar
titleImage	blob
eventDate	date
organizer	varchar
validity	varchar

Table: announcements

Attribute	Type
id (PK)	int
deptId(FK)	varchar
newsTitle	varchar
postDate	date
newsPDF	varchar
newsImg	varchar
description	varchar
validity	varchar
pageLink	varcahr

From the upcoming_event table we will get all the information about any event that will happen in future or that has already happened. All the events are serialized according to its date.

On the other hand from the announcement table we will get all kinds of news and announcement with its published date, which department it belongs, necessary information and due dates.

5.3 HOME: ACHIEVEMENTS

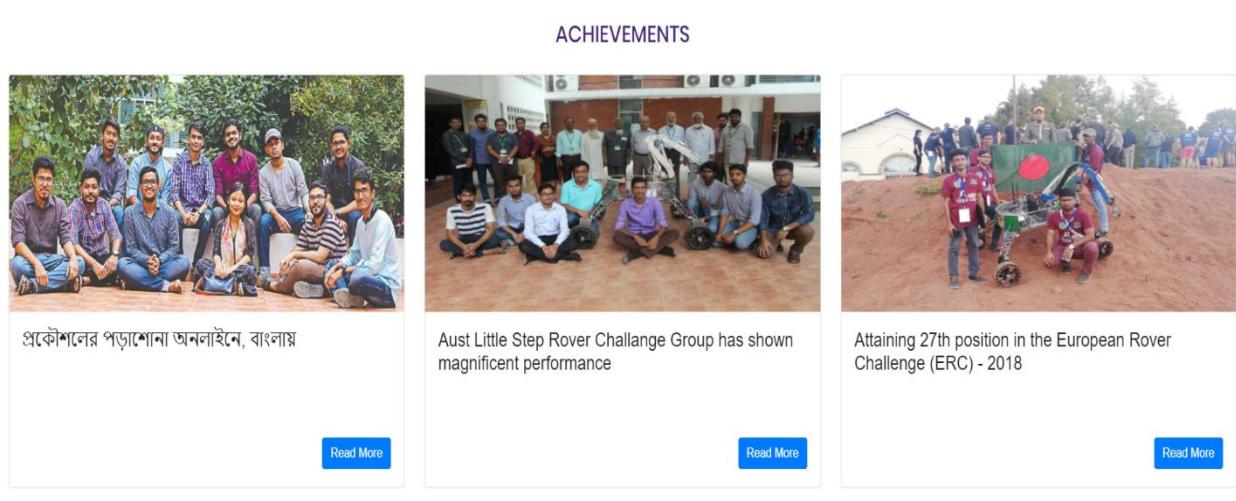


Figure 5.6: Achievements (Mobile Tab View Mode)

In the achievement section, there will be 3 recent achievement initially. Even user can also see all the achievements list just going through the achievements links. There will be an achievements image at the top of the card, below that there will be a large achievement title and also a short brief about the achievements. After that a bottom button will appear for read more about the achievements.

Achievement Items:

- Achievements Link
- Background Achievement Image
- Achievement Title
- Achievement Description
- Read More Button

Table: Achievement

Attribute	Type
acID (PK)	int
titleImage	blob
title	varchar
description	text
acDate	date

From the Achievement table we will get all kinds of achievement information with its published date, title image, achievement title, description inside a card view. It will appear 3-4 at a time on the home page.

5.4 HOME: MESSAGE FROM AUTHORITY



Figure 5.7: Message from authority (Web View Mode)

In this section, there will be a slider message from the authority, an image will appear from the corresponding person, below that there will be a title. And at the bottom the actually message will appear, user can slide the message or skip the message to show more message from the authority.

Message from Authority Items:

- Person Image
- Message Title
- Message Description

Table: Message

Attribute	Type
ID (PK)	int
msgTitle	varchar
profImg	blob
message	text
validity	int

5.5 HOME: FOOTER



Figure 5.8: Footer Section (Mobile Tab View)

5.6 FACULTY MEMBER

The image shows a screenshot of the Faculty Member page on the Ahsanullah University of Science & Technology website. At the top, there is a navigation bar with the university's logo, name, and links for Alumni, Vacancy, Convocation, and Research. Below the navigation bar is a purple header bar with links for Home, Academic, Admission, Administration, and Life@AUST. The main content area has a title "Computer Science and Engineering". Below the title, there are three faculty profiles, each with a photo, name, title, email, and four buttons for Education, Experience, Publications, and Area of Interest.

Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life@AUST

Computer Science and Engineering

**Dr. Kazi A Kalpoma**
Professor
Email: kalpama@gmail.com
[Education](#) [Experience](#) [Publications](#) [Area of Interest](#)

**Mr. Mohammad Moinul Hoque**
Associate Professor
Email: moincse@yahoo.com
[Education](#) [Experience](#) [Publications](#) [Area of Interest](#)

**Mr. Faisal Muhammad Shah**
Assistant Professor
Email: faisalaust@gmail.com
[Education](#) [Experience](#) [Publications](#) [Area of Interest](#)

Figure 5.9: Faculty Member Page

All the faculty member list will appear here, with their details information. There will be a profile image at left side of the page, from right there will appear their name, position.

Faculty Member Items:

- Faculty Image
- Faculty Name
- Faculty Position
- Area of Interest
- Contact Info

5.7 FACULTY MEMBER EXTENDED

The screenshot shows the website of Ahsanullah University of Science & Technology. At the top, there is a navigation bar with links for Home, Academic, Admission, Administration, and Life@AUST. Below the navigation bar, the university's logo and name are displayed. The main content area features three faculty member profiles:

- Dr. Kazi A Kalpoma** (Professor)
Email: kalpama@gmail.com
B.Sc (APE) & M.Sc (CSE), DU; MSc & Ph.D (Tohoku University, Japan)
American International University of Bangladesh (2011-2017) Ahsanullah University of Science and Technology (2017-present)
Image Processing, Satellite Image Processing and its Applications, Computer Vision, Data Structure and Algorithms.
- Mr. Mohammad Moinul Hoque** (Associate Professor)
Email: moincse@yahoo.com
Education Experience Publications Area of Interest
- Mr. Faisal Muhammad Shah** (Assistant Professor)
Email: faisalaust@gmail.com
Education Experience Publications Area of Interest

Figure 5.10: Faculty Member Extended

User can explore faculty member's education, experience, publication, awards and honors by clicking the corresponding button. The details info will appear with a single click with a little bit animation.

Faculty Member Extended Items:

- Education
- Experience
- Publication
- Awards and Honors

5.8 DEPARTMENT:

The screenshot shows the homepage of the Department of Civil Engineering at Ahsanullah University of Science & Technology. At the top, there is a navigation bar with links for Alumni, Vacancy, Convocation, and Research. The university's logo and name are also present. The main title "Department Of Civil Engineering" is displayed prominently in a green header. On the left, a sidebar menu lists "Faculty members", "Lab facilities", "Courses", "Class Routine", "Lab Manual", and "Know Your Department". In the center, there is a large image of a modern building complex. To the right, a "News & Announcement" section lists several items from 2018, such as a farewell ceremony, a seminar on graduate studies, the celebration of Eid-Ul-Fitr, and a notice for M.Sc. and M.Engg. students.

Figure 5.11: Department Page

This is a global page for all the departments where all the information will be fetched from the database on the basis of the parameter that has already linked with the link of all the departments.

5.9 DEPARTMENT: MENU SECTION

This is a menu section of our department basis pages. We have divided it into some subsections like faculty members, lab facilities, courses, lab manuals, class routines and sort of descriptions about the departments that is known here as "KNOW YOUR DEPARTMENT". Here lab facilities and know your department will work like links. If we click here then it will take a user to a new page. Here courses, lab manuals and class routines will follow dropdown pattern on the basis of year and semester. In the middle it is slide images that will show some latest and important titles

with a short description in it. On the right hand side there will appear important announcement and notices on the basis of the department.

The screenshot shows the official website of Ahsanullah University of Science & Technology. At the top, the university's logo and name are displayed. Below the logo, there are links for Alumni, Vacancy, Convocation, and Research. The main title "Department Of Civil Engineering" is prominently displayed in a green banner. To the left, a sidebar menu includes "Faculty members", "Lab facilities", "Courses", and a dropdown menu for "Class Results" which lists various academic years and semesters. The central content area features a photograph of a modern building with a glass facade and a blue banner that reads "AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY". To the right, a "News & Announcement" section lists several items with dates and descriptions, such as "Farewell Ceremony of Fall-2017 held at AUST" and "Notice for the M. Sc. Engg. and M. Engg. students of the Department of Civil Engineering".

Figure 5.12: Department Page (Sub Menu)

Table: DeptMenu

Attribute	Type
dmID (PK)	int
deptMenuTitle	varchar
deptID (FK)	int

Table: DeptImages

Attribute	Type
dimgID (PK)	int
deptImage	blob
deptID (FK)	int
Appear	varchar / int

The above tables will work just like the menu tables. Departmental menu will come from this table and then there will some submenus according to semester which will come from another table. The slide images that will show here will come from DeptImages table.

5.10 DEPARTMENT: EVENT SECTION

In this section some top events will appear here. Here the events will be fetched from the database. This events will appear here on the basis of department. There will be a title and sort of description. Then there will appear a button “READ MORE” which will take the user to the global event page.

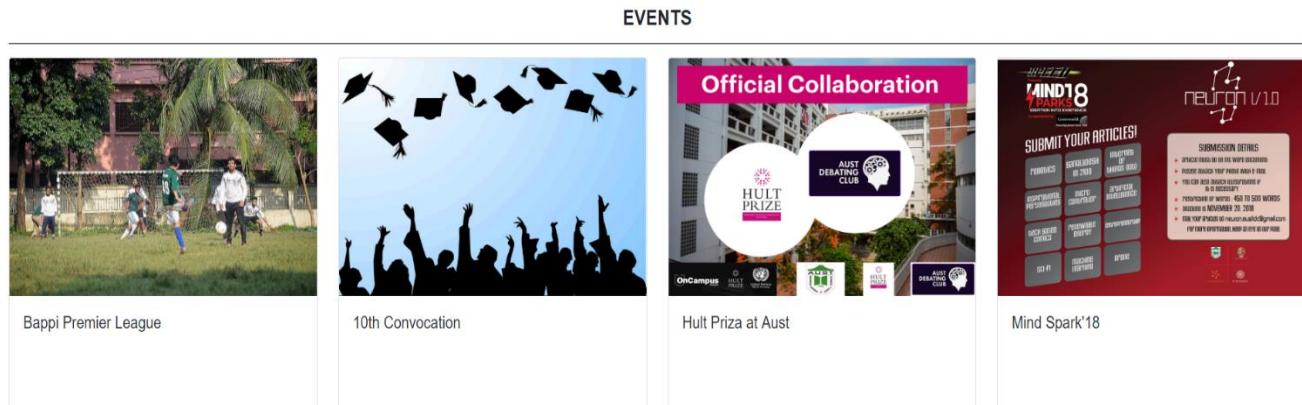


Figure 5.13: Event Section

Table: Event

Attribute	Type
eventID (PK)	int
eventTitle	varchar
Description	text
regLink	varchar
pageLink	varchar

The departmental events will come from the event table where departmentID is a foreign key that will find out the corresponding events, its images, details according to its department.

