

# **Course: COMP1640**

## **Enterprise Web Software Development**

**Team: Tech Army V-02**

**Submitted To:**

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**Date of Submission: 10<sup>th</sup> April 2018**

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Team Members			
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4	001032086	Md. Jhadul Islam Rakib	System Tester

**Application Live URL:** <https://foysal.xyz>

**Screencast URL:** <https://www.youtube.com/watch?v=-22TdiHteSc>

**Repository URL:**

[https://drive.google.com/drive/folders/1hFVYip1W18t9BzVGIZgi0xzb\\_8Z5hnYT](https://drive.google.com/drive/folders/1hFVYip1W18t9BzVGIZgi0xzb_8Z5hnYT)

**Credentials:**

ideaBook		
Group	Email	Password
<b>Quality Assurance Manager (QAM)</b>	<a href="mailto:Foysal.int@gmail.com">Foysal.int@gmail.com</a>	123456
<b>Quality Assurance Coordinator (QAC)</b>	<a href="mailto:Foysalahammed055@gmail.com">Foysalahammed055@gmail.com</a>	123456
<b>Student</b>	<a href="mailto:Foysal35@diit.info">Foysal35@diit.info</a>	123456
<b>Student</b>	<a href="mailto:Sajid35@diit.info">Sajid35@diit.info</a>	123456
<b>Student</b>	<a href="mailto:Samir35@diit.info">Samir35@diit.info</a>	123456

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## **Introduction:**

This system name is ideaBook. This is a secure web-enabled role bases system for collecting ideas for improvement from students in a large University. There are three types of users. Those are Quality Assurance Manager, who is responsible to oversee the process. A quality assurance coordinator who is responsible for managing the process for their department and the students who will submit idea for particular categories. We named our group as "Tech Army V-02". There are four members in our group, each member has a specific role in building this system. We developed this system following Agile scrum methodology and we have done it successfully. We tried to meet all the requirements and provide some extra features. I had played programmer and UI designer roles. So I handled technical and design aspects.

## **Evaluation of Product and process:**

### **Key features of the system**

ideaBook meets the all useful prerequisites as situation demand. All of the features of ideaBook work effectively. All of the features of ideaBook are given bellow-

- QA Manager can launch a new category with set closure date and final closure date.
- QA Manager can edit category information any time. But delete only if have not used this category.
- Users can give the thumbs up and thumbs down for any idea, but only one for each idea.
- Students can submit an idea and comment as anonymous, but the administration can see all information.
- Students can upload multiple files with idea as supporting documents if necessary.
- The category will be invisible the category list after expired the closure date. Students can't post any idea in this category.
- After expiring the final closure date of the category all of those categories ideas comment sections will be hidden.

anonymous @2018-04-05 at 12:52:08 pm

ICT Carnival

Sed ut perspiciatis unde omnis iste natus error sit voluptatem  
accusantium doloremque laudantium

[Read More](#)



0 Comment's

Comment Session Completed!

### Figure 1 Comment section is hidden

- Any inappropriate ideas can be investigated by the administration.
- Idea category will be disabled after the closure date for submitting a new idea, but comments can continue until a final closure date.
- The Department's QA Coordinator get a notification email for posting a new idea from his/her responsible department.



## Notification from ideaBook

One New Idea Posted From Your Department.

Idea Title :E-learning help as a source of information,

Idea Body :

E-learning sources provide best study materials which is very helpful for the students' knowledge building process..

MY ACCOUNT

**Figure 2 Email notification to department QAC for posting a new idea**

- Staffs can view all statistics and exception reports.
- The idea author gets an email notification whenever a comment is submitted to any their ideas by a student.



## Notification from ideaBook

One New Comment Posted in Your Idea.

Identity : Identified,

Comment Body :

It's a good idea, I appreciate it.

MY ACCOUNT

**Figure 3 Email notification for comment.**

- System administrator (QAM, QAC) can view the most popular ideas, most viewed ideas, latest ideas and comments and anonymous ideas and comments.
- The system automatically Deactivate students account after completing the academic session.
- QAC can delete or block any idea if necessary.
- The system administrator (QAM) can deactivate any student user account if they think this account should not in this system.
- Quality assurance manager can deactivate staff (QAC) account if necessary.
- A statistical analysis report like numbers of idea each department, percentage of idea each department and number of contributors of each department are available for staffs.
- Each of the users of the system can create a conversation with anyone.
- Users can get runtime notifications for receiving messages.
- Users can follow any idea by pressing a Follow button., also unfollow that.
- Users can see his own post, followed post from visiting timeline.

## Strength of our system

IdeaBook has some strong techniques and features that make it efficient and secured. The strangeness of ideaBook is given below:

- The system can prevent any SQL injection.
- The system is capable to prevent brute force attack.
- ideaBook send an email to users for every login with an IP address and client system details.



### Notification from ideaBook

Hi

We detected a login into your account from...

IP Address :203.95.220.134

Browser :Google Chrome -65.0.3325.

Operating System :Windows

Date :2018-03-28

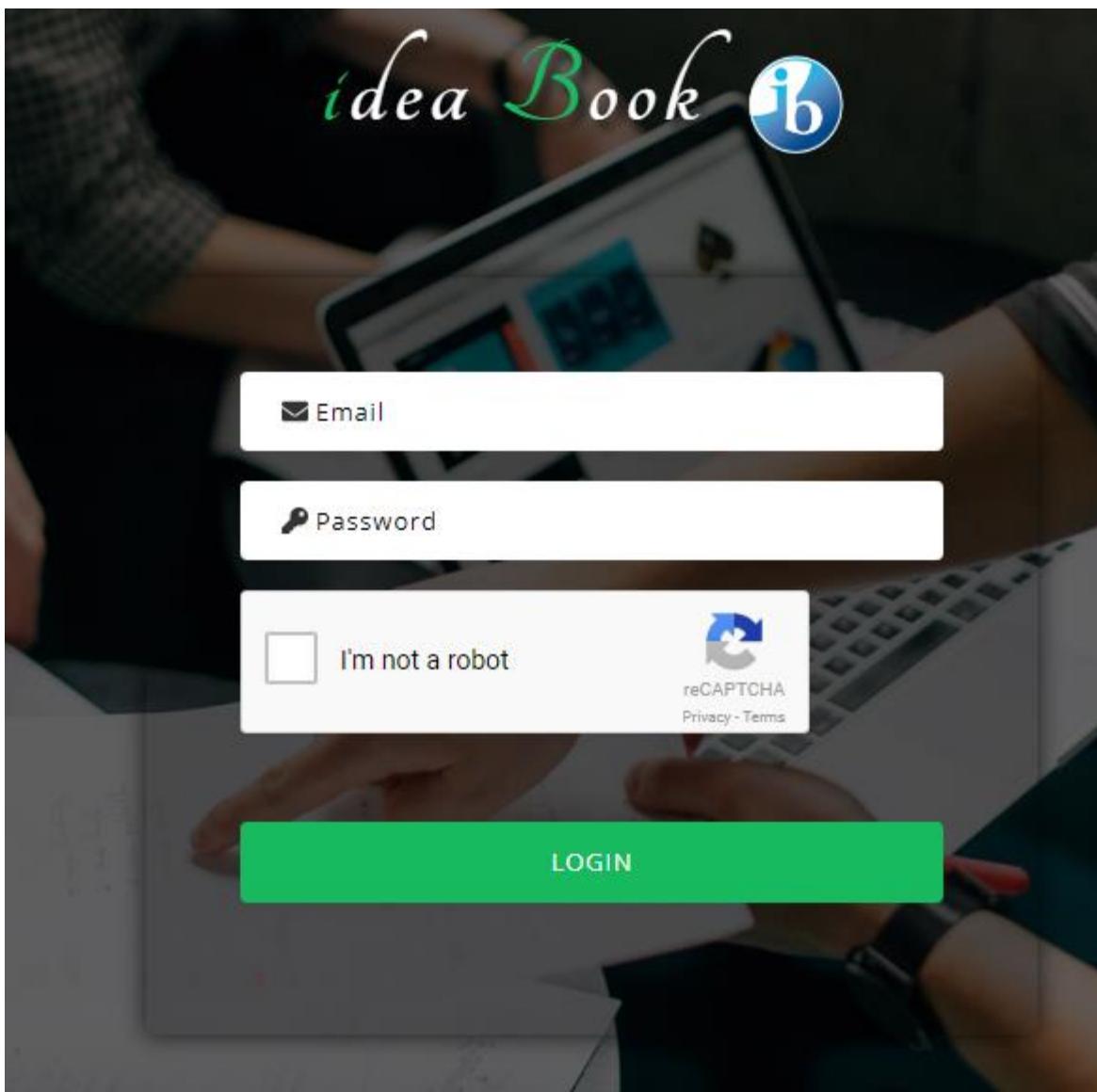
Time :12:13:14 pm

If this is not you, please ensure your account security as soon as possible.

