Course: COMP1640
Enterprise Web Software Development

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Due date: 12th April2018

Team Name: Smart team

Team member:

Name	Role
	Programmer, Designer
	Scrum Master, Tester
	Database designer
	Analyst

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Introduction:

In this course work, we are required to build a secure web-enabled role-based system for collecting ideas for improvement from students in a large university. We name our system as Idea Hunter. Now I am going to evaluate the product, process, our team and myself also.

Evaluation of product and process:

There are number of potential actor of the system to be found after requirement analysis and they are QA coordination, QA manager, Student, staff, teacher and admin. All staff of the university will have to share same panel but with different access and student will access another panel. Our team has tried to analyze the functional and non-functional requirement of the system from the requirement specification and then tried to develop the entire requirements. Throughout the development the system was tested as test plan so it is said that the system had met almost all the requirements. Below I am going to discuss the major strength and weakness the system with appropriate Screenshots and commentary.

Strength of the system:

- System has met almost all the requirement found from the requirement specification. Those prove are given below by screenshots of the system.

    1. QA manager can add new topic.

        According to the requirement specification the QA manager should able to add new topic so that the students can get the opportunity to submit one or more ideas.

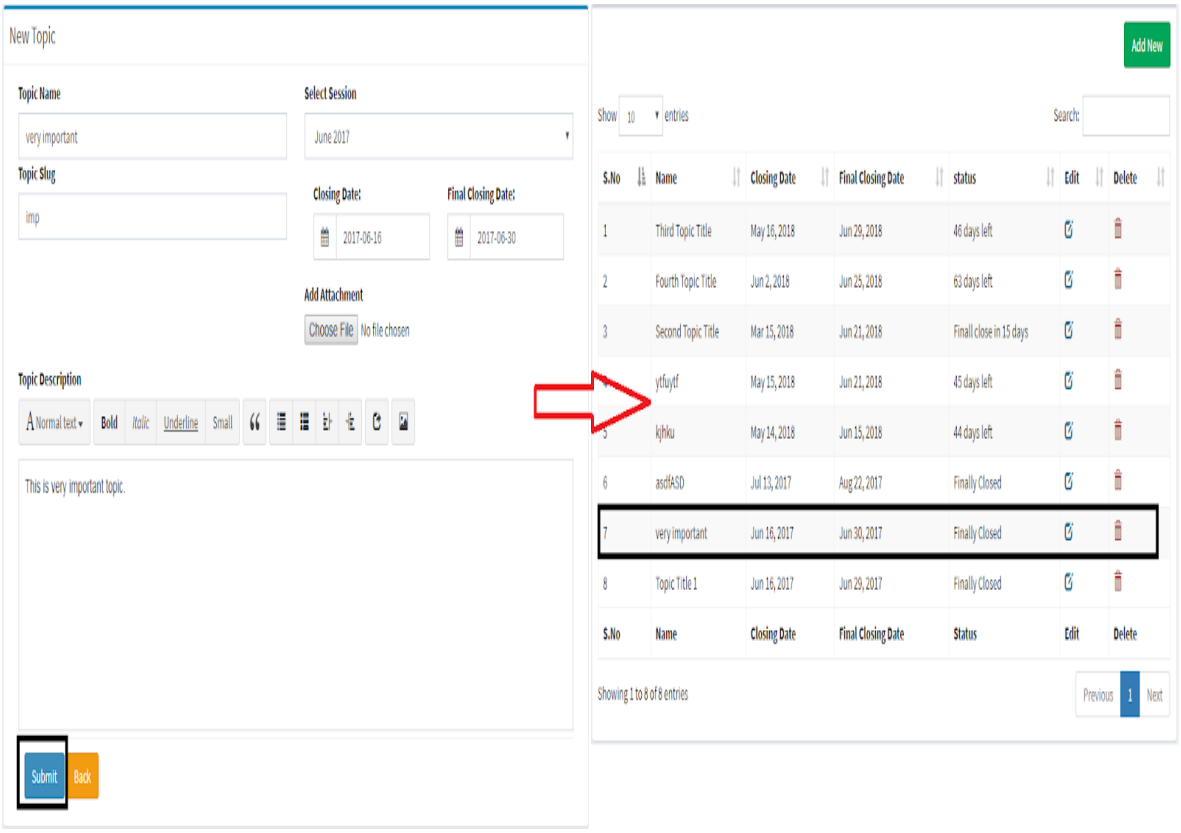

Figure 1: QA manager can add new topic

2. QA manager can modify categories:

   According to the requirement specification the QA manager should able to modify category. Our develop system also give the option to add edit and delete the category.

