

ACADEMIC RESOURCE MANAGEMENT

By

SYED ABDUL KADER

ID: 162-15-7960

AZMAIN AL AHMED

ID: 162-15-8191

MOHAMMAD YOUNUS ABEDIN

ID: 162-15-8215

The Report Written in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

Supervised By

MOHAMMAD MASUDUR RAHMAN

Lecturer

Department of CSE

Daffodil International University

Co-Supervised By

ABDUS SATTAR

Assistant Professor

Department of CSE

Daffodil International University



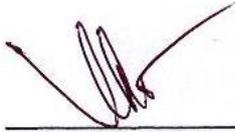
**DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH**

MAY 2019

APPROVAL

This Project titled “**Academic Resource Management**”, submitted by Azmain Al Ahmed, ID No: 162-15-8191, Mohammad Younus Abedin, ID No: 162-15-8215 and Syed Abdul Kader, ID No: 162-15-7960 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 2nd May 2019.

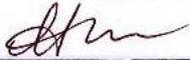
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Professor and Head

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

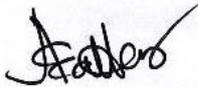
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Nazmun Nessa Moon
Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

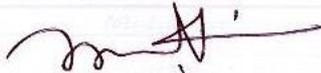
Internal Examiner



Abdus Sattar
Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Dr. Mohammad Shorif Uddin
Professor

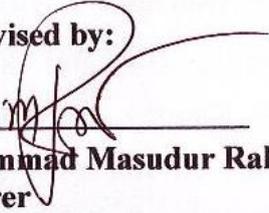
Department of Computer Science and Engineering
Jahangirnagar University

External Examiner

DECLARATION

We hereby, with all responsibility declare that, this project has been done by us under the supervision of **Mohammad Masudur Rahman**, Lecturer, **Department of CSE, Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

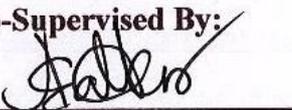
Supervised by:



Mohammad Masudur Rahman
Lecturer

Department of Computer Science and Engineering
Daffodil International University

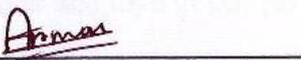
Co-Supervised By:



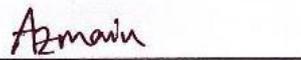
Abdus Sattar
Assistant Professor

Department of Computer Science and Engineering
Daffodil International University

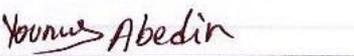
Submitted by:



Syed Abdul Kader
ID: 162-15-7960
Department of Computer Science and Engineering



Azmain Al Ahmed
ID: 162-15-8191
Department of Computer Science and Engineering



Mohammad Younus Abedin
ID: 162-15-8215
Department of Computer Science and Engineering

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Finally, we must acknowledge with due respect the constant support and patience, inspiration, prayer and love of our parents.

ABSTRACT

Nowadays peoples specially students compare a lot before getting admitted to any institute. So we are basically trying to provide them quality information of some specific institute. It will help them to take the right decision. Alongside with that they will get to know the history of the interested institute.

The prime objective of this website is, Students and interested people can look after different academic resources through internet. By this website they can find out the culture of the institute they want. They can check out the course outline of the interested department. This project is developed using PHP, JAVASCRIPT, MySQL, HTML, CSS, BOOTSTRAP.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Our website name is **Academic Resource Management**. People can look after different institute course outline on our website. It has a video section where people can check out some prime information about the institute they like to. The user can only watch and download materials from the website, where admin can add, delete or edit.

So basically people who are interested in have to login first to have the service we are providing. Then they will be able to access our website else they will only see the index page. After login into our website they will have some option to choose like they can choose video option feature option or blog option. They can also download the interested course materials they want.

1.2 Motivation

Behind choosing this project there are things that motivated us. Firstly, each member of our group were interested in Web Development. That's why we wanted to do something based on Web. Then we discussed and planned this idea of making a website where people can get different institute information. There are some website where they provide paid course on specific subject or topic. But there is few which provide different institute information at a time. So we decided to make a website which will provide people this service where they can look after so many institute at a time.

Most of the students nowadays before getting admitted to any institute compare with other as the internet is easy accessible. So if they can find out those information at a time it would be effective and time-saving.

1.3 Objectives

Currently most institute try to find out some unique course outline. So people can differentiate between by our website easily.

- Anyone will be access if they get registered.
- Use friendly website.
- No need to buy any courses, Administrator can upload materials.
- Administrator can add, delete or edit the resources.

1.4 Expected Outcome

ACADEMIC RESOURCE MANAGEMENT is a online based resource system, where people can have information about different institute and have course materials also.

As people have to check from different website for institute outlines, so it is time consuming. By choosing our website people can save their valuable time.

People can check out the culture of different institute also by our websites. So it will be helpful for the users to gather quality of knowledge about some renowned Institute. They can also see the question paper of each institute from our website.

This web application has these features given below :

- People can check the information about different institute by login.
- They do not need to pay for this information.
- People will be able to download the materials also.

1.5 Report Layout

The report is divided by five chapters. Each and every chapter allocated with different topics.

Chapter 1: Introduction

In introduction we have discussed about the reason behind choosing this project. The objectives, motivation and the outcomes by this web application.

Chapter 2: Background

In This chapter we have given information of our project related works, comparative studies, the scope of the problem and challenges.

Chapter 3: Requirement Specification

This chapter is about the requirement collecting and analysis. The logical part also described here. Like use case diagram, business process modeling.

Chapter 4: Design Specification

In this chapter we have discusses our project user interface, front design, implementation with requirements.

Chapter 5: Implementation and Testing

This is all about testing the web application if it is user friendly or not. Checking the implementation clearly is described here.

Chapter 6: Conclusion and Future Scope

This chapter discusses about the conclusion and future scope of our project.

CHAPTER 2

BACKGROUND

2.1 Introduction

ACADEMIC RESOURCE MANAGEMENT is a web application for institute information. In this chapter we are basically describing about the similar works like our web application and the challenges we have faced during making it. The problem we have faced at the beginning.

2.2 Related Works

There is some web application like ACADEMIC RESOURCE MANAGEMENT, but not exactly as it is. Because most of them give people individual institute information, where here people can check out different at the same website.

2.3 Comparative Studies

There are some websites which are providing some videos and tutorials. Coursera is one of them. These type of websites are fully paid. Now a days for information people do not want to pay as this is available on internet. ACADEMIC RESOURCE MANAGEMENT is a web application where people can get the information about their interested institute freely. This application will be efficiently time saving for students, as they can compare here. Our application basically focused on time saving and reducing providing the exact information and course outline about different institute.

2.4 Scope of the Problem

We have done the project by doing step by step. It is always difficult to find out something unique or new. So it was difficult for us also for choosing what we exactly doing. We had to make it as user friendly as we can.

2.5 Challenges

The main challenging fact was deciding the basis of the web application. Because we wanted to make something which is helpful for people. There are some websites that provide paid courses, so we had to do something new, that's was most challenging fact for us. As we are designing and developing a website so we had to have idea about HTML, CSS, BOOTSTRAP, JQUERY, JAVASCRIPT. Here also we are using MySQL database in our web application.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process modeling is the way actually how user and website response on each other command. It will show the actual iteration between user and the admin.