5.11 DEPARTMENT: MESSAGE SECTION

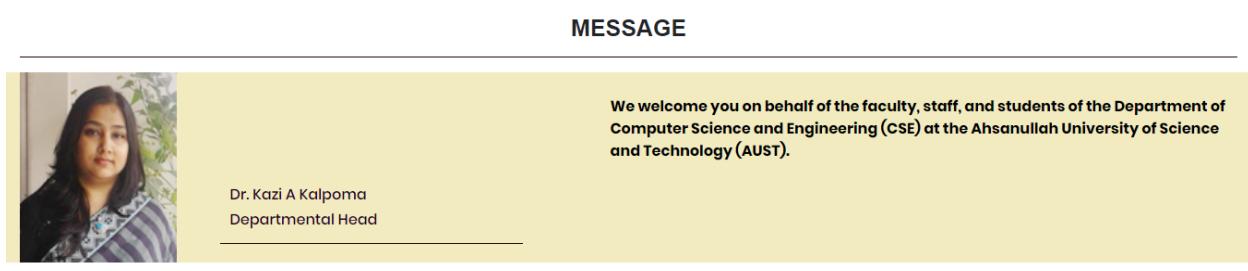


Figure 5.14: Department Head Message

In this section the message from the head of the department will appear here. Here the image of the departmental head, name and the designation will also be appeared.

Table: DeptHead

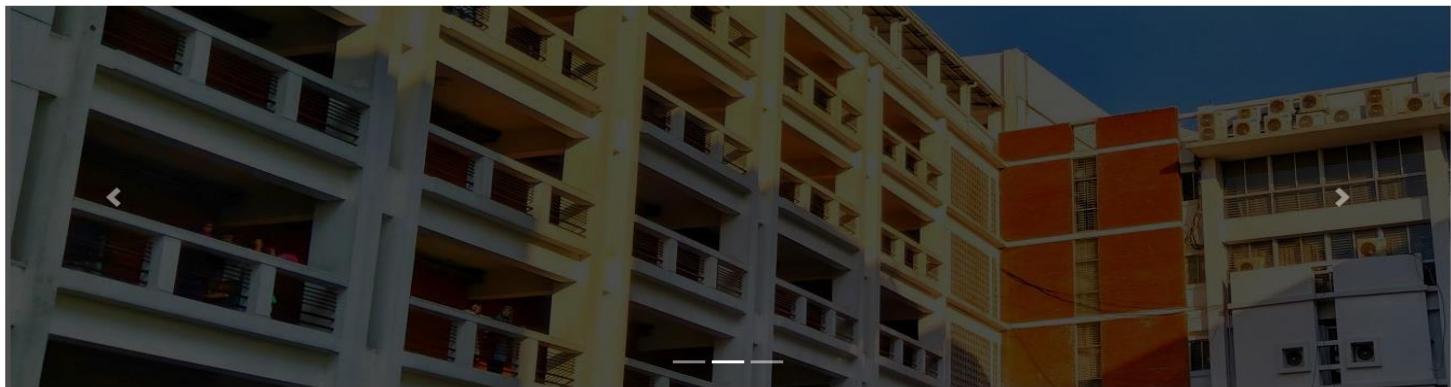
Attribute	Type
ID (PK)	int
deptID (FK)	int
From	varchar
To	varchar
headMsg	text

From this table we will get the message, Name and images of the departmental head that he or she wants to give for the new comer.

5.12 ABOUT DEPARTMENT

The screenshot shows the university's website with a purple header bar containing navigation links: Home, Academic ▾, Admission, Administration ▾, and Life@AUST. The main content area has a dark background and features the title "About Computer Science and Engineering" above a large photograph of a modern multi-story building.

About Computer Science and Engineering



The department of Computer Science and Engineering, abbreviated CSE, is offering an undergraduate engineering degree program since the establishment of the university in the year 1995 with a view to offer quality higher education to numerous worthy young fellows as well as to meet the huge demand of highly qualified specialists in the field. The program follows an intensive course curriculum containing well-organized courses on basic sciences, computer science, electrical and electronic engineering, computer engineering, management and humanities. Computer science and engineering courses constitute the bulk of the program (about 70%) and are most emphasized, of course. Usual intake of students in the department is twice in a year. Students graduated from this department are employed in different prestigious institutions and organizations home and abroad. A good number of our graduates have completed postgraduate programs including doctoral programs with brilliant performances at highly ranked universities around the world. The department has a good number of young full-time faculty members with best available exposure to ever-growing horizon of computer science and engineering. Besides, a number of part-time faculties also teach in each semester from other universities, research organizations and industrial establishments for extending experience-rich education. The department organizes various co-curricular and extra-curricular activities to develop important social and professional faculties in the students. Most common co-curricular activity is the programming contest, which has become regular by this time. And the most common extra-curricular activities are reception parties for welcoming the newly entered students and for biding farewell to the outgoing students. The department has developed its own laboratories which include six computer labs and one digital electronics lab equipped with modern personal computers and electronic devices. There is a server center attached to the department which is equipped with various PC-server systems for providing network facilities to the labs and offices all over the university campus.

Ahsanullah University of Science and Technology
141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.
Tel. (8802) 8870422, Ext. 107, 114, Fax : (8802) 8870417-18
Email : info@aust.edu, regr@aust.edu

Figure 5.15: DEPT about Section

This is a descriptive section where we have to describe about the departments. The history of the department, establish date, about faculty members, labs and extra co-curricular activities will appear here as a short descriptive mode.

Table: Department

Attribute	Type
deptID (PK)	int
deptName	varchar
parameter	varchar
deptshortName	varchar
aboutDept	text

From the above table we will get the images of the corresponding departments and its history. Then we will get that information according to its department and show them on this page.

5.13 ABOUT LIBRARY



About the Library

Ahsanullah University of Science and Technology (AUST) Library has grown over the years since 1992 and now is one of the best university libraries in Bangladesh. This is the first fully automated university library in the country using Bi-lingual Library Management System, developed by AUST Library which supports MARC21, web-based online lending and receiving, browsing databases of books, a-v materials, journals, newspapers and magazines, searching full-text online books and journals, creating institutional repositories, tracking circulation system, maintain RFID self check and book drop records, auto email alert services etc. Its online databases provide full access to all users, facilitates navigation and reservation of books from distant work stations through its own website <http://library.northsouth.edu>. The users can also check their borrowing status, renew issued resources and can reserve three books at a time for 48 hours through the library website. This is the only university library in Bangladesh where the Library of Congress Classification System is being used to organize and arrange books, reports, journals and other resources. The library has introduced state-of-the-art technology Radio Frequency Identification (RFID) Based Library Management System to automate library operation and management for the first time in the country in December 2012, financed by the World Bank and the University Grants Commission of Bangladesh under the Higher Education Quality Enhancement Project (HEQEP). Now, the library users themselves can issue and return books using Self-Check and Book-Drop machines. They can also track the books on shelves using tracking machines. The library consists of six floors with over 70,000 sq ft area at the south-east side of the AUST campus at Tejgaon, Dhaka. It can accommodate over 1,400 students at a time in its well-furnished reading rooms. On an average 2,500 users use the library every day.

Resources

A total number of 51,008 printed books, reports and bound journals, 87,903 online e-books (access through INASP/PERI, UDL and Research4Life only), 64,624 online journals (access through 52 E-resource providers), 1,900 CD ROM books and databases, 229 DVDs and videos, 159 audio-cassettes and a good numbers of other resources of the library cover all branches of knowledge. In addition to these collections, the library subscribes print issues of 46 foreign and 19 local journals, 18 foreign and 22 local magazines, two foreign dailies and almost all leading national dailies of Bangladesh. The AUST library is the pioneer of subscribing online journals and MyAthens in the country. It started subscription to online journals with JSTOR, IEEE, ACM Digital library and 39 titles of online journals in various disciplines for the first time in 2002. After that the other libraries started subscription to online journals in Bangladesh. It has also started subscription to e-resource databases, namely, EconLit, AHEAD and Global Development Finance in 1998. All registered members of AUST library get access to online journals and e-books databases from inside and outside campus through Internet. Institutional Repository

Cyber and Audio-Visual Center

It maintains a cyber and audio-visual center equipped with 50 brand computers with Wi-Fi and broadband Internet connection. In addition to this, the library is donnied with 30 computers in its various floors to use online resources for supporting courses. All students, faculty members and staff members of the university can browse, download and print materials from these computers. The audio visual unit is also equipped with TV, VCD, VCR, DVD, multi-media projector and other audio-visual equipments.

Sections

At present, the library maintains 12 different sections, namely, arts and social sciences, applied sciences and engineering, bio-medical sciences, reference, periodicals, cyber & audio-visuals, newspaper archive, study hall, faculty corner, Chinese books, acquisition & processing, and library administration to provide better services to its users.

Services

Currently, the library provides lending, reference, readers' guidance, internet, reading, news clipping, database searching and printing, CD writing, audio-visual, current awareness, SDI and reprography services to its users. The Wi-Fi and broadband internet connection of the library building help the library users to access online resources easily.

Service Hours

AUST library maintains 7 days a working week. It is open, Sunday through Thursday, from 8:00 a.m. to 9:30 p.m. and from 10:00 a.m. to 9:00 p.m. on Saturday. On Friday, it is open from 10:00 a.m. to 6:00 p.m. with a Jumma prayer break from 1:00 p.m. to 2:30 p.m. and maintains single shift from 9:00 a.m. to 5:00 p.m. during the semester break. It remains closed on public holidays and other dates announced by the university authorities.

Ahsanullah University of Science and Technology

141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.
Tel. (8802) 8870422, Ext. 107, 114, Fax : (8802) 8870417-18
Email : info@aust.edu, regr@aust.edu

Figure 5.16: Library

This is an important section for library where user can see about the library facilities, list of books, history of library and important dates like establish date. All this will come from the database.

5.14 ADMINISTRATION

Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life@AUST

List of Vice-Chancellors



Prof. Dr. M. H. Khan

Professor

Email: MHKhan@gmail.com

Duration: 25.04.1995 – 31.01.2007



Prof. Dr. M. Anwar Hossain

Professor

Email: AnwarHossain@yahoo.com

Duration: 01.02.2007 – 31.01.2011

Figure 5.17: Administration section (list of vice chancellors)

This is a portion of administrative section where we are showing the list of vice chancellors name, their designation, email information and job duration for that position.

5.15 EVENT LIST PAGE

The screenshot shows the AUST website's event list page. At the top, there is a header with the university's logo and name, followed by links for Alumni, Vacancy, Convocation, and Research. Below the header is a dark blue navigation bar with links for Home, Academic, Admission, Administration, and Life @AUST. The main content area is titled "Event List" and features a table of events. The table has columns for #, Events Title, and Date. The events listed are:

#	Events Title	Date
1	Bappi Premier League	2018-10-16
2	Milad Mahfil	2018-11-17
3	10th Convocation	2015-10-08
4	Hult Priza at Aust	2018-11-21
5	Mind Spark18	2018-11-21
6	BUP ICT FEST 2018	2018-11-02
7	Imagine cup 2019	2018-09-14
8	ACI Motors Presents Ignition 2018	2018-10-31

Pagination controls at the bottom of the table show pages 1, 2, and 3, with page 2 currently selected.