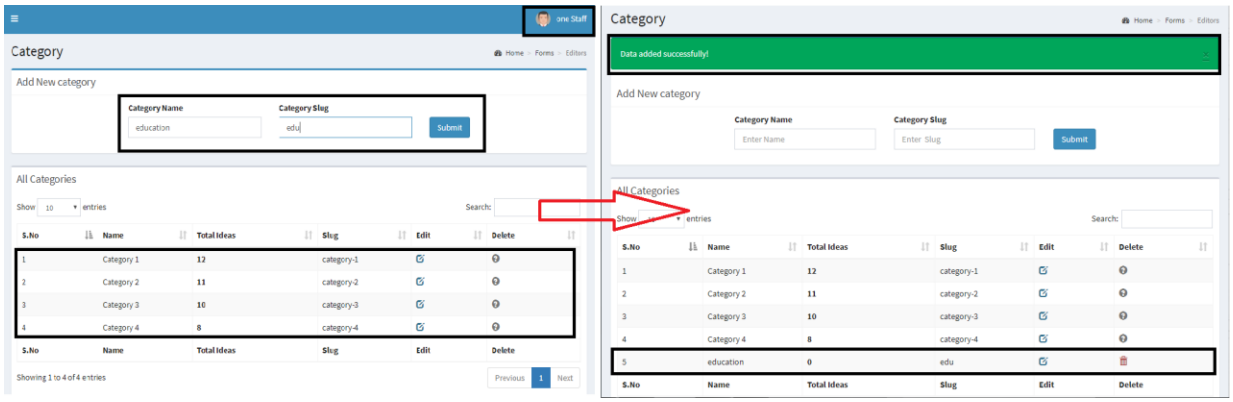

Figure 2: admin add category

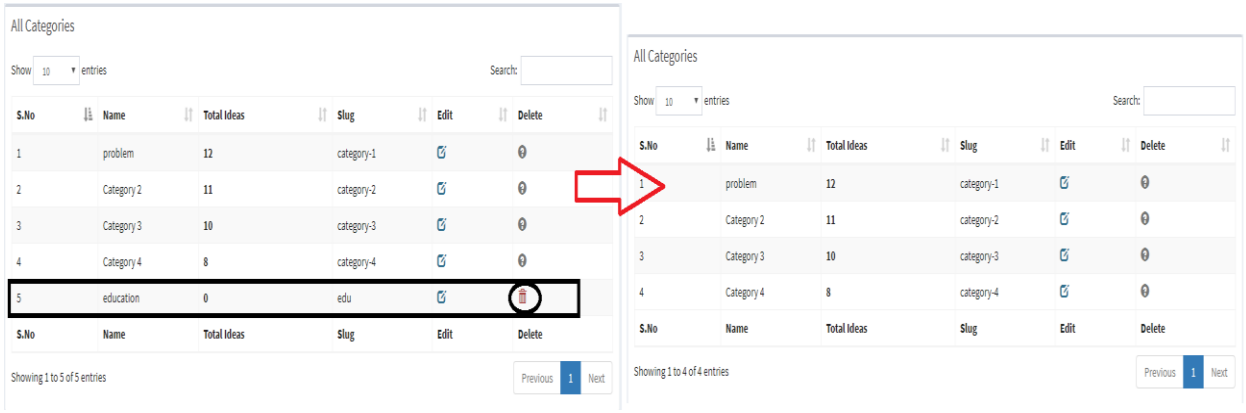

Figure 3: admin delete category

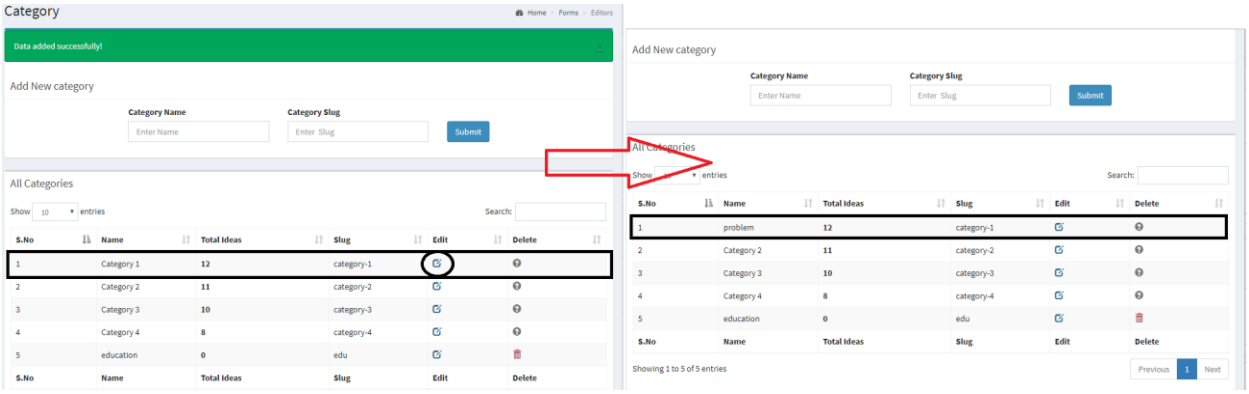

Figure 4: admin edit category

3. QA manager can download ideas after final closure date:

   According to the requirement specification the QA manager should have the ability to download ideas , Our develop system also give the opportunity to download Idea with all the selected contribution after the final closure date in a ZIP file for transfer out of the system.

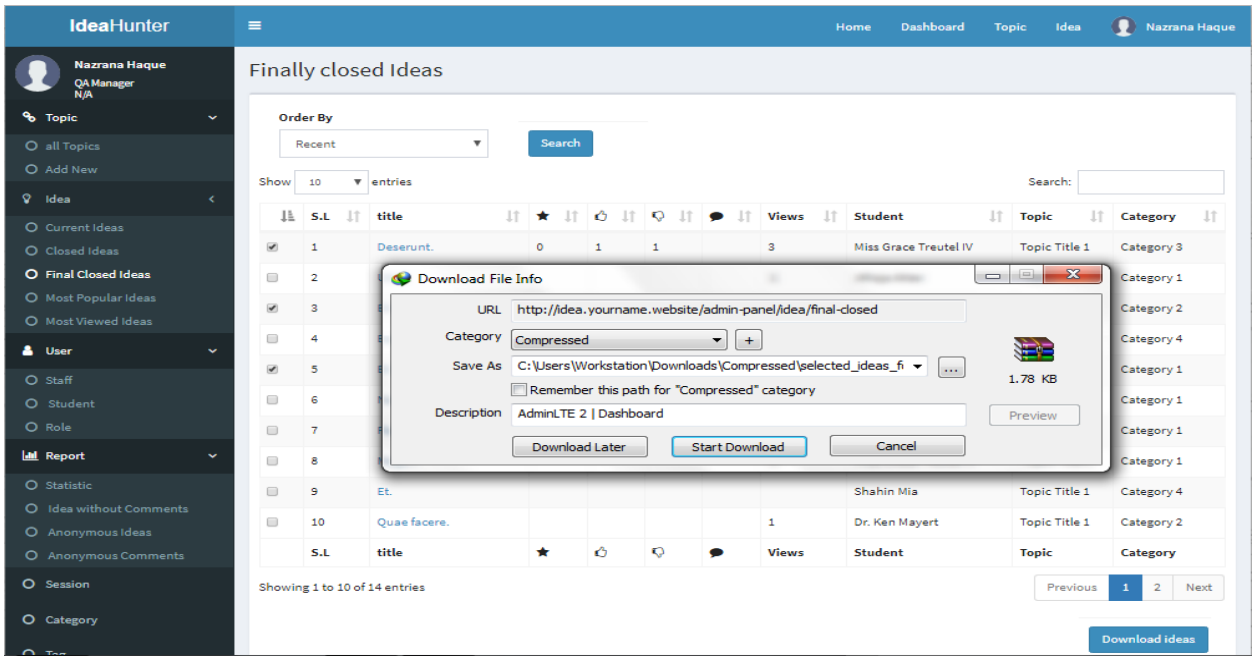

Figure 5: QA manager can download idea

4. Student can submit idea under a Topic:

   According to the requirement specification students should have the ability to submit their ideas under an available topic set by QA manager. Our developed system give a nice and useful submit form to share the idea.