[MY ACCOUNT](#)

**Figure 4 Email notification for login.**

- The hacker can't run any script from outside.
- The system script not editable from outside.
- User access control process is very efficient.
- The system is capable to prevent any bot or robot attack.



**Figure 5** The system will check user is a robot or human.

- The system interface is responsive.

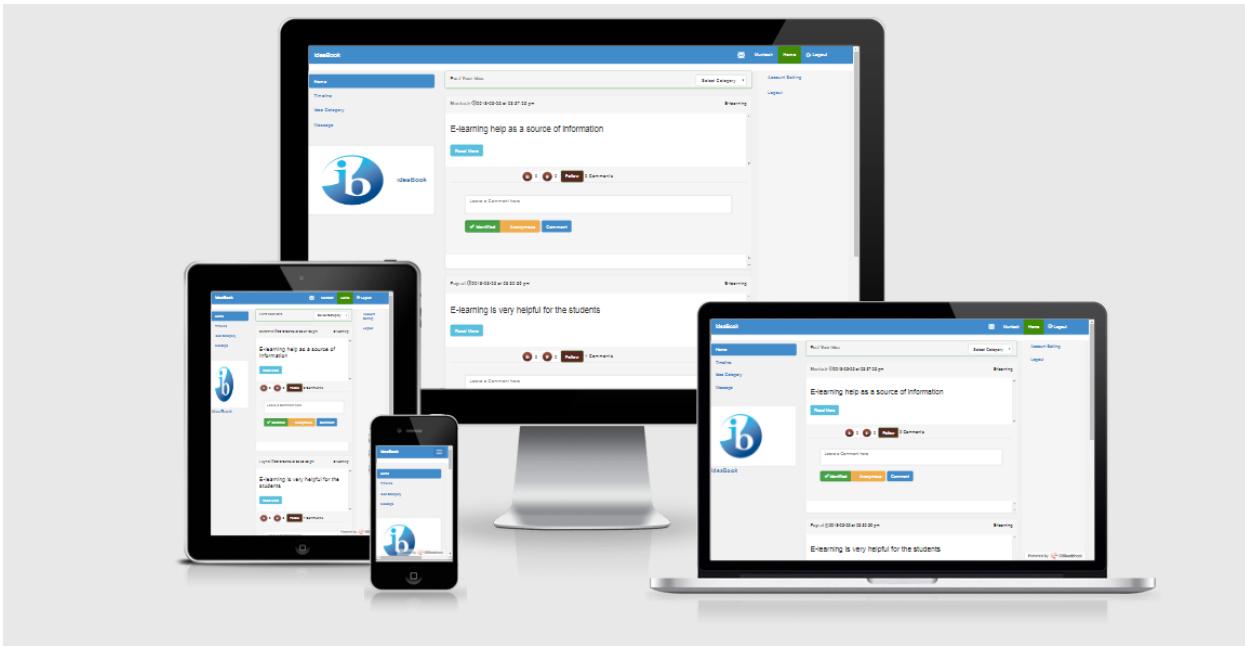


Figure 6 Responsive Students interface.

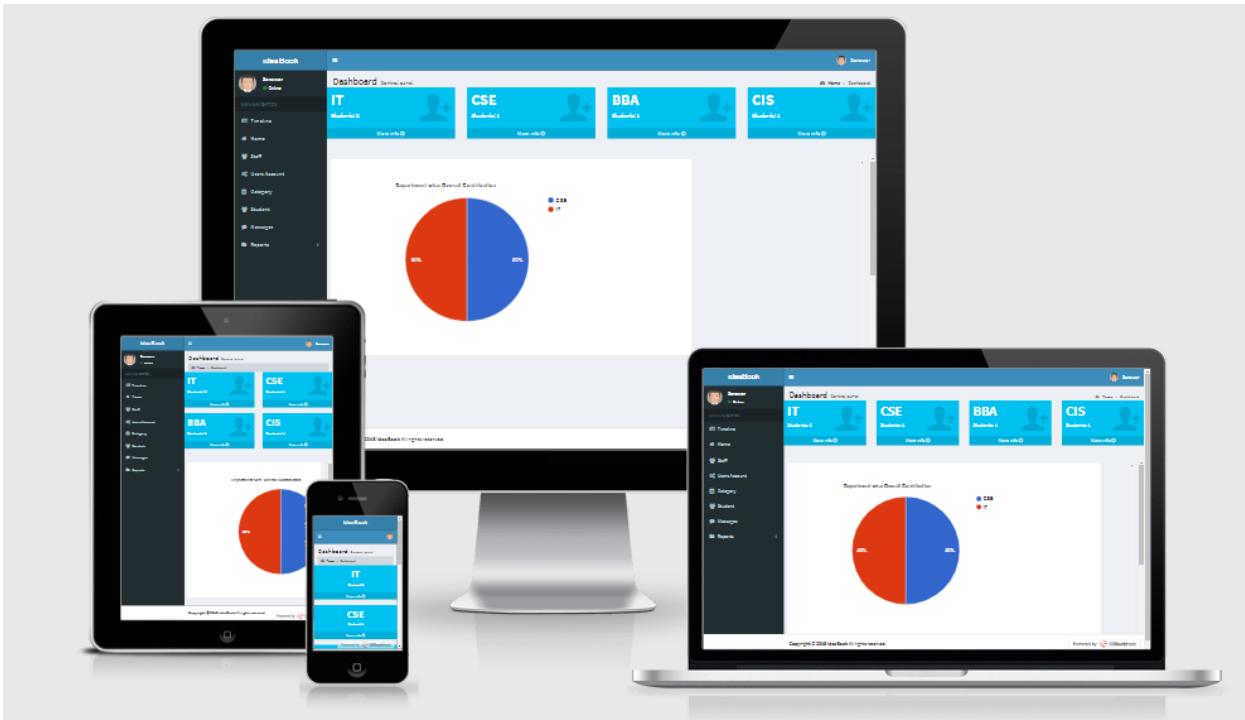
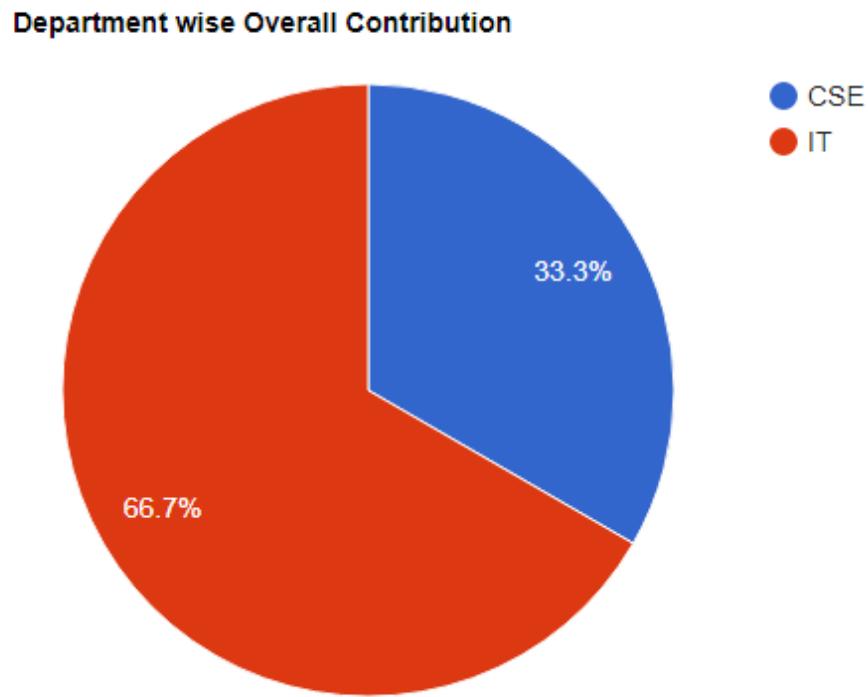


Figure 7 Responsive admin interface.

