

Enterprise Web Software Development

Course: COMP1640

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Team Name: *Fast Five*

Team Member			
No	Name	URL	Role
1	Site Url	http://group2.codersforest.com/	
2	Github link	https://github.com/sujoyshaha/varsity.test	
3	Video url	https://youtu.be/GEomg53KkIE	Programmer
4			

Introduction

On this coursework a web-based forum created to collect student's articles with preferment images. It's a sub system for universities to year-based magazines articles. Only students are allowed to submit their article on this system. The system is full role based secure system. This coursework is a group-based project so my team fully engaged with this system to complete the requirements. My group name is Fast Five, and we have done this system very cooperatively. I am the programmer of this system. I thrilled fulfill systems requirement.

Evaluation of product and process

Assumption

- Students will able to upload their article with images
- File limitation will be defined
- Email notification will be notify if student upload their article
- Students and Marketing coordinator can be comment on student article
- Admin has the power to define everyone's role
- Students articles can be oversee by marketing manager
- System will be role-based login system

Key features of the system

Systems requirements and Key features have been successfully developed. Systems main features are given below:

- Administrator can create magazine event
- Students can be uploading their article with images. Students can be update their document after submission date
- After uploading article marketing coordinator allow to approve students article for publication
- Marketing coordinator will get notification when student submit their article
- Marketing coordinator has the power to approve students article
- Marketing manager can oversees the whole system
- Department wise divided for every marketing coordinator
- The system is manage by administrator
- Administrator can define role
- After final submission date no students can upload or edit articles
- After submission date no new article can be upload, students can be only edit their submitted file
- Admin and marketing coordinator allow to download zip file
- After closing date upload and comment button will be disable
- Every user has their own dashboard and they can be upload their profile picture, edit their information, and change password option are available
- The system is fully responsive and well designed

Strength of the system

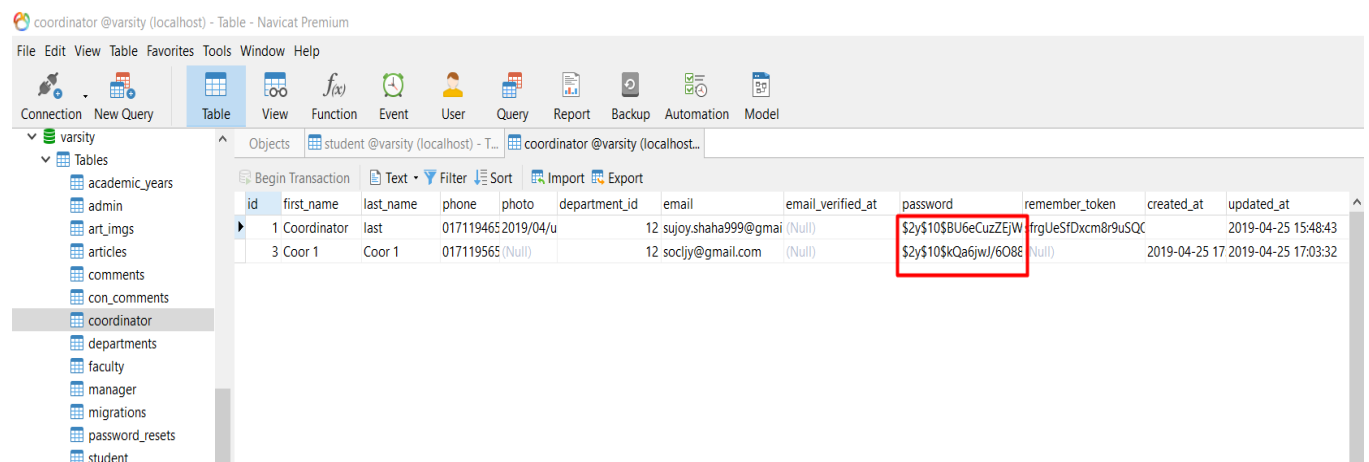
The developed system has some powerful features to improve the strength of the system.

A list of strong features of the system are given below:

- Everyone can use this system
- The system is responsive and fully well designed
- System is organized well and applied Laravel hashing function to encrypt password
- Role based login system is defined
- Email notification available
- Marketing coordinator and students can be comment on specific department
- Article submission section is defined
- Systems productivity is well organized
- System providing a statistic report
- Unauthorized users cannot be login in this system

Demonstration of some major features are given below:

Number 1: Used Laravel hashing for user password encryption for security.



coordinator @varsity (localhost) - Table - Navicat Premium

File Edit View Table Favorites Tools Window Help

Connection New Query Table View Function Event User Query Report Backup Automation Model

varsity

Tables

- academic_years
- admin
- art_imgs
- articles
- comments
- con_comments
- coordinator
- departments
- faculty
- manager
- migrations
- password_resets
- student

Objects student @varsity (localhost) - T... coordinator @varsity (localhost)...

Begin Transaction Text Filter Sort Import Export

id	first_name	last_name	phone	photo	department_id	email	email_verified_at	password	remember_token	created_at	updated_at
1	Coordinator	last	017119465	2019/04/u	12	sujoy.shaha999@gmail	(Null)	\$2y\$10\$BU6eCuzZEjWfrgUeSfDxcM8r9uSQ		2019-04-25 15:48:43	
3	Coor 1	Coor 1	017119565	(Null)	12	socijy@gmail.com	(Null)	\$2y\$10\$kQa6jwJ/6O88		2019-04-25 17:03:32	

Figure : Using Laravel hash encryption

Number 2: Secure login system to authentic user to enter to the system.