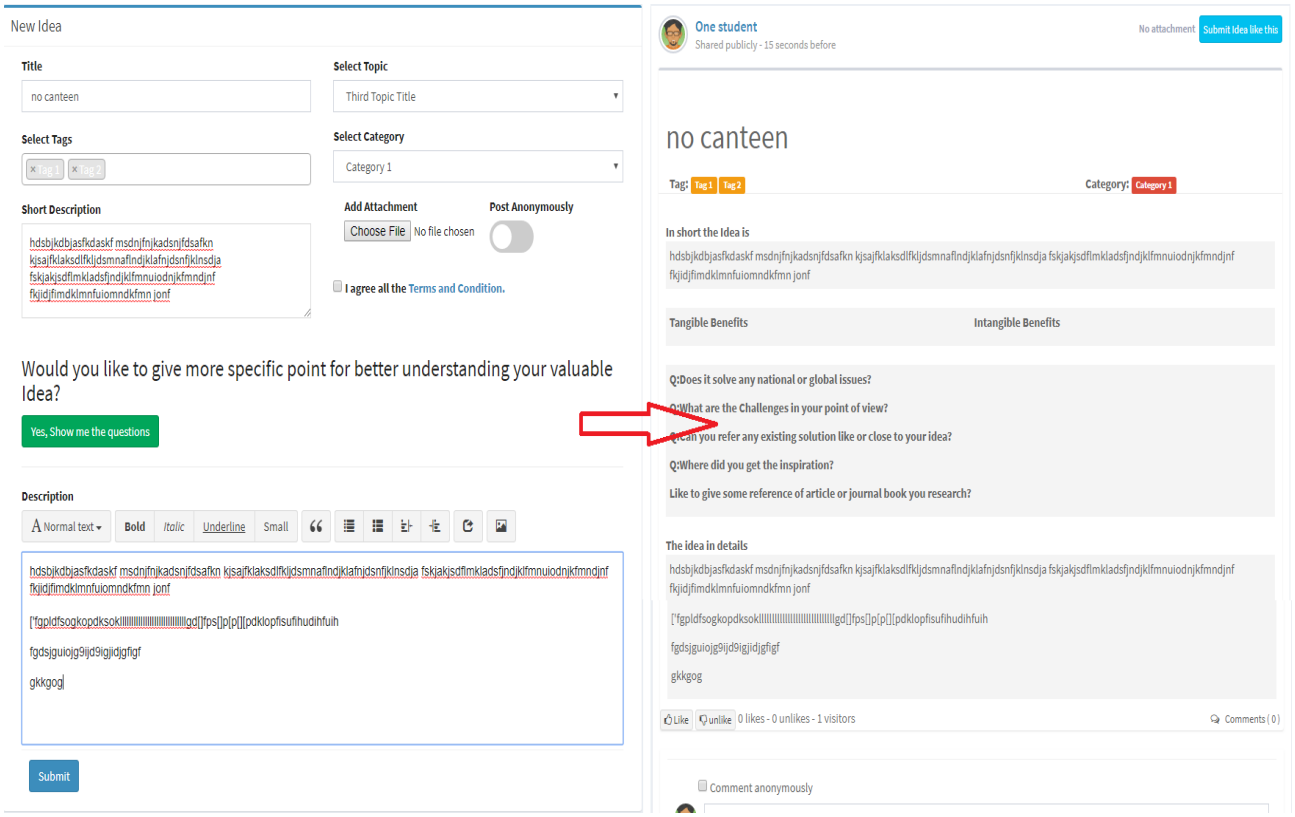

Figure 6: student submit a idea

5. Authorized user can view all ideas available:

   According to the requirement specification all the authorized user can view all ideas available. Our developed system also gives the opportunity to all staff and students to see all submitted ideas.

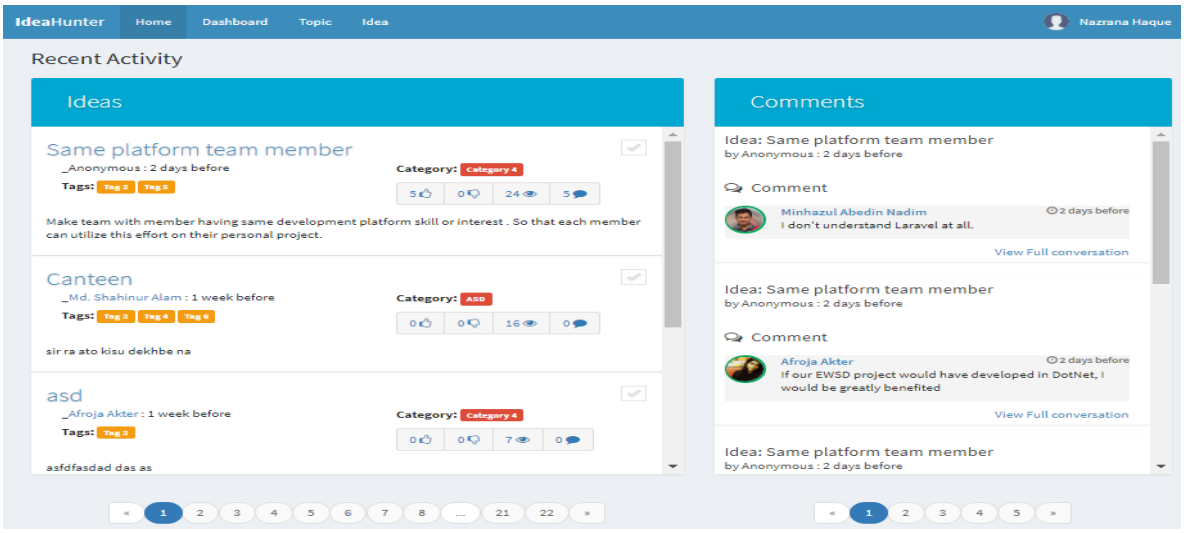

Figure 7: staff can see all ideas

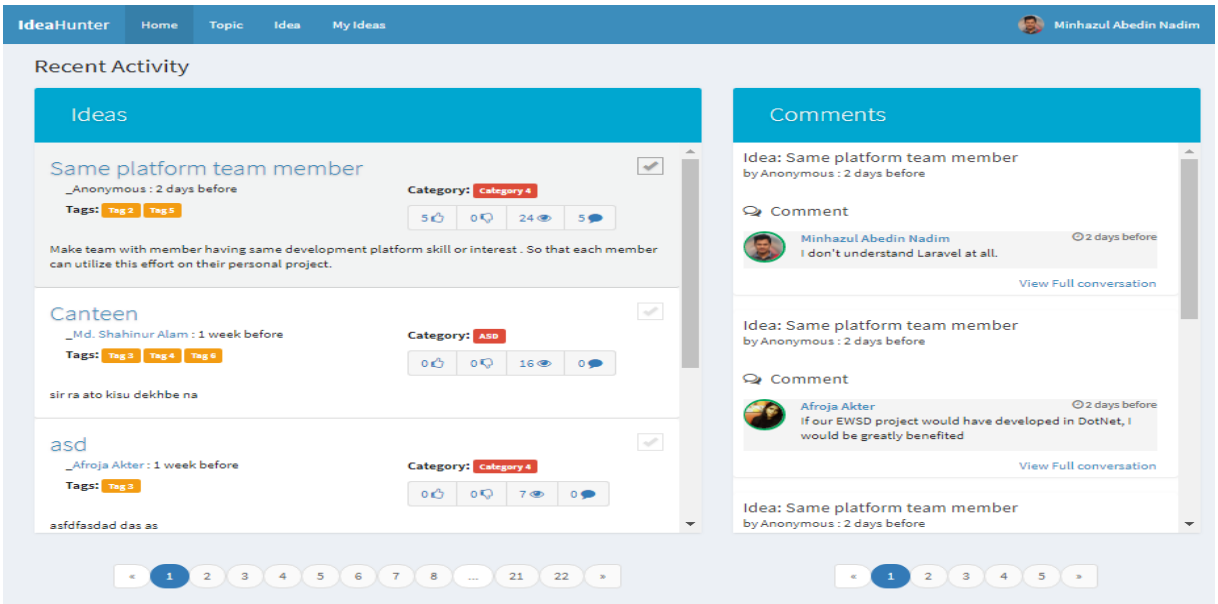

Figure 8: student can see all ideas

6. Authorized user can comment on ideas available.

   According to the requirement specification all of the authorized user can comment on all ideas available. Our developed system also gives the opportunity to all staff and students to comment on all submitted ideas even anonymously.