- This system interface will be easy to learn.
- Validation rules are set into client side & server side script because the client side script can be modified, then the server side script can catch any invalid input.
- The system has well navigation menu.
- The system database is fully normalized.
- The student can't access admin dashboard pasting admin side URL.
- QAC & QAM can see a statistical report in graphical charts.

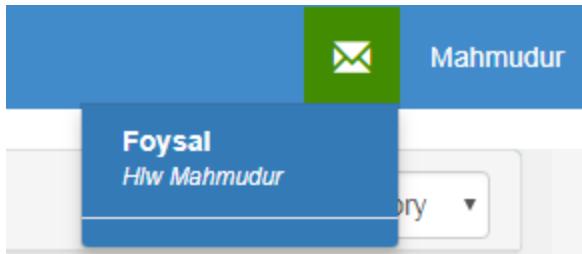


**Figure 8 The system provides a graphical report.**

- The system provides runtime message notifications.



**Figure 9 Showing messages notification.**



**Figure 10 Showing messages list.**

### **Weakness of the system**

There is some weakness in this system, these are given below:

- System users can't modify their personal information except password.
- After post any idea and comment system take a refresh to show this.

### **Further Development:**

This yearbook system is working perfectly as a requirement. But system development is a continuous process where required update old technology to new technology. Work to protect system from new threats. Some issues which can be take a place for further development.

- Using AJAX form post ideas and comments.
- The system will be able to provide live notification to users.
- The password recovery feature will be added to this system.

### **Methodology Used:**

There are so many software development methodologies. Agile is one of them. Agile software development is a group of software development methodologies. Scrum is a subset of Agile methodology. In this software development, we used agile scrum methodology. It's enables collaboration of teamwork.

We divide our tasks between team members. We played many roles like System Architect and Analyst, Database Designer, UI Designer, Programmer and Tester for developing this system successfully. We make group meeting for discussion completed works and set next work.

### **Evaluation of Team:**

This web based system developed by four members where everyone played different roles. We had developed it successful because of our hard work. At the start of this development process we assigned a member as a system architect and analyst,

one for database design, one for design UI and programming and one for system testing.

System architect and analyst done the hard work to find out functional and non functional requirements. The database designer worked to make a fully normalized ERD for minimize data redundancy. After completing every sprint as a programmer, I send developed part of QA/ Acceptance Tester to test this sprint to ensure it developed as required. I want to say without team members' collaboration and individual works of team members we can't do it successfully.

Team members' efforts can be evaluated by following some criteria.

Criteria	System Architect and analyst	Database Designer	QA/ Tester	Programmer & UI Designer
Technical Skill	Poor	Excellent	Poor	Excellent
Contribution on key requirement	Poor	Excellent	Poor	Good
Core skill in his area	Excellent	Excellent	Excellent	Good
Communication Skill	Excellent	Good	Good	Excellent
Availability	Poor	Excellent	Excellent	Excellent
Adaptability	Good	Good	Good	Good
Team Collaboration	Good	Good	Good	Excellent
Overall Performance	Good	Excellent	Good	Excellent

### Self Evaluation:

#### Own Efforts

In system development team I played UI designer and Programmer role. But i have to focus on other members work because of I was the team leader of this group. At first we work together to understand this system requirements. I also collaborate with database administrator in finding out better solutions to make a perfect ERD for this system. I worked to make a responsive user interface which will easy to learn to the users. I hope the user can understand this system UI at first look. I have used HTML5 for creating UI structure, Bootstrap as CSS framework to make it responsive, JQuery and JavaScript for field validation and run some function in client side. After completing development process tester start the system testing process to ensure that system is working perfectly and found some bugs and I fixed it. The system analyst confirmed that this system met the all user's requirements and work properly.

### **Lessons Learnt:**

This assignment was a group assignment so I have to work with a team for completing this assignment. At first I learned how to work with a team and collaborate with team members. I know most of the project done by team work in real life working field. So it was a great opportunity to know how it's done. I also learned some new techniques by developing this system like Google chart, Google recaptcha and like and unlike post using PHP and JavaScript and how to work following the agile scrum methodology.

### **Conclusion:**

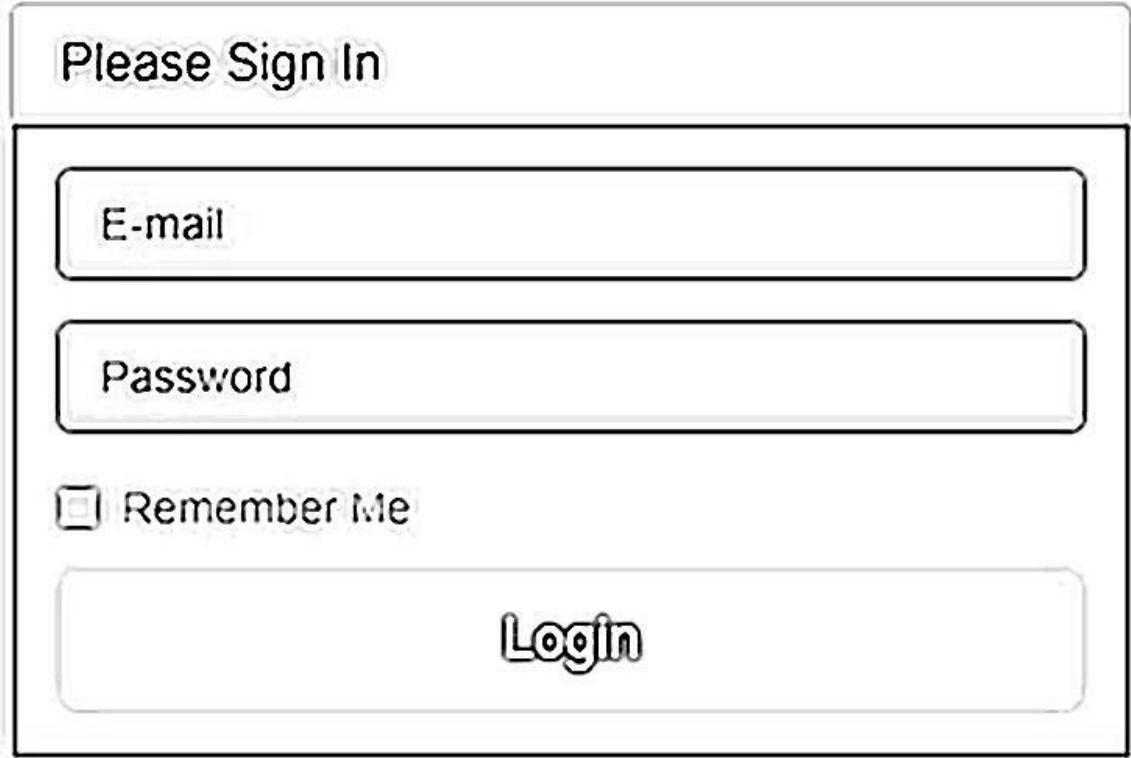
This ideaBook is a sub-system of University portal or University management system. This system gets some important data from the main system like users' information. This sub-system is just for gathering students' idea about some selected topics. University staffs' can observe students' activities and manage students posts' and comments'. We meet all requirements to make it successful.

At the end, I want to say thanks to all of my team members. I am really happy to work with them. We enjoyed some fantastic moments while doing this assignment. We worked like as friends. At last I want to say i learnt some important things while developing this system. This knowledge will be helpful in my future work.

### **Appendices**

#### **Appendices A User Interface Design**

The wireframe interface model of this proposed system:



The wireframe shows a simple user login interface. It features a title 'Please Sign In' at the top. Below the title are two input fields: one for 'E-mail' and one for 'Password', both enclosed in rounded rectangular boxes. Underneath the password field is a checkbox labeled 'Remember Me'. At the bottom of the form is a large, prominent 'Login' button.

**Figure 11 Users login interface**

The screenshot shows the ideaBook application's user interface. At the top, there is a navigation bar with links for 'Home' and 'Logout'. On the left, a sidebar menu includes 'Mr.', 'Control', 'Home' (which is selected), 'Timeline', and 'Message'. The main content area displays a post from 'Foysal' dated '2018-04-01 at 01:04:42 pm' titled 'New Idea'. Below the title is a 'Read More' button. Underneath the title, there are engagement metrics: 2 likes, 0 comments, and a 'Follow' button. A text input field for comments is labeled 'Leave a Comment here'. At the bottom of the comment section are two buttons: '✓Identified' and 'Comment'. The overall layout is clean and modern, typical of a social media or idea-sharing platform.