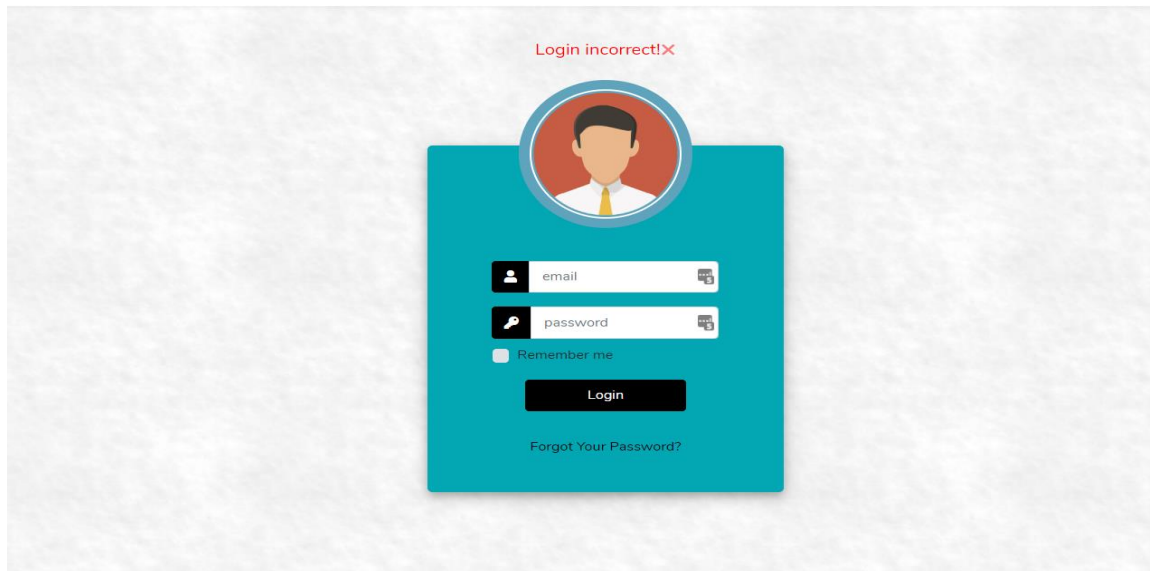


Figure : Unauthorized user tried to login

Number 3: The system Design is responsive for every screen size

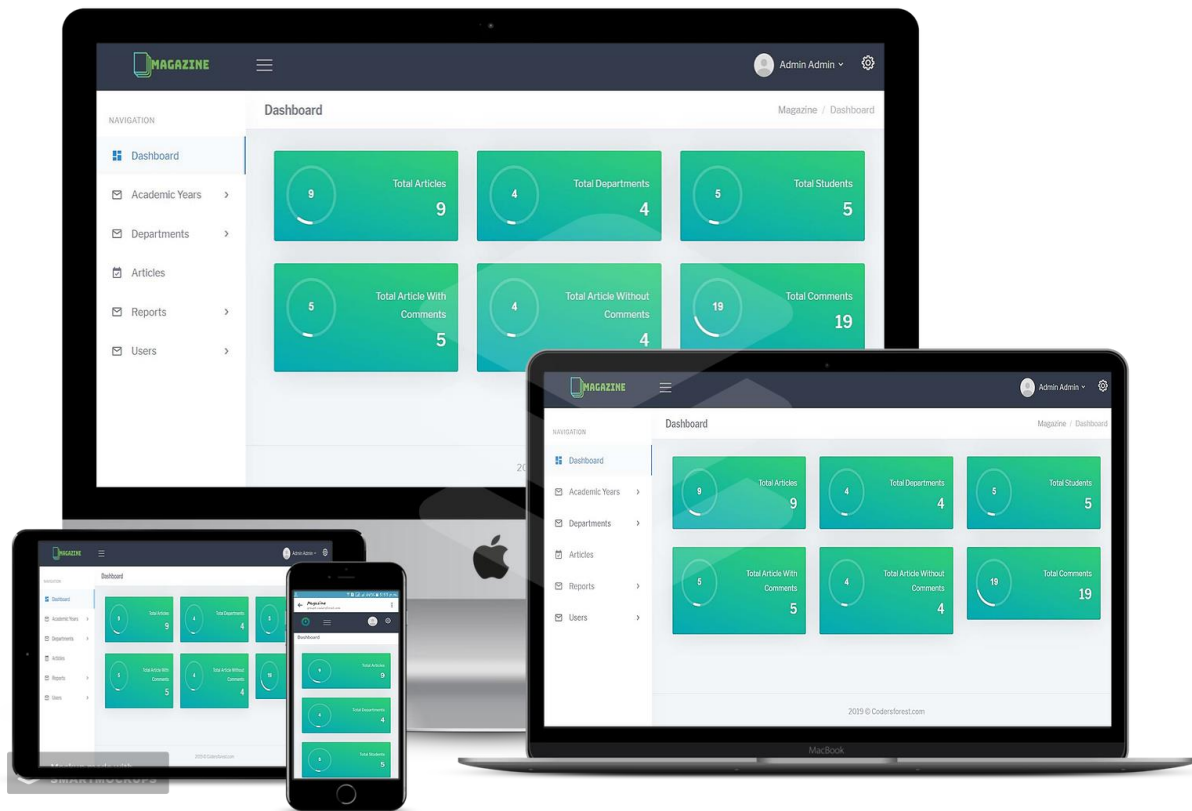


Figure: Responsive view in different screen size

Number 4: Dashboard for Individual user

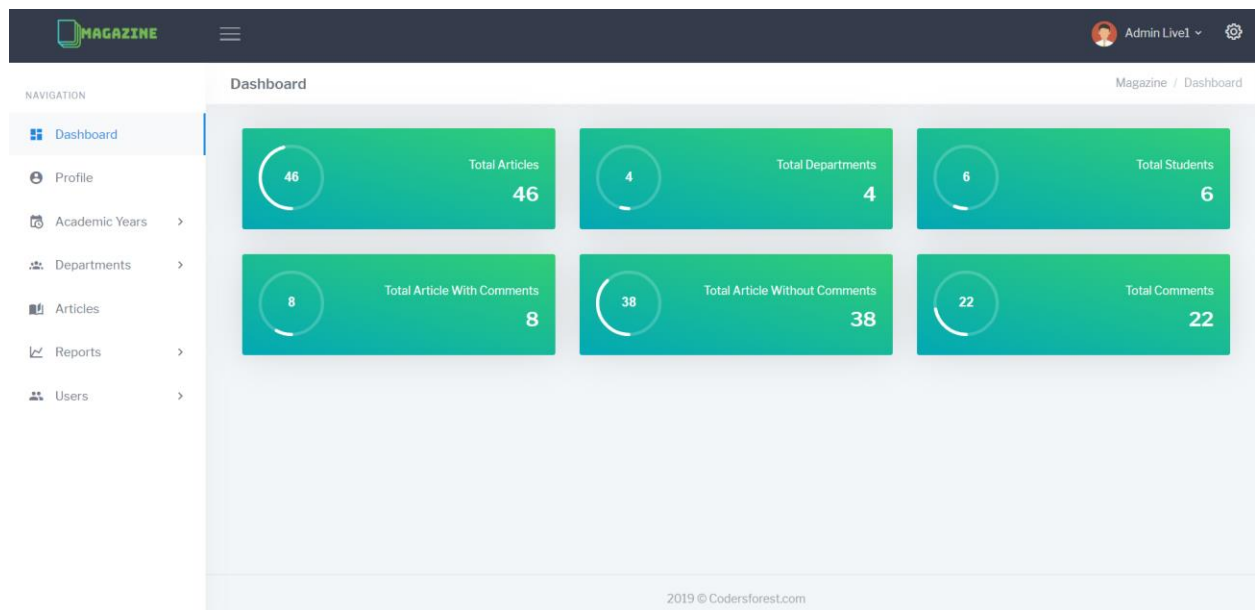


Figure: Individual user dashboard

Number 4: Article Reports by number for Individual user

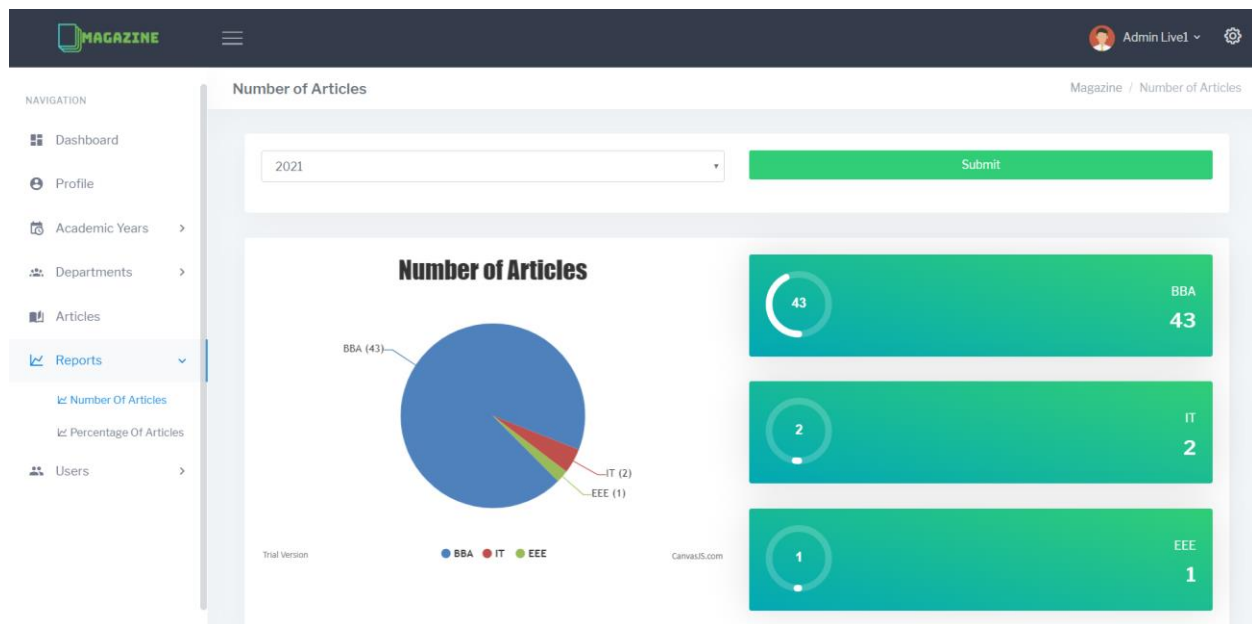


Figure 4: Number Reports for Individual user

Number 5: Article Reports by Percentage for Individual user

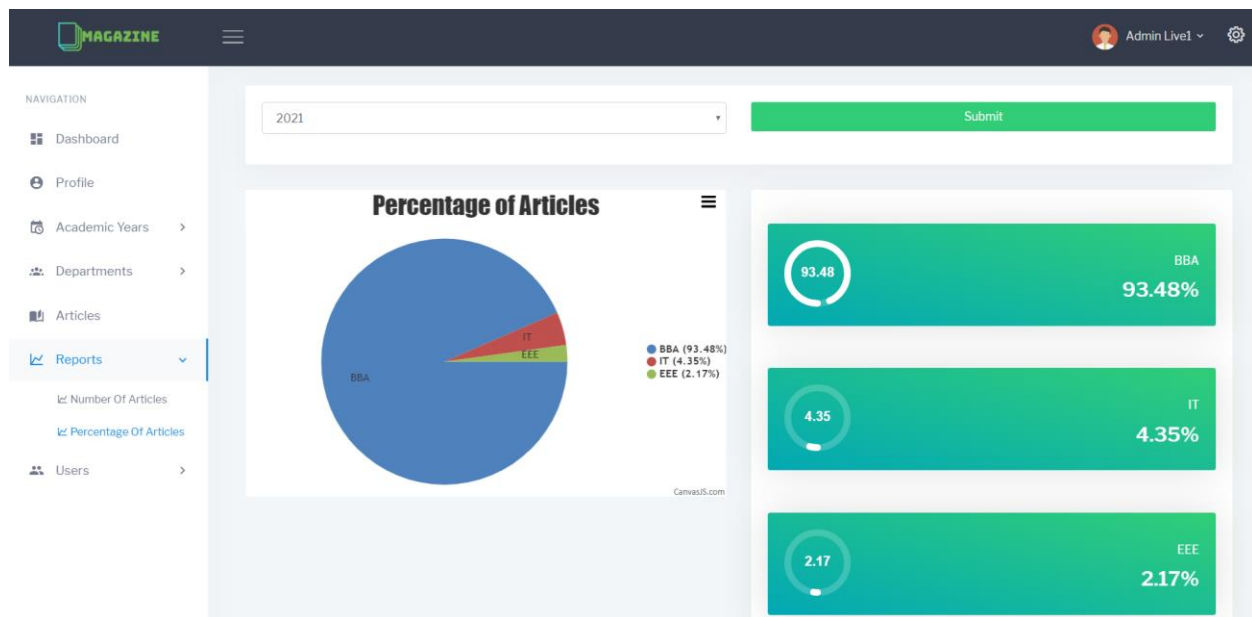


Figure : Number Percentage for Individual user

Weakness of the system

- The system could be more dependency
- The system is full admin centric
- The system could be more efficient and well designed

Further development

- Dashboard notification could be added on systems dashboard
- Users chat option will be available
- Login authentication could be more efficient
- Users recovery option will be defined
- The system will be efficient and well structured

Evaluation of team

This coursework is developed by a team which has covered with five members and each has different role to play on this system. Before we start this coursework, we arrange a meeting to follow scrum method on our coursework. Our team has a system analyst, UI designer, system tester, database designer, and a programmer that is me. And our team name is Fast Five. After we defined our team name and role then we divide our work.

The system requirement and other features have been successfully developed by help of each member. Each member gives their best to complete these scenarios requirements. Our analyst gives his best to find systems functional and non-functional requirement. Actually, we work together to find this requirement. After that database designer organized a database to meet system requirements the, UI designer takes is part to design the system. After collecting all the requirements, I start to develop the system accordantly. Each sprint tested by tester and feedback to me for develop the system. In the end we work as a team to finish the coursework efficiently.

Marking

According to members effort I have marking, though after everyone's effort we developed the system.

Rating scale: Improvement = 2, Poor = 4, Average = 6, Good = 8, Excellent = 10

Members name	Sujoy Shaha (Programmer)	Mehadi Hasan Jani (System Analyst)	Mohammad Sarafat Ullah (UI Designer)	Habibur Rahman Bhuiyan (System tester)	Danish Zamir (Database Design)
Working quality	10	7	6	10	10
Problem solving skills	10	7	8	10	10
Communication skills	9	6	7	8	8
Time management	8	6	10	8	9
Teamwork	9	7	8	9	8
Total (out of 25)	46	33	39	45	45

Figure: Overall marking performance of the team members

Self-evaluation

Individual Effort

In this system I have played a programmer role to develop the whole system by helping our group members. That was a hard job for me to take this responsibility to develop the whole system but the best part for me to attend every meeting and collaborate with each member.

To develop this project, I had to collaborate with system analysis and database designer to work on logical database and user story. After that I need UI designers help to design user's interface and system dashboard. So that, I start working on system code to finish this system on time. I had to work on this system to insure systems security and more robust. At the end of this system I had to maintain system functional and non-functional requirements.

Lesson Learnt

As it was my first group project, I face lots of difficulties to collaborate with team members. But I have learnt how to work with team and how collaboration will work. Before start this system I have no idea about scrum methodology but in the end I gained my knowledge to learnt this methodology.

I have used PHP programming language with the support of Laravel framework 5.7 to develop this project. For this system I have learnt Laravel framework, on this framework I have gained my knowledge on this area. I have used jQuery and Java script to generate percentage report and pie chart diagram. On this system I have used some Laravel package to make this system more efficient. So, I have learnt many useful knowledge about jQuery and Java script.

Conclusion

The university subsystem is web-based system. Its main aspect is to collect student's article for university Magazine. With the help of group member, we developed the system accordantly. We try to capture systems functional and non-functional requirements. This system has some weakness in some development area to overcome. Each member is fully engaged with the system until the system completes the requirements. At the end of this assignment we leant more about scrum methodology and gained knowledge for future

Appendices

APPENDIX A: Technology Usage

Language

- HTML5
- CSS3
- PHP7
- JavaScript

Framework

- Laravel 5.7
- Twitter-Bootstrap

Libraries

- jQuery
- DataTables
- Zipper

Database

- MySQL

Appendix B: Roles and their activities

The system was developed as user role based which defines user access level. An user will able to enter in Particular section through their user auth guard. Five types of users in this system and they are admin users Administrator, Marketing Manager, Marketing Coordinator, Student, Faculty. Users activities are described below:

Administrator:

- Manage all user's information
- Manage Own Profile
- Manage Academic Years
- Manage Departments
- Manage Articles
- Filter Articles through academic year
- Change status of any Article
- Download all approved articles.
- Generate reports in numbers.
- Generate reports in percentage.

Features of administrator and their screenshots are given below:

Before entering the system, Administrator needs to login. In the login form administrator need to input valid login details.