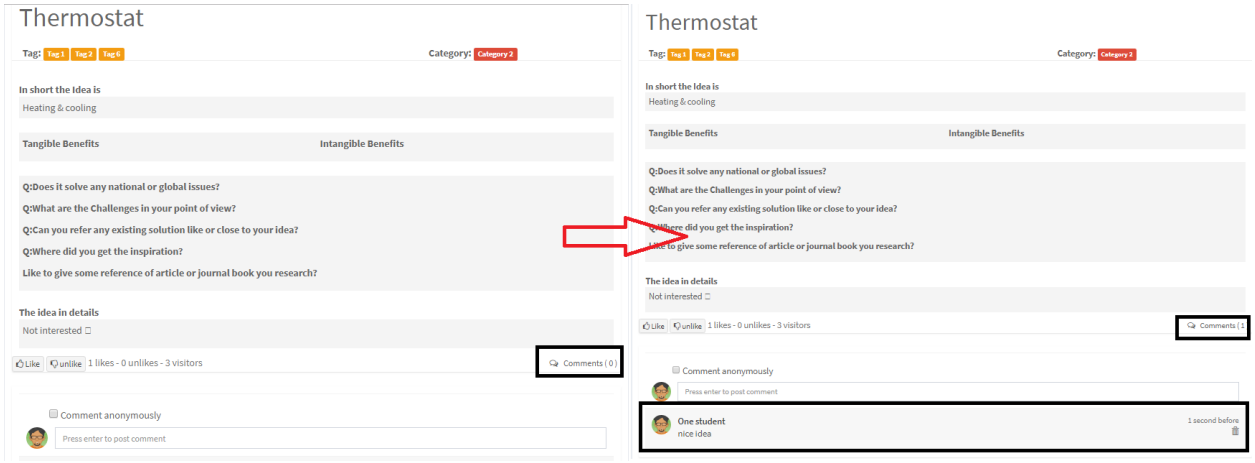

Figure 9: student comment on a post

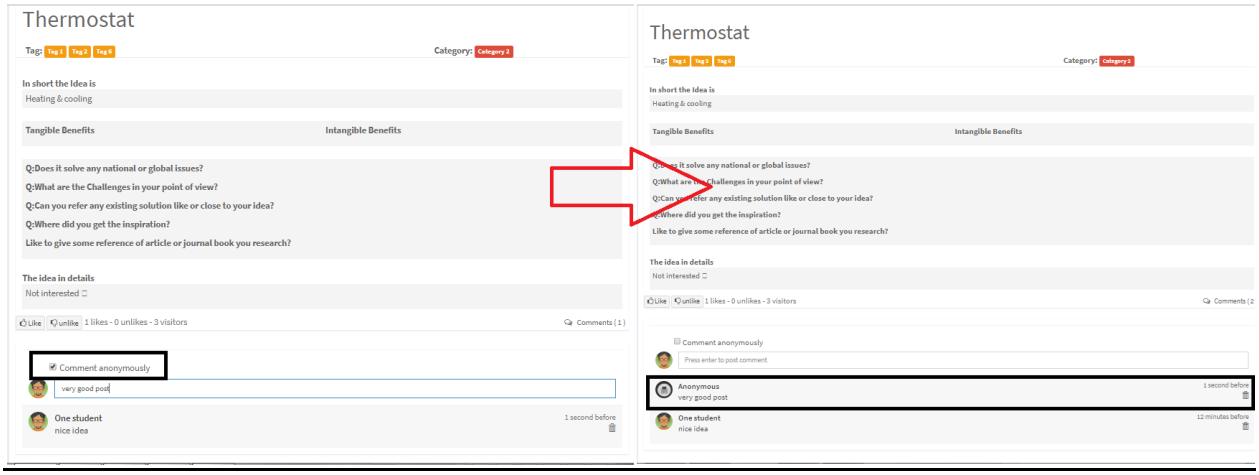

Figure 10: student comment on a post anonymously

7. Authorized user can react on comment and idea both:

   According to the requirement specification all of the authorized user can react on all ideas and comment available. Our developed system also gives the opportunity to all staff and students to react on all submitted ideas and comment.

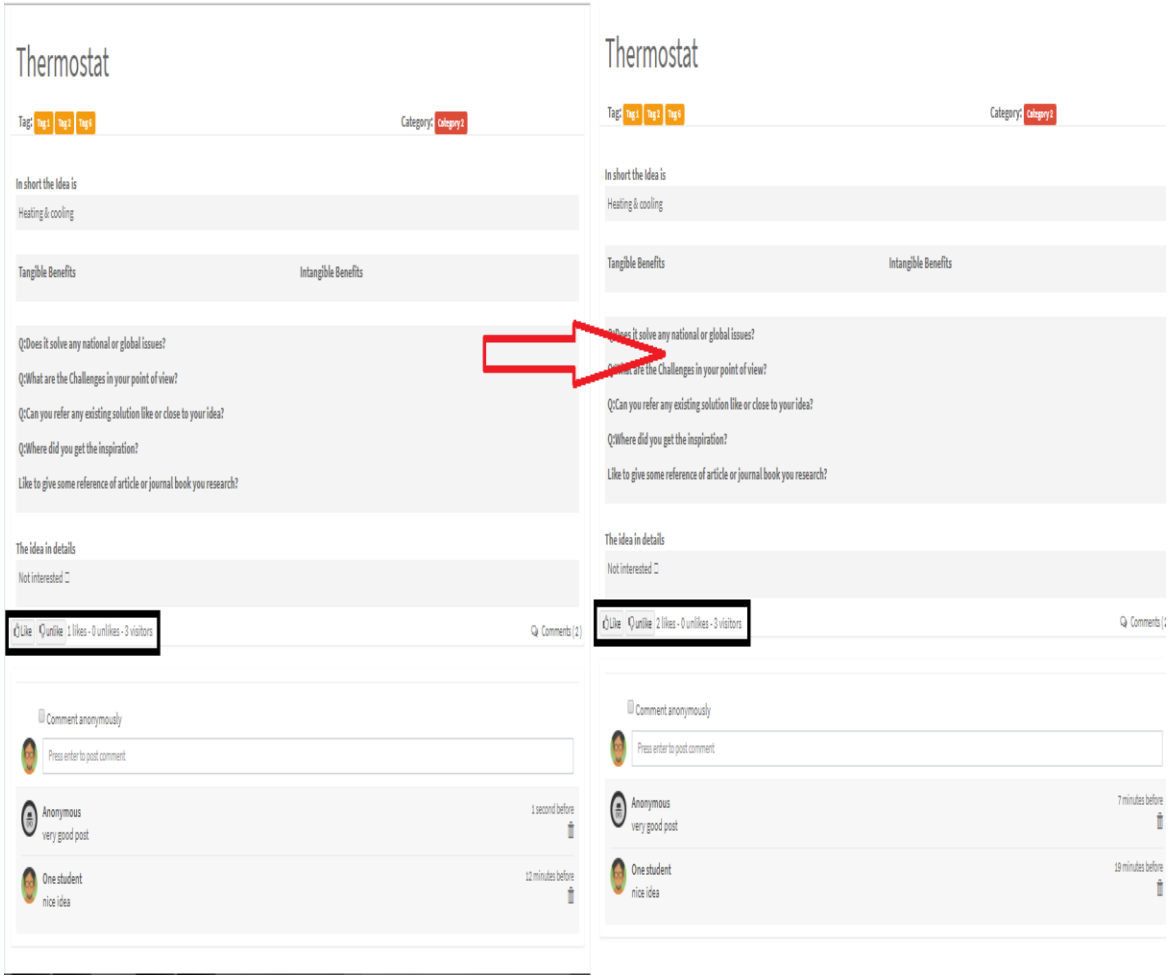

Figure 11: student gives reaction on post

8. System can do statistical analysis.

   According to the requirement specification system should do statistical analysis. Our developed system also gives the opportunity to staff to see statistical analysis number of contributor within each department, number of idea by each department, percentage of idea within each department.