Figure 5.18: Event Page

This is our event list page. When a user click on “UPCOMING EVENTS” link in the home page, it will navigate the user to the “EVENT LIST” page. In the “EVENT LIST” page there are

- A Global Nav-bar
- A Title : “Event List”
- A Table contains
 - ◆ Event id
 - ◆ Event title (clickable)
 - ◆ Event post date

“EVENT LIST” page also contains a pagination system. Paging has many advantages. First of all, paging allows us to relocate memory areas to other places where they are more useful. For example, any operating system must divide memory in two areas, one for the operating system itself (OS, data, management tables) and one for the user programs. The area for the OS must be subdivided into areas to store each driver and its data. The area for the user must be subdivided to store each program and its data.

5.16 EVENT PAGES

Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life @AUST

Hult Priza at Aust

2018-11-21

Description

Hult Priza at Aust

We are very excited to announce that HULT PRIZE at AUST has made an official collaboration with Ahsanullah University of Science & Technology Debating Club for the event, Hult Prize OnCampus Program 2019.

We want to thank and congratulate the members of Hult Prize at AUST Organizing Committee and AUST Debating Club to make this pact happen. Together we are going to host the "First International" Competition at AUST.

Important Notice

Important News

n/a

Required Files

file

n/a

Registration Links :

www.hulptrizeat.com/austbd

Figure 5.19: Event Details (Hult Prize at Aust)



Imagine cup 2019

2018-09-14



Description	Important Notice
<p>Imagine cup 2019</p> <p>Topic:- Imagine Cup 2019</p> <p>Imagine Cup is a global competition that empowers the next generation of computer science students to team up and use their creativity, passion and knowledge of technology to create applications that shape how we live, work and play. Every year tens of thousands of students from across the globe compete for cash, travel and prizes and for the honor of taking home the Imagine Cup!</p> <p>The event will be broadcast via youtube Live. Broadcast link: https://bit.ly/2QlQdDT</p> <p>Organized by: Microsoft Technical Community - Bangladesh Date: 17 September 2018 Saturday 10:00 PM - 11:00 PM</p> <p>Speaker: 1. M. A. Nakib Juris, Field Technical Manager (SAM&C) at Microsoft Topic: Imagine Cup 2019 Language: Bangla (বাংলা)</p> <p>Organizing Committee Convenor: Zubayer Al Billal Khan Coordinator : Md Aftab Uddin Kajal Member: Ratan Sunder Parai Konika Ferdous Solaiman Shohag Rasedur Rahman Roxy Mahfuzza Humayra Mohona Sabrina Yeasmin Setu Arika Afrin Boshra</p>	<p>Important News</p> <p>n/a</p> <p>Required Files</p> <p>file</p> <p>n/a</p>
Registration Links :	
n/A	

Figure 5.20: Event Details (Imagine cup 2019)

This is our global event page. When a user clicks “UPCOMING EVENTS” on Home page, then it will go to our global “EVENT LIST” page .Then when a user clicks an event from that event list page, the “EVENT LIST” page sends the corresponding event id as parameter to “EVENT” page. As our event is global. It will retrieve its each content from database.

Our Event page has this sections on it.

- Event Title
- Event Date
- Event’s Slide Images
- Description
- Important Notice
- Registration Link
- Download File

Event Title: The title of the Event.

Event Date: The date of the event it will occur.

Event’s Slide Image: There will be picture of that event.

Description: In here, there will be the description about that event what is clicked by the user.

Important Notice: If user click on a

Registration Link: If any registration belongs to an event, that registration link will be mention here retrieving information from database.

Download File: If an event has some files for users to download, there will be the files or it will be invisible in this page

Here the database tables in back-end:

Table: events

Attribute	Type
id(PK)	Int
eventTitle	Varchar
Description	Varchar
regLink	Varchar
pageLink	Varchar

Table: events_doc

Attribute	Type
id(PK)	Int
eventID(FK)	Int
Filename	Varchar

5.17 ANNOUNCEMENT LIST PAGE



Ahsanullah University of Science & Technology

Alumni

Vacancy

Convocation

Research

Home Academic ▾ Admission Administration ▾ Life @AUST

Aust Announcements

Filter:

Options ▾

News Title	Date
Notice for MSc Engg and M.Engg students of the Department of Civil Engineering	2018-10-24
Syndicate meeting of Aust	2018-10-24
Revised Final Exam Routine Spring -2018,MBA & EMBA Program	2018-10-21
Admission in Master Programs ,Fall 2018 Semester	2018-10-03
The admission process of Fall 2018 is rescheduled to be held on 09.10.2018, 10.10.2018 and 11.10.2018 instead of 26.10.2018, 27.10.2017 and 29.10.2018	2018-10-03
Admission notice for BBA & MBA/EMBA Programs,Fall 2018 Semester	2018-10-16
List of Selected Candidates for Master's Program of EEE Department	2018-10-26
Selected Applicants for Hostel Seat, Fall Semester-2018	2018-10-27
Revised schedule of Semester Impronet/ Clearance / Carryover Examinations : Spring 2018	2018-11-01
12 waiting list for different department (General)	2018-11-19

« 1 2 »

Figure 5.21: Announcement list Page (all)

Aust Announcements 

News Title	Date
Notice for MSc Engg and M.Engg students of the Department of Civil Engineering	2018-10-24
Syndicate meeting of Aust	2018-10-24
Revised Final Exam Routine: Spring -2018, MBA & EMBA Program	2018-10-21
Admission in Master Programs, Fall 2018 Semester	2018-10-03
The admission process of Fall 2018 is rescheduled to be held on 09.10.2018, 10.10.2018 and 11.10.2018 instead of 26.10.2018, 27.10.2017 and 29.10.2018	2018-10-03
Admission notice for BBA & MBA/EMBA Programs, Fall 2018 Semester	2018-10-16
List of Selected Candidates for Master's Program of EEE Department	2018-10-26
Selected Applicants for Hostel Seat, Fall Semester-2018	2018-10-27
Revised schedule of Semester Improvement/ Clearance / Carryover Examinations : Spring 2018	2018-11-01
12 waiting list for different department (General)	2018-11-19

« 1 2 »

Figure 5.22: Announcement list Page (Filter Options)



Aust Announcements

Filter:

Options ▾

News Title	Date
12 waiting list for different department (General)	2018-11-19
Notice for Internship of MBA & EMBA students	2018-11-13
The Department of Architecture AUST organised Spring 2018 semester Thesis Jury	2018-11-10
Revised schedule of Semester Improvent/ Clearence / Carryover Examinations : Spring 2018	2018-11-01
Selected Applicants for Hostel Seat, Fall Semester-2018	2018-10-27
List of Selected Candidates for Master's Program of EEE Department	2018-10-26
Notice for MSc Engg and MEngg students of the Department of Civil Engineering	2018-10-24
Syndicate meeting of Aust	2018-10-24
Revised Final Exam Routine:Spring -2018,MBA & EMBA Program	2018-10-21
Admission notice for BBA & MBA/EMBA Programs,Fall 2018 Semester	2018-10-16



Figure 5.23: Announcement List Page (filtered: order by date)

This is our “ANNOUNCEMENT LIST” page. When a user hits the link on “ANNOUNCEMENTS” in the home page it will go to “ANNOUNCEMENT LIST” page here. There is a filter options.

The filter option contains two options

- Department
- Date

Filter

Department: It will filter the list & show only department news.

Date: It will filter the all announcements ordered by date.

5.18 ANNOUNCEMENTS PAGE



Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life @AUST



Syndicate meeting of Aust

The 57th meeting of the Syndicate of Ahsanullah University of Science and Technology (AUST) was held on 21st October'18 at the AUST Meeting Room. The meeting was presided over by the Chairman of Syndicate and Vice-Chancellor of AUST, Professor Dr. A.M.M Safiullah,

Syndicate members Prof. Dr. Kazi Shariful Alam, Pro Vice-Chancellor (in charge) and Treasurer, AUST, Prof Dr. M. Kaykobad, Professor, Department of CSE, BUET, Prof. Dr. Abdur Rahim Mollah, Dean, Faculty of Engineering, AUST, Prof. Dr. Md. Amanullah, Dean, Faculty of Business and Social Sciences, AUST, Dr. M. Ehsanur Rahman, Executive Director, DAM, Prof. Dr. Sharif Enamul Kabir, Department of Chemistry, Jahangirnagar University, Mr. Shibbir Mahmud, Chairman, Swiss Tex Group and Mr. Muhammad Abdul Gafur, Member-Secretary of the Syndicate of AUST were present.

Figure 5.24: Announcement HTML page (Syndicate meeting of Aust)




Notice for M.Sc Engg and M.Engg students of
the Department of Civil Engineering

 Ahsanullah University of Science and Technology

Ahsanullah University of Science and Technology
Department of Civil Engineering
M. Sc. Engg./M. Engg. Program
Fall Semester 2018

24.10.2018

Notice

The M. Sc. Engg. and M. Engg. students of the Department of Civil Engineering, Ahsanullah University of Science and Technology, are advised to complete course registration for the Fall Semester 2018 after paying the prescribed fees between 10 am and 4 pm on any working day except Friday and Saturday from 28.10.2018 to 04.10.2018.

For further information, the students are advised to contact the office of the Department of Civil Engineering.


(Dr. Sharmin Reza Chowdhury)
Professor and Head
Department of Civil Engineering
Ahsanullah University of Science and Technology

Figure 5.25: Announcement image page (Notice for M.Sc. Eng.)




Revised schedule of Semester Improvement/Clearance / Carryover Examinations : Spring 2018

No.: AUST/Exam/Spring 2018(25.2) Date: 28 October 2018
NOTIFICATION

Revised Schedule of Semester Improvement/Clearance/Carryover Examinations: Spring 2018

It is hereby notified for information of all concerned that the Semester Improvement/Clearance/Carryover Examinations of Spring 2018 for the undergraduate students of Ahsanullah University of Science and Technology (AUST) will be held from Saturday, 10 November 2018 to Thursday, 22 November 2018 in accordance with the following schedule:

Date: 10 November 2018(Saturday)				Time: 9:30 am to 12:30 pm
Program	Year	Semester	Course No.	Course Title
Bachelor of Architecture	1 st	1 st	ARC 1121	Mathematics and Physics
	2 nd	1 st	ARC 2141	Physical Planning I
	3 rd	1 st	ARC 3103	Theory of Design III
	4 th	1 st	ARC 4107	Housing
	5 th	1 st	ARC 5125	Advanced Acoustics and Noise Control
Bachelor of Business Administration	1 st	1 st	BBA 113	Fundamentals of Mathematics
	2 nd	1 st	BBA 211	Advanced Accounting
	3 rd	1 st	BBA 311	Cost and Management Accounting
Bachelor of Science in Civil Engineering	1 st	1 st	CE 103	Surveying
	2 nd	1 st	MATH 231	Mathematics III
	3 rd	1 st	CE 331	Environmental Engineering I
	4 th	1 st	CE 431	Environmental Engineering III
Bachelor of Science in Computer Science and Engineering	1 st	1 st	MATH 115	Mathematics I
	2 nd	1 st	MATH 2101	Mathematics III
	3 rd	1 st	CSE 3101	Mathematical Analysis for Computer Science
	4 th	1 st	CSE 4129	Formal Languages and Compilers
Bachelor of Science in Electrical & Electronic Engineering	1 st	1 st	EEE 1101	Electrical Circuits I
	2 nd	1 st	MATH 2103	Mathematics IV
	3 rd	1 st	EEE 3117	Electromagnetics
	4 th	1 st	EEE 4105	Control System I
Bachelor of Science in Textile Engineering	1 st	1 st	TEX 101	Textile Raw Materials I
	2 nd	1 st	TEX 201	Textile Raw Materials II
	3 rd	1 st	TEX 305	Fabric Manufacturing II
	4 th	1 st	TEX 413	Special Yarn Production
			TEX 415	Special Fabric Production
			TEX 417	Special Wet Processing
		TEX 419	Special Apparel Production	
Bachelor of Science in Industrial and Production Engineering	1 st	1 st	MATH 1107	Mathematics I
	2 nd	1 st	IPE 2101	Manufacturing Process
	3 rd	1 st	ME 3131	Fluid Mechanics and Machinery
	4 th	1 st	IPE 4101	Machine Tools and Machining
Bachelor of Science in Mechanical Engineering	1 st	1 st	CHEM 1107	Chemistry
	2 nd	1 st	EEE 2187	Electrical Machines
	3 rd	1 st	ME 3105	Fluid Mechanics
	4 th	1 st	ME 4105	Refrigeration and Building Mechanical System
Date: 11 November 2018 (Sunday)				Time: 9:30 am to 12:30 pm
Program	Year	Semester	Course No.	Course Title
Bachelor of Architecture	1 st	2 nd	ARC 1227	Finish Materials
	2 nd	2 nd	ARC 2241	Physical Planning II
	3 rd	2 nd	ARC 3201	History of Architecture IV
	4 th	2 nd	ARC 4229	Structure and Architecture VI

Figure 5.26: Announcement PDF page (Revised schedule of Carry/Clearance)

When a user hits an announcement from the “ANNOUNCEMENT LIST” page, it will pass an announcement id through URL to the global “ANNOUNCEMENT” page & the “ANNOUNCEMENT” page will load up the related content with the parameterized announcement id from the database. “ANNOUNCEMENT” page can contain three kinds of page.

These types are

- HTML
- IMAGE
- PDF

“ANNOUNCEMENT” page contains a title & a body.

Title: Title contains the announcement title.

Body: Body contains that three kind of information (html, image, pdf).

Here the database table in back-end:

Table: announcements

Attribute	Type
id(PK)	int
deptID(FK)	int
newsTitle	varchar
Description	varchar
postingDate	date
Valid	varchar
newsImg	varchar
newsPDF	varchar
pageLink	varchar

5.19 CONVOCATION PAGE

AUST Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life @AUST

10th Convocation
2015-10-08



Description	Important Notice
<p>10th Convocation</p> <p>10th Convocation of AUST is going to be held on 09 January 2018 at Bangabandhu International Conference Centre, Sher-e-Bangla Nagar, Dhaka. All graduates of B.Sc. in Engineering (CE, CSE, EEE, IPE, ME and TT/TE), B. Arch, BBA, MBA, EMBA, MSc. (Math.) and M.Ed. programs of Spring 2016 and Fall 2016 semesters are advised to register their names by depositing Tk. 5,500.00 per person for participation in the Convocation within 24 December 2017.</p>	<p>Important News</p> <p>10th-Convocation starts from 10.am</p>

Registration Links :
www.convo-reg.org

Required Files

File Name	file
notice	notice.pdf

Figure 5.27: Convocation Page (10th Convocation)

When a user clicks on “Convocation” in the home page, it will go to the “Convocation” page. This is also an event so that from “EVENT LIST” a user can go to the “Convocation” page. All the contents are retrieved from the database through event id as a convocation also belongs to an event category.

Here the back-end database tables:

Table: events

Attribute	Type
id(PK)	int
eventTitle	varchar
Description	varchar
regLink	varchar
pageLink	varchar

Table: events_doc

Attribute	Type
id(PK)	int
eventID(FK)	int
Filename	varchar

5.20 Alumni



Ahsanullah University of Science & Technology

Alumni Vacancy Convocation Research

Home Academic ▾ Admission Administration ▾ Life@AUST

Alumni List

Type something in the input field to search the table for names , id , passing year or emails:

Student ID	Name	Department	CGPA	Email	Passing Year	Current Working Position
140204010	Syed Sajid Mahboob	Computer Science and Engineering	3.35	sajid.mahboob16@gmail.com	2018	
140105044	Irfan Sadi	Electrical & Electronic Engineering	3.4	sadi@yahoo.com	2018	Summit power ltd.
140104049	Samina Sifat Anika	Computer Science and Engineering	3.197	saminasifat@yahoo.com	2018	
140104107	Sarah Tabassum	Computer Science and Engineering	3.907	Tabassum@gmail.com	2018	
140105139	Md. Shaikh Abrar Kabir	Electrical & Electronic Engineering	3.945	abrarr139@gmail.com	2018	
110105199	Jamil Hasnine Tamim	Electrical & Electronic Engineering	2.551	tamimi99@yahoo.com	2017	
130205015	Rubayet Chowdhury	Electrical & Electronic Engineering	3.754	rubayet015@gmail.com	2017	
130105014	Shaila Kabir Snigdha	Electrical & Electronic Engineering	3.759	snigdhal4@gmail.com	2016	
130105001	Zafir Sarker	Electrical & Electronic Engineering	3.504	sarker5@yahoo.com	2016	
140103014	Abdullah Al Noman	Civil Engineering	3.404	noman14@yahoo.com	2017	
140103093	Afsara Nawar	Civil Engineering	2.997	nawar@gmail.com	2017	
110203033	Tonmoy Kundu	Computer Science and Engineering	2.378	kundu33@gmail.com	2017	
120201004	Imrul Sadique	Department of Architecture	2.634	sadique@gmail.com	2017	
130101048	Sadia Afrin	Department of Architecture	3.385	sadiaarch@yahoo.com	2017	

Ahsanullah University of Science and Technology

141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.

Tel. (8802) 8870422, Ext. 107, 114, Fax : (8802) 8870417-18

Email : info@aust.edu, regr@aust.edu

Figure 5.28: Alumni List



Alumni List

Type something in the input field to search the table for names , id , passing year or emails:

Student ID	Name	Department	CGPA	Email	Passing Year	Current Working Position
140105044	Irfan Sadi	Electrical & Electronic Engineering	3.4	sadi@yahoo.com	2018	Summit power ltd.
140105139	Md. Shaikh Abrar Kabir	Electrical & Electronic Engineering	3.945	abrarr139@gmail.com	2018	
110105199	Jamil Hasnine Tamim	Electrical & Electronic Engineering	2.551	tamim199@yahoo.com	2017	
130205015	Rubayet Chowdhury	Electrical & Electronic Engineering	3.754	rubayet015@gmail.com	2017	
130105014	Shaila Kabir Snigdha	Electrical & Electronic Engineering	3.759	snigdha14@gmail.com	2016	
130105001	Zafir Sarker	Electrical & Electronic Engineering	3.504	sarker5@yahoo.com	2016	

Ahsanullah University of Science and Technology

141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.

Tel. (8802) 8870422, Ext. 107, 114, Fax : (8802) 8870417-18

Email : info@aust.edu, regr@aust.edu

Figure 5.29: Alumni List (Filtered with “electrical”)

On the above figure we can see the list of the alumni who have passed from Ahsanullah University of Science and Technology. Here we will find out all the students who have completed their graduation in different years. Here the list will contain student id, department, graduation year, name, CGPA, Current position and email. We can search them using any one of the attribute that is given above. The search option will work for both uppercase and lowercase input.

5.21 Admin Dashboard Login

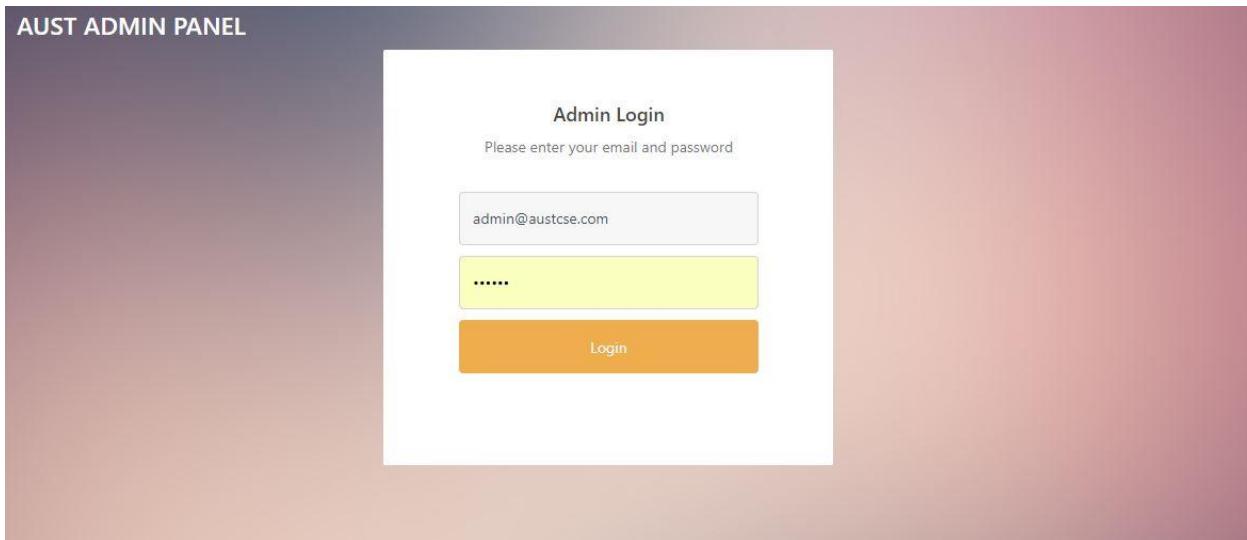


Figure 5.30: Admin dashboard login screenshot.

All existing department admin can access the admin panel by using their credential, using email address and password corresponding people can login into the admin section. Wherever page they want to access, they must provide their credential first to insert, update, delete their data.

5.22 Base Admin Page

The page has a sidebar with navigation links: Faculty, Designations, Life at aust, Achievements, Admin Categories, Admin Menus, Alumnis, Departments, Dept Heads, Employees, Employee Positions, Events, Event_docs, and Library Details. The main content area has two parts: "Add Faculty" on the left and "Faculty List" on the right. The "Add Faculty" form includes fields for Name, Email address, Phone, Designation (with a dropdown menu showing "Assistant Professor"), Department (with a dropdown menu showing "ARCH"), an "Upload an image" field (labeled "Choose File" with "No file chosen"), Education (a large text area), and Experiences (a text area). The "Faculty List" table has columns for #, Name, Dept, Edit, and Delete.

Figure 5.31: Base Admin Page.

There will be a base admin panel, where admin can access the page using the valid credential. Whenever admin wants to access the admin panel, admin must use the credential, otherwise if admin wants to access any dashboard page directly, it will redirect the admin to the login page, after authentication admin can do CRUD operation. In the base admin page, there will be list tab section, with their corresponding section name. By clicking one of the tab, there will show a form, where admin can insert, update or delete a filed, and submit it to the database.