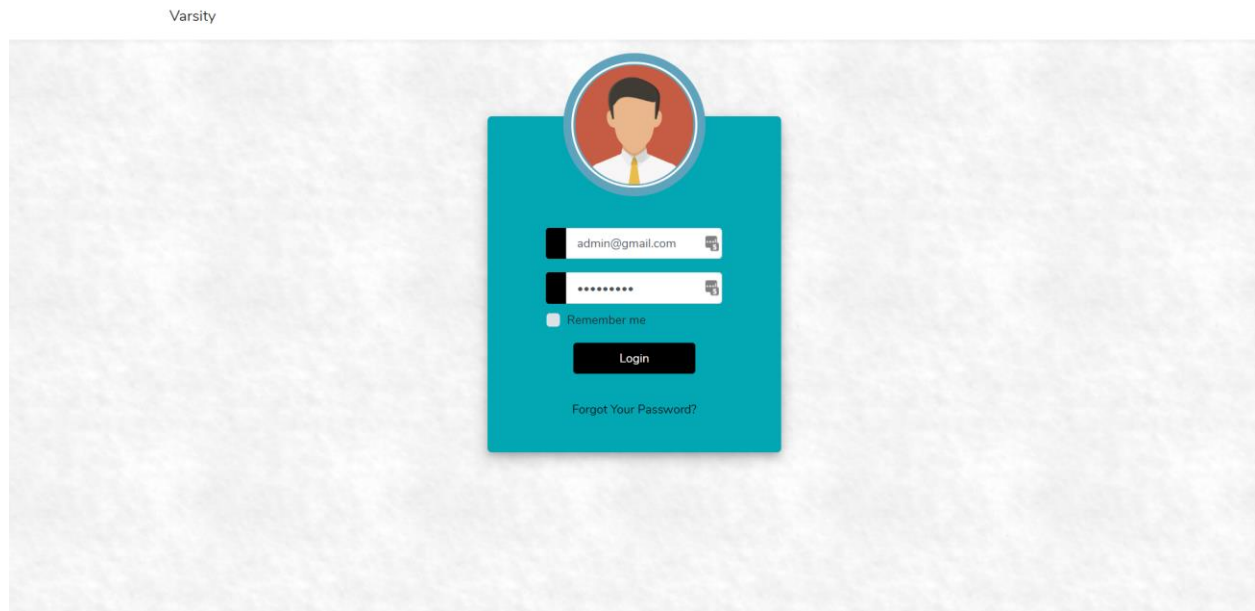


Figure: Login page

After successfully login admin dashboard will appear

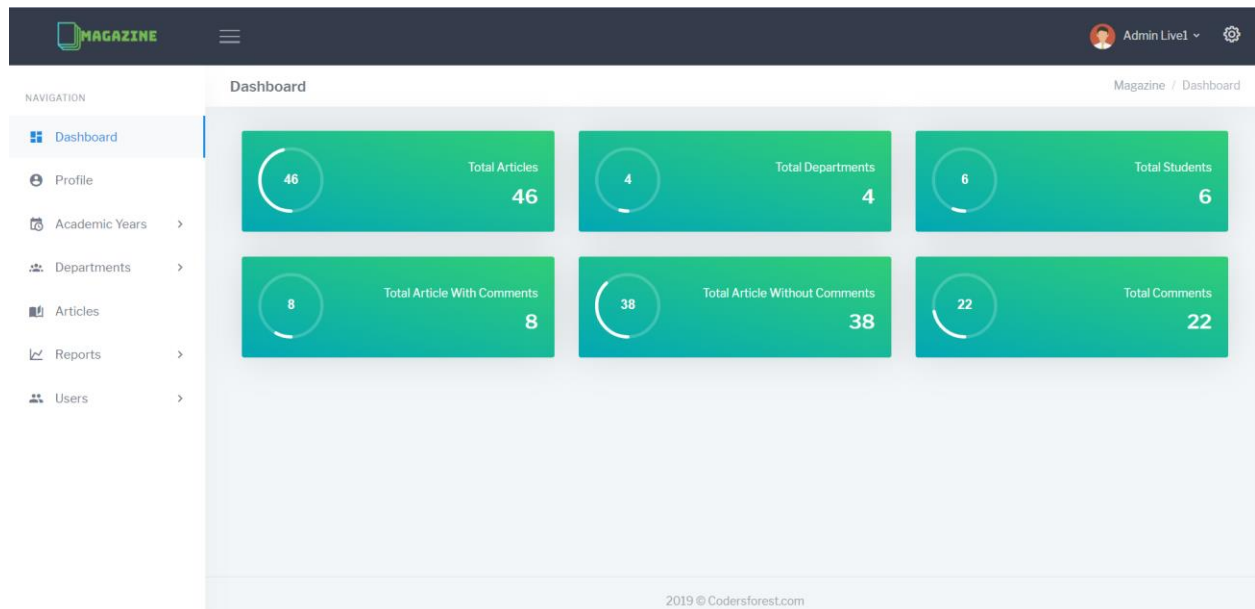
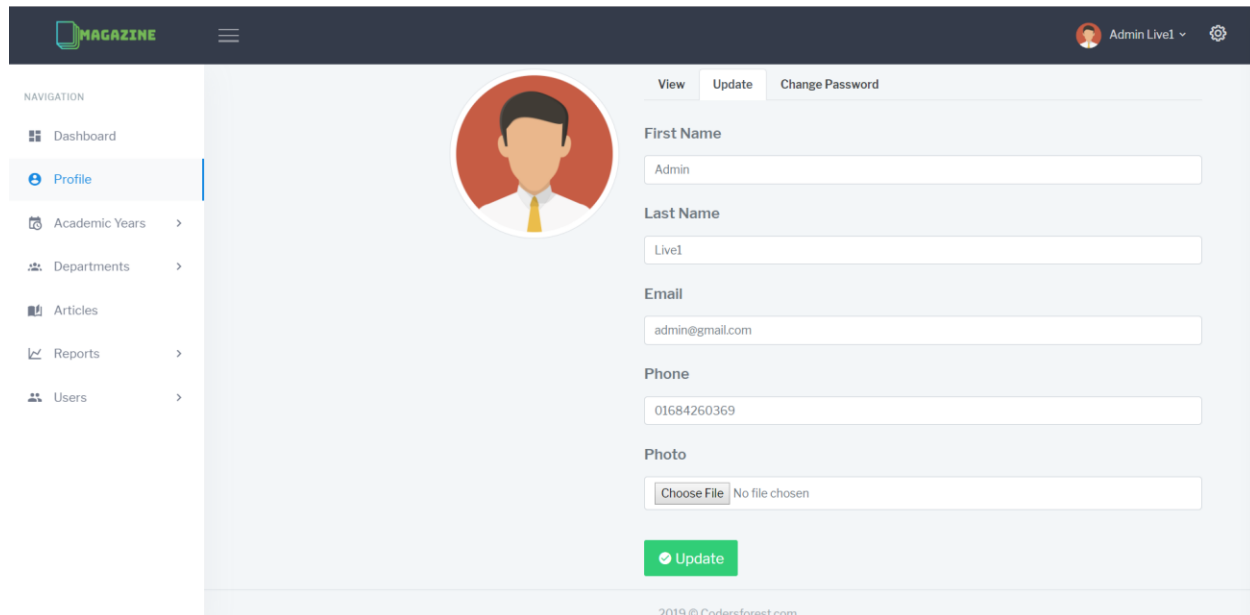


Figure: Admin Dashboard

In user profile section administrator will able to change personal information



The screenshot shows the 'Admin Profile' page of a web application. The header includes the 'MAGAZINE' logo, a menu icon, and a user profile 'Admin Live1' with a settings gear. The left sidebar lists navigation items: Dashboard, Profile (active), Academic Years, Departments, Articles, Reports, and Users. The main content area features a profile card with a placeholder image and tabs for 'View', 'Update' (selected), and 'Change Password'. The 'Update' tab contains form fields for 'First Name' (Admin), 'Last Name' (Live1), 'Email' (admin@gmail.com), 'Phone' (01684260369), and 'Photo' (Choose File). A green 'Update' button is at the bottom. The footer shows '2019 © Codersforest.com'.

Figure: Admin Profile

After successfully input correct information profile information will update successfully

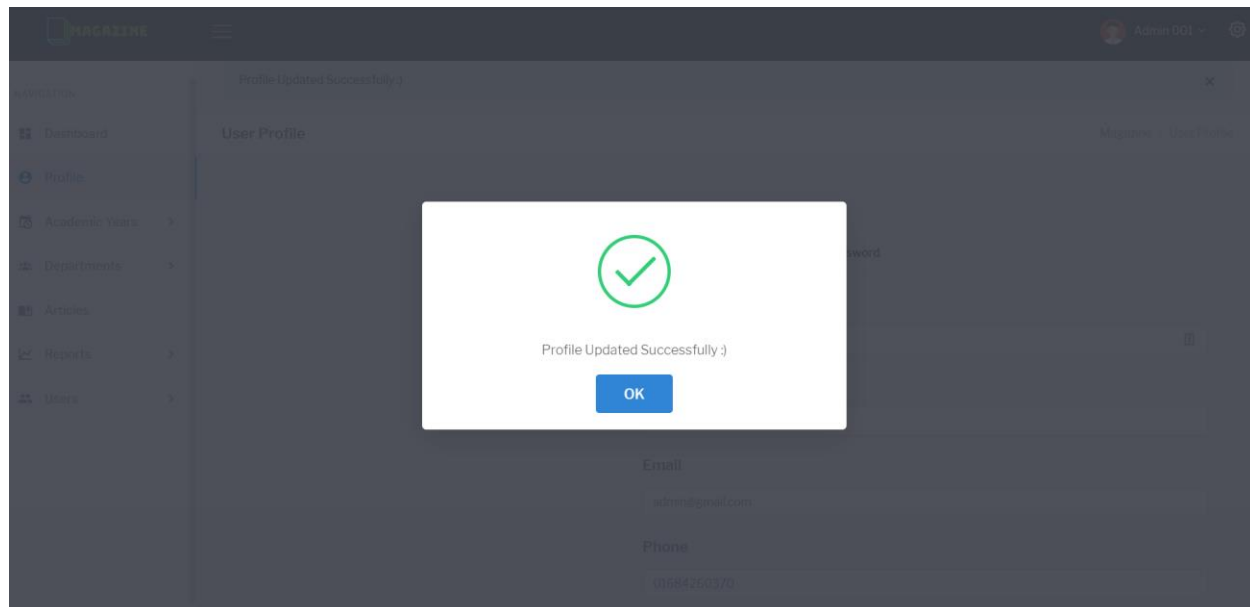


Figure: Admin Profile Updated Successfully

in change password tab user password can be update

The screenshot displays the 'User Profile' interface. At the top, a dark header contains the 'MAGAZINE' logo, a menu icon, and the user 'Admin 001' with a settings gear. A light blue notification bar at the top of the main area states 'Email exists with another user!'. The left sidebar lists navigation options: Dashboard, Profile (selected), Academic Years, Departments, Articles, Reports, and Users. The main content area is titled 'User Profile' and features a circular profile picture of a man. To the right of the picture are three tabs: 'View', 'Update', and 'Change Password' (which is active). Below the tabs are three password input fields labeled 'Old Password', 'New Password', and 'Confirm New Password'. Each field has a small eye icon for toggling visibility. At the bottom of the form is a green button with a checkmark icon and the text 'Update password'.

Figure: Change password

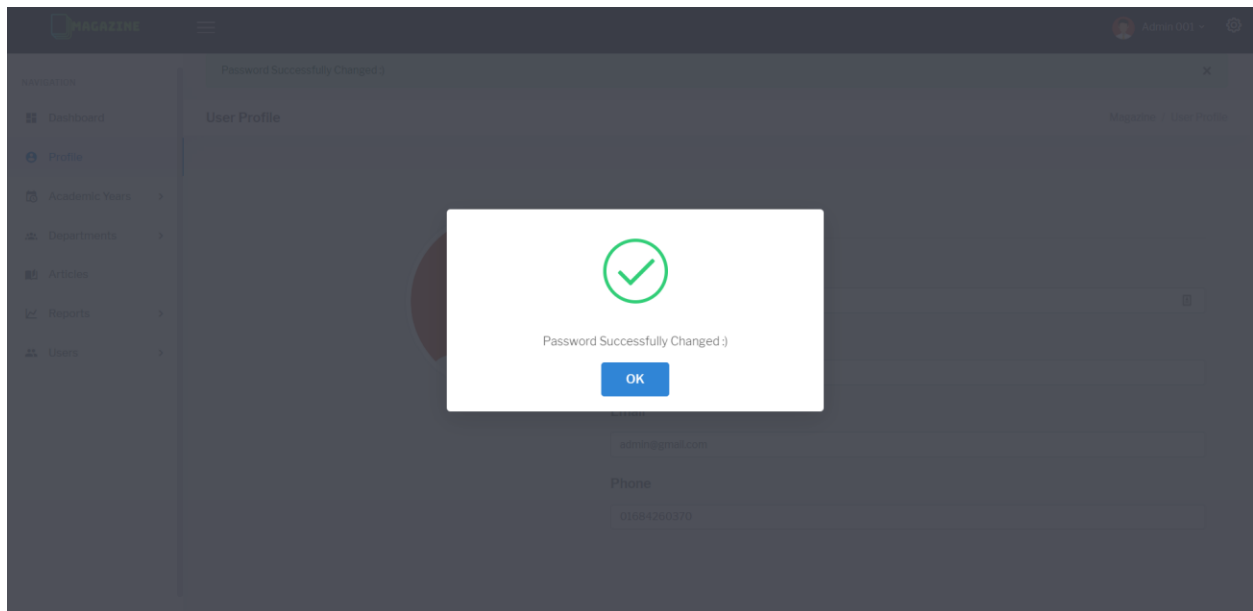


Figure: Password update successfully

In Academic Year section administrator will able to manage academic year with their type of dates, and they are Opening Date, Closing date and Final date.