Figure 12 idea showing in the timeline view

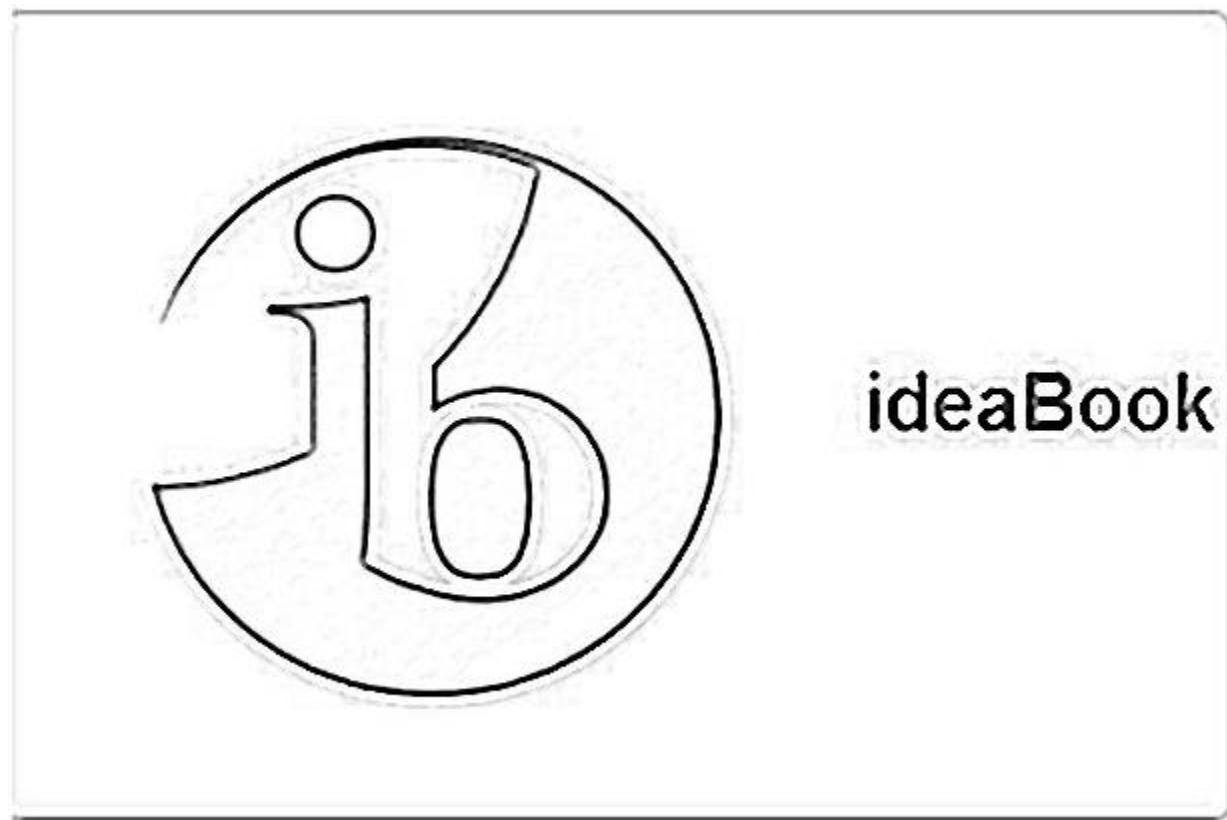
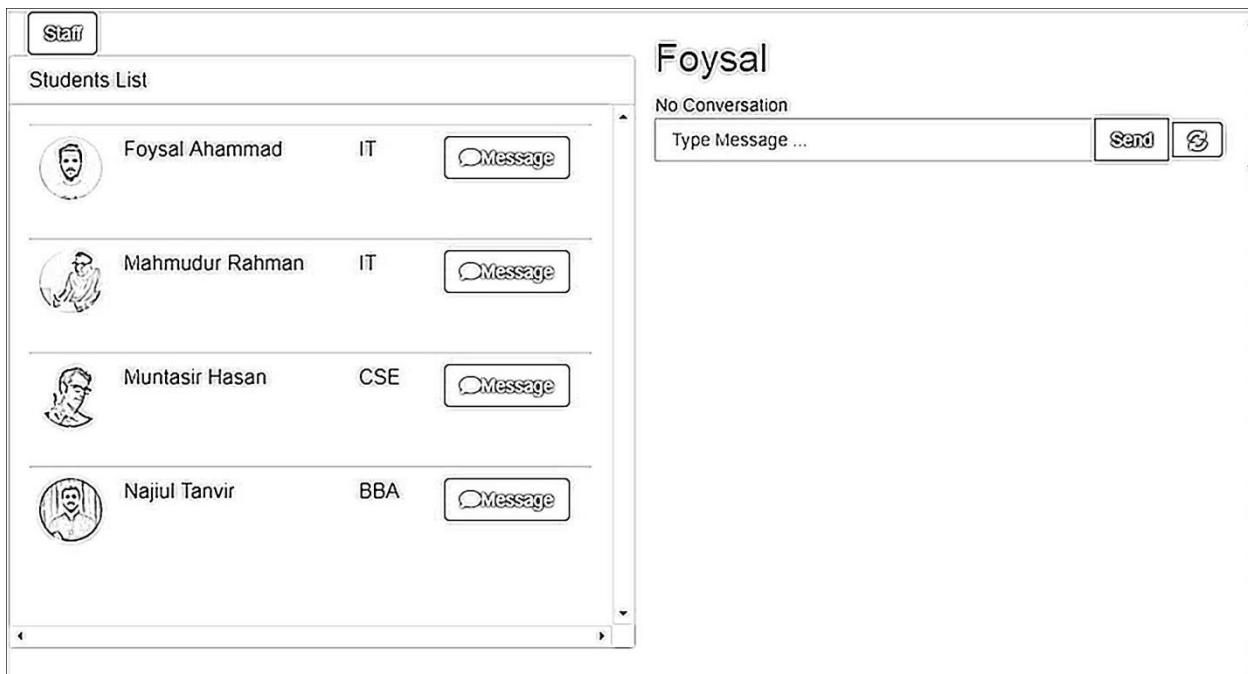


Figure 13 Proposed system's logo



**Figure 14 Message send and view**

Category Name:	Closure Date	Final Closure	Details
ICT Carnival	2018-04-20	2018-04-30	<a href="#">Details</a>

**Figure 15 Category info ass and view**

## Appendix B: Tools Usages

### Language

- PHP
- Javascript

## Framework

- Bootstrap

## Libraries

- JQuery
- DataTables
- Gstatic
- Google recaptcha

## Database

- Mysql

## Appendices B: Responsive Application

This ideaBook application is developed by taking into account of all device screen sizes, including smart phone, tablets, desktop computer and etc. This responsive interface was a system requirement. Using CSS framework Bootstrap for make responsive interface to run the application on all devices. The user interface screenshot given below:

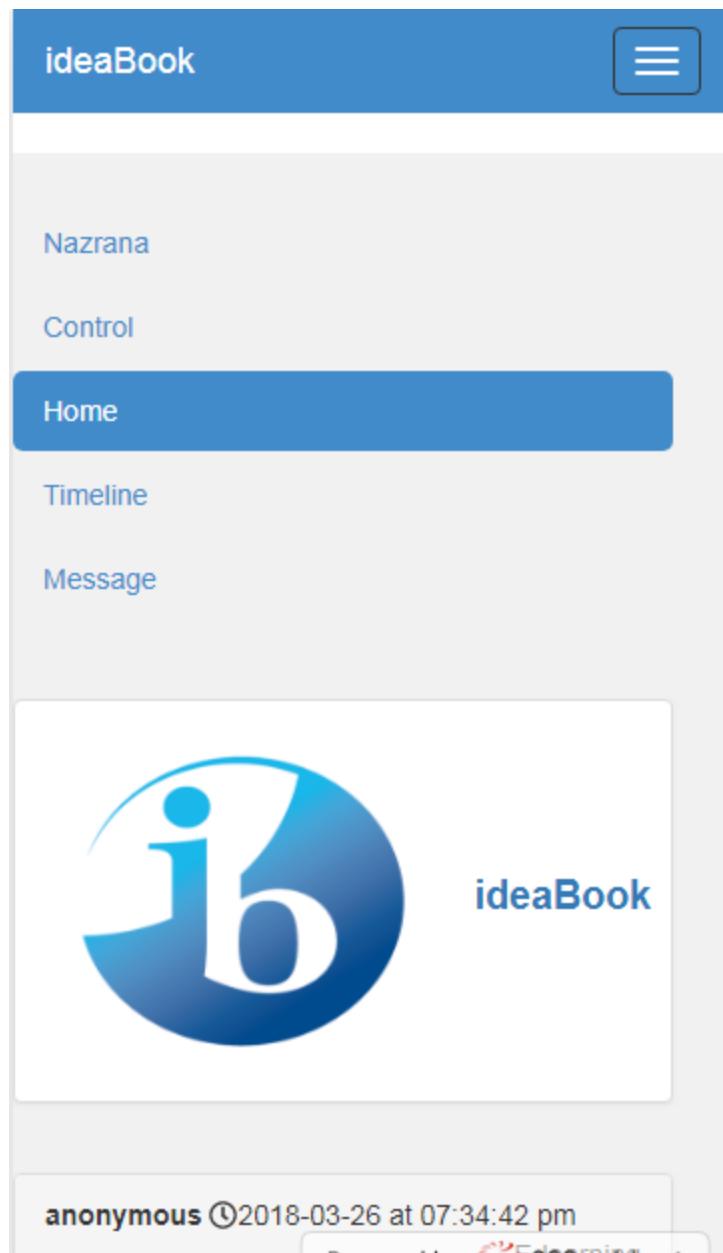


Figure 16 Samsung Galaxy S3-7 ideaBook timeline view

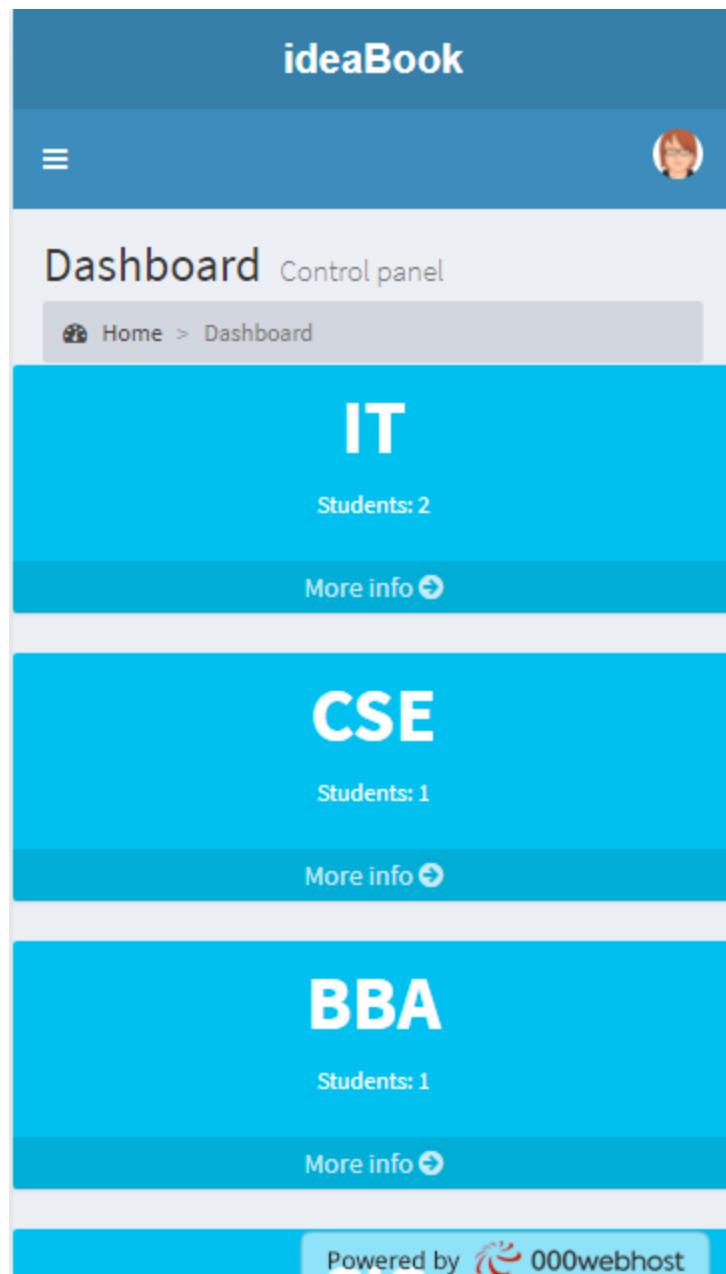


Figure 17 Samsung Galaxy S3-7 admin control view

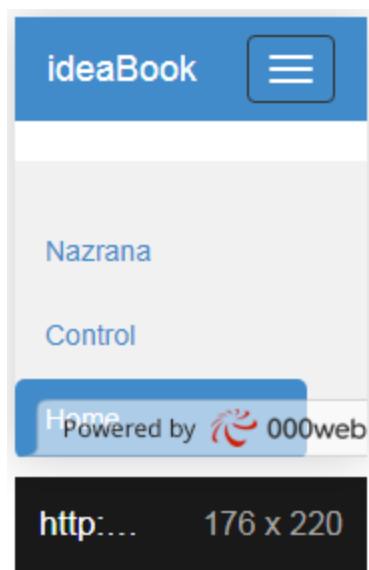


Figure 18 Motorola RAZR V3m timeline View

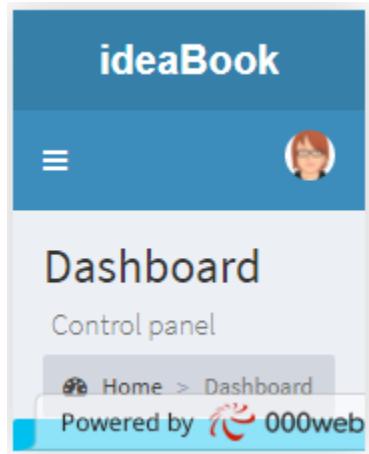


Figure 19 Motorola RAZR V3m admin control View

The screenshot shows the ideaBook desktop interface for staff. The top navigation bar includes 'Nazrana' (highlighted in green), 'Home', and 'Logout'. The left sidebar has links for 'Nazrana', 'Control', 'Home' (highlighted in blue), 'Timeline', and 'Message'. The main content area displays a post from 'anonymous' at 03/26/2018 07:34:42 pm, categorized under 'E-learning'. The post title is 'Searching for knowledge' with a 'Read More' button. Below the post is a comment section with a blue header 'Attachment'. It shows 0 likes, 0 comments, and a 'Follow' button. A comment input field says 'Leave a Comment here' with buttons for 'Identified' (green), 'Anonymous' (orange), and 'Comment' (blue). The right sidebar offers 'Account Setting' and 'Logout'.

Figure 20 Desktop timeline view for Staff

The screenshot shows the ideaBook desktop interface for students. The top navigation bar includes 'Foysal' (highlighted in green), 'Home', and 'Logout'. The left sidebar has links for 'Home' (highlighted in blue), 'Timeline', 'Idea Category', and 'Message'. The main content area shows a 'Post Your Idea' form with a green header 'Post Your Idea' and a dropdown menu 'E-Learning'. It includes fields for 'Idea Title' and 'What's on your mind?'. Below the form are buttons for 'Select file' and 'Anonymous?'. A dashed line separates this from a post by 'Foysal' at 03/25/2018 07:33:46 pm, categorized under 'Test Category'. The post content is 'This is idea Title from foysal'. The right sidebar offers 'Account Setting' and 'Logout'.