5.23 Admin Dashboard Achievement

- [Achievements](#)
- [Life at aust](#)
- [Admin Categories](#)
- [Admin Menus](#)
- [Alumnis](#)
- [Departments](#)
- [Dept Heads](#)
- [Employees](#)
- [Employee Positions](#)
- [Events](#)
- [Event_docs](#)
- [Semester Docs](#)
- [Library Details](#)

Add Achievement

Title:

Upload an image:

No file chosen

Description:

Achievement Date:

Save

Achievements

#	Title	Edit	Delete
4	Become a javascript dev!	Edit	Delete

Figure 5.32: Admin Dashboard Achievement.

From admin achievement page admin can post achievement details information. There will be a title, image, description and date. From right, there will be an option as well to view the list of achievements and update and delete them.

5.24 Admin Dashboard Life at Aust

Faculty	Name		
	Ashraful Zaman		Delete
Designations			
Life at aust	Title		
	How i become a iOS Dev!		
	Upload an image		
	Choose File charles-deluvio-456501-unsplash.jpg		
	Story		
	From playing with his first iPod touch at a young age, Alexander was fascinated by iOS and aspired to create his own apps. Over the upcoming		
	Submit		

Figure 5.33: Admin dashboard add story section.

Admin can add name, story title, image, full description of the story depending on the department. By submitting data, admin can see the data that have inserted immediately beside the table list.

5.25 Admin Dashboard Add Department

The screenshot shows the Admin Dashboard with a sidebar on the left containing links like Achievements, Life at aust, Admin Categories, Admin Menus, etc. The main area has two sections: 'Add Department' on the left and 'Departments' on the right.

Add Department Form:

- Name:
- Short name:
- About Department:
- Save button

Departments List:

#	Name	Edit	Delete
0	All departments	Edit	Delete
1	Architecture	Edit	Delete
2	School of Business	Edit	Delete
3	Civil Engineering	Edit	Delete
4	Computer Science and Engineering	Edit	Delete
5	Electrical & Electronic Engineering	Edit	Delete
6	Textile Engineering	Edit	Delete
7	Mechanical and Production Engineering	Edit	Delete
8	Arts and Sciences	Edit	Delete

Figure 5.34: Admin dashboard add department section.

There will be three field to add a department name, short name, and finally about department. Like all above we can see the list of the department and their info to the right and can edit or delete them as well.

5.26 Admin Dashboard Add Faculty

Add Faculty

Name

Email address

Phone

Designmation

Department

Upload an image

 No file chosen

Education

Faculty List

#	Name	Dept	Edit	Delete
---	------	------	------	--------

(No data available)

Figure 5.35: Admin add faculty section.

Upload an image

No file chosen

Education

Experiences

Publication

Rewards

Figure 5.36: Admin add faculty section (extended)

Admin can insert, update, and delete all the necessary field. For better user experience, add can see immediately the inserted data besides the table list. Where there will two more option to delete and update the inserted data.

5.27 Admin Dashboard Add Documents Files

Dashboard

Achievements
Life at aust
Admin Categories
Admin Menus
Alumnis
Departments
Dept Heads
Employees
Employee Positions
Events
Event_docs
Semester Docs
Library Details

Add a Doc

Department: All departments

Semester Name:

Upload class routine: No file chosen

Upload lab manual: No file chosen

Upload courses: No file chosen

Save

All Docs

#	Semester Name	Edit	Delete
1	1st year 1st semester	<button>Edit</button>	<button>Delete</button>
2	2nd Year 2nd semester	<button>Edit</button>	<button>Delete</button>
3	2nd Year 2nd semester	<button>Edit</button>	<button>Delete</button>

Figure 5.37: Add document files

All doc file will be uploaded from here department wise. Admin have to select the department from the dashboard then the semester. After that the routine file, lab manual, and courses. From right admin can access the files as well, in case of delete or update any files.

5.28 Life at AUST

Life at AUST≡ Menu

How i become an iOS Dev!

3 days ago, dept of CSE, Ashraful Zaman

From playing with his first iPod touch at a young age, Alexander was fascinated by iOS and aspired to create his own apps. Over the upcoming years, Alexander's appreciation for technology grew and he realized the best way to see his apps brought to life was to build them himself. He began using articles and videos online to learn how to develop apps. By 14 years old, Alexander had built his first app and was hooked on coding. By 15, he was winning awards for his iOS apps and made the decision that his future career would be in the mobile industry. Still a full-time student, Alexander needed a reliable learning resource to advance his coding skills in his free time. That's when he discovered Treehouse. Since then, Alexander has continued to be



Figure 5.38: Life at Aust.

This is one of the most exciting feature. Student can share their story in this section. The view appear will appear with a title of the story, name of the author, image and finally the main story. Student can share their campus life story or other activities.

CHAPTER SIX
CONCLUSION
AND
FUTURE WORKS

6.1 Limitations

There are some limitations for the current system to which solutions can be provided as a future development:

- The interior of the website could be better. We are still working on this.
- There are scopes for improvement in the Admin dashboard.

6.2 Future Plan

- Now we have only one template as the Home page where the contents are dynamic. But in future we have a plan to make multiple templates for one page so that the admin can choose any one to make the website attractive to the users.
- Now the design of color is fixed. In near future we have a plan to make it dynamic also so that the admin can change it through the admin dashboard to give different look to the system.

There is always room for improvement. Future improvement of the system can be done if needed. The recommended system can be improved to be more self-functional.

6.3 Conclusion

Internet is very popular nowadays and the service of the internet is also getting popular. Among those services, websites play a huge significant role in this modern world. People will always prefer websites or web applications because it saves a lot of time and very ease to gather information. Websites or web applications proved its importance based on the fact where time is essence. It helps the users to gather necessary information within some clicks. Because of this websites or web applications face to face contacts have decreased in a remarkable way that helps all the people to make the efficient use of time. The implementation of the current project work will help the AUST or similar institutions to serve their purpose.

Appendix

APPENDIX A

Codes of main features for user interface

Achievement

Blade

```
<!-- ACHIEVEMENT GRID BEGIN -->

<div class="container-fluid padding">
    <div class="row welcome text-center">
        <div class="col-sm-12">
            <a href="#">
                <h3 class="py-4" style="color: #422978;">ACHIEVEMENTS</h3>
            </a>
        </div>
    </div>
</div>

<div class="container-fluid">
    <div class="row">
        <?php foreach ($homearray['achievement'] as $achievement): ?>
        <div class="col-12 col-sm-12 col-md-4 col-lg-4 col-xl-4">
            <div class="card">
                <div class="img-achievement">
                    
                </div>
                <div class="card-body" style="margin-bottom:2%; ">
                    <h4 class="card-title">{$achievement->Title}</h4>
                    <!-- Button trigger modal -->
                    <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#des{$achievement->id}"/>Read More</button>
                </div>
            </div>
        </div>
        <?php endforeach; ?>
    </div>
</div>

<!-- Modal -->

<div class="container-fluid acvmodal">
    <div class="row">
        <?php foreach ($homearray['achievement'] as $achievement): ?>
        <div class="col-12 col-sm-12 col-md-12 col-xl-12">
```

```

<div class="modal fade bd-example-modal-lg" id="des{{\$achievement->id}}" tabindex="-1" role="dialog" aria-labelledby="exampleModalLongTitle"
     aria-hidden="true">
    <div class="modal-dialog modal-lg" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title"
id="exampleModalLongTitle">{{\$achievement->Title}}</h5>
                <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>

            <div class="acvimg">
                
            </div>

            <div class="modal-body">
                <?php echo \$achievement->Description ?>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-
dismiss="modal">Close</button>
            </div>
        </div>
    </div>
</div>
<?php endforeach; ?>
</div>
</div>

```

Controller

```

public function index()
{
    $departments = DB::table('departments')->where('id', '<>', '0')->get();
    $admin_menu = AdminMenu::all();
    $news = DB::table('announcements')
            ->orderBy('postDate', 'desc')
            ->get();
    $achievement = DB::table('achievements')
            ->orderBy('Date', 'desc')

```

```

        ->get();

$homearray = [];
$homearray['departments'] = $departments;
$homearray['admin_menu'] = $admin_menu;
$homearray['news'] = $news;
$homearray['achievement'] = $achievement;
return View('Home', compact('homearray'));
}

```

Announcement

Blade

```

<div class="container announcement-container">
    <div class="row">
        <div class="col-sm-12">
            <div class="card announcement-card" style="width:50%">
                <div class="card-header">
                    <div class="row">
                        
                    </div>
                    <div class="row">
                        <h4 style="margin:auto;">
                            @foreach ($data as $item)
                                {{$item->newsTitle}}
                            @endforeach
                        </h4>
                    </div>
                </div>
                @foreach ($data as $value)
                    
                @endforeach

                <div class="card-body">
                    <p class="card-text"><?php echo $value->description ?></p>
                </div>
            </div>
        </div>
    </div>
</div>

```

Controller

```
public function getAnnouncementData($id){
    $departments = DB::table('departments')->where('id','<>','0')->get();
    $admin_menu = AdminMenu::all();
    $homearray = [];
    $homearray['departments'] = $departments;
    $homearray['admin_menu'] = $admin_menu;
    $data= DB::table('announcements')
        ->join('departments', 'departments.id', '=', 'announcements.deptId')
        ->where('announcements.id', '=', $id)->get();

    return view('announcement',compact('data','homearray'));
}
```

Alumni

Blade

```
<div class="container">
    <div id="heading" align="center">
        <h1 class="heading display-8">Alumni List</h1>
    </div>
    <p align="center">Type something in the input field to search the table for names , id , passing year or emails:</p>
    <input class="form-control" id="myInput" type="text" placeholder="Search..">
    <br>
    <table class="table table-bordered table-striped">
        <thead>
            <tr>
                <th>Student ID</th>
                <th>Name</th>
                <th>Department</th>
                <th>CGPA</th>
                <th>Email</th>
                <th>Passing Year</th>
                <th>Current Working Position</th>
            </tr>
        </thead>
        <tbody id="myTable">
            <?php foreach ($alumni as $alumni): ?>
            <tr>
                <td>{{$alumni->studentID}}</td>
                <td>{{$alumni->Name}}</td>
                <td>{{$alumni->deptName}}</td>
                <td>{{$alumni->cgpa}}</td>
```

```

<td>{$alumni->studentEmail}</td>
<td>{$alumni->passingYear}</td>
<td>{$alumni->currentPosition}</td>
</tr>
<?php endforeach; ?>
</tbody>
</table>
</div>

<script>
$(document).ready(function(){
  $("#myInput").on("keyup", function() {
    var value = $(this).val().toLowerCase();
    $("#myTable tr").filter(function() {
      $(this).toggle($(this).text().toLowerCase().indexOf(value) > -1)
    });
  });
});

```

Controller

```

public function alumni(){
    $alumni = DB::table('alumnis')
        ->join('departments', 'alumnis.deptID', '=', 
'departments.id')
        ->orderBy('alumnis.passingYear', 'desc')
        ->get();
    $departments = DB::table('departments')->where('id', '<>', '0')->get();
    $admin_menu = AdminMenu::all();
    $homearray = [];
    $homearray['departments'] = $departments;
    $homearray['admin_menu'] = $admin_menu;
    return View('Alumni', compact('alumni', 'homearray'));
    // return view('Alumni');
}