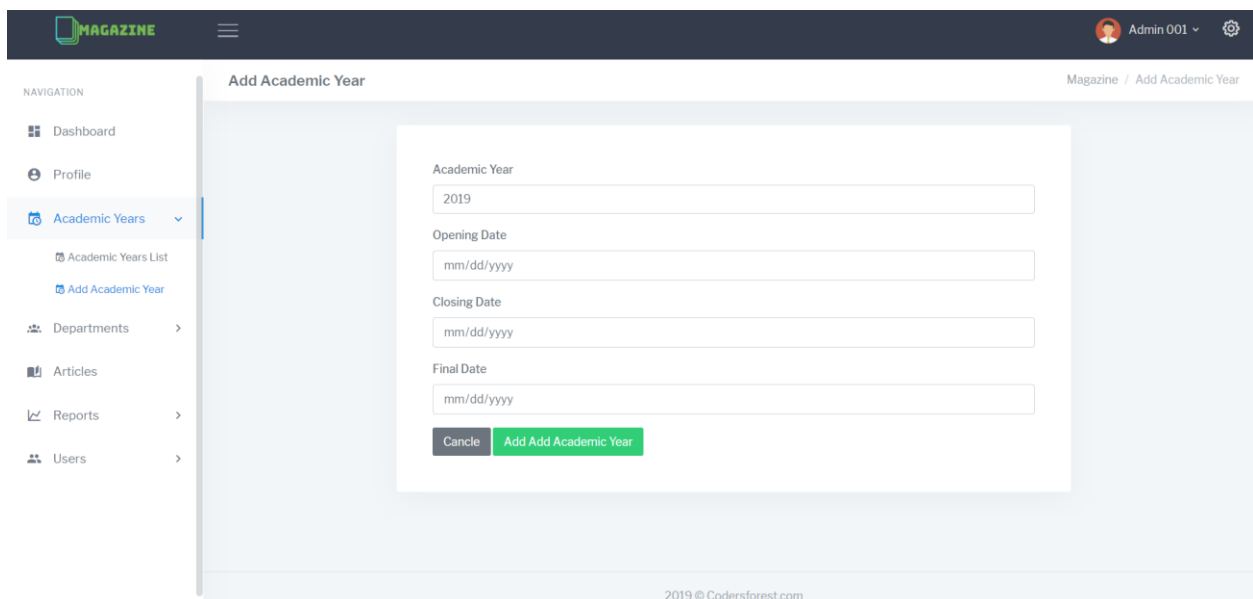


Figure: Add academic year

After successfully input all information academic year will create successfully

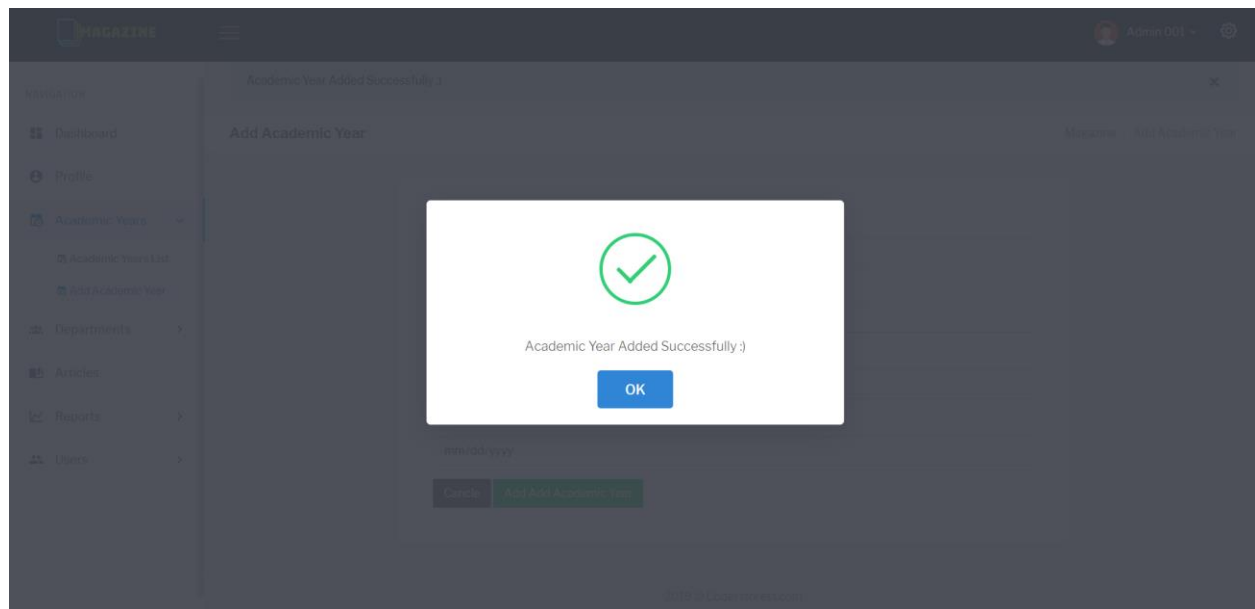


Figure: Academic year successfully added

Academic years can manage in academic year list menu

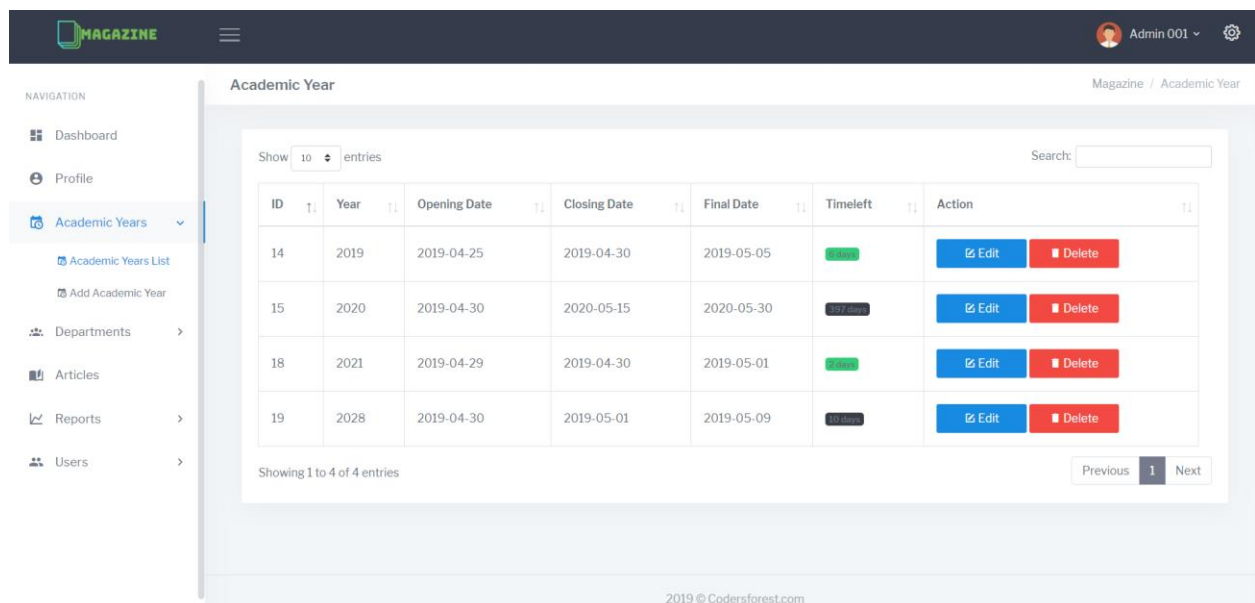


Figure: List of academic years

Departments can be added in department menu

The screenshot shows the 'Add Department' form in the MAGAZINE system. The form is titled 'Add Department' and contains a text input field with the value 'Physics'. Below the input field are two buttons: 'Cancel' and 'Add Add Department'. The form is displayed in a modal window. The background shows the system's navigation menu with options like Dashboard, Profile, Academic Years, Departments, Articles, Reports, and Users. The user is logged in as 'Admin 001'.

Figure: Add department

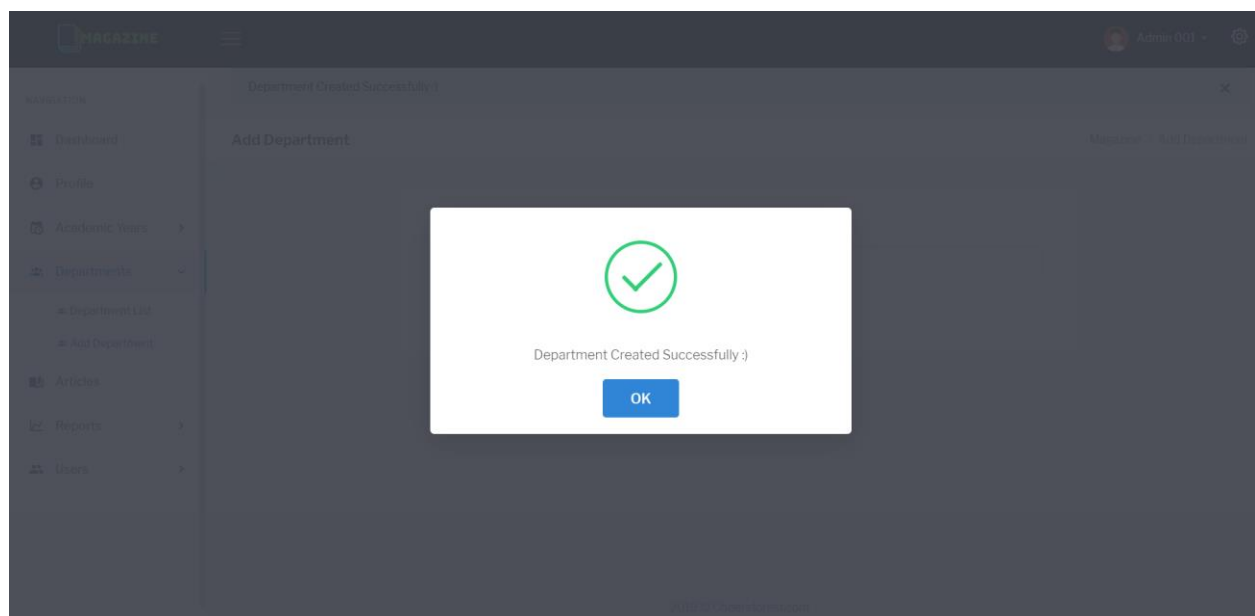


Figure: Department successfully added

Departments can be managed in Department list menu

The screenshot shows the 'Departments' management interface. On the left is a navigation menu with options: Dashboard, Profile, Academic Years, Departments (selected), Department List, Add Department, Articles, Reports, and Users. The main content area is titled 'Departments' and includes a search bar and a table of department entries. The table has columns for ID, Department Name, Create Date, and Action. There are 5 entries listed, each with 'Edit' and 'Delete' buttons. At the bottom, it says 'Showing 1 to 5 of 5 entries' and has 'Previous', '1', and 'Next' pagination links.

ID	Department Name	Create Date	Action
9	CSE	2019-04-26 17:33:48	Edit Delete
10	EEE	2019-04-25 11:41:58	Edit Delete
11	IT	2019-04-25 11:42:06	Edit Delete
12	BBA	2019-04-25 11:42:13	Edit Delete
13	Physics	2019-04-29 10:47:58	Edit Delete

Figure: Department list

Articles can manage in articles menu and can filter by year

The screenshot shows the 'Contribution' management interface. The left navigation menu is the same as the previous screenshot, but 'Articles' is now selected. The main content area is titled 'Contribution' and features a filter dropdown set to '2028' with a 'Submit' button. Below this is a table of article contributions with columns: ID, Article Name, Closing Date, Submitted, Submitted By, Academic Year, Department Name, Status, and Timeleft. The table contains 8 entries. The first entry is highlighted with a red circle. Below the table is an 'Action' bar with buttons for View, Comment, Delete, and Approved.