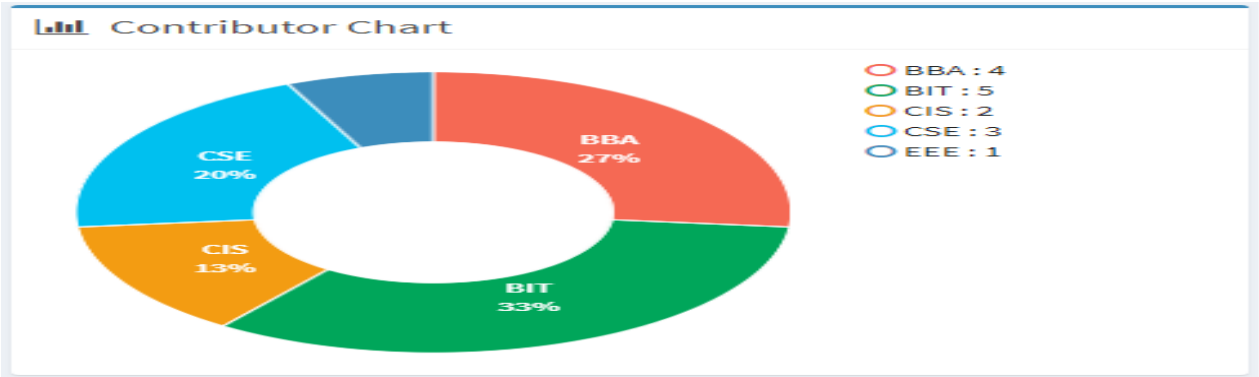

Figure 12: statistical analysis of number of contributor within each department

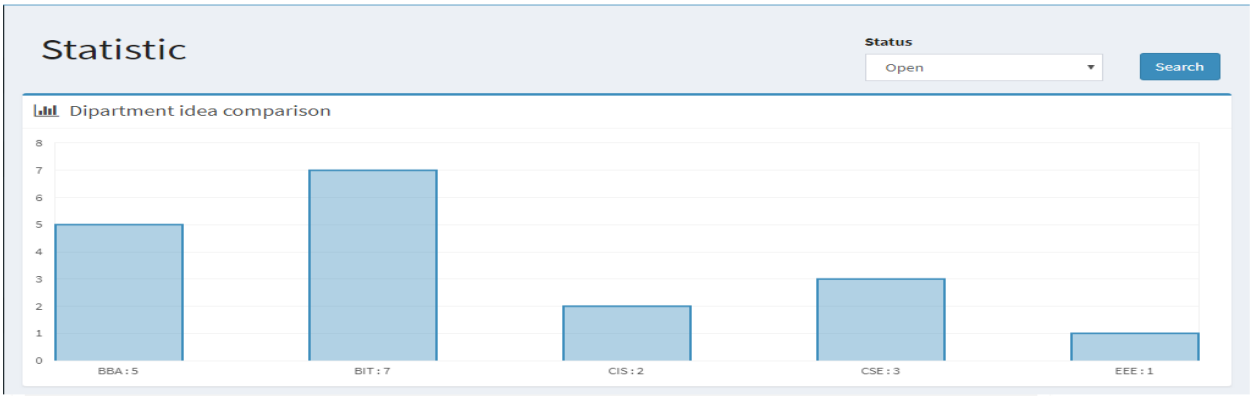

Figure 13: statistical analysis of number of idea by each department

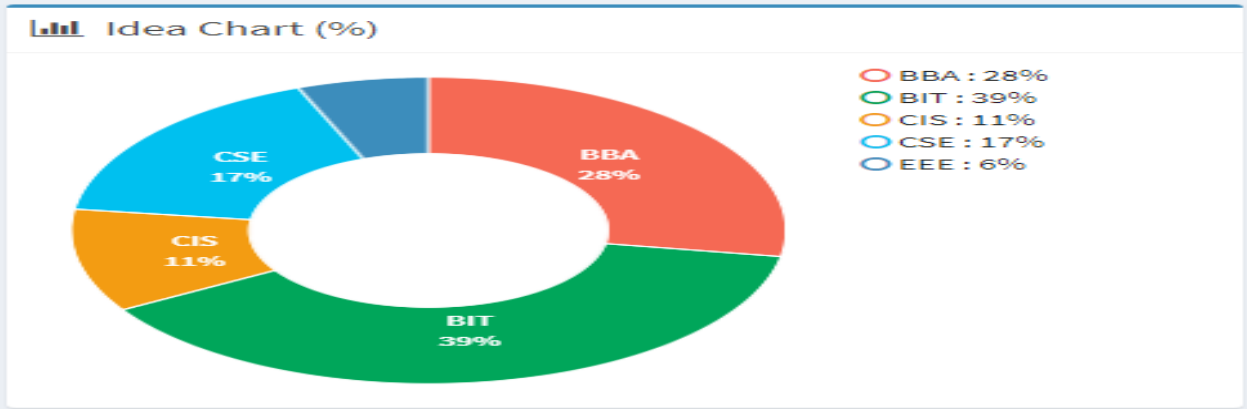

Figure 14: statistical analysis of percentage of idea within each department

9. System can generate report:

   According to the requirement specification system should generate report. Our developed system also gives the opportunity to staff to generate report of Idea without Comments, Idea submitted by Anonymous user, Comment submitted by Anonymous user.