```

Event

Blade

```

<div class="container title-container">
  <div class="row welcome text-center">
    <div class="col-sm-12">
      <h3>

```

```

        @foreach ($arr['query1'] as $key) {{$key->eventTitle}}
@endforeach
    </h3>
</div>
</div>
</div>
<!--Event Date -->
<div class="container date-container">
    <div class="row welcome text-center">
        <div class="col-sm-12">
            <p>
                @foreach ($arr['query1'] as $key) {{$key->date}} @endforeach
            </p>
        </div>
    </div>
</div>

<!-- Event Image Slide -->
<div class="container carousel-container">
    <div class="row">
        <div class="col-sm-12">
            <div id="mycarousel" class="carousel slide" data-ride="carousel">
                <ol class="carousel-indicators">
                    <!--<li data-target="#mycarousel" data-slide-to="0"
class="active"></li>
                    <li data-target="#mycarousel" data-slide-to="1"></li>
                    <li data-target="#mycarousel" data-slide-to="2"></li> -->
                </ol>
                <div class="carousel-inner">
                    <div class="carousel-item active">
                        
                    </div>
                </div>
                <!--<a class="carousel-control-prev" href="#mycarousel"
role="button" data-slide="prev">
                    <span class="carousel-control-prev-icon" aria-
hidden="true"></span>
                    <span class="sr-only">Previous</span>
                </a>
                <a class="carousel-control-next" href="#mycarousel" role="button"
data-slide="next">
                    <span class="carousel-control-next-icon" aria-
hidden="true"></span>
                    <span class="sr-only">Next</span>
                </a>
            </div>
        </div>
    </div>
</div>

```

```

        </a> -->
    </div>
</div>
</div>
<!-- Event Description -->
<div class="container card-container">
    <div class="row">
        <div class="col-12 col-sm-12 col-md-6 col-lg-8 col-xl-8">
            <div class="card event-card">
                <div class="card-header">Description</div>
                <div class="card-body">
                    <h5 class="card-title" id="eventName">
                        @foreach ($arr['query1'] as $key) {{$key->eventTitle}}
@endforeach
                    </h5>
                    <p class="card-text" id="eventDescription">
                        @foreach ($arr['query1'] as $key)
                            <?php echo $key->description ?> @endforeach
                    </p>
                </div>
            </div>
        </div>
        <!-- Important Notice -->
        <div class=" col-12 col-sm-12 col-md-6 col-lg-4 col-xl-4">
            <div class="card table-card">
                <div class="card-header">Important Notice</div>
                <div class="card-body">
                    <table class="table table-hover">
                        <thead>
                            <tr>
                                <!-- <th scope="col">#</th> -->
                                <th scope="col">Important News</th>
                            </tr>
                        </thead>
                        <tbody>
                            <tr>
                                <td>
                                    @foreach ($arr['query2'] as $key) {{$key-
>impNotice}} @endforeach
                                </td>
                            </tr>
                        </tbody>
                    </table>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

</div>
<!-- Downloadable Links -->
<div class="card required-file" id="reqFiles">
    <div class="card-header">Required Files</div>
    <div class="card-body">
        <table class="table table-hover">
            <thead>
                <tr>
                    <!-- <th scope="col">File Name </th> -->
                    <th scope="col">file</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <!-- <th scope="row">notice</th> -->
                    <td>
                        @foreach ($arr['query2'] as $key)
                            <button type="button" class="btn btn-link">{{ $key->file }}</button> @endforeach
                    </td>
                </tr>
            </tbody>
        </table>
    </div>
</div>
<!--Registration Links -->
<div class="container">
    <div class="row">
        <div class="col-12 col-sm-12 col-md-6 col-lg-8 col-xl-8">
            <div class="card reg-card">
                <div class="card-header">Registration Links :</div>
                <div class="card-body" id="regLinks">
                    @foreach ($arr['query1'] as $key)
                        <a href="{{ $key->regLink }}>{{ $key->regLink }}</a> @endforeach
                </div>
            </div>
        </div>
    </div>
</div>

```

Controller

```
public function getEventData($id){

    $departments = DB::table('departments')->where('id','<>','0')->get();
    $admin_menu = AdminMenu::all();
    $homearray = [];
    $homearray['departments'] = $departments;
    $homearray['admin_menu'] = $admin_menu;

    $query1= DB::table('events')
        ->join('upcoming_events','events.id','=','upcoming_events.eventId')
        ->where('events.id',$id)->get();

    $query2= DB::table('event_docs')
        ->join('events','events.id','=','event_docs.eventId')
        ->select('events.*','event_docs.*')
        ->where('events.id',$id)->get();

    $arr = [];
    $arr['query1'] = $query1 ;
    $arr['query2'] = $query2;

    return view('event',compact('arr','homearray'));

}
```

Faculty

Blade

```
<div class="container">
<div class="row text-center">
    <div class="col-12 col-sm-12 col-md-12 col-lg-12 col-xl-12">
        <?php foreach ($dept as $dept): ?>
        <h6 class="display-4 py-3 custom-underline">{$dept->deptName}</h6>
        <?php endforeach; ?>
    </div>
</div>
</div>
<!-- FACULTY TITLE END-->

<div class="container">
```

```

@foreach($facultymember as $facultymember)


<div class="col-12 col-sm-12 col-md-4 col-lg-4 col-xl-4 fimg">
        <img src=..\\img\\employee\\{$facultymember->employeeImg}" class="rounded float-right text-sm-center" alt="">
    </div>

    <div class="col-12 col-sm-12 col-md-8 col-lg-8 col-xl-8">
        <h3 class="text-left">{$facultymember->Name}</h3>
        <p class="text-left" id="designation">{$facultymember->positionName}</p>
        <p class="text-left">Email: {$facultymember->employeeEmail}</p>

        <p>
            <a class="btn btn-primary" id="custom-button" data-toggle="collapse" href="#edu{$facultymember->id}" role="button" aria-expanded="false" aria-controls="collapseExample">Education</a>
            <a class="btn btn-primary" id="custom-button" data-toggle="collapse" href="#exp{$facultymember->id}" role="button" aria-expanded="false" aria-controls="collapseExample">Experience</a>
            <a class="btn btn-primary" id="custom-button" data-toggle="collapse" href="#pub{$facultymember->id}" role="button" aria-expanded="false" aria-controls="collapseExample">Publications</a>
            <a class="btn btn-primary" id="custom-button" data-toggle="collapse" href="#aoi{$facultymember->id}" role="button" aria-expanded="false" aria-controls="collapseExample">Area of Interest</a>
        </p>
        <hr class="style9">
        <div class="collapse" id="edu{$facultymember->id}">
            <div class="card card-body">
                {$facultymember->Education}
            </div>
            <div class="collapse" id="exp{$facultymember->id}">
                <div class="card card-body">
                    <?php echo $facultymember->Experience ?>
                </div>
            <div class="collapse" id="pub{$facultymember->id}">
                <div class="card card-body">
                    {$facultymember->Publications}
                </div>
                <div class="collapse" id="aoi{$facultymember->id}">
                    <div class="card card-body">
                        {$facultymember->AreaofInterest}
                    </div>
                </div>
            </div>
        </div>
    </div>


```

```

        </div>
    </div>
    <!-- IDENTIFICATION END -->
</div>
</div>
</div>

```

Controller

```

public function faculty($id){
    $departments = DB::table('departments')->where('id','<>','0')->get();
    $admin_menu = AdminMenu::all();
    $homearray = [];
    $homearray['departments'] = $departments;
    $homearray['admin_menu'] = $admin_menu;
    $dept = DB::table('departments')->where('id',$id)->get();
    $facultymember = DB::table('employees')
        // ->join('employees', 'employees.positionID', '=',
    'employee_positions.id')
        // ->leftJoin('employee_positions', 'employee_positions.id',
    '=' , 'employees.positionID')
        // ->select('employees.*', 'employee_positions.*')
        // ->orderBy('employees.positionID', 'asc')
        // ->where('deptID',$id)
        // ->get();
    return View('FacultyMember', compact('homearray','facultymember','dept'));
}

```

APPENDIX B

Code of main features for admin panel

Blade

```
<h2>Dashboard</h2>

<div class="d-flex flex-row mt-2">
    <div style="width: 15%">
        <ul class="nav nav-tabs nav-tabs--vertical nav-tabs--left"
            role="navigation">
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'achievement'])}}"
                    class="nav-link active">Achievements</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'austlife'])}}"
                    class="nav-link active">Life at aust</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' =>
                    'admin_categories'])}}"
                    class="nav-link active">Admin Categories</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'admin_menus'])}}"
                    class="nav-link active">Admin Menus</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'alumnis'])}}"
                    class="nav-link active">Alumnis</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'departments'])}}"
                    class="nav-link active">Departments</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'dept_heads'])}}"
                    class="nav-link active">Dept Heads</a>
            </li>
            <li class="nav-item">
                <a href="{{route('dashboard',['tab' => 'employees'])}}"
                    class="nav-link active">Employees</a>
            </li>
            <li class="nav-item">
```

```

        <a href="{{route('dashboard',['tab' => 'employee_positions'])}}"
            class="nav-link active">Employee Positions</a>
        </li>
        <li class="nav-item">
            <a href="{{route('dashboard',['tab' => 'events'])}}"
                class="nav-link active">Events</a>
        </li>
        <li class="nav-item">
            <a href="{{route('dashboard',['tab' => 'event_docs'])}}"
                class="nav-link active">Event_docs</a>
        </li>
        <li class="nav-item">
            <a href="{{route('dashboard',['tab' => 'semester_doc'])}}"
                class="nav-link active">Semester Docs</a>
        </li>
        <li class="nav-item">
            <a href="{{route('dashboard',['tab' => 'library_details'])}}"
                class="nav-link active">Library Details</a>
        </li>
    </ul>
</div>

<div class="tab-content" style="width: 90%;">

    <div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='achievement') active
@endif" role="tabpanel">

        <div class="row col-lg-12 col-md-12">
            <div class="col-lg-4 col-md-4">
                <h1>Add Achievement</h1>
                <form enctype="multipart/form-data" method="POST" action
= "{{route('save_achievement')}}">
                    <div class="form-group">
                        <label for="namefield">Title</label>
                        <input type="text" name="title" class="form-
control" id="titlefield" placeholder="Title">
                    </div>
                    <div class="form-group">
                        <label for="imagefield">Upload an image</label>
                        <input type="file" name="image" class="form-
control-file" id="imagefield">
                    </div>
                    <div class="form-group">

```

```

        <label for="edutextrea">Description</label>
        <textarea name="achievement_description"
class="form-control" id="achievement_description" rows="3"></textarea>
    </div>

    <div class="form-group">
        <label for="achievement_date">Achievement Date:</label>
        <input type="date" name="achievement_date"
class="form-control" id="achievement_date">
    </div>
        <input type="hidden" name="_token" value="{{
csrf_token() }}">

        <button type="submit" class="btn btn-primary">Save</button>
    </form>
</div>
<div class="col-lg-8 col-md-8" style="text-align: center">
    <h1>Achievements</h1>
    <table class="table">
        <thead>
            <tr>
                <th scope="col">#</th>
                <th scope="col">Title</th>
                <th scope="col">Edit</th>
                <th scope="col">Delete</th>
            </tr>
        </thead>
        <tbody>
            @foreach($achievements as $achievement)
            <tr>
                <th scope="row">{{$achievement->id}}</th>
                <td>{{$achievement->Title}}</td>
                <td>
                    <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#achievement{{$achievement->id}}">
                        Edit
                    </button>
                </td>
                <td><a href="{{route('delete_achievement',['id' => $achievement->id])}}>Delete</a></td>
            <td>