ID	Article Name	Closing Date	Submitted	Submitted By	Academic Year	Department Name	Status	Timeleft
54	Department 10	2019-04-30	2019-04-28 21:39:21	Sujoy shaha	2019	IT	Accepted	6 days
56	art example	2019-04-30	2019-04-27 13:00:57	Sujoy shaha	2019	IT	Submitted	6 days
57	art ex 2020	2019-04-30	2019-04-27 19:04:22	student 2 student 2	2019	EEE	Submitted	6 days
59	post for bba	2019-04-30	2019-04-28 21:54:30	student 3 3	2019	BBA	Commented	6 days
60	post for bba 2	2019-04-30	2019-04-28 19:19:25	student 3 3	2019	BBA	Accepted	6 days
61	post for bba 3	2019-04-30	2019-04-28 19:21:03	student 3 3	2019	BBA	Commented	6 days
62	mail 1	2019-04-30	2019-04-28 14:25:36	Sujoy shaha	2019	BBA	Submitted	6 days

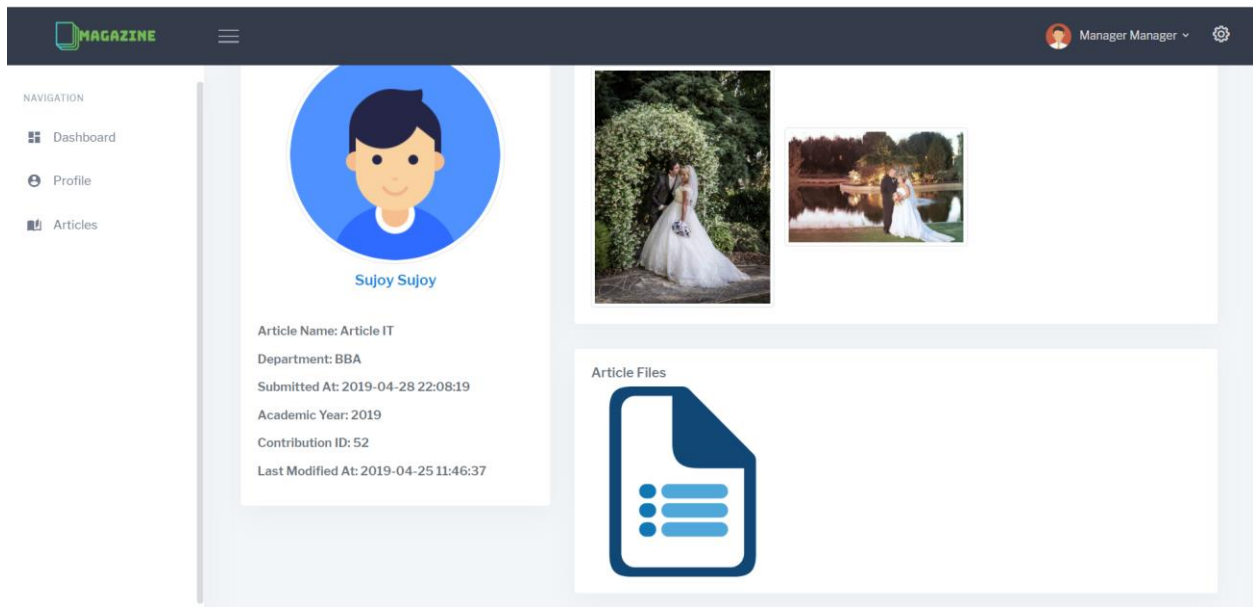
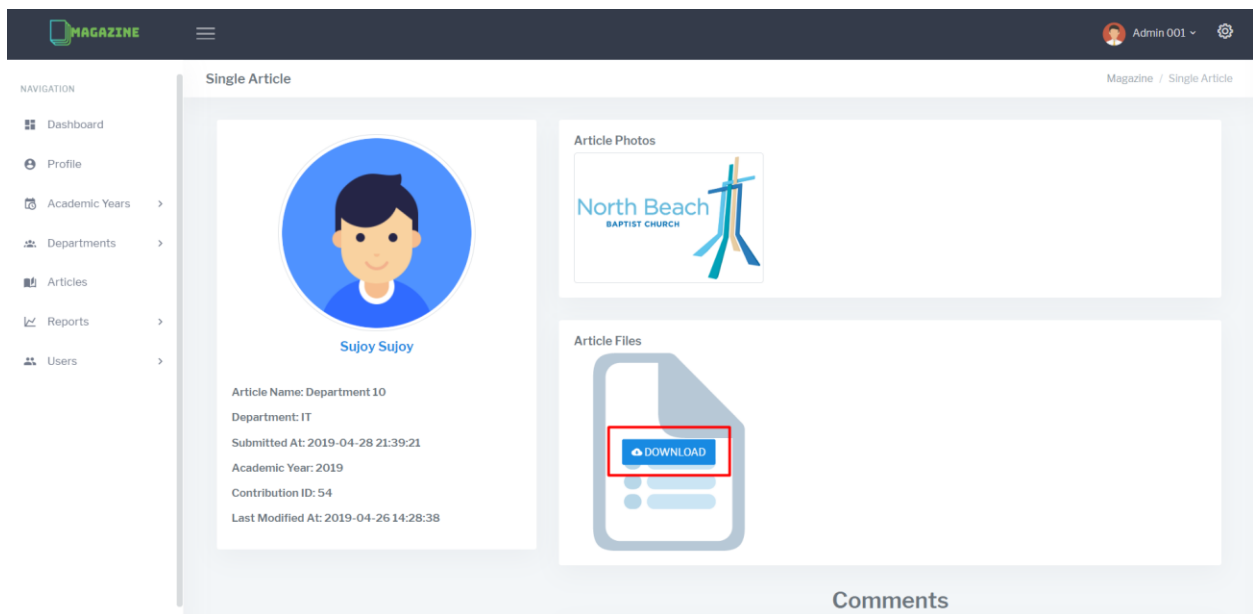
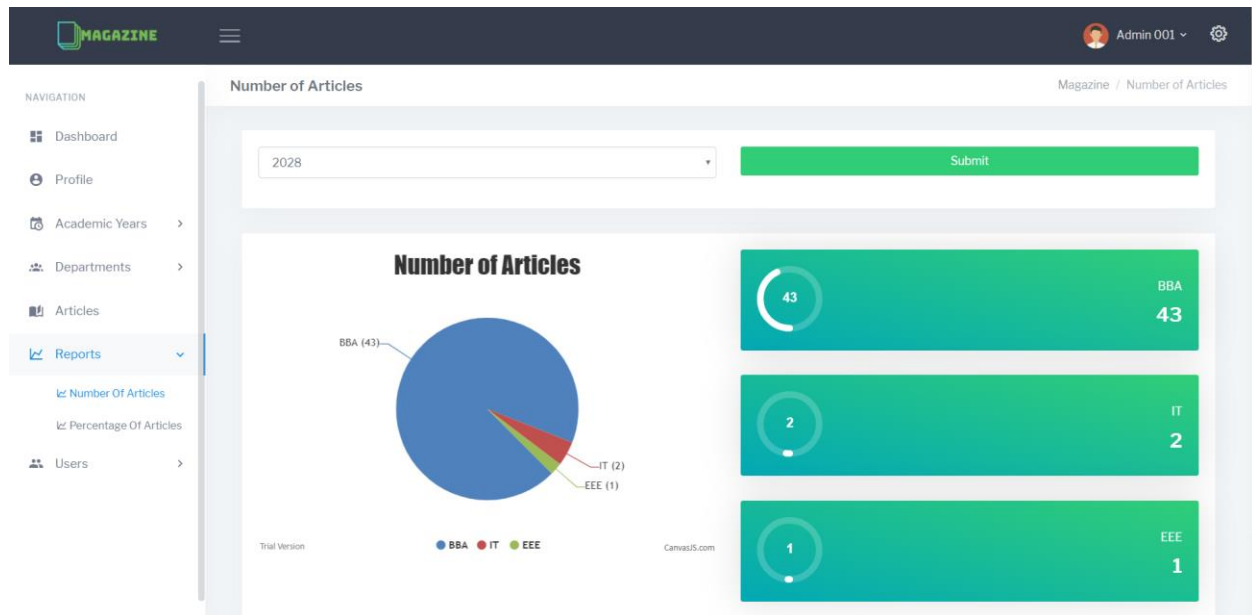


Figure:Single article view

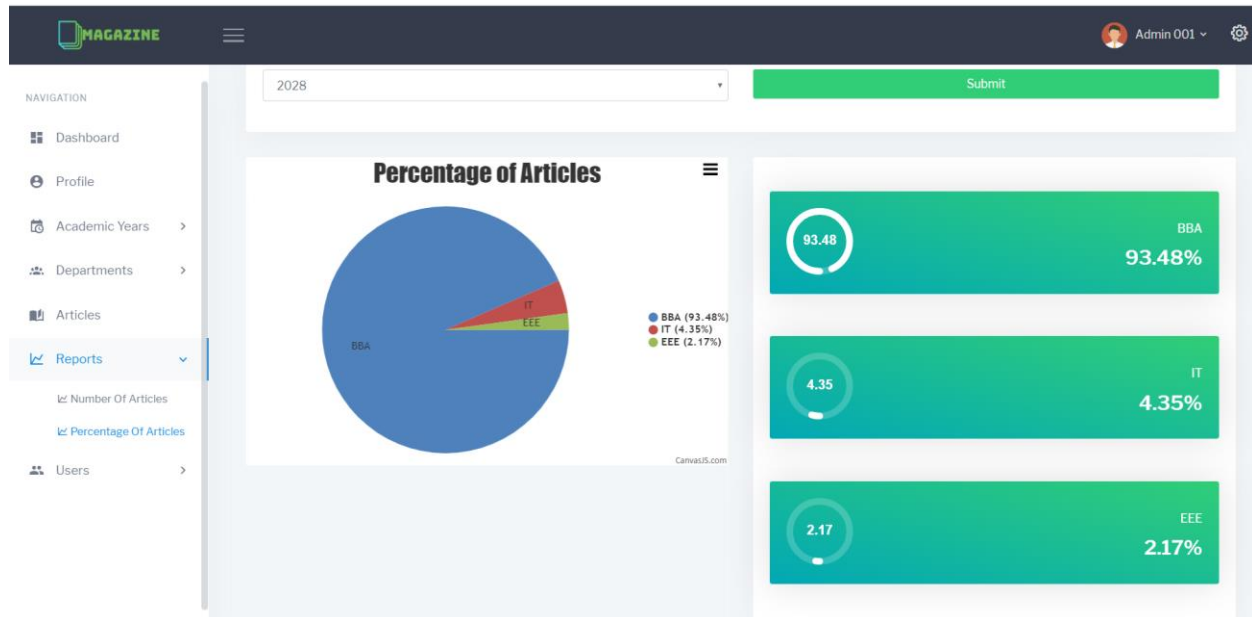


Single article can be download

In reports > number of articles menu overall system article report can generate numerically through department basis



In reports > percentage of articles menu overall system article report percentage can generate through department basis



An user can create in users > add user tab

Add User

Role: Administration

First Name:

Last Name:

E-Mail Address:

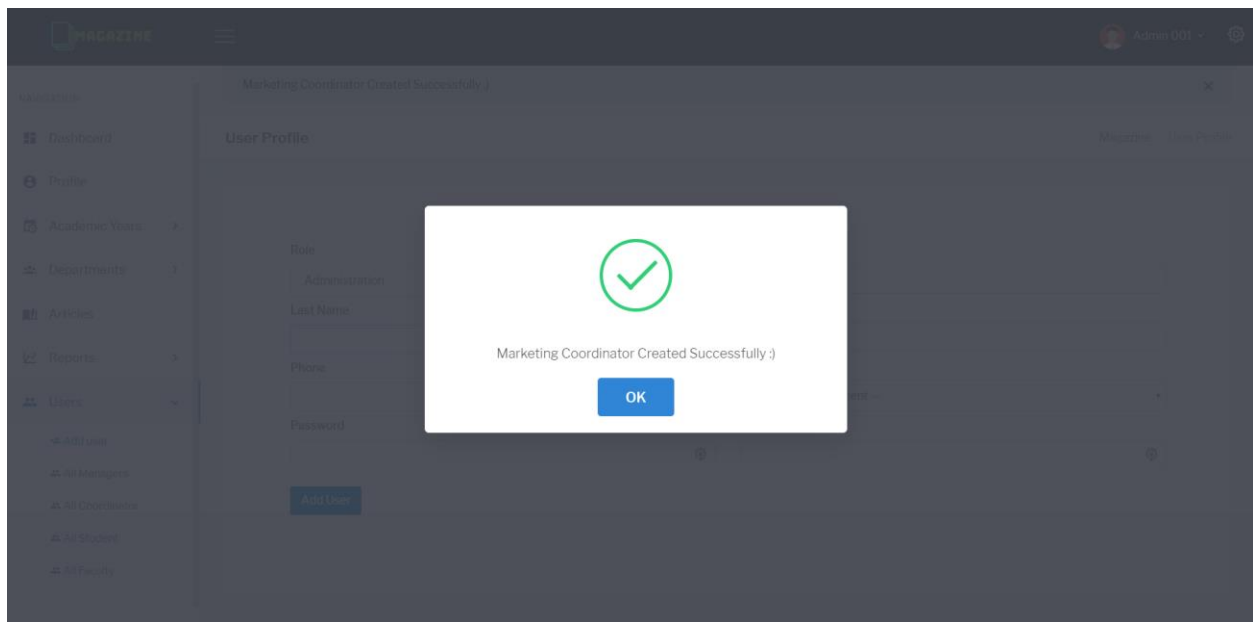
Phone:

Department: -- Select Department --

Password:

Confirm Password:

Add User



After successfully input all information an user role will create

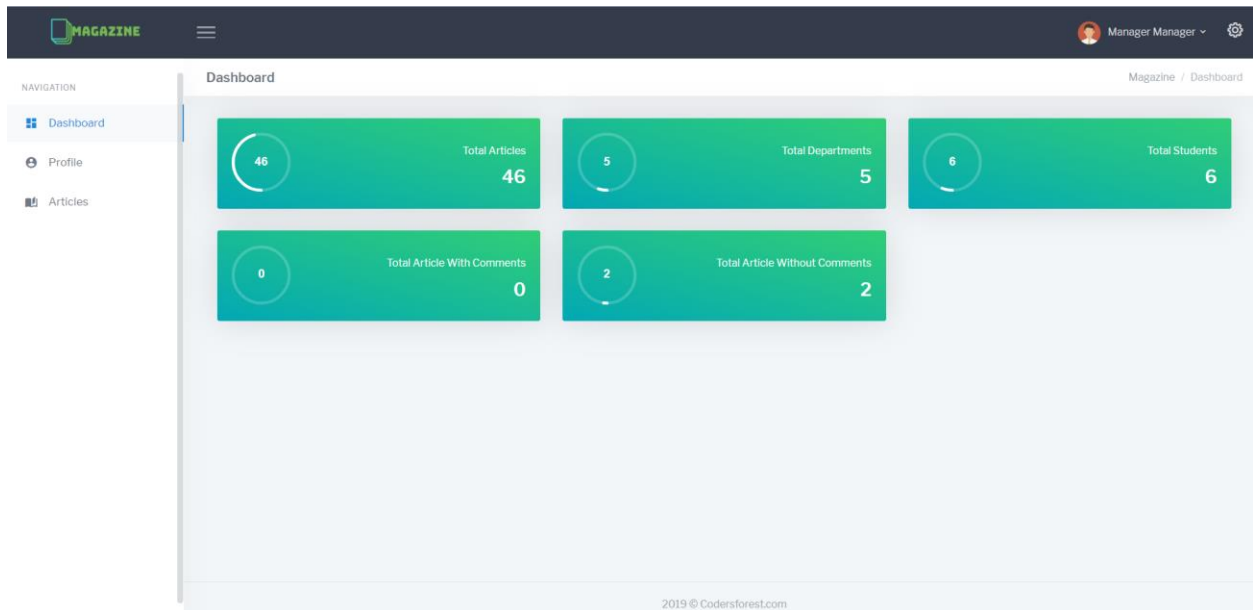
All user roll will be able to manage through these tabs:

The screenshot shows a web application interface for managing users. At the top, there is a dark header with the 'MAGAZINE' logo on the left, a hamburger menu icon in the center, and a user profile icon with the text 'Admin 001' and a settings gear icon on the right. Below the header, a left sidebar contains a 'NAVIGATION' menu with items: Dashboard, Profile, Academic Years, Departments, Articles, Reports, and Users. The 'Users' item is expanded, showing sub-options: 'Add user' and a list of roles: 'All Managers', 'All Coordinator', 'All Student', and 'All Faculty'. A red rectangle highlights this list of roles. The main content area is titled 'User Profile' and contains a form for adding a new user. The form has two columns of input fields: Role (a dropdown menu with 'Administration' selected), First Name, Last Name, E-Mail Address, Phone, Department (a dropdown menu with '-- Select Department --' selected), Password, and Confirm Password. Each text input field has a small icon to its right. At the bottom of the form is a blue 'Add User' button. The footer of the page reads '2019 © Codersforest.com'.

Marketing Manager:

- Manage Own Profile
- View all Articles and single articles of all department and all students
- Filter Articles through academic year
- Own dashboard

Own dashboard based on all articles like administrative



Profile can be managed in profile section like administrative

The screenshot shows a user profile management page for 'MAGAZINE'. The header and sidebar are consistent with the dashboard. The main content area features a circular profile picture of a man in a suit. To the right of the profile picture are three tabs: 'View', 'Update', and 'Change Password'. Below the tabs are form fields for 'First Name', 'Last Name', 'Email', 'Phone', and 'Photo'. The 'First Name' field contains 'Manager', 'Last Name' contains 'Manager', 'Email' contains 'manager@gmail.com', and 'Phone' contains '01711946598'. The 'Photo' field has a 'Choose File' button and the text 'No file chosen'. At the bottom of the form is a green 'Update' button.

View Update Change Password

First Name
Manager

Last Name
Manager

Email
manager@gmail.com

Phone
01711946598

Photo
Choose File No file chosen

Update

Profile can be managed in profile section like administrative

Articles can view in articles menu and can filter by year

MAGAZINE

Manager Manager

NAVIGATION

Dashboard

Profile

Articles

Article

Magazine / Article

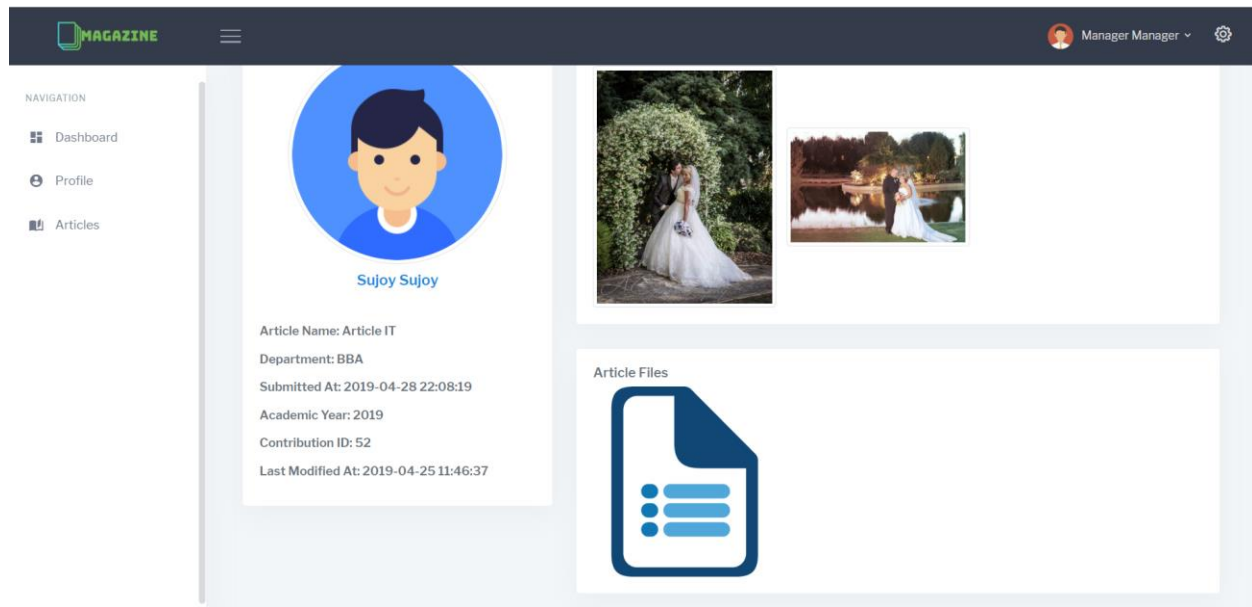
2019

Submit

Show 10 entries

Search:

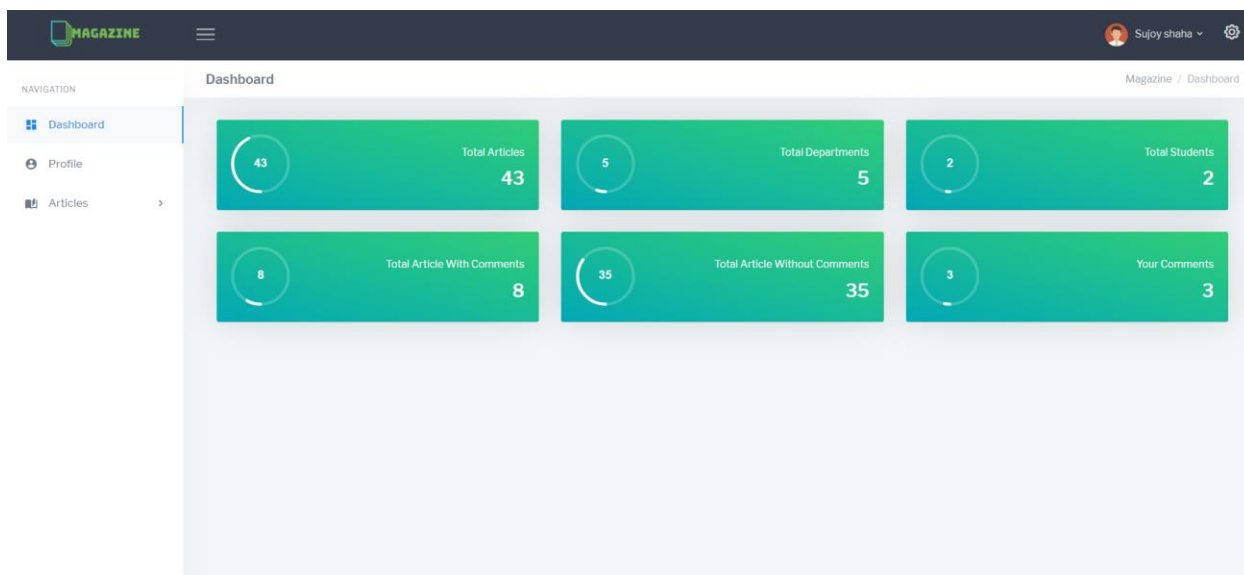
ID	Article Name	Closing Date	Submitted	Submitted By	Academic Year	Department Name
52	Article IT	2019-04-30	2019-04-28 22:08:10	Sujoy shaha	2019	BBA
<div>Status<div>Accepted</div><div>Commented</div></div> <div>Timeleft<div>6 days</div></div> <div>Action<div>View</div></div>						
54	Department 10	2019-04-30	2019-04-28 21:39:21	Sujoy shaha	2019	IT
56	art example	2019-04-30	2019-04-27 13:00:57	Sujoy shaha	2019	IT
57	art ex 2020	2019-04-30	2019-04-27 19:04:22	student 2 student 2	2019	EEE
59	post for bba	2019-04-30	2019-04-28 21:54:30	student 3 3	2019	BBA



Single article view

Student:

- Manage Own Profile
- View own Articles
- Can comment in article after marketing coordinator place a comment
- Own dashboard
- Post Article



Own dashboard

This table allows users to manage their submitted articles. It includes a search bar and a 'Show 10 entries' filter. The table columns are: ID, Article Name, Opening Date, Closing Date, Submitted, Submitted By, Academic Year, Status, and Timeleft. The first row shows an article named 'Article 1' with a status of 'Accepted' and 'Commented'. Below the table, there are buttons for 'View', 'Edit', and 'Delete' actions.