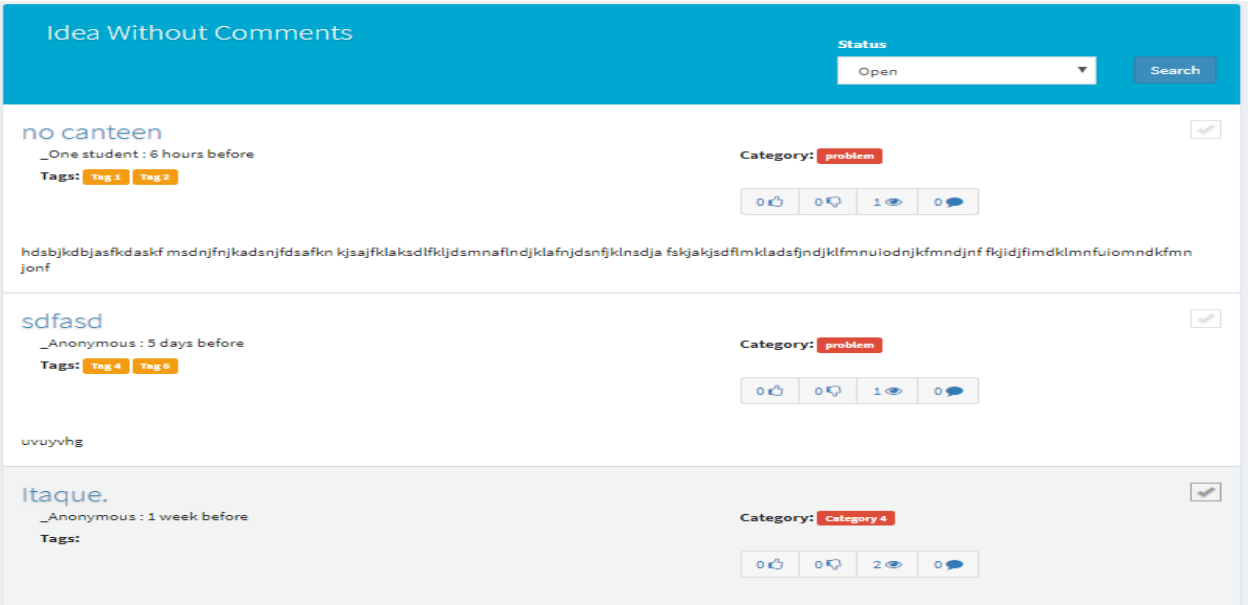

Figure 15: report generation of Idea without Comments

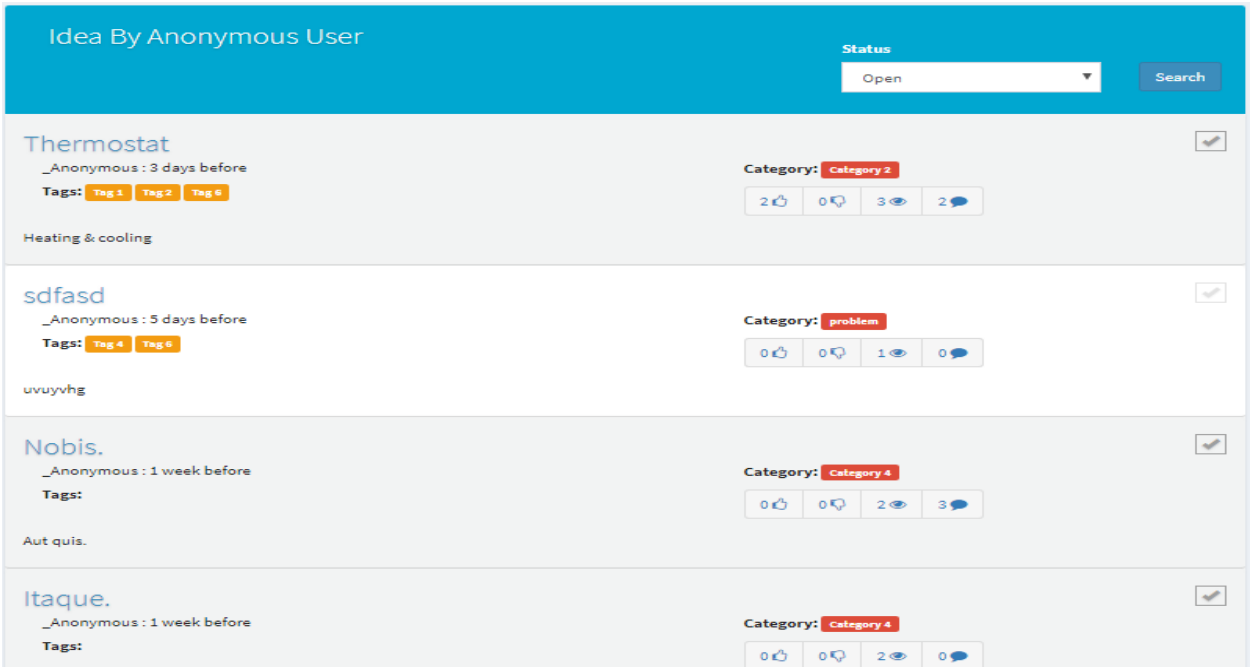

Figure 16: report generation of Idea submitted by Anonymous user

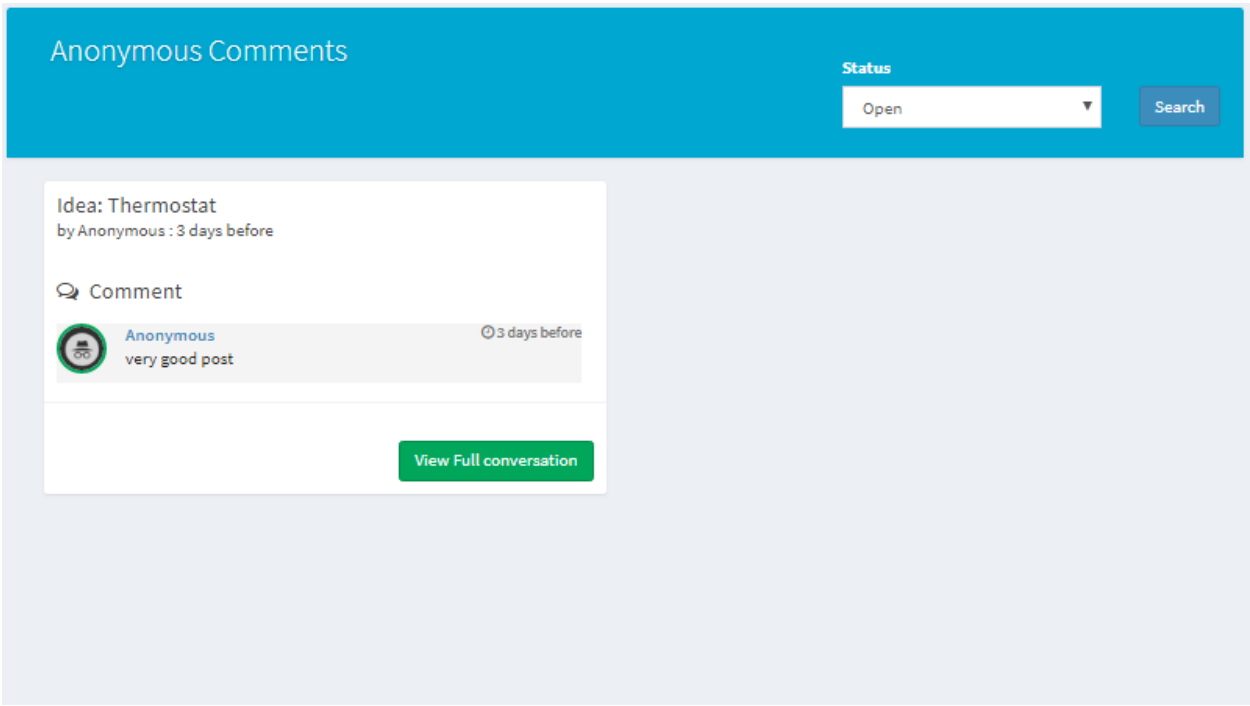

Figure 17: report generation of Comment submitted by Anonymous user

- Ensure enough security to the system:

    1. Authorized Access to the system is confirmed:

       The user of the system can access the system by authorized email ID and password. Admin can manage this authorization.