```

```

                <div class="modal fade"
id="achievement{{$achievement->id}}" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLongTitle" aria-hidden="true">
                    <div class="modal-dialog"
role="document">
                        <form enctype="multipart/form-
data" method="POST" action = "{{route('update_achievement')}}">
                            <input type="hidden"
name="achievement_id" value="{{$achievement->id}}">
                            <div class="modal-content">
                                <div class="modal-
header">
                                    <h5 class="modal-
title" id="exampleModalLongTitle">Modal title</h5>
                                    <button type="button"
class="close" data-dismiss="modal" aria-label="Close">
                                        <span aria-
hidden="true">&times;</span>
                                    </button>
                                </div>
                                <div class="modal-body">
                                    <div class="form-
group">
                                        <label
for="namefield">Title</label>
                                        <input
type="text" name="title" value="{{$achievement->Title}}" class="form-control"
id="namefield" placeholder="Name">
                                    </div>
                                    <div class="form-
group">
                                        
                                        <label
for="imagefield">Upload an image</label>
                                        <input
type="file" name="image" class="form-control-file" id="imagefield">
                                    </div>
                                    <div class="form-
group">
                                        <label
for="edutextrea">Description</label>

```

```

<textarea
name="achievement_description" class="form-control" id="edutextrea"
rows="3"><{$achievement->Description}></textarea>
</div>
<input type="hidden"
name="_token" value="{{ csrf_token() }}">

</div>
<div class="modal-
footer">
<button type="submit"
class="btn btn-primary">Save</button>
<button type="button"
class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</div>
</form>
</div>

</div>
</td>
</tr>

@endforeach

</tbody>
</table>
</div>

</div>

</div>
{{--Departments--}}


<div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='departments') active
@endif" role="tabpanel">

<div class="row col-lg-12 col-md-12">

```

```

<div class="col-lg-4 col-md-4">
    <h1>Add Department</h1>
    <form enctype="multipart/form-data" method="POST" action
= "{{route('save_department')}}">
        <div class="form-group">
            <label for="dept_name">Name</label>
            <input type="text" name="dept_name" class="form-
control" id="dept_name">
        </div>
        <div class="form-group">
            <label for="dept_short_name">Short name</label>
            <input type="text" name="dept_short_name"
class="form-control" id="dept_short_name" placeholder="Short name">
        </div>
        <div class="form-group">
            <label for="about_dept">About Department</label>
            <textarea name="about_dept" class="form-control"
id="about_dept" rows="3"></textarea>
        </div>
        <input type="hidden" name="_token" value="{{
csrf_token() }}">

        <button type="submit" class="btn btn-
primary">Save</button>
    </form>
</div>
<div class="col-lg-8 col-md-8" style="text-align: center">
    <h1>Departments</h1>
    <table class="table">
        <thead>
            <tr>
                <th scope="col">#</th>
                <th scope="col">Name</th>
                <th scope="col">Edit</th>
                <th scope="col">Delete</th>
            </tr>
        </thead>
        <tbody>
            @foreach($departments as $department)
            <tr>
                <th scope="row">{{$department->id}}</th>
                <td>{{$department->deptName}}</td>
                <td>
                    <button type="button" class="btn btn-
primary" data-toggle="modal" data-target="#achievement{{$department->id}}">

```

```

          Edit
        </button>
      </td>
      <td><a
href="{{route('delete_department',['id' => $department->id])}}>Delete</a></td>

      <td>
        <div class="modal fade"
id="achievement{{$department->id}}" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLongTitle" aria-hidden="true">
          <div class="modal-dialog"
role="document">
            <form enctype="multipart/form-
data" method="POST" action = "{{route('update_department')}}">
              <input type="hidden"
name="department_id" value="{{$department->id}}">
              <div class="modal-content">
                <div class="modal-
header">
                  <h5 class="modal-
title" id="exampleModalLongTitle">Modal title</h5>
                  <button type="button"
class="close" data-dismiss="modal" aria-label="Close">
                    <span aria-
hidden="true">&times;</span>
                  </button>
                </div>
                <div class="modal-body">
                  <div class="form-
group">
                    <label
for="namefield">Title</label>
                    <input
type="text" name="dept_name" value="{{$department->deptName}}" class="form-
control" id="namefield" placeholder="Name">
                  </div>
                  <div class="form-
group">
                    <label
for="dept_short_name">Short name</label>
                    <input
type="text" name="dept_short_name" class="form-control" value="{{$department-
>deptshortName}}" id="dept_short_name" placeholder="Short name">
                  </div>

```

```

<div class="form-group">
    <label for="edutextrea">Description</label>
    <textarea name="about_dept" class="form-control" id="edutextrea" rows="3">{{ $department->aboutDept }}</textarea>
    <input type="hidden" name="_token" value="{{ csrf_token() }}>
</div>
<div class="modal-footer">
    <button type="submit" class="btn btn-primary">Save</button>
    <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</form>
</div>
</td>
</tr>

@endforeach

</tbody>
</table>
</div>

</div>
</div>
{{--Semesters--}}

```

```

        <div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='semester_doc') active
@endif" role="tabpanel">

        <div class="row col-lg-12 col-md-12">
            <div class="col-lg-4 col-md-4">
                <h1>Add a Doc</h1>
                <form enctype="multipart/form-data" method="POST" action
= "{{route('save_semester_doc')}}">
                    <div class="form-group">
                        <label for="dept_name">Department</label>
                        <select class="form-control" name="department">
                            @foreach($departments as $department)
                                <option value="{{{$department-
>id}}}">{{$department->deptName}}</option>
                            @endforeach
                        </select>
                    </div>
                    <div class="form-group">
                        <label for="semester_name">Semester Name</label>
                        <input type="text" name="semester_name"
class="form-control" id="semester_name">
                    </div>
                    <div class="form-group">
                        <label for="class_routine">Upload class
routine</label>
                        <input type="file" name="class_routine"
class="form-control-file" id="class_routine">
                    </div>
                    <div class="form-group">
                        <label for="class_routine">Upload lab
manual</label>
                        <input type="file" name="lab_manual" class="form-
control-file" id="class_routine">
                    </div>
                    <div class="form-group">
                        <label for="class_routine">Upload courses</label>
                        <input type="file" name="courses" class="form-
control-file" id="class_routine">
                    </div>
                    <input type="hidden" name="_token" value="{{
csrf_token() }}">
                <button type="submit" class="btn btn-
primary">Save</button>
            </div>
        </div>
    </div>

```

```

        </form>
    </div>
<div class="col-lg-8 col-md-8" style="text-align: center">
    <h1>All Docs</h1>
    <table class="table">
        <thead>
            <tr>
                <th scope="col">#</th>
                <th scope="col">Semester Name</th>
                <th scope="col">Edit</th>
                <th scope="col">Delete</th>
            </tr>
        </thead>
        <tbody>
            @foreach($semesters as $semester)
            <tr>
                <th scope="row">{{$semester->id}}</th>
                <td>{{$semester->semester_name}}</td>
                <td>
                    <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#semester{{$semester->id}}">
                        Edit
                    </button>
                </td>
                <td><a href="{{route('delete_semester',[ 'id' => $semester->id])}}>Delete</a></td>

                <td>
                    <div class="modal fade" id="semester{{$semester->id}}" tabindex="-1" role="dialog" aria-labelledby="exampleModalLongTitle" aria-hidden="true">
                        <div class="modal-dialog" role="document">
                            <form enctype="multipart/form-data" method="POST" action = "{{route('save_semester_doc')}}">
                                <input type="hidden" name="semester_id" value="{{$semester->id}}">
                                <div class="modal-content">
                                    <div class="modal-header">
                                        <h5 class="modal-title" id="exampleModalLongTitle">Modal title</h5>
                                    <button type="button" class="close" data-dismiss="modal" aria-label="Close">

```

```

<span aria-
hidden="true">&times;</span>
</button>
</div>
<div class="modal-body">

<div class="form-
group">
<label
for="dept_name">Department</label>
<select
class="form-control" name="department">

@foreach($departments as $department)
@if($department->id == $semester->deptID) selected @endif value="{{$department-
>id}}>{{$department->deptName}}</option>
@endforeach
</select>
</div>
<div class="form-
group">
<label
for="semester_name">Semester Name</label>
<input
type="text" name="semester_name" value="{{$semester->semester_name}}"
class="form-control" id="semester_name">
</div>
<div class="form-
group">
<label
for="class_routine">Upload class routine</label>
<input
type="file" name="class_routine" class="form-control-file" id="class_routine">
</div>
<div class="form-
group">
<label
for="class_routine">Upload lab manual</label>
<input
type="file" name="lab_manual" class="form-control-file" id="class_routine">
</div>
<div class="form-
group">

```

```

<label
for="class_routine">Upload courses</label>
<input
type="file" name="courses" class="form-control-file" id="class_routine">
</div>
<input type="hidden"
name="_token" value="{{ csrf_token() }}">

</div>
<div class="modal-
footer">
<button type="submit"
class="btn btn-primary">Save</button>
<button type="button"
class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</div>
</form>
</div>

</div>
</td>
</tr>

@endforeach

</tbody>
</table>
</div>

</div>

</div>

<div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='austlife') active @endif"
role="tabpanel">

<h1>Aust Life</h1>

```

```

        </div>

        {{--Admin Menus--}}


        <div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='admin_menus') active
@endif" role="tabpanel">

            <div class="row col-lg-12 col-md-12">
                <div class="col-lg-4 col-md-4">
                    <h1>Add Admin Menus</h1>
                    <form enctype="multipart/form-data" method="POST" action
= "{{route('save_adminMenu')}}">
                        <div class="form-group">
                            <label for="admin_menu_name">Menu Name</label>
                            <input type="text" name="admin_menu_name"
class="form-control" id="admin_menu_name">
                            </div>
                            <input type="hidden" name="_token" value="{{
csrf_token() }}">

                        <button type="submit" class="btn btn-
primary">Save</button>
                    </form>
                </div>
                <div class="col-lg-8 col-md-8" style="text-align: center">
                    <h1>Admin Menus</h1>
                    <table class="table">
                        <thead>
                            <tr>
                                <th scope="col">#</th>
                                <th scope="col">Admin Menus</th>
                                <th scope="col">Edit</th>
                                <th scope="col">Delete</th>
                            </tr>
                        </thead>
                        <tbody>
                            @foreach($admin_menus as $admin_menu)
                                <tr>
                                    <th scope="row">{{$admin_menu->id}}</th>
                                    <td>{{$admin_menu->adminMenuName}}</td>
                                    <td>
                                        <button type="button" class="btn btn-
primary" data-toggle="modal" data-target="#admin_menu{{ $admin_menu->id}}">
                                            Edit