ID	Article Name	Opening Date	Closing Date	Submitted	Submitted By	Academic Year	Status	Timeleft
2	Article 1	2019-04-25	2019-04-30	2019-04-28 20:06:12	Sujoy shaha	2019	Accepted Commented	0:00:00
62	mail 1	2019-04-25	2019-04-30	2019-04-28 14:25:36	Sujoy shaha	2019	Submitted	0:00:00
63	mail 1	2019-04-25	2019-04-30	2019-04-28 14:26:00	Sujoy shaha	2019	Submitted	0:00:00
64	mail 1	2019-04-25	2019-04-30	2019-04-28 14:27:39	Sujoy shaha	2019	Submitted	0:00:00
65	mail 1	2019-04-25	2019-04-30	2019-04-28 14:31:37	Sujoy shaha	2019	Submitted	0:00:00
66	mail 1	2019-04-25	2019-04-30	2019-04-28 14:35:37	Sujoy shaha	2019	Submitted	0:00:00
67	mail 1	2019-04-25	2019-04-30	2019-04-28 14:39:48	Sujoy shaha	2019	Submitted	0:00:00
68	mail 1	2019-04-25	2019-04-30	2019-04-28 14:40:48	Sujoy shaha	2019	Submitted	0:00:00
69	sada	2019-04-25	2019-04-30	2019-04-28 14:43:37	Sujoy shaha	2019	Submitted	0:00:00