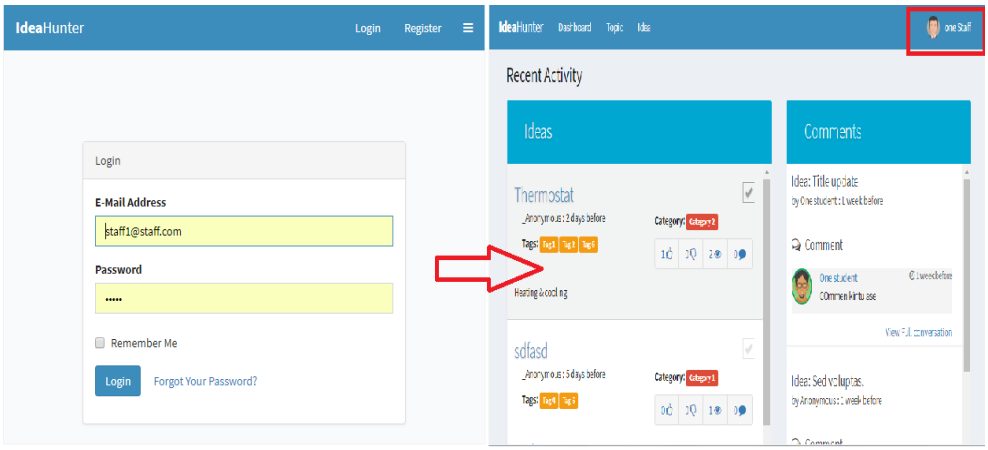

Figure 18: Staff can login with authorized ID

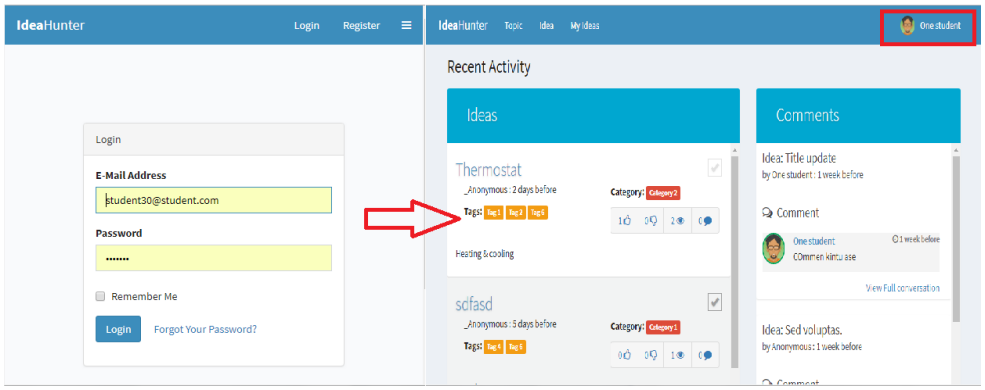

Figure 19: Student can login with authorized ID

2. Ensure that unauthorized access to secure pages should not be permitted:

   Our system ensures the access control. No unauthorized accesses are permitted to any secure pages.

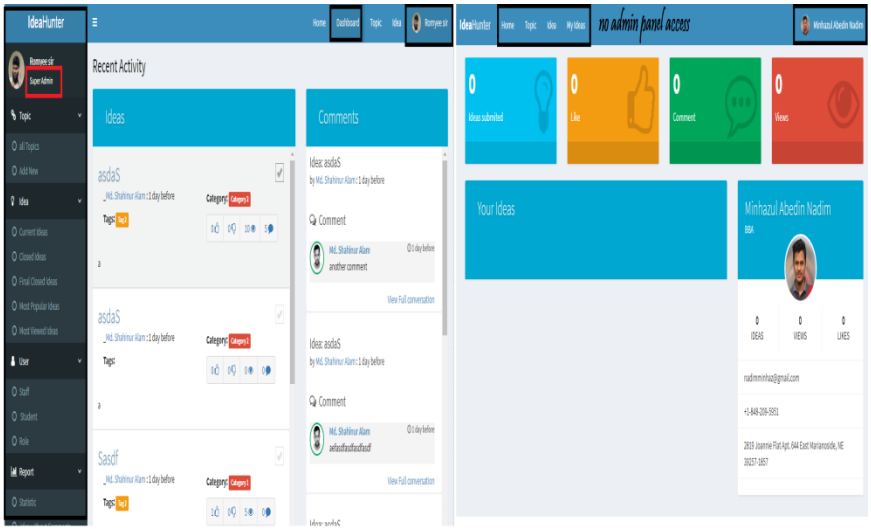

Figure 20: No admin panel access for student

3. Ensure that no restricted files can be downloadable without appropriate access:

   Our system ensures the access control. Without appropriate access no restricted files can be downloadable.