Figure 21 Desktop timeline view for students

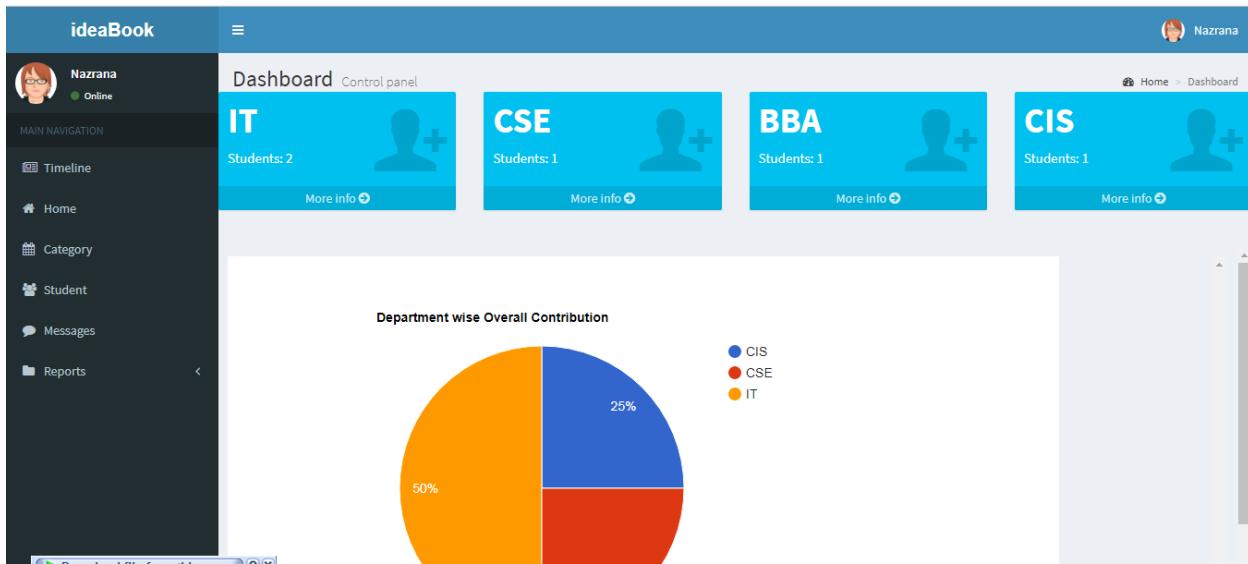


Figure 22 Admin Dashboard view for QAC

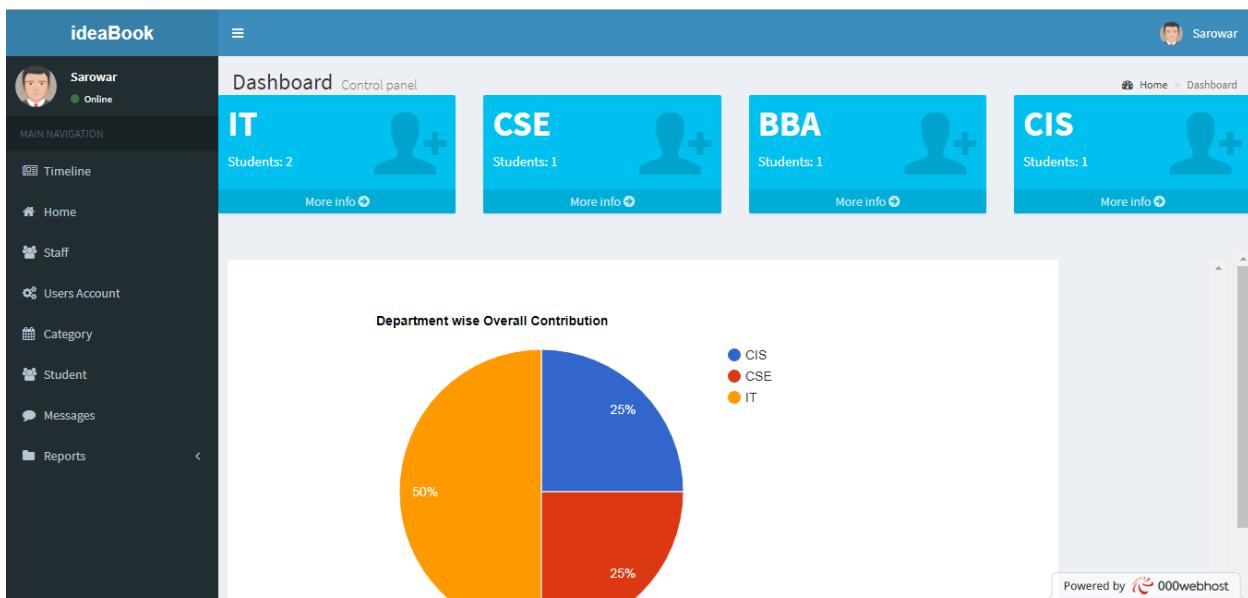


Figure 23 Admin Dashboard view for QAM

### Appendices C: Completed System

Three Types of users use this system, they are Quality Assurance Manager (QAM), Quality Assurance Coordinators (QAC) and Students'. Every user have to login by email, password and pass google recaptcha to gain access to the system.

Key functions of users of the proposed system:-

## Quality Assurance Manager (QAM) Functions

- Launch New Category:

QAM can launch a new category with set closure date and final closure date

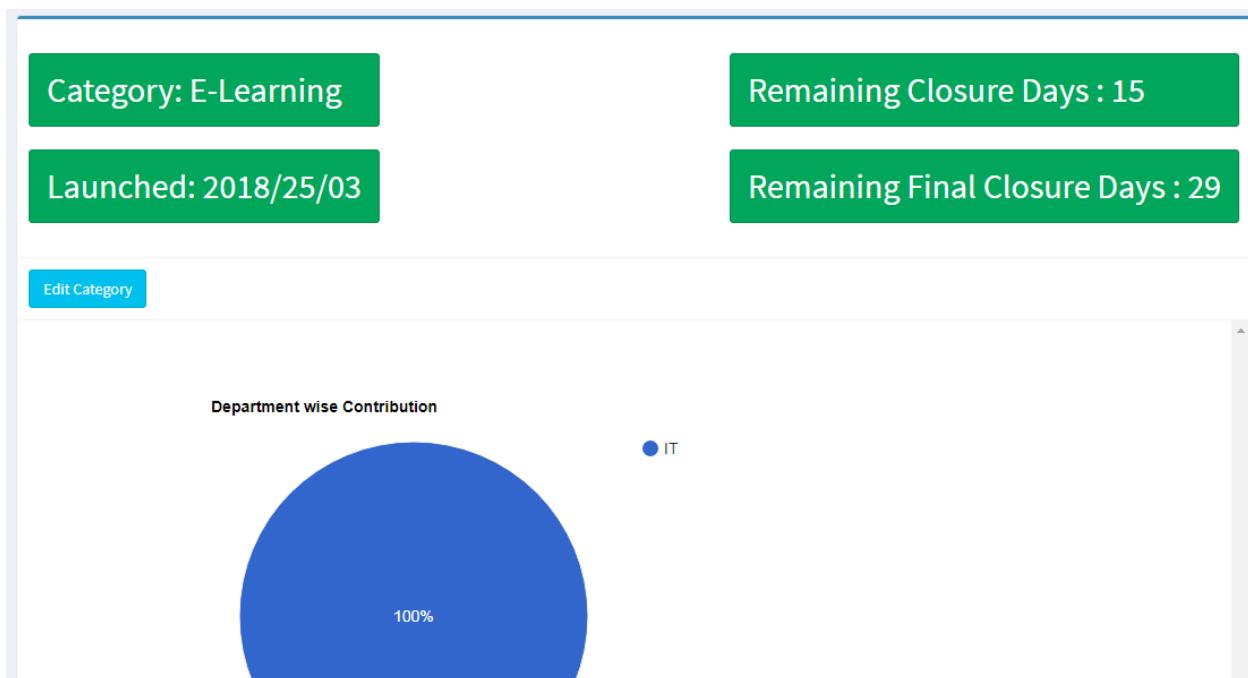
The screenshot shows the ideaBook application interface. On the left is a dark sidebar with navigation links: Timeline, Home, Staff, Users Account, Category (which is selected), Student, Messages, and Reports. The main content area has a blue header bar with the title 'Dashboard Manage Category'. Below the header is a 'Launch Category' form with three input fields: 'Name' (Category Name), 'Closure Date' (Closure Date), and 'Final Closure Date' (Final Closure Date). A green 'Launch' button is at the bottom of the form. To the right of the form is a table titled 'On Going Category' with two rows of data. The columns are 'Category Name', 'Closure Date', 'Final Closure', and 'Details'. The first row shows 'E-Learning' with closure dates '2018-04-11' and '2018-04-25'. The second row shows 'Test Category' with closure dates '2018-04-12' and '2018-04-20'. A search bar and pagination controls are at the bottom of the table.

Figure 24 Launch New category

This screenshot displays summary information for a launched category. It consists of four green rectangular boxes arranged in a 2x2 grid. The top-left box contains the text 'Category: E-Learning'. The top-right box contains 'Remaining Closure Days : 14'. The bottom-left box contains 'Launched: 2018/25/03'. The bottom-right box contains 'Remaining Final Closure Days : 28'.