Manage own articles

MAGAZINE

Sujay shaha

NAVIGATION

Dashboard

Profile

Articles

Articles List

Add Articles

Article

Magazine / Article

Academic Year

2019

Article title

Article for IT

Article doc file

Choose File test.docx

Article photo

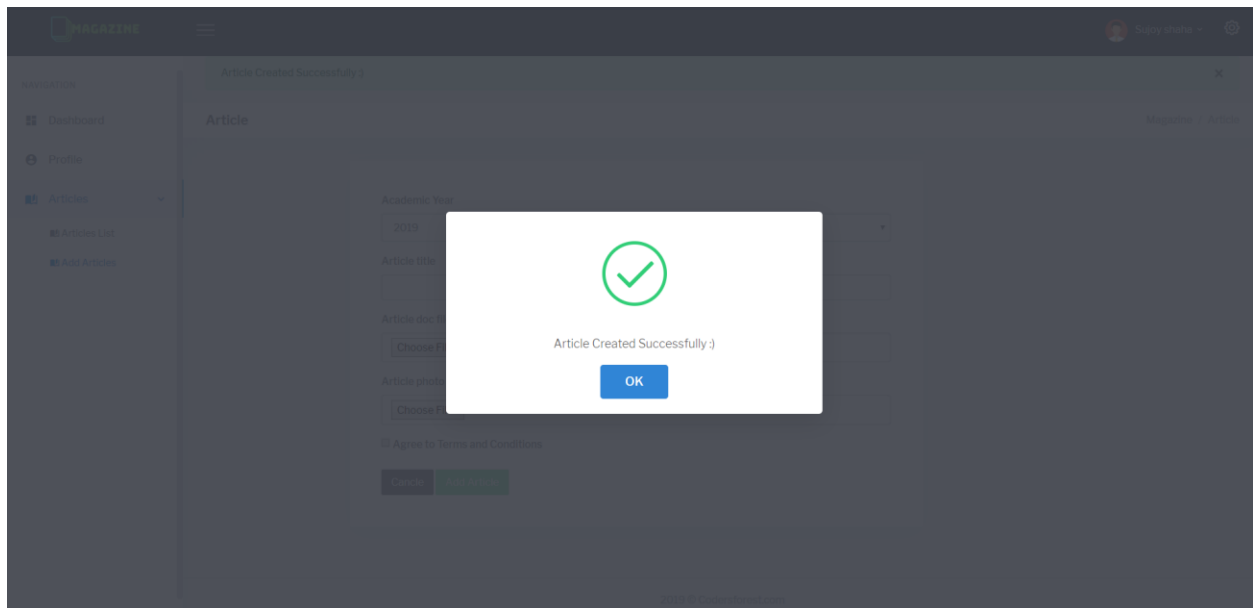
Choose Files 2 files

☒ Agree to Terms and Conditions

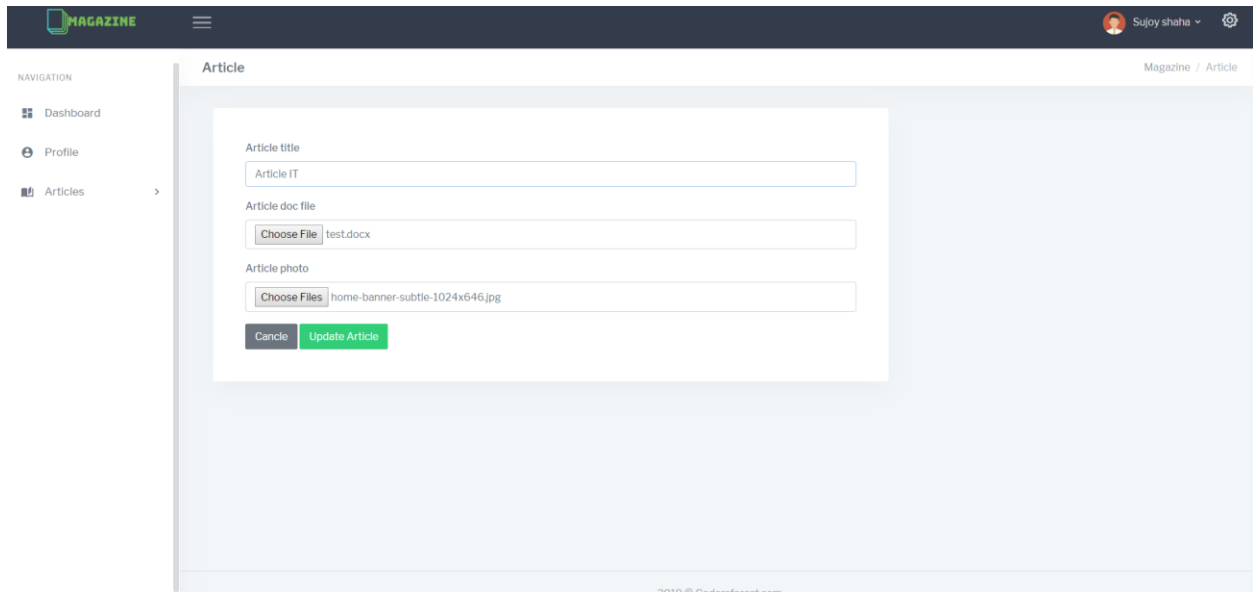
CancelAdd Article

2019 © Codersforest.com

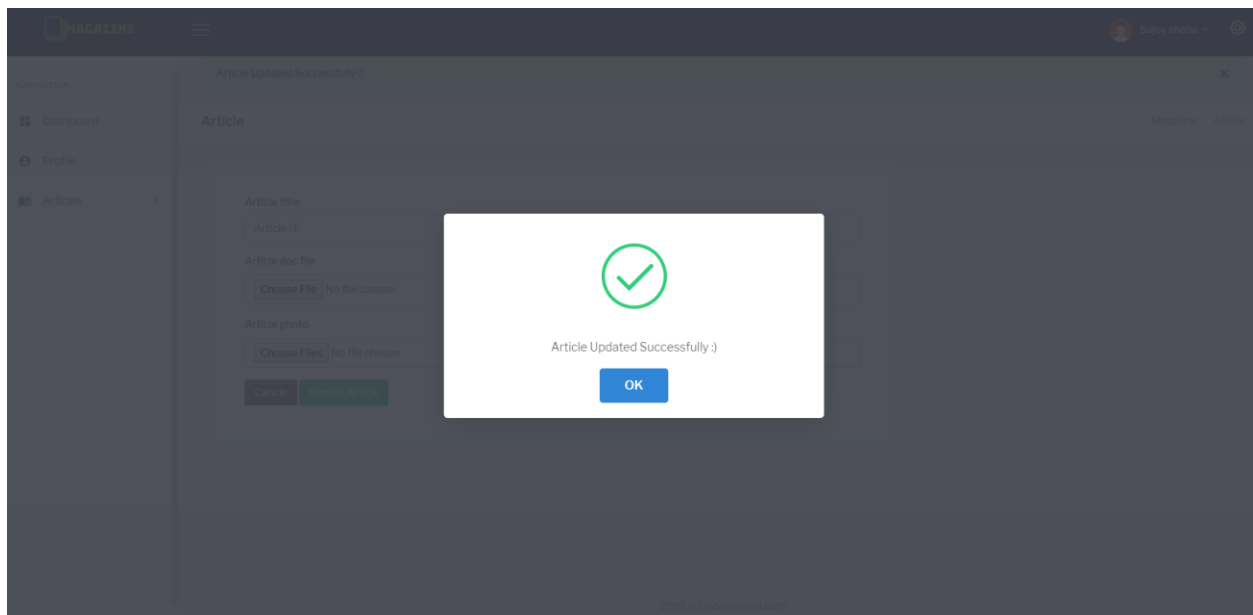
Add article



Article posted successfully



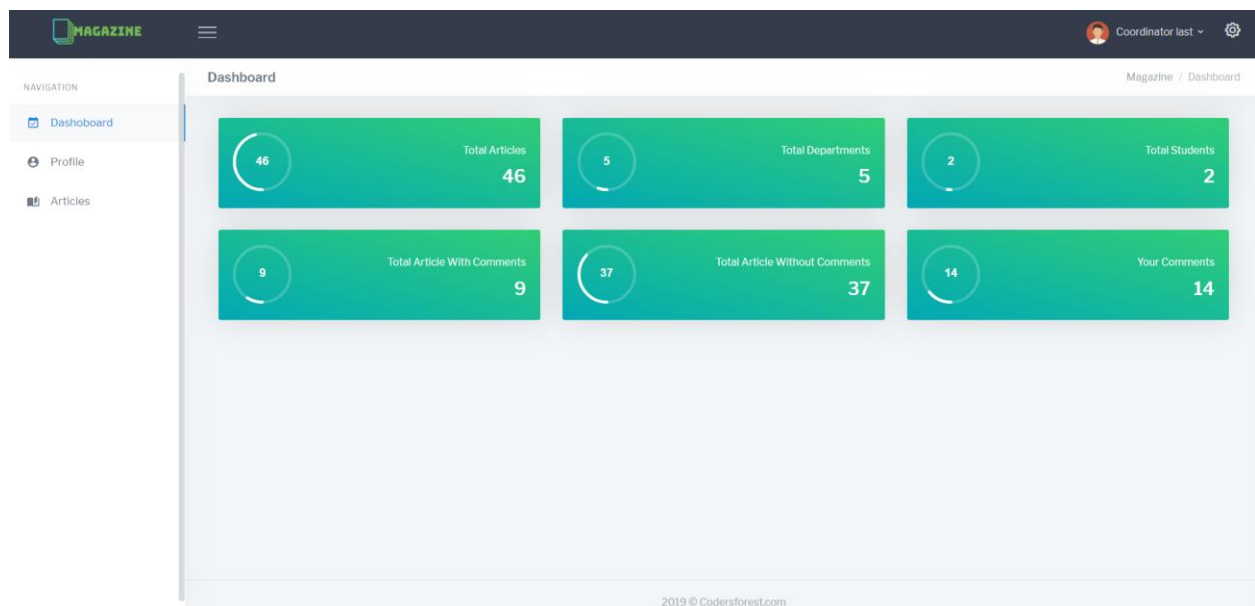
Edit Article



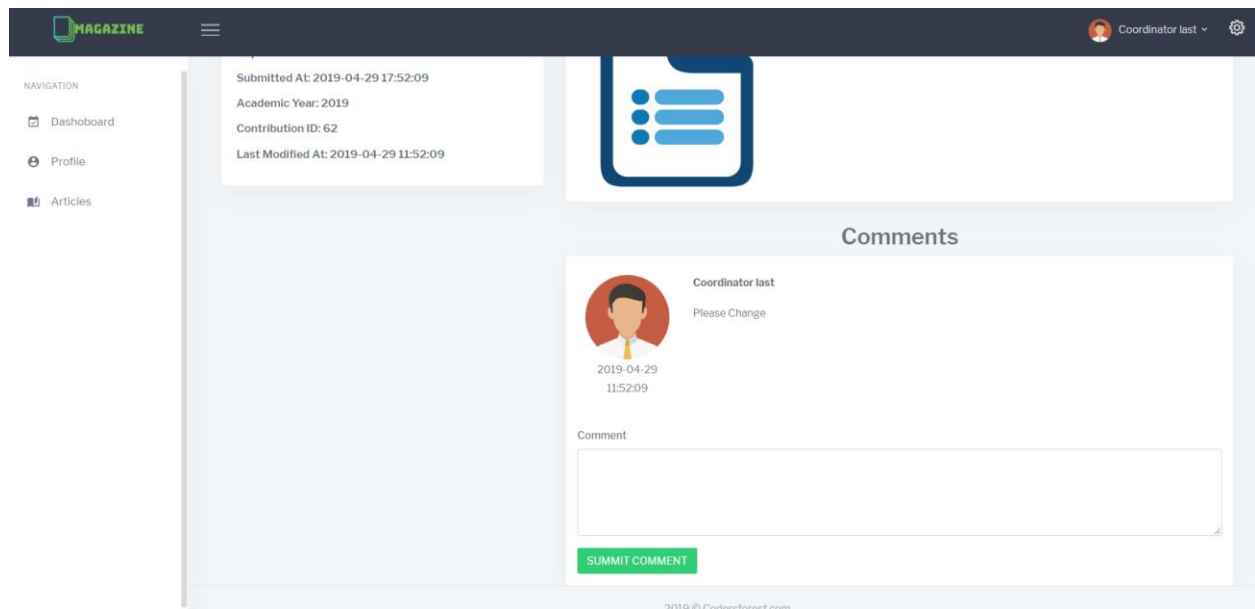
Article updated succesfully

Marketing Coordinator:

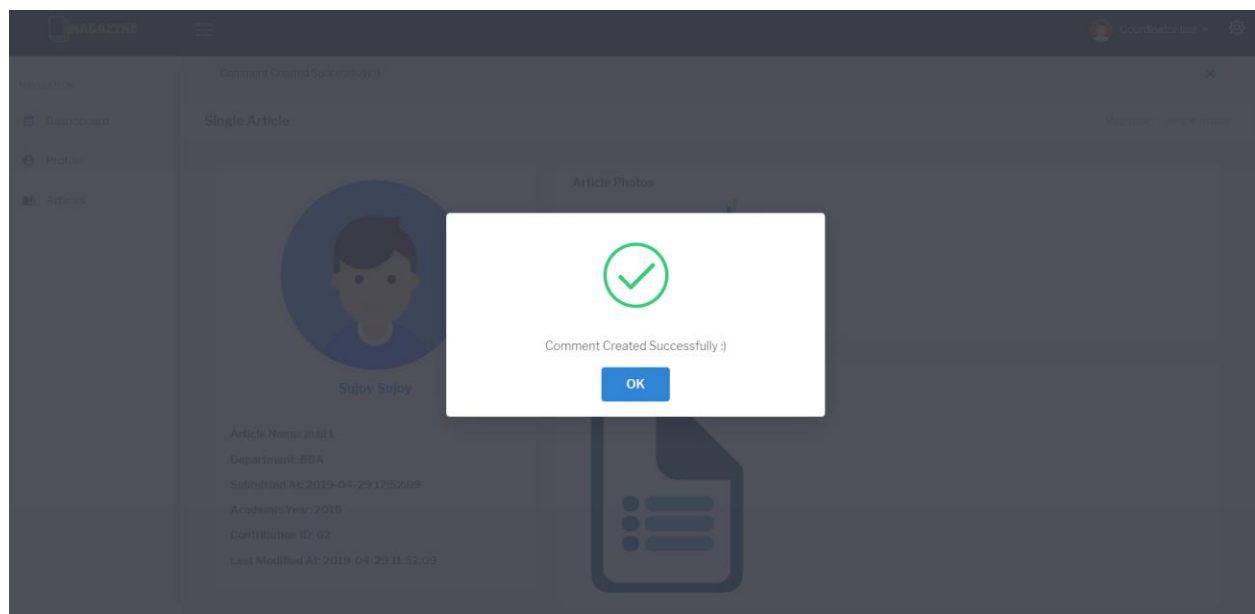
- Manage Own Profile
- View Articles of own department
- Can comment in article to update student about their article
- Approve Article
- Comment in article
- Can comment in article to update student about their article
- Own dashboard
- Receive mails about new article post within their department



Own Dashboard



Comment Box



Comment Posted Successfully

Faculty:

- Manage Own Profile
- View Articles of own department
- Own dashboard
- Generate reports in numbers.
- Generate reports in percentage.

Faculty Faculty

NAVIGATION

Dashboard

Profile

Articles

Reports

Article

2019

Submit

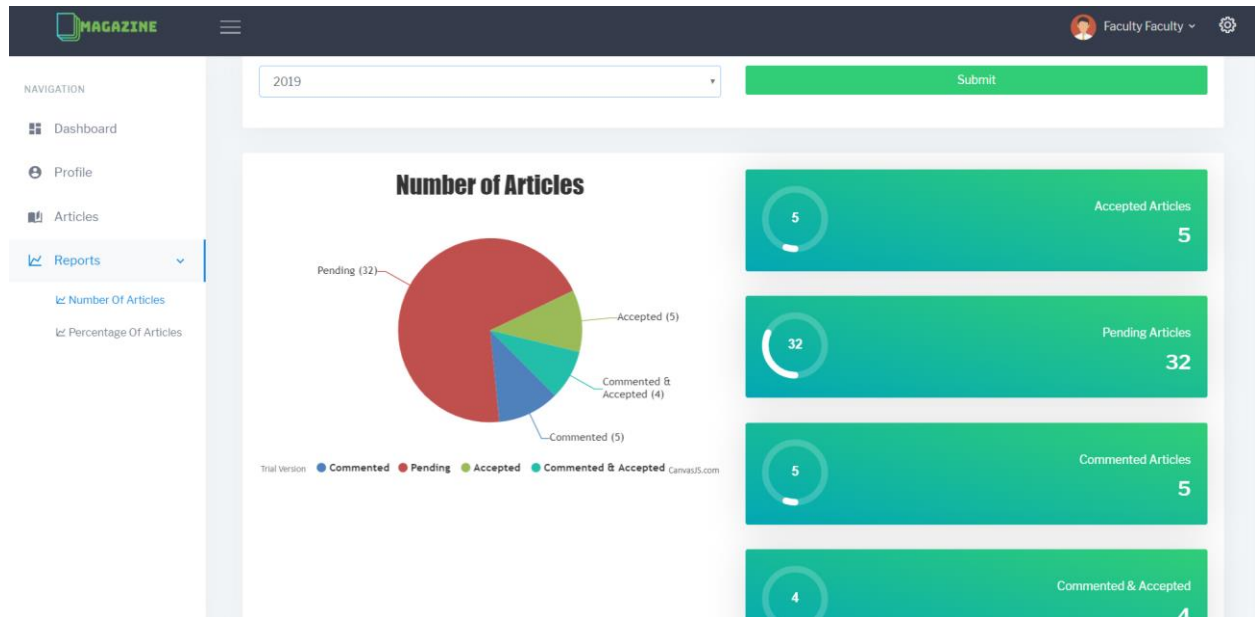
Show 10 entries

Search:

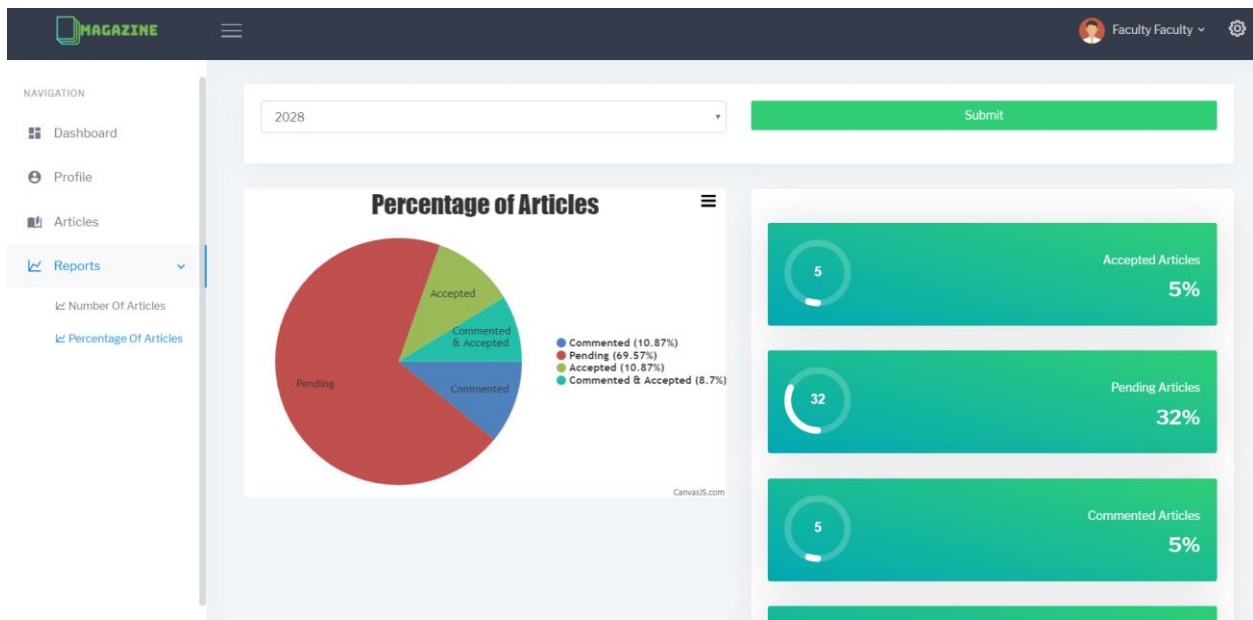
ID	Article Name	Closing Date	Submitted	Submitted By	Academic Year	Department Name	Status	Timeleft
52	Article 1	2019-04-30	2019-04-28 22:09:19	Sujoy shaha	2019	BBA	Accepted Commented	6 days
Action View								
59	post for bba	2019-04-30	2019-04-28 21:54:30	student 3 3	2019	BBA	Commented	6 days
60	post for bba 2	2019-04-30	2019-04-28 19:19:25	student 3 3	2019	BBA	Accepted Commented	6 days
61	post for bba 3	2019-04-30	2019-04-28 19:21:03	student 3 3	2019	BBA	Commented	6 days
62	mail 1	2019-04-30	2019-04-29 17:52:09	Sujoy shaha	2019	BBA	Commented	6 days
63	mail 1	2019-04-30	2019-04-28 14:26:00	Sujoy shaha	2019	BBA	Submitted	6 days
64	mail 1	2019-04-30	2019-04-28 14:27:39	Sujoy shaha	2019	BBA	Submitted	