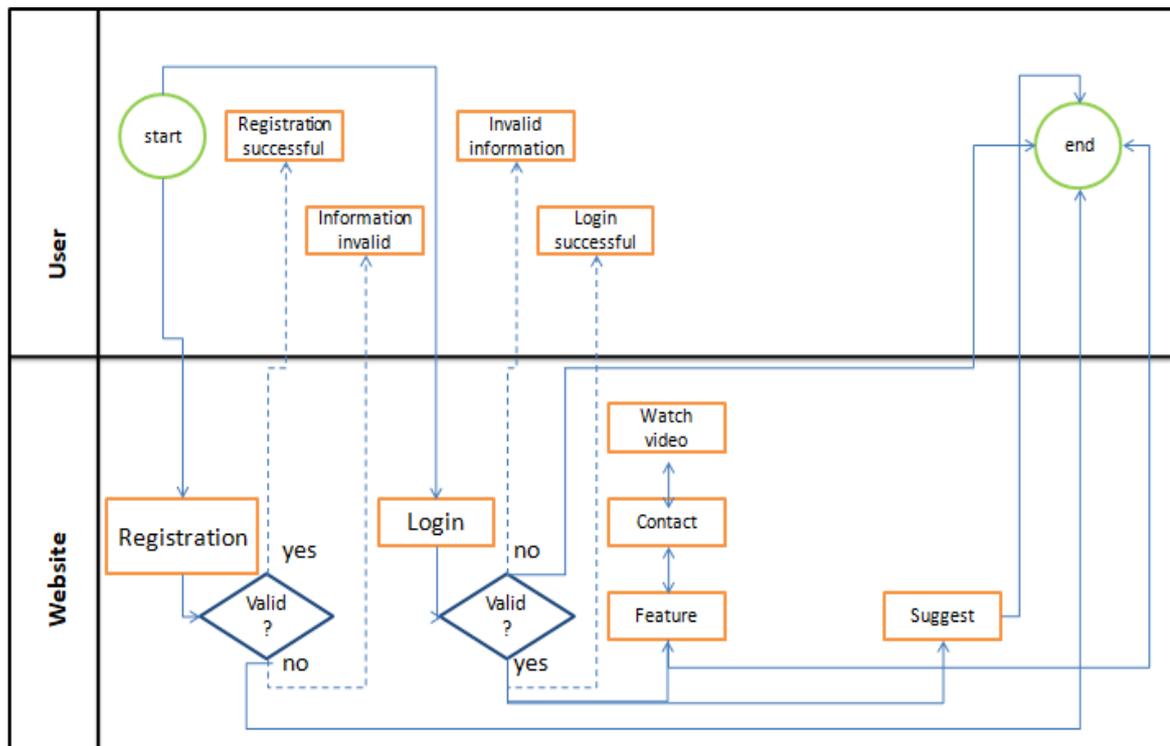


Figure 3.1: Business Process Model

3.2 Requirement Collection and Analysis

It is a part where we have find out what really we have do for making our project, which process will make our works more reliable. How to collect all the information and our project related data. There is so many techniques of gathering and collection requirements like asking question to the related user, from documentation. And we have followed most of them.

3.2.1 Requirement for Application

For making this web application we have searched so many web application similar to that, we have discussed with our supervisor a lot about the requirement. Like what will be perfect for this web application. We have asked some of the students also to know exactly what they really want to know about any institute. Had to design it for the users, so it must had to be user friendly. Thus we have gathered the requirement for the website.

3.3 Use Case Modeling and Description

Use case is most important for a project which is new and underdeveloped. It is the primary step of a new project. Use Case Diagram is a graphical presentation of interplay between user and the system.

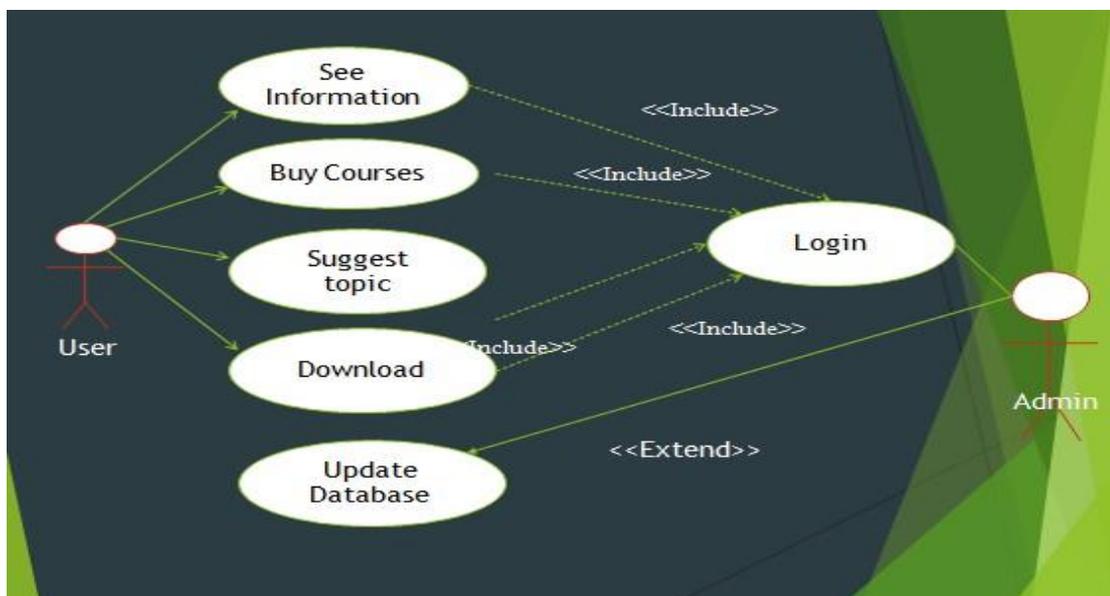


Figure 3.2: Use Case Diagram

Here the brief description about the use case:

i. Login

Brief Description: Existing user can login to our system

Actor: user

Flow of steps

- a) „Login“ is a system where people can get the service of our website by logging into.

ii. Registration

Brief Description: New user can create account with valid information.

Actor:User

Flow of steps

- a) People have to choose a username.
- b) Have to choose a valid email to create account.

iii. Download

Brief Description:User can download materials.

Actor:User

Flow of steps

- a) After login into system the use case will start.
- b) User can download materials from the website.

iv. Contact

Brief Description:User can contact with the authority.

Actor:User

Flow of steps

- a) After login into system the use case will start.
- b) User can complain or suggest about our website.

v. Features

Brief Description:User can view all the features.

Actor:User

Flow of steps

Flow of some steps are:

- a) After login into system the use case will start.
- b) After login they can see all our features and the institute information.

vi. Update Database

Brief Description:Admin has to update the registration information.

Actor: Admin

Flow of steps

- a) After login into system the use case will start.
- b) Admin can update the database and maintain.

3.4 Logical Data Model

3.4.1 Context Diagram:

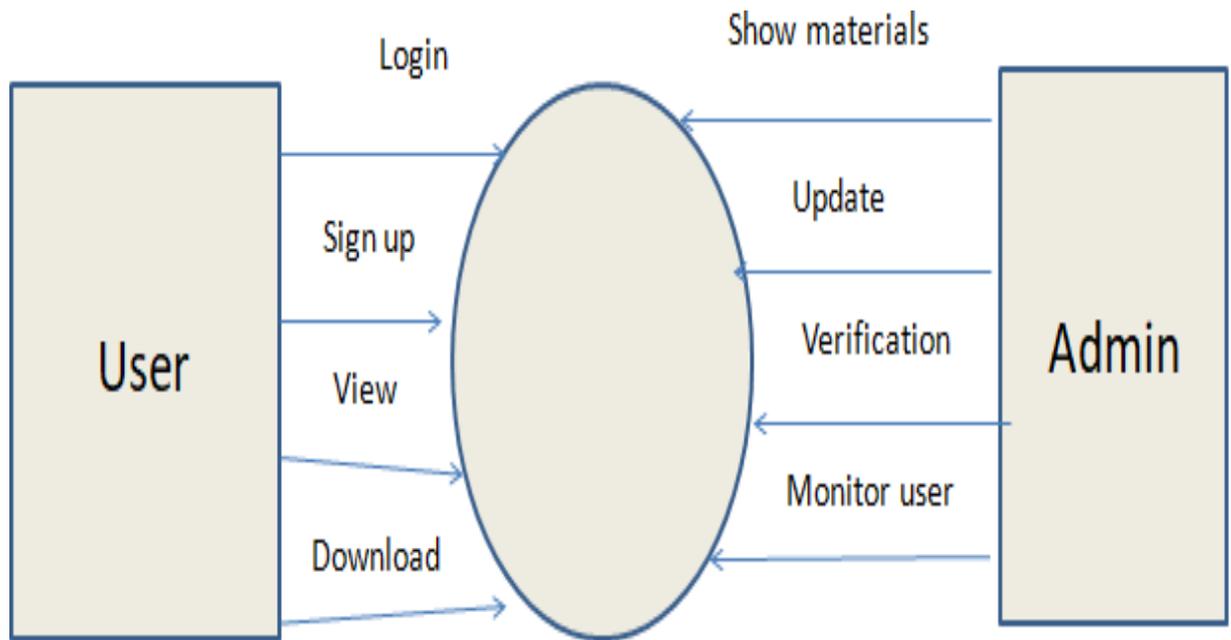


Figure 3.3:Context Diagram

3.4.2 Entity Relationship Model:

Here the ER diagram of our application:

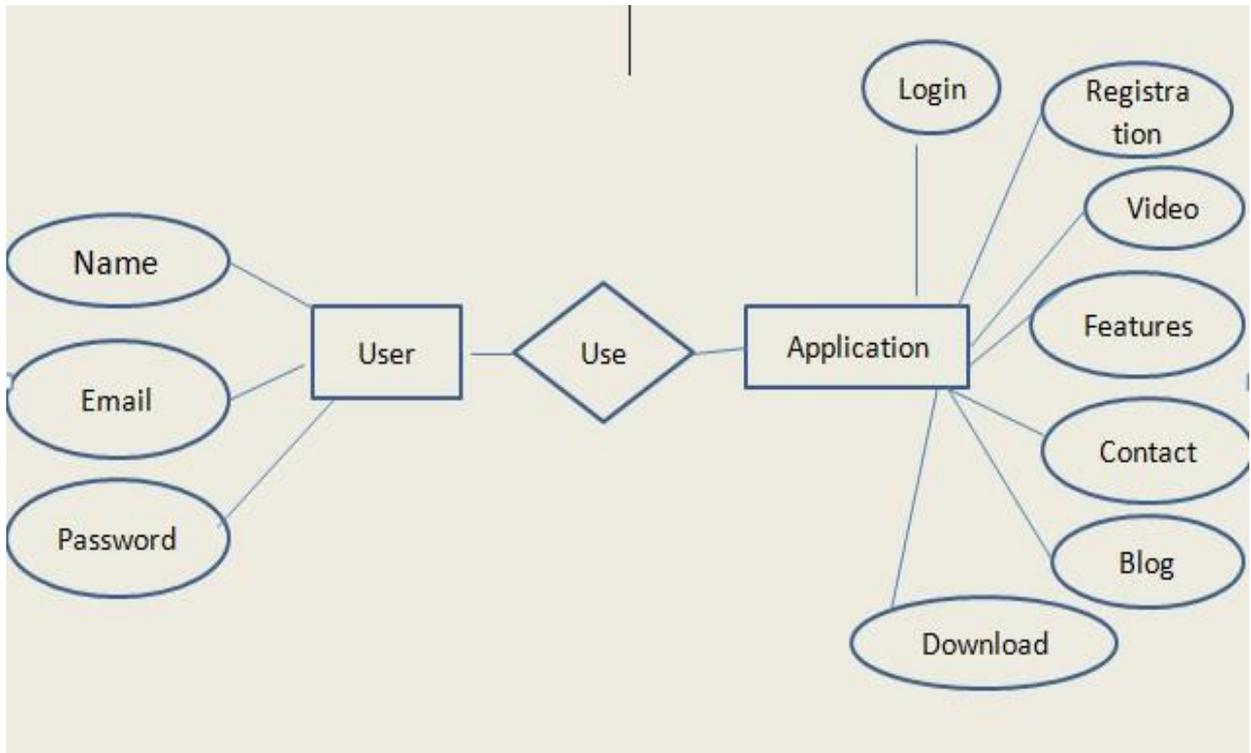


Figure 3.4: Entity Relationship Model

3.5 Design Requirements

While designing a system or web application we have to follow some rules and work step by step to get the goals we have aimed earlier. Here is some process which was on our thought while doing this project:

Make a simple system: User has to find the website as simple as they want. because complexity will make them bored using our service.

Make flexible for the users: The system has to be designed in such way that the user can use it much easily. It must be user friendly.

Making a compatible system: The system must be well maintained. We should take care of the maintenance error also.

Efficiency: The main part of a system is its efficiency. We have to make sure it works according to the hardware specification perfectly.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Here we are showing the front interface which people see before getting login in our web application.

We had to keep it as simple as possible and eye smoothly for the users. Here is the index view of our web application

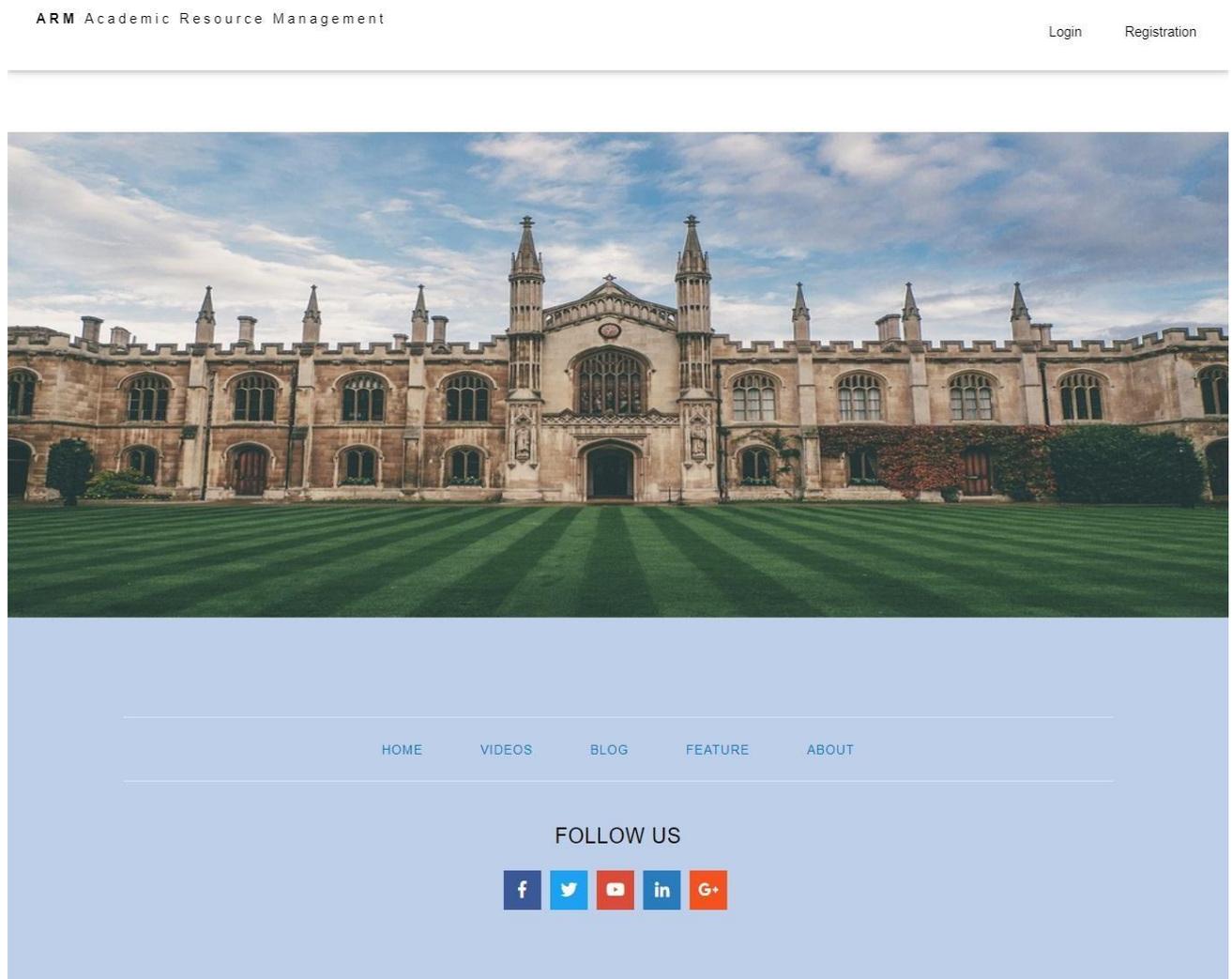


Figure4.1:Index on Screen

Here is the login page for our existing user :