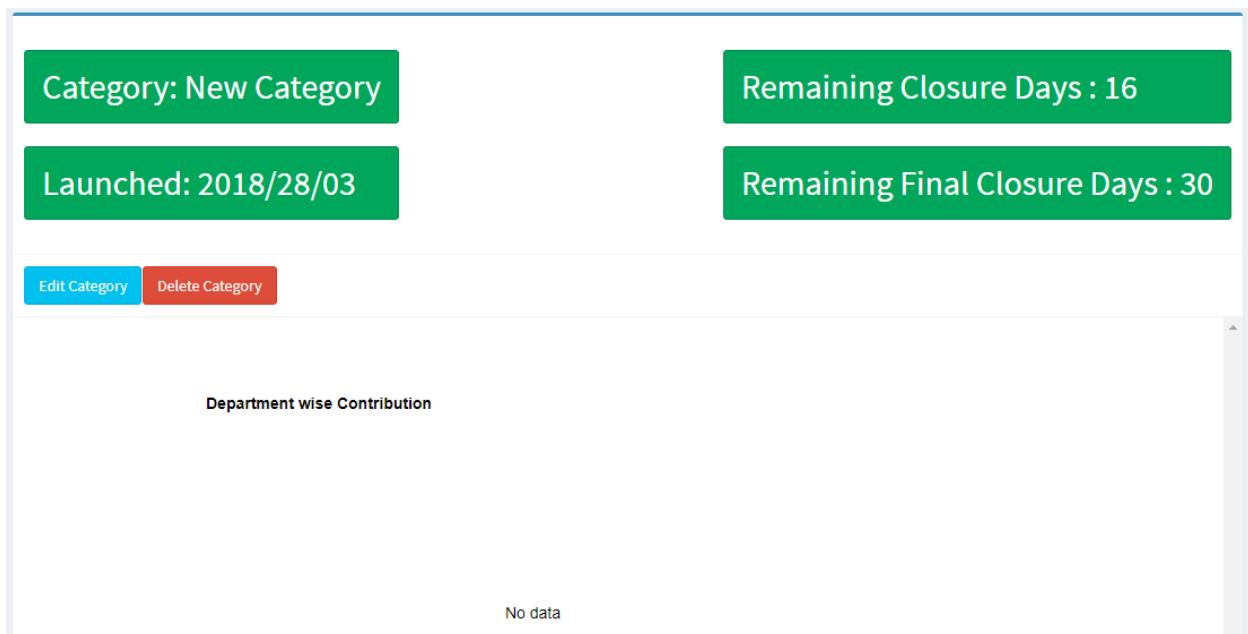
Figure 25 Showing remaining days of closure date and final closure date.

- Edit Category information

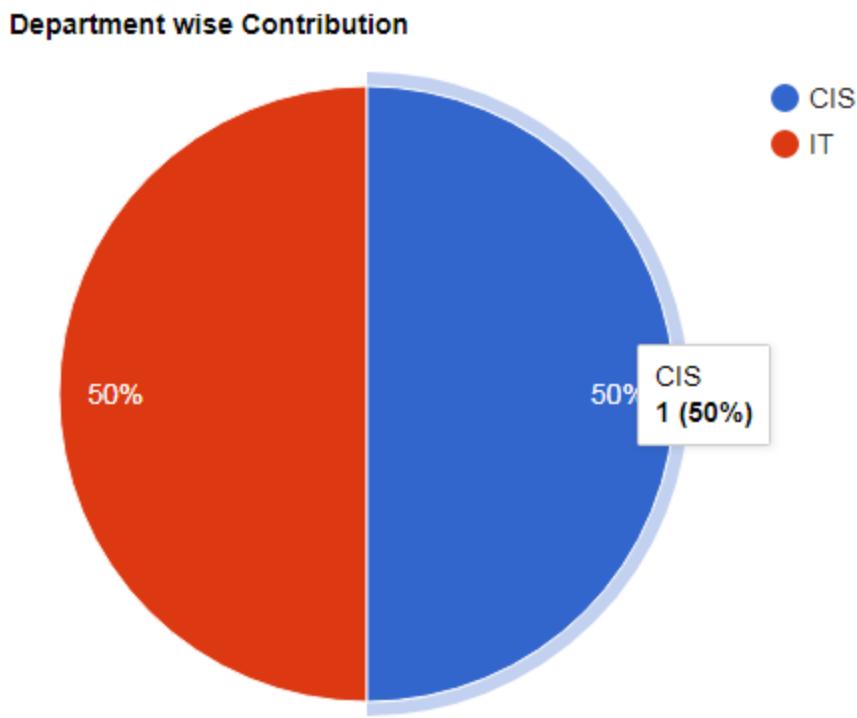


**Figure 26 Edit Category name and dates**

- Edit and Delete Category:



**Figure 27 Edit and Delete a category if this category is unused.**



**Figure 28 Department wise contribution on selected category.**

Most Viewed Idea

Foysal Ahammad  
Published - 2018-03-25 at 03:42:30 pm

E-learning help as a source of information

Students don't have to remember every thing or don't have to take notes of every important point as they have every thing on net through E-learning source.

No Attachment

2 Like(s) & 0 Unlike(s) - 2 Comment's -Viewed 1 Times

**Figure 29 Showing most popular idea in this selected category**

Show 10 entries		Search:				
Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details
E-learning help as a source of information	Students don't have to remember every thing or don't have to take notes of every important point as they have everything on net through E-learning source.	Foysal	2018-03-25	03:42:30 pm	No Attachment	<a href="#">Details</a>
Test Post	ghjdfsfs	Sajid	2018-03-29	02:05:34 pm	No Attachment	<a href="#">Details</a>
Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details

Showing 1 to 2 of 2 entries

Previous **1** Next

**Figure 30 Showing all posted ideas in this selected category.**



**Foysal Ahammad**  
Published - 2018-03-25 at 03:42:30 pm

**E-learning help as a source of information**

Students don't have to remember every thing or don't have to take notes of every important point as they have everything on net through E-learning source.

No Attachment [Block](#) [Delete](#)

2 Like(s) & 0 Unlike(s) - 2 Comment's

 **Sajid Rayhan**  
Anonymous comment by Sajid  
[Delete](#)

 **Sajid Rayhan**  
good writing  
[Delete](#)

2018-03-29 at 12:12:57 pm

2018-03-29 at 01:16:55 pm

**Figure 31 QAM, QAC can Block and Unblock any posted idea. Also can delete any idea and comment**

**Anonymous** 2018-03-29 at 12:12:57 pm  
Anonymous comment by Sajid

**Sajid Rayhan**  
Anonymous comment by Sajid

**Delete**

**Students View**

**QAM, QAC view**

**Figure 32** Showing students and staff view of an anonymous comment.

- Manage Staff profile:

All Staffs List					
Show 10 entries		Search:			
Full Name	Joinning Date	Department	Details		
Nazrana Haque	2018-5-1	IT	<b>Details</b>		
Full Name	Joinning Date	Department	Details		

Showing 1 to 1 of 1 entries

Previous 1 Next

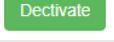
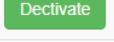
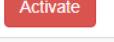
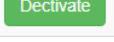
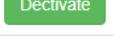
**Figure 33** View staffs' list

The screenshot shows a 'Staff Profile' page for 'Nazrana Haque'. On the left, there's a sidebar with her profile picture, name, title ('STAFF'), and ID ('Staff ID: 2'). Below that are sections for 'Account Status' (set to 'Activate'), 'Joinning Date' ('2018-5-1'), and 'Total Comments' ('1 Comment's'). A message input field with 'Type Message ...' and a 'Send' button is present. On the right, a 'Timeline' section displays a single comment from 'Nazrana Haque' shared publicly on '2018-03-28 at 01:37:08 pm'. The comment reads 'Good idea'. There are 'Details' and 'Delete' buttons next to the comment.

Figure 34 Showing staff profile with comments

This screenshot is identical to Figure 34, showing the same staff profile for 'Nazrana Haque'. However, the 'Deactivate' button at the bottom of the sidebar is now highlighted with a red rectangle.