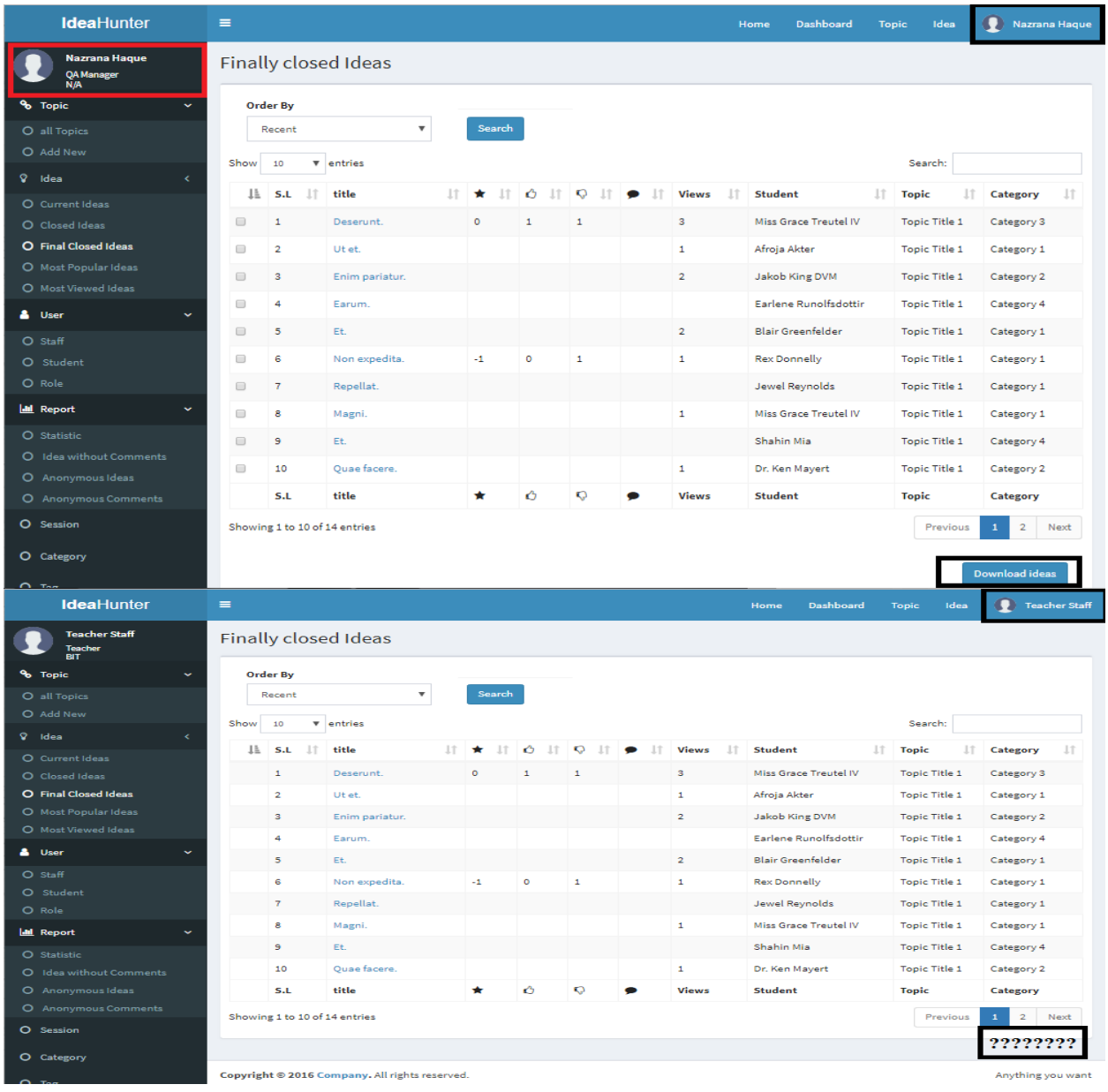

Figure 21: Only QA manager can download idea

Weakness of the system:

- Our system has a student registration facility. But it may be shouldn't open for all for some security purposes.

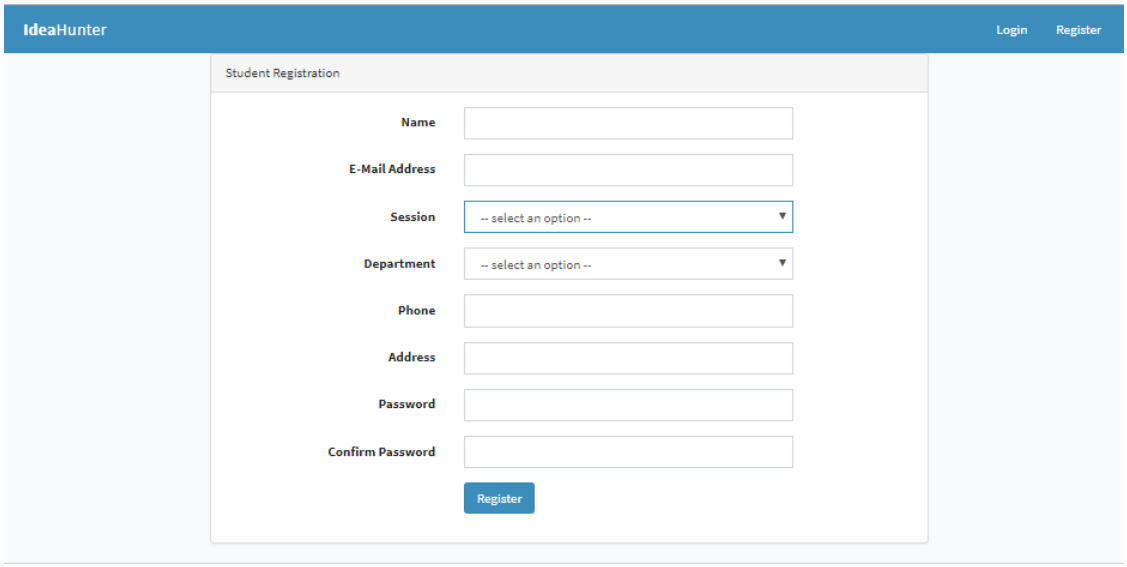

Figure 22: student registration form.

- System takes a lot of time to be loaded.

- System has no facility to encourages student o submit idea.

- System design could have been more interactive.

Evaluation of team:

Though scrum was a completely new agile method to us but we successfully cope up the method. In fact, during our whole project, our teamwork was unrivaled. Everyone in the group helped a lot to help each other. Below I am going to rating each member of my team against some criteria on a scale of 5:

Member Name	Cooperation	Contribution	Activeness	Fulfill Commitment	Attitude
Md shahinur Alam	5	5	5	5	4
Minhazul Abedin Nadim	4	4	4	5	4
Afroja Akter Sonia	4	4	4	5	4
Md. Rafiqul Islam Rafiq	3	3	3	3	3

Self evaluation:

Description of own work:

I was the Scrum master and tester of this project. As a scrum master I had to arrange the entire Scrum meeting. First of all I discuss about the possible time and date for the meeting, after taking everyone opinion I had to Fix the date and time. I had to take note about meeting. I saved those note as scrum minutes on repository (https://drive.google.com/drive/u/0/folders/1N8oIU51MDTlI0DJRhBipUFuVbsmMHyO6).

We have discussed with the requirement specific then I documented the User story (https://docs.google.com/document/d/1FUiSpJl_jWuI9W7kUudtjb0DbC1BELz8zw6eb-Qdl0c/edit).

I produce a Sprint backlog by splitting some phases named Requirement analysis, Analysis and planning, Database design and development, Design System Architecture, System development, authorized access control, Dashboard topic feature, Idea feature and notification, comment and reaction, report, download and mail system, testing, system deployment. I discussed with my team member, everybody agreed on that each of the phase should have been in 3 days. Here is the repository link of sprint backlog (https://docs.google.com/document/d/1JDfy-b-v62R3Jhe1Q45HSXm6pIXDLMAc3t1w6_D3Os8/edit).

I produce a product backlog from user story and prioritize the requirement (https://docs.google.com/document/d/1N5I8jEjOw0mECvOpFag_p68nXgx-5HaorwKm7oNj53w/edit).

And finally I produce a burn down chart after fulfillment of the project (https://docs.google.com/document/d/1N5I8jEjOw0mECvOpFag_p68nXgx-5HaorwKm7oNj53w/edit)

As a tester I had to make a test plan and test log (https://docs.google.com/document/d/1t8ilRm2H-1_zCNiQjsXFsH9rd_vp2-adhBEyUrQB2r4/edit).

I have tested Functionality, Compatibility, Performance, Security, Usability and database of the system. Total 23 number of testing have been done. For some the testing I took help from some automated testing tool. Repository link of

Functional testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd).

Compatibility testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd)

Performance testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd)

Security testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd)

Usability testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd)

Database testing:

(https://drive.google.com/drive/u/0/folders/1zhhzhoWeWGXBc6YXe6LygVb5qIKIEHbd)

Lessons learnt:

Throughout the project I had to learn a lot of things. First of all I had no idea about scrum. I had to study about scrum to manage the role of scrum master. In this coursework I have learnt that how to work as a team in a project. I had to learn about how to produce Sprint backlog, product backlog and burn down chart. For testing I had to learn the basic of website testing and also how to carry o testing by automated tools.

Conclusion:

It was such a nice experience for me. I enjoyed myself a lot throughout this group project. I want to give thanks to the beloved teacher of this coursework and my team member also.