```

```

                </button>
            </td>
            <td><a href="{{route('delete_adminMenu',['id'=> $admin_menu->id])}}>Delete</a></td>

            <td>
                <div class="modal fade" id="admin_menu{{$admin_menu->id}}" tabindex="-1" role="dialog" aria-labelledby="exampleModalLongTitle" aria-hidden="true">
                    <div class="modal-dialog" role="document">
                        <form enctype="multipart/form-data" method="POST" action="{{route('update_admin_menu')}}">
                            <input type="hidden" name="adminMenu_id" value="{{$admin_menu->id}}>
                            <div class="modal-content">
                                <div class="modal-header">
                                    <h5 class="modal-title" id="exampleModalLongTitle">Modal title</h5>
                                    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                                        <span aria-hidden="true">&times;</span>
                                    </button>
                                </div>
                                <div class="modal-body">
                                    <div class="form-group">
                                        <label for="namefield">Admin Menu</label>
                                        <input type="text" name="admin_menu_name" value="{{$admin_menu->adminMenuName}}" class="form-control" id="namefield" placeholder="Name">
                                        </div>
                                        <input type="hidden" name="_token" value="{{ csrf_token() }}>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </td>
        </tr>
    </table>

```

```

        <button type="submit"
class="btn btn-primary">Save</button>
        <button type="button"
class="btn btn-secondary" data-dismiss="modal">Close</button>
    </div>
</div>
</form>
</div>

    </div>
</td>
</tr>

@endforeach

    </tbody>
</table>
</div>

</div>

</div>

{{--Events--}}


<div class="tab-pane fade show
@if(\Illuminate\Support\Facades\Session::get('tab')=='events') active @endif"
role="tabpanel">

    <div class="row col-lg-12 col-md-12">
        <div class="col-lg-4 col-md-4">
            <h1>Add Admin Menus</h1>
            <form enctype="multipart/form-data" method="POST" action
= "{{route('save_update_event')}}">
                <div class="form-group">
                    <label for="event_title">Event Title</label>
                    <input type="text" name="event_title_name"
class="form-control" id="event_title">
                </div>
                <div class="form-group">
                    <label for="event_des">Description</label>

```

```

        <input type="text" name="event_des_name"
class="form-control" id="event_des">
    </div>
    <div class="form-group">
        <label for="event_link">Registration Link</label>
        <input type="text" name="event_link_name"
class="form-control" id="event_link">
    </div>
    <div class="form-group">
        <label for="event_page_link">Page Link</label>
        <input type="text" name="event_page_link_name"
class="form-control" id="event_page_link">
    </div>
    <input type="hidden" name="_token" value="{{
csrf_token() }}">

        <button type="submit" class="btn btn-
primary">Save</button>
    </form>
</div>
<div class="col-lg-8 col-md-8" style="text-align: center">
    <h1>Events</h1>
    <table class="table">
        <thead>
            <tr>
                <th scope="col">#</th>
                <th scope="col">Events</th>
                <th scope="col">Page Link</th>
                <th scope="col">Events</th>
                <th scope="col">Edit</th>
                <th scope="col">Delete</th>
            </tr>
        </thead>
        <tbody>
            @foreach($events as $event)
            <tr>
                <th scope="row">{{$event->id}}</th>
                <td>{{$event->eventTitle}}</td>
                <td>{{$event->regLink}}</td>
                <td>{{$event->pageLink}}</td>
                <td>
                    <button type="button" class="btn btn-
primary" data-toggle="modal" data-target="#event{{$event->id}}">
                        Edit
                    </button>
                </td>
            </tr>
        @endforeach
    </tbody>
</table>

```

```

        </td>
        <td><a href="{{route('delete_events',['id' =>
$event->id])}}>Delete</a></td>

        <td>
            <div class="modal fade"
id="event{{$event->id}}" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLongTitle" aria-hidden="true">
                <div class="modal-dialog"
role="document">
                    <form enctype="multipart/form-
data" method="POST" action = "{{route('save_update_event')}}">
                        <input type="hidden"
name="event_id" value="{{$event->id}}">
                        <div class="modal-content">
                            <div class="modal-
header">
                                <h5 class="modal-
title" id="exampleModalLongTitle">Modal title</h5>
                                <button type="button"
class="close" data-dismiss="modal" aria-label="Close">
                                    &times;</span>
                                </button>
                            </div>
                            <div class="modal-body">
                                <div class="form-
group">
                                    <label
for="namefield">Event Title</label>
                                    <input
type="text" name="event_title_name" value="{{$event->eventTitle}}" class="form-
control" id="namefield" placeholder="Name">
                                </div>
                                <div class="form-
group">
                                    <label
for="edutextrea">Description</label>
                                    <textarea
name="event_des_name" class="form-control" id="achievement_description"
rows="3">{{$event->description}}</textarea>
                                </div>
                                <div class="form-
group">

```

```

<label
for="namefield">Registration Link</label>
<input
type="text" name="event_link_name" value="{{ $event->regLink }}" class="form-
control" id="namefield" placeholder="Name">
</div>
<div class="form-
group">
<label
for="namefield">Page Link</label>
<input
type="text" name="event_page_link_name" value="{{ $event->pageLink }}" class="form-
control" id="namefield" placeholder="Name">
</div>
<input type="hidden"
name="_token" value="{{ csrf_token() }}>

</div>
<div class="modal-
footer">
<button type="submit"
class="btn btn-primary">Save</button>
<button type="button"
class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</div>
</form>
</div>

</div>
</td>
</tr>

@endforeach

</tbody>
</table>
</div>

</div>

```

```

        </div>

    </div>

    </div>
<script
src="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
```

Controller

```

public function admin_login(Request $request) {
    $credentials = $request->only('email', 'password');

    echo $request->email;
    echo $request->password;

    if (Auth::attempt($credentials)) {
        // Authentication passed...
        return redirect()->intended('dashboard');
    } else {
        echo "password wrong";
    }
}

public function dashboard($tab = 'faculty', Request $request) {

    $achievements = Achievement::all();
    $departments = Department::all();
    $semesters = Semester::all();
    $admin_menus = AdminMenu::all();
    $events = Event::all();

    $request->session()->forget('tab');
    $request->session()->put('tab',$tab);

    return view('dashboard', compact(['achievements',
    'departments','semesters','admin_menus','events']));
}
```

```

public function saveAchievement(Request $request) {
    $achievement = new Achievement();
    $achievement->Title = $request->title;

    if ($request->hasFile('image')) {
        $imageName = time().'.'.request()->image-
>getClientOriginalExtension();
        request()->image->move(public_path(), $imageName);
        $achievement->titleImg = $imageName;
    }

    $achievement->description = $request->achievement_description;

    $achievement->Date = $request->achievement_date;

    $achievement->save();

    return redirect()->back();
}

public function updateAchievement(Request $request) {
    $achievement = Achievement::find($request->achievement_id);
    $achievement->Title = $request->title;

    if ($request->hasFile('image')) {
        $imageName = time().'.'.request()->image-
>getClientOriginalExtension();
        request()->image->move(public_path(), $imageName);
        $achievement->titleImg = $imageName;
    }

    $achievement->description = $request->achievement_description;

    $achievement->Date = $request->achievement_date;

    $achievement->save();

    return redirect()->back();
}

public function delete_achievement($id = null) {

```

```

        $achievement = Achievement::find($id);
        $achievement->delete();
        return redirect()->back();

    }

    public function save_department(Request $request) {

        $department = new Department();

        $department->deptName = $request->dept_name;
        $department->deptshortName = $request->dept_short_name;
        $department->aboutDept = $request->about_dept;

        $department->save();

        return redirect()->back();

    }

    public function save_adminMenu(Request $request) {
        $admin_menu = new AdminMenu();
        $admin_menu->adminMenuName = $request->admin_menu_name;
        $admin_menu->save();
        return redirect()->back();

    }

    public function save_update_event(Request $request) {
        if ($request->event_id) {
            $event = Event::find($request->event_id);
        } else {
            $event = new Event();
        }
        $event->eventTitle = $request->event_title_name;
        $event->description = $request->event_des_name;
        $event->regLink = $request->event_link_name;
        $event->pageLink = $request->event_page_link_name;
        $event->save();
        return redirect()->back();
    }

    public function delete_department($id = null) {

```

```

$department = Department::find($id);

$department->delete();

return redirect()->back();

}

public function delete_events($id = null) {
    $event = Event::find($id);
    DB::table('event_docs')->where('eventId',$id)->delete();
    DB::table('upcoming_events')->where('eventId',$id)->delete();
    $event->delete();
    return redirect()->back();
}

public function delete_adminMenu($id = null) {
    $admin_menu = AdminMenu::find($id);
    $admin_menu->delete();
    return redirect()->back();
}

public function update_admin_menu(Request $request) {

    $admin_menu = AdminMenu::find($request->adminMenu_id);

    $admin_menu->adminMenuName = $request->admin_menu_name;

    $admin_menu->save();

    return redirect()->back();

}

public function update_department(Request $request) {

    $department = Department::find($request->department_id);

    $department->deptName = $request->dept_name;
    $department->deptshortName = $request->dept_short_name;
    $department->aboutDept = $request->about_dept;

    $department->save();

    return redirect()->back();
}

```

```

}

public function delete_semester($id = null) {
    $semester = Semester::find($id);
    $semester->delete();
    return redirect()->back();
}

public function save_or_update_semester_doc(Request $request) {

    if($request->semester_id) $semester = Semester::find($request-
>semester_id);

    else $semester = new Semester();

    $semester->deptID = $request->department;

    $semester->semester_name = $request->semester_name;

    if ($request->hasFile('class_routine')) {
        $fileName = time().'.'.request()->class_routine-
>getClientOriginalExtension();
        request()->class_routine->move('D:\4th year 1st semester',
$fileName);
        $semester->class_routine = $fileName;

    }
    if ($request->hasFile('lab_manual')) {
        $fileName = time().'.'.request()->lab_manual-
>getClientOriginalExtension();
        request()->lab_manual->move(public_path('pdf'), $fileName);
        $semester->lab_manual = $fileName;

    }
    if ($request->hasFile('courses')) {
        $fileName = time().'.'.request()->courses-
>getClientOriginalExtension();
        request()->courses->move(public_path('pdf'), $fileName);
        $semester->courses = $fileName;

    }
    $semester->save();
}

```

Bibliography

References

1. <http://www.northsouth.edu/> , Last visited on 5th March 2018
2. <https://www.bracu.ac.bd/> , Last visited on 5th March 2018
3. <http://www.ox.ac.uk/> , Last visited on 5th March 2018
4. <https://www.stanford.edu/> , Last visited on 5th March 2018
5. <https://www.w3schools.com/html/> , Last visited on 25th April 2018
6. <https://www.w3schools.com/css/> , Last visited on 25th April 2018
7. <https://sass-lang.com/> , Last visited on 25th April 2018
8. <https://getbootstrap.com/> , Last visited on 25th April 2018
9. <https://www.w3schools.com/js/> , Last visited on 7th June 2018
10. <https://laravel.com/> , Last visited on 13th September 2018
11. <https://www.mysql.com/> , Last visited on 13th November 2018
12. <https://atom.io/> , Last visited on 23th November 2018
13. <https://www.sketchapp.com/> , Last visited on 20th March 2018
14. <https://products.office.com/en/visio/flowchart-software> , Last visited on 15th May 2018
15. <https://www.wappalyzer.com> , Last visited on 17th May 2018
16. <http://www.aust.edu>, Last visited on 17th May 2018.