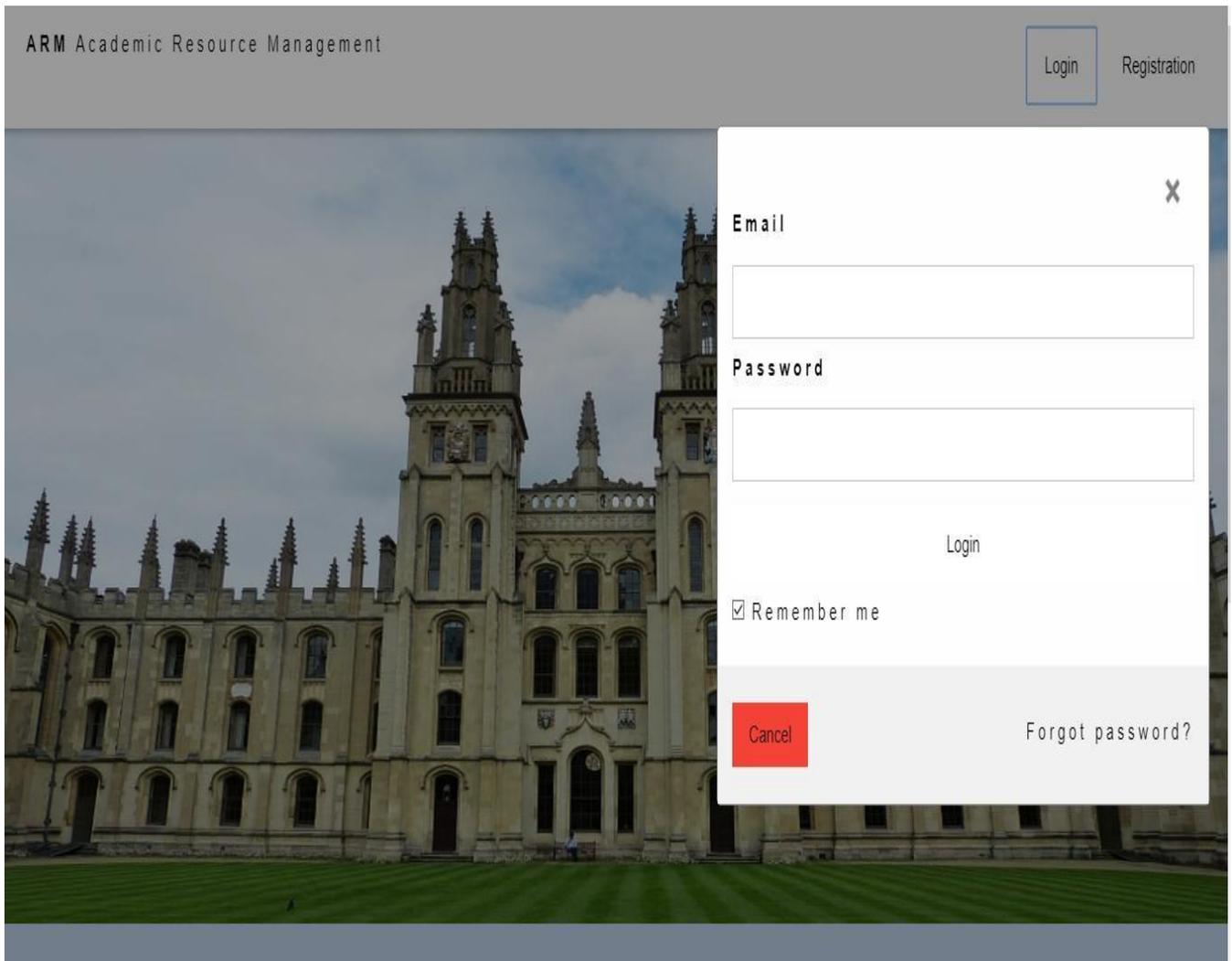


Figure4.2:Login Screen

Here is the registration screen for new user interested in our web application:

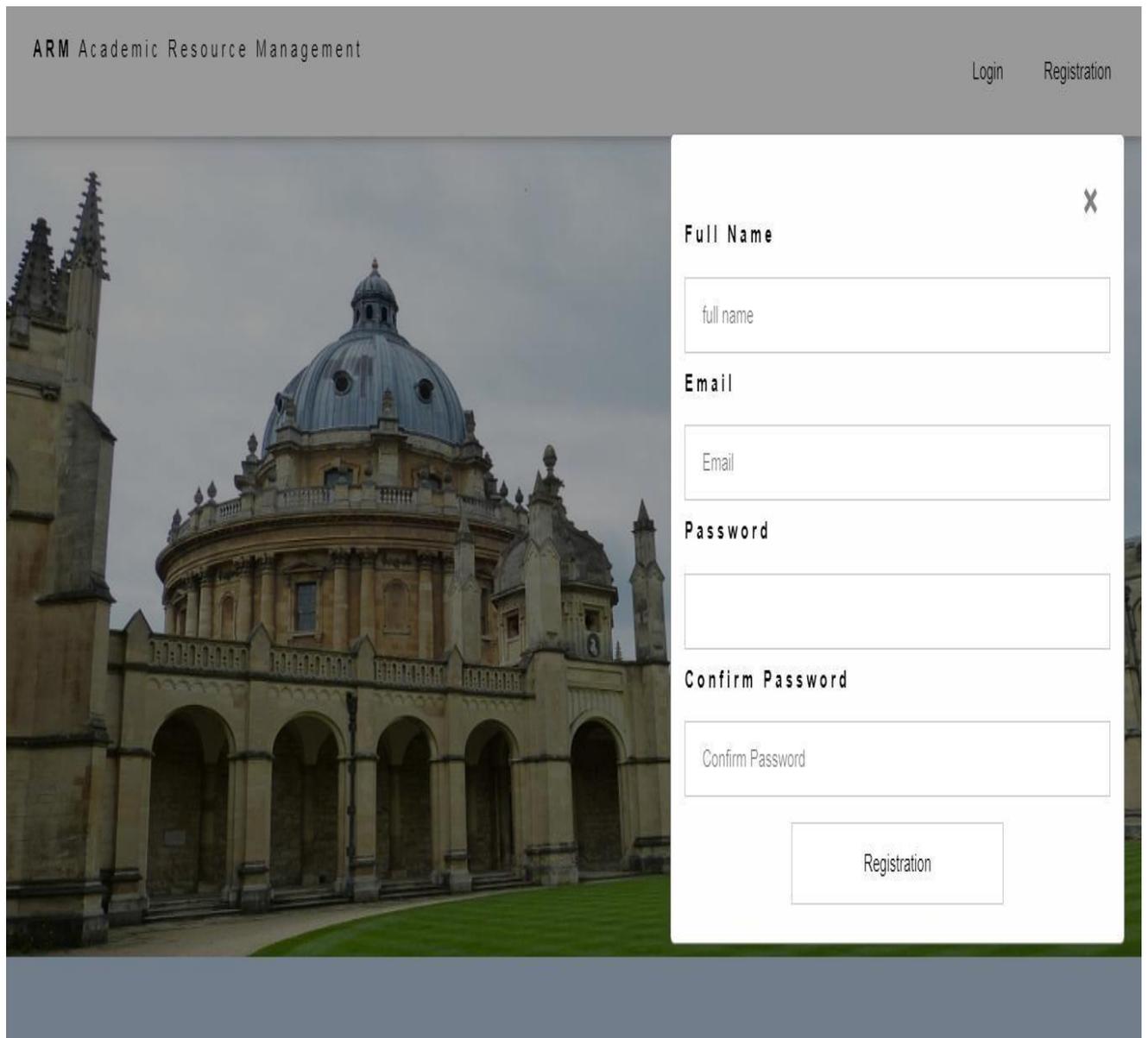


Figure 4.3:Registration Screen

After logging in into our web application the home page will be like:

ARM Academic Resource Management

Home Videos Blog Feature About



Explore Learn & Connect

Oxford University plays a major role in the world's intellectual, creative and public life – a centre for debate and discovery for more than nine centuries. 38 independent colleges and six smaller halls are connected by the university's federal system; these close academic communities help foster the leading research that Oxford is known for. New technology and the creation of innovative, knowledge-led businesses are current key priorities.

Oxford University is the oldest university in the English-speaking world, with teaching dating back to 1096.

Videos

Lorem ipsum dolor sit amet,

[Find Out More](#)

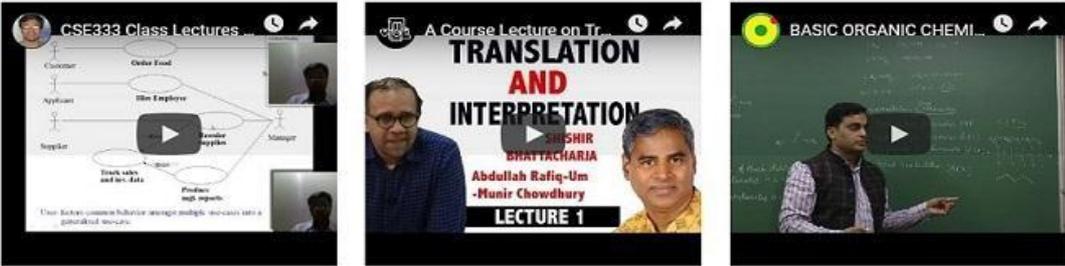


Figure 4.4:Home Page

Video section will be like:

ARM Academic Resource Management Home Videos Blog Feature About

Motivational Speech



Special title treatment

With supporting text below as a natural lead-in to additional content.

[Go somewhere](#)



Special title treatment

With supporting text below as a natural lead-in to additional content.

[Go somewhere](#)



Special title treatment

With supporting text below as a natural lead-in to additional content.

[Go somewhere](#)

ARM Academic Resource Management Home Videos Blog Feature About

General science

Physics



Video title

This is a wider card with supporting text. This content is a little bit longer

[Go More](#)

chemistry

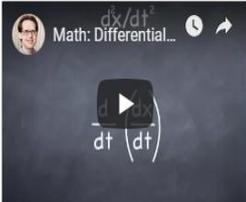


Video title

This is a wider card with supporting text. This content is a little bit longer

[Go More](#)

Mathmatics



Video title

This is a wider card with supporting text. This content is a little bit longer

[Go More](#)

Accounting



Video title

This is a wider card with supporting text. This content is a little bit longer

[Go More](#)

Figure 4.5: Video Section

In blog section there will the story and culture of the institute and famous persons.

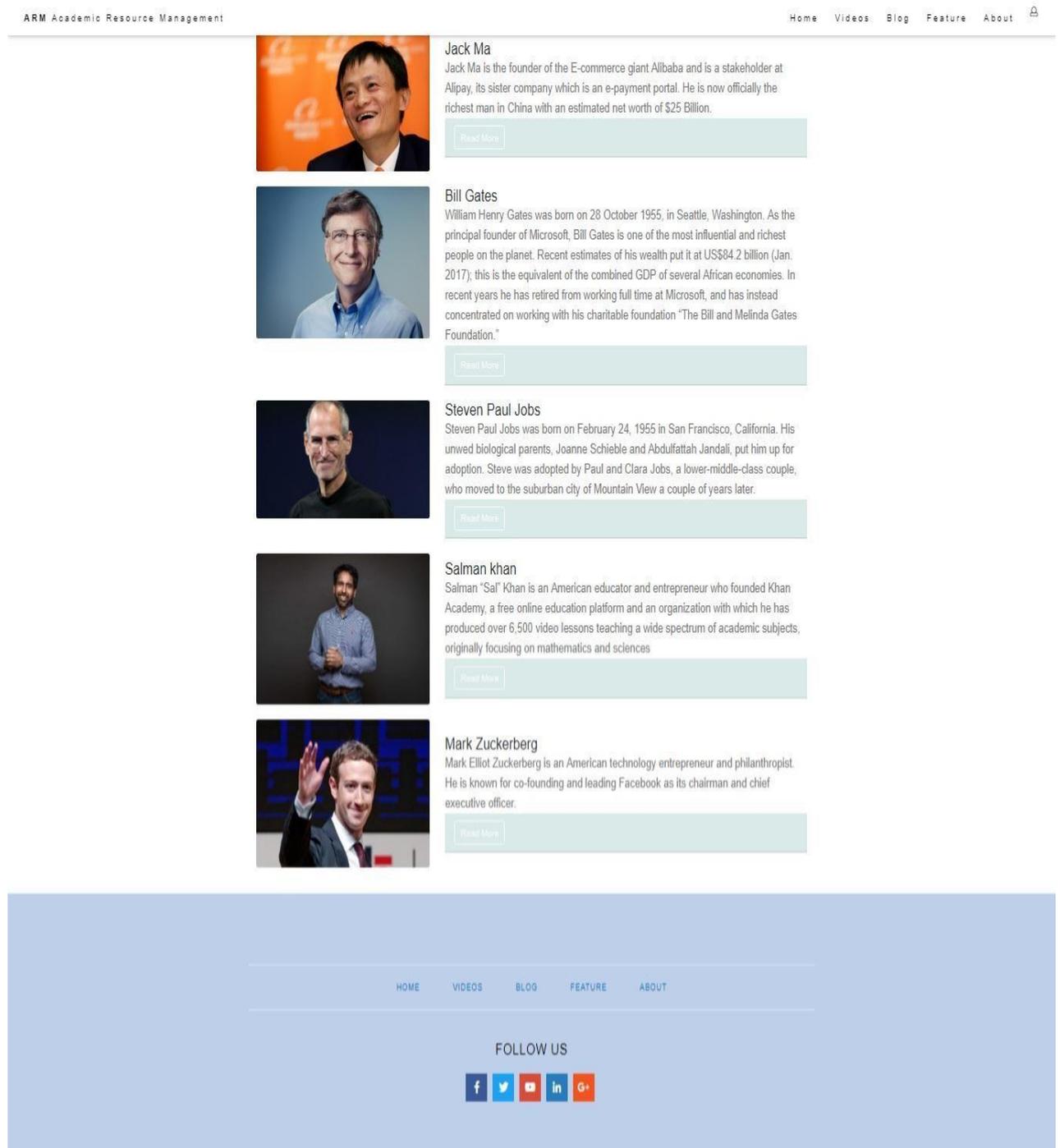


Figure 4.6: Blog Section

This is the main part of our web application where people can choose different institute, as it is named as feature:



Figure 4.7:Feature

This is our contact us page be like:

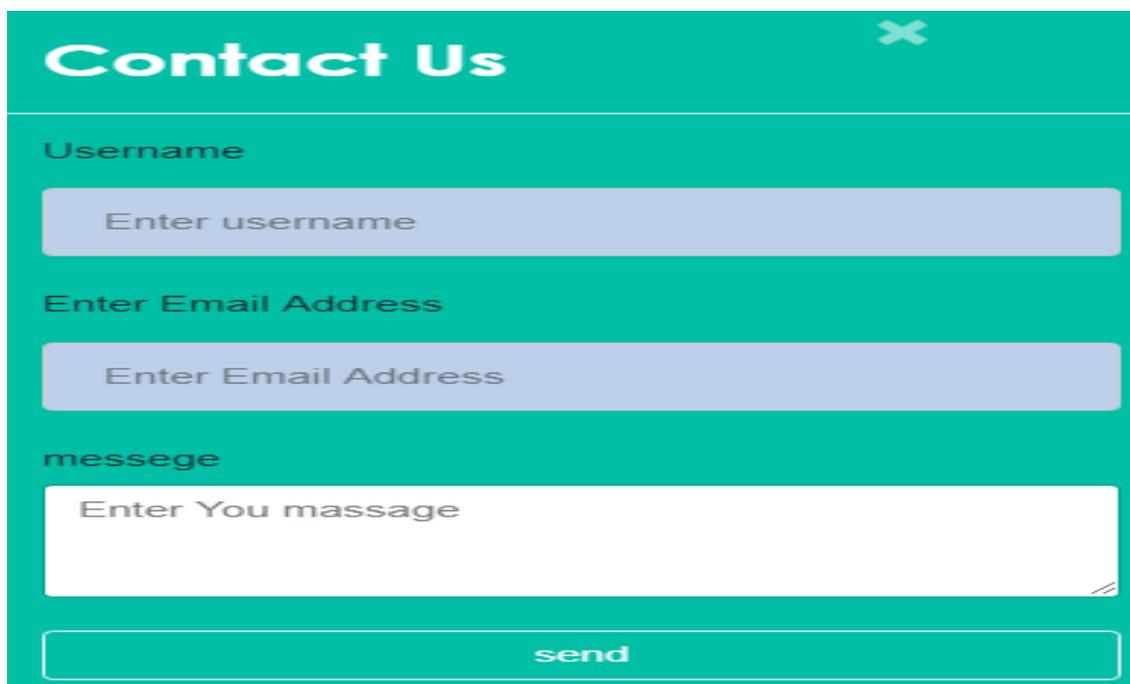


Figure 4.8:Contact

In about people can find out information of the person who is working for this web application.

ARM Academic Resource Management Home Videos Blog Feature About 

Contact Authority

[Contact Us](#)



Masudur Rahman
Lecturer,
Department of CSE,
Daffodil International University



Sayed Abdul Kader arman
B.sc in CSE Engineer
Daffodil International University

[Read More](#)



Azmain Al Ahmed
B.sc in CSE Engineer
Daffodil International University

[Read More](#)



Mohammad Younus Abedin
B.sc in CSE Engineer
Daffodil International University

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HOME VIDEOS BLOG FEATURE ABOUT

FOLLOW US

Figure 4.9:About Page

4.2 Back-end Design

Back-end design is a part where we had to do the real work. Users only can see the GIU or the front-end design. Back-end will decide how things work really. We had to store the registration information and contact information, so we had to do some back end design also.

It take some time for making the design reliable and look good. We have used PHP to develop the back end design. We have used MySQL database to store the registration design. letter on we will take all the information from database also.

4.3 Interaction Design and UX

What makes a winning UX portfolio? As outlined in a previous article “UX Portfolio Tips and Best Practice,”telling a compelling story is key. Recruiters and others who may be evaluating your work are busy—you only have a few minutes to engage them before they decide whether or not you made the cut.

There is some steps which can make someone a good UX designer given below.



Figure 4.10: The 7 steps to follow for a UX designer.

4.4 Implementation Requirements

For completing a project everyone needs some tools,so does we.

Here is some of the implementation tools we have used to make our web application:

PHP:Now almost every web developer work on PHP for developing web application.We also have used PHP for our development.

MySQL:MySQL is an Oracle-backed open source relational database management system.MySQL runs on virtually all platforms.We have used MySQL as a database for our web application.

Others:For front end-design we have worked on HTML,CSS,BOOTSTRAP,JS etc.

4.4.1 System Requirements, for running the application

- At least one computer
- Os version: Windows 10.
- Editor
- Network: Wi-Fi or Cellular Network
XAMPP

4.4.2 Hardware Requirements

For developing the web application we needed some hardware also:

- A computer with Intel Core i5 processor
- RAM: minimum 4GB
- Space on disk: minimum 4

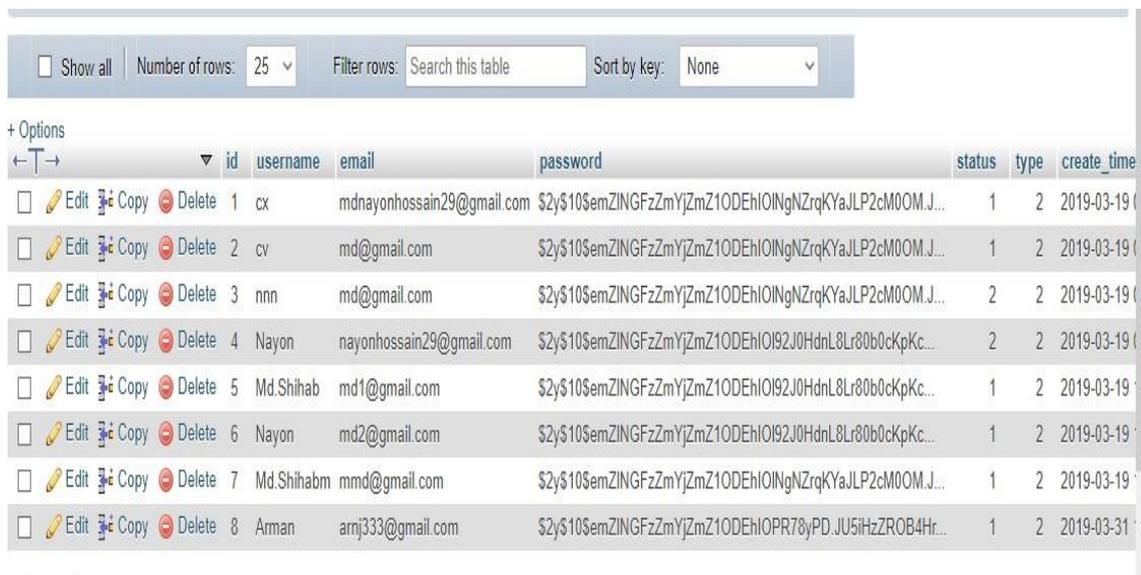
CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database:

Our application is a web based application. We have used MySQL as a database system for our application. In where data sync in real time. In this application we made one main database. Where every registered user information is stored. Admin can update question, delete question, and update rules and regulation. If admin want he/she can delete any registered user account or add any user from console.

Here is a table of registered information in our database:



The screenshot shows a MySQL database table with the following columns: id, username, email, password, status, type, and create_time. The table contains 8 rows of user data. Each row has a checkbox, an edit icon, a copy icon, and a delete icon. The password field is masked with asterisks.

	id	username	email	password	status	type	create_time
<input type="checkbox"/>	1	cx	mdnayonhossain29@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOInGNZrqKYaJLP2cM0OM.J...	1	2	2019-03-19
<input type="checkbox"/>	2	cv	md@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOInGNZrqKYaJLP2cM0OM.J...	1	2	2019-03-19
<input type="checkbox"/>	3	nnn	md@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOInGNZrqKYaJLP2cM0OM.J...	2	2	2019-03-19
<input type="checkbox"/>	4	Nayon	nayonhossain29@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOI92J0HdnL8Lr80b0cKpKc...	2	2	2019-03-19
<input type="checkbox"/>	5	Md. Shihab	md1@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOI92J0HdnL8Lr80b0cKpKc...	1	2	2019-03-19
<input type="checkbox"/>	6	Nayon	md2@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOI92J0HdnL8Lr80b0cKpKc...	1	2	2019-03-19
<input type="checkbox"/>	7	Md. Shihabm	mmd@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOInGNZrqKYaJLP2cM0OM.J...	1	2	2019-03-19
<input type="checkbox"/>	8	Arman	arnj333@gmail.com	\$2y\$10\$emZINGFzZmYjZmZ10DEhIOPR78yPD.JU5iHzZROB4Hr...	1	2	2019-03-31

Figure 5.1: Implementation of MySQL Database

5.2 Implementation of Front-end Design

We will be successful if people can get the service easily which we are providing. If people can get into our application and use it friendly then we will be successful.

So here is some snaps of people getting into our application.

5.2.1 Login

Here is a login process which is done successfully.

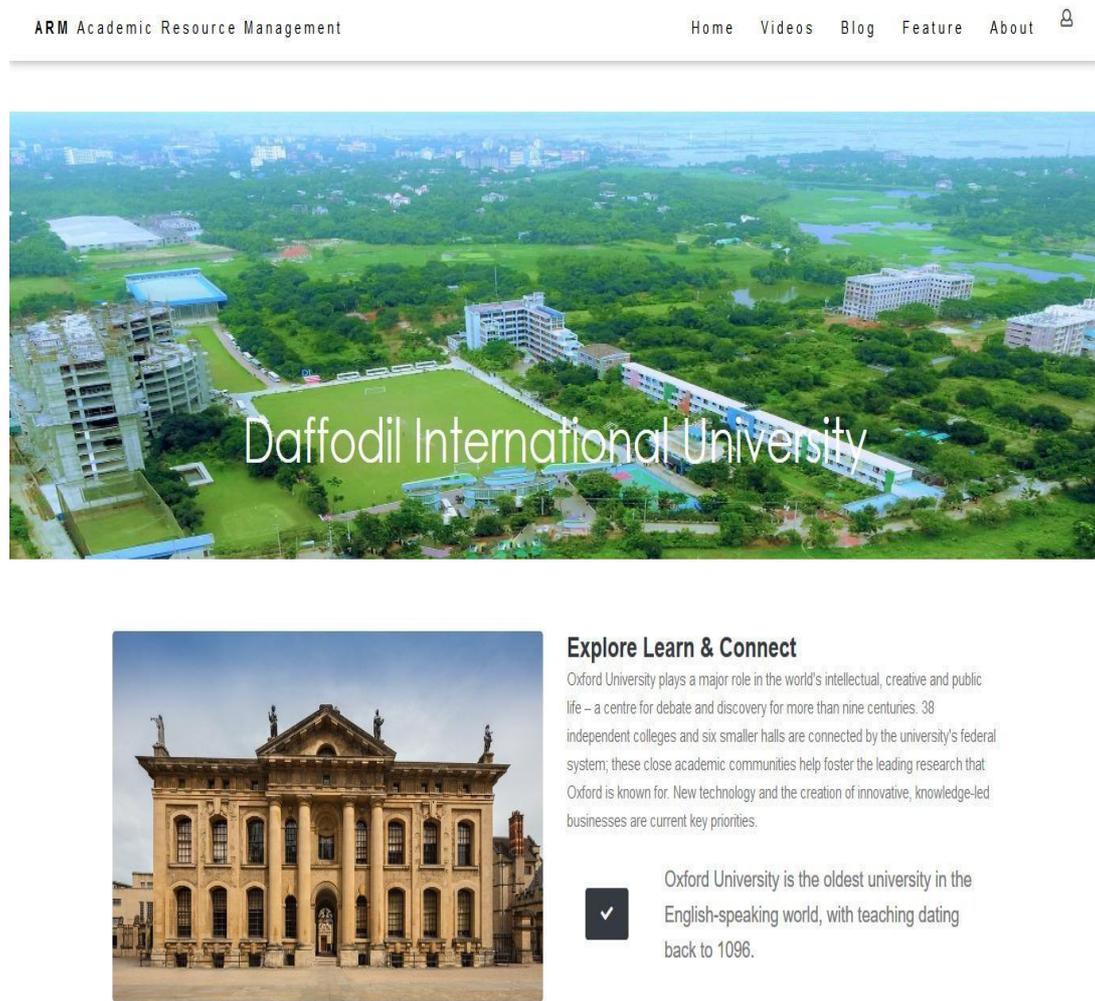
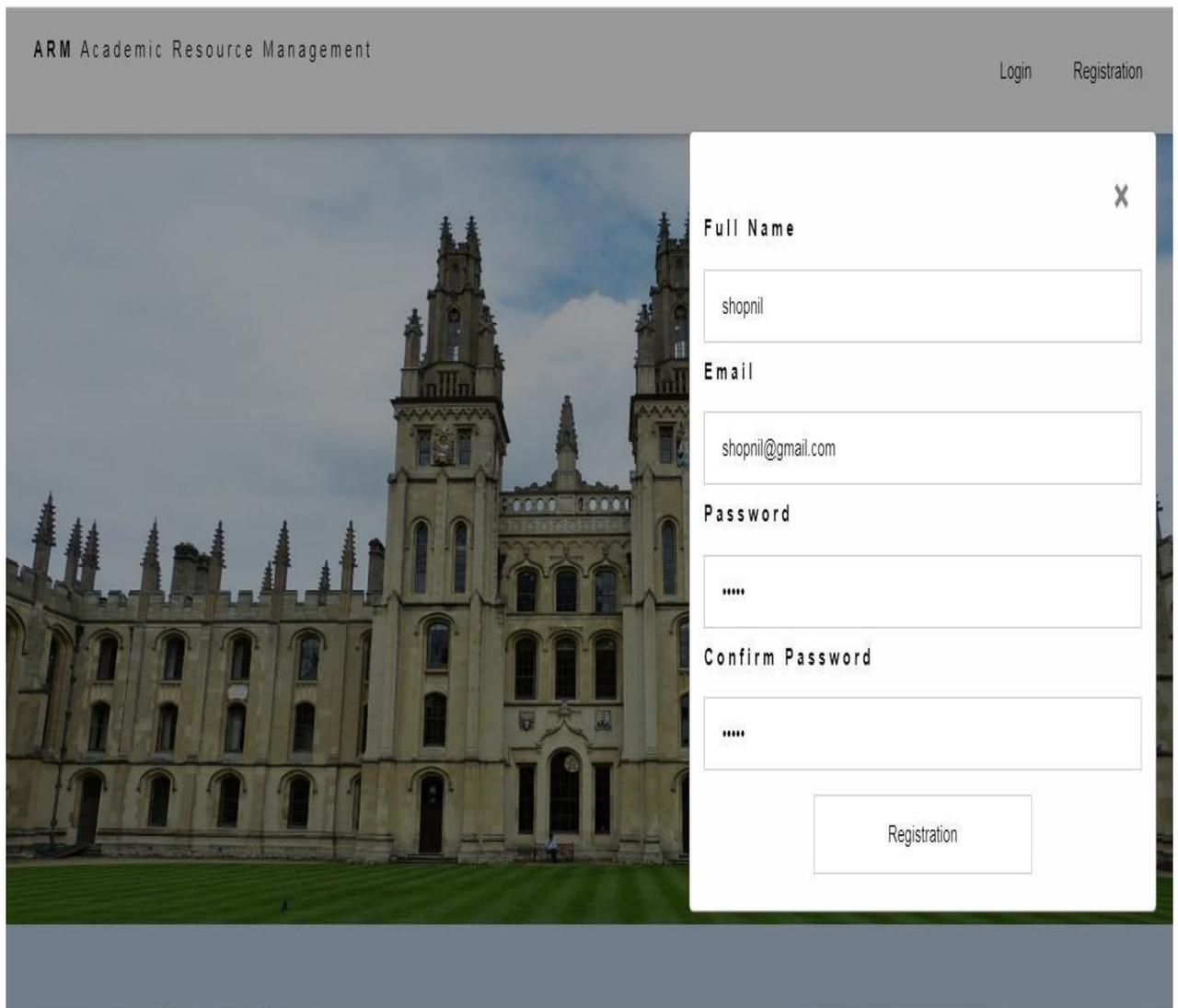


Figure 5.2: Implementation of Login

Here we can see a name beside logout button . It is the user name that just logged in .

5.2.2 Sign up

Here is the registration form implementation given below:



ARM Academic Resource Management

Login Registration

Full Name ✕

shopnil

Email

shopnil@gmail.com

Password

.....

Confirm Password

.....

Registration

Figure 5.3:Implementation of Registration

5.2.3 Visiting Features

Here is the checking if someone can view all the features we have:

ARM Academic Resource Management Home Videos Blog Feature About 





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Daffodil International University (DIU; Bengali: ডাফোডিল আন্তর্জাতিক বিশ্ববিদ্যালয়) is a private university located in Dhanmondi, Dhaka, Bangladesh. It was established on 24 January 2002 under the Private University Act, 1992.[2] DIU is the first university in Bangladesh to have signed the UN's Commitment to Sustainable Practices of Higher Education Institutions The university was established in 2002 with the approval of the University Grants Commission (Bangladesh)[4] and the Government of Bangladesh's Ministry of Education. The university has multiple campuses within Dhaka. The main campus is located in Dhanmondi and the permanent campus is in Ashulia. The permanent campus covers 150 acres of land with a playground, shopping mall, basketball court, golf course, hostel, and other facilities.

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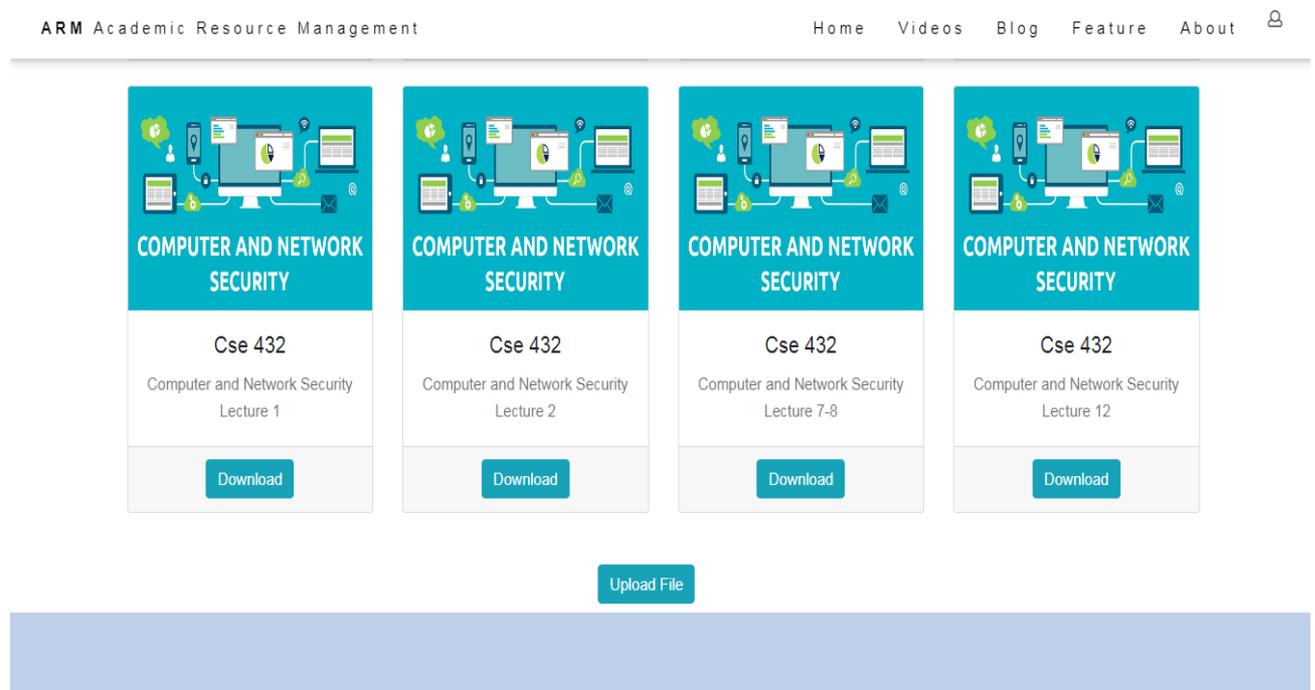
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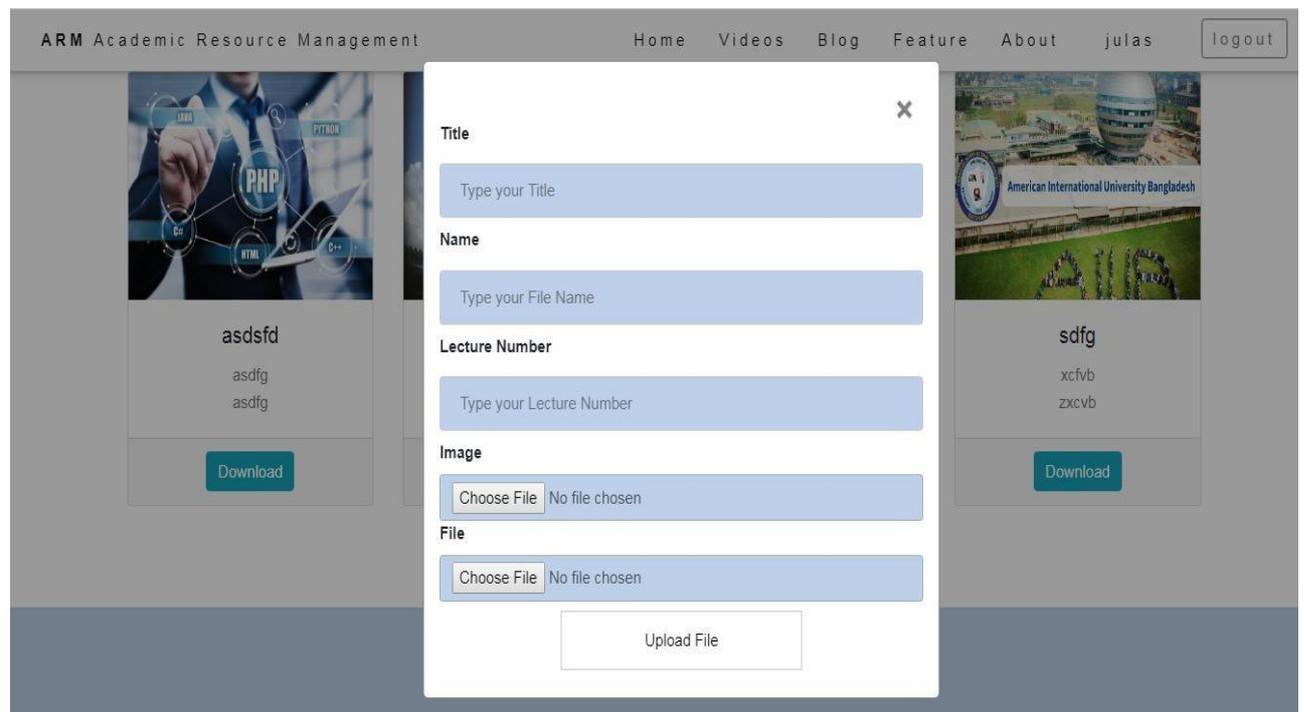


Figure 5.4: Implementation of all View

5.2.4 Video watching

Here is the system where we check if people can watch the videos we have linked:

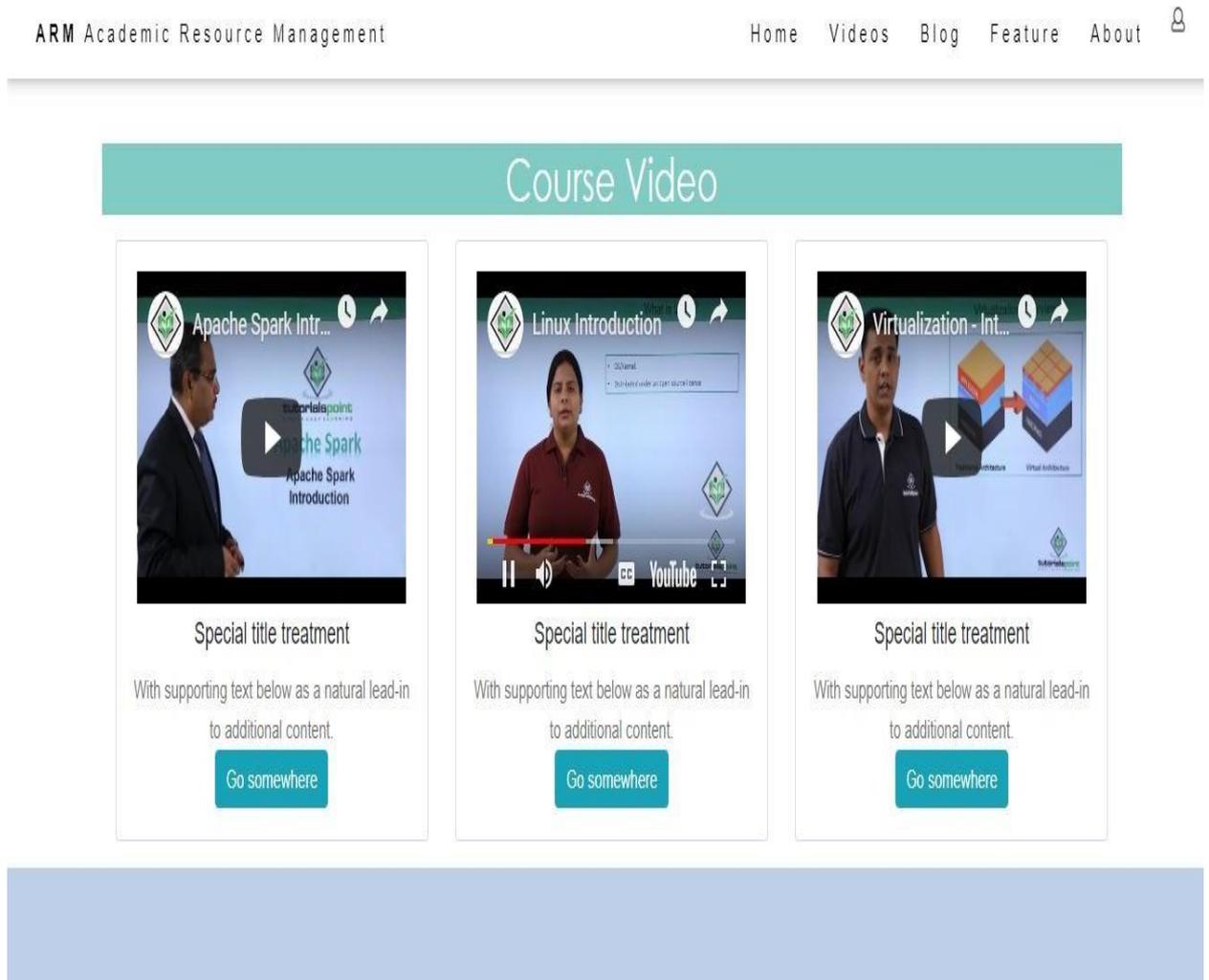


Figure 5.5: Implementation of Watching video

5.3 Implementation of Interactions

Implementation of Interaction is a very important thing in a design. It makes people like or dislike a website. Like if people can easily move from one page to another or when they do not need to backtrack from any page to choose another it is good for them and the look has to be beautiful. We have chosen some beautiful icons and graphical user interface which will make people like our website.

5.4 Testing Implementation

We need to test the website also for checking if it is user friendly or not, like people can have all the facilities right we promised or not. There are some tests we have done:

1. Database connection of the web application.
2. Login function (with valid information).
3. Registration (with valid information).
4. All the pages view successfully?
5. Watch Video successfully?
6. Contact will us successfully?
7. Download materials.
8. We have tested the system by SDLC .

5.5 Test Results and Reports

For testing our web application really works or not we had to try so much time and we did our best to find out.

Here is a table where we are showing some of our experience of testing:

Table 5.1: System Testing Table

Test Case Id	Date Tested	Tester	Pass/Fail	Test Data	Expected Result	Actual Result	Comment
1	24.03.2019	Younus	Pass	Database connection	Properly connected with application	As Expected	
2	24.03.2019	Younus	Pass	Sign up	Sign up successful with valid info	As Expected	
3	24.03.2019	Syed	Pass	Login	Sign in successful with valid info	As Expected	
4	24.03.2019	Syed	Pass	Watch Video	Yes User can watch Video	As Expected	
5	24.03.2019	Younus	Pass	Checking outlines	Checked Successfully	As Expected	
6	24.03.2019	Syed	Pass	Download Materials	Successfully Downloaded	As Expected	
7	24.03.2019	Younus	Pass	Logged out	Properly Logged out from the system	As Expected	

5.5.1 User Acceptance Testing

In the given there is some experience of user acceptance on table.

Table 5.2:User Acceptance Testing

Test Case Id	Date Tested	Tester	Pass or Fail	Test Data	Expected Result	Actual Result	Comment
1	25.03.2019	Azmain	Pass	Sign up	Sign up successful	As Expected	
2	25.03.2019	Azmain	Pass	Login	Login successful	As Expected	
3	25.03.2019	Azmain	Pass	View	Successfully viewed	As Expected	
4	25.03.2019	Azmain	Pass	Watching video	Successfully watched video	As Expected	
5	25.03.2019	Azmain	Pass	Download materials	Download completed successfully	As Expected	

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

By the grace of **Almighty ALLAH**, We have developed a web application. At first we were confused about the concept but later on after doing so much group discussion and meeting with our supervisor we have found our real goal and we are happy that we have accomplished it successfully.

As there is no well known website like this concept so it will be helpful for people.

ACADEMIC RESOURCE MANAGEMENT will provide people the information about the well known institute where people can compare different institutes at a time.

This web application will be very helpful for people. It is trustable and well designed. For making this web application fruitful we have tried our level best. And finally we have completed our project. But there is some future plan for this project and which we will discuss below.

6.2 Scope for Further Developments

There are some places where we can improve in our project:

1. We can develop an android and ios app for this concept.
2. This is only for University level so we will do for school level also.
3. We will add some paid courses also for the interested people.
4. Will add some live iteration system.
5. People can share their problem in specific topic and we will solve it .

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APPENDIX

Appendix A:Project Reflection

“Coming together is a beginning , Keeping together is progress, Working together is success”. According to this proverb we had to work together no matter how hard the job is. We were crystal clear about our job. And that helped us a lot to complete the project.

When we had choose this as our final project we were so much confident but after starting the project we have started to face so many problem.It was a tough task for us to choose the serial of our work.But we are lucky that our supervisor has inspired us in every difficult phase we faced.

Admittedly, the selection of a team is important.You have to choose the right person who has interest in the field and will work hard and that will make a high-performance team.Our team combination was good from the beginning of the journey.

Finally,after so many difficulty and mass sleepless night,we did this project successfully.

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