Figure 35 QAM can Activate or Deactivate staffs' account

All Users List						
				Search: <input type="text"/>		
Full Name	User Type	Email	Password	Status	Action	
Foysal Ahammad	STD	foysal35@diit.info	..... 	 Dectivate	 Delete	
Mahmudur Rahman	STD	samir35@diit.info	... 	 Dectivate	 Delete	
Muntasir Hasan	STD	siam35@diit.info	... 	 Dectivate	 Delete	
Najmul Tanvir	STD	tanvir@gmail.com	... 	 Activate	 Delete	
Nazrana Haque	STAFF	foysalahammed055@gmail.com	... 	 Dectivate	 Delete	
Sajid Rayhan	STD	sajid35@diit.info	... 	 Dectivate	 Delete	
Full Name	User Type	Email	Password	Status	Delete	

Showing 1 to 6 of 6 entries

Previous 1 Next

**Figure 36 Change Users account status and delete accounts**

## Quality Assurance Coordinator (QAC) Functions

Foyosal ① 2018-04-01 at 01:04:42 pm

ICT Carnival

### New Idea

[Read More](#)

2 Likes | 0 Comments | Follow

Leave a Comment here

✓ Identified | Comment

Figure 37 Submit comment and reactions (Like & Unlike)

Evan Ashton  
Published - 2018-03-29 at 07:21:49 am

### What is eLearning?

Understanding eLearning is simple. eLearning is learning utilizing electronic technologies to access educational curriculum outside of a traditional classroom. In most cases, it refers to a course, program or degree delivered completely online. There are many terms used to describe learning that is delivered online, via the internet, ranging from Distance Education, to computerized electronic learning, online learning, internet learning and many others. We define eLearning as courses that are specifically delivered via the internet to somewhere other than the classroom where the professor is teaching. It is not a course delivered via a DVD or CD-ROM, video tape or over a television channel. It is interactive in that you can also communicate with your teachers, professors or other students in your class. Sometimes it is delivered live, where you can "electronically" raise your hand and interact in real time and sometimes it is a lecture that has been prerecorded. There is always a teacher or professor interacting /communicating with you and grading your participation, your assignments and your tests. eLearning has been proven to be a successful method of training and education is becoming a way of life for many citizens in North Carolina.

No Attachment | [Block](#) | [Delete](#)

1 Like(s) & 0 Unlike(s) - 1 Comment's

Freya Gardiner  
fgdgdfgd

[Delete](#)

Figure 38 Can manage idea

<p><b>Category Name:</b></p> <div style="border: 1px solid #ccc; padding: 5px; width: 100%;"><input type="text" value="Select Category"/></div>	<input style="background-color: #007bff; color: white; border: none; padding: 5px; width: 100%;" type="button" value="Get List"/>																					
<b>Departmental Students Ideas List</b>																						
<p>Show <input type="text" value="10"/> entries</p>	Search: <input type="text"/>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Idea Title</th> <th>Idea Body</th> <th>Publisher Name</th> <th>Date</th> <th>Time</th> <th>Attachment</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>New Idea</td> <td>jfdlgfd</td> <td>Foysal</td> <td>2018-04-01</td> <td>01:04:42 pm</td> <td>No Attachment</td> <td><input style="background-color: #007bff; color: white; border: none; padding: 2px 5px;" type="button" value="Details"/></td> </tr> <tr> <th>Idea Title</th><th>Idea Body</th><th>Publisher Name</th><th>Date</th><th>Time</th><th>Attachment</th><th>Details</th></tr> </tbody> </table>	Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details	New Idea	jfdlgfd	Foysal	2018-04-01	01:04:42 pm	No Attachment	<input style="background-color: #007bff; color: white; border: none; padding: 2px 5px;" type="button" value="Details"/>	Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details	
Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details																
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Idea Title	Idea Body	Publisher Name	Date	Time	Attachment	Details																
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<input type="button" value="Previous"/> <input type="button" value="1"/> <input type="button" value="Next"/>																						

**Figure 39 QAC can view own departmental ideas in category wise.**

## Students Function

- Submit a new idea

**Post Your Idea**

ICT Carnival

Idea Title

What's on your mind?

2000 characters remaining

Anonymous?

---

Agree with terms & conditions
[Learn More](#)

**Figure 40 Idea submission form**

**Post Your Idea**

ICT Carnival ▾

The three day long 'Daffodil ICT Carnival-2018' is going to kick-off in Daffodil International University (DIU) at the

ICT Project Exhibition, Interactive Session, Panel Discussion, Career Talk, Seminar, Workshop, Symposium, Smart Campus Hackathon, Programming Contest, Quiz Contest, Fun Games, Movie, Game Shows, Techno Fashion Shows etc will take place during the carnival.

1744 characters remaining

Anonymous?

---

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**Figure 41 Idea posting**

Foysal @2018-04-05 at 01:41:02 am

ICT Carnival

The three day long 'Daffodil ICT Carnival-2018' is going to kick-off in Daffodil International University (DIU) at the Ashulia campus.

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0 Comment's

Leave a Comment here

Identified

Anonymous

[Comment](#)

**Figure 42 Posted idea view**

Foysal @2018-04-05 at 01:41:02 am

ICT Carnival

The three day long 'Daffodil ICT Carnival-2018' is going to kick-off in Daffodil International University (DIU) at the Ashulia campus.

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ICT Project Exhibition, Interactive Session, Panel Discussion, Career Talk, Seminar, Workshop, Symposium, Smart Campus Hackathon, Programming Contest, Quiz Contest, Fun Games, Movie, Game Shows, Techno Fashion Shows etc will take place during the carnival.



0 Comment's

Leave a Comment here

Identified

Anonymous

[Comment](#)

**Figure 43 User can read idea details by clicking read more button**



Sajid 2018-04-05 at 01:45:13 am

Good thinking.

Leave a Reply here

[Reply](#)

**Figure 44 Student commented on the idea**

Foysal @2018-04-05 at 01:41:02 am

ICT Carnival

The three day long 'Daffodil ICT Carnival-2018' is going to kick-off in Daffodil International University (DIU) at the Ashulia campus.

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1 Comment's

Leave a Comment here

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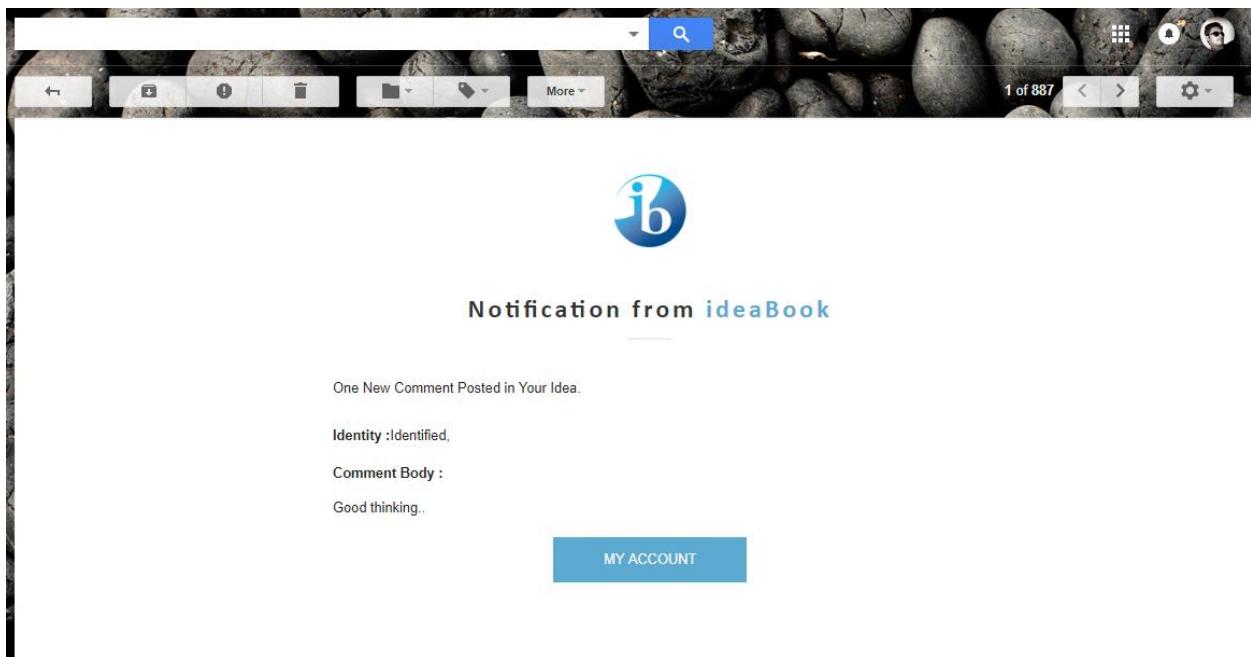
[Comment](#)



Sajid 2018-04-05 at 01:45:13 am

Good thinking.

**Figure 45 Idea view with like, comment and follower**



**Figure 46 Student gets notification for every single posted comment on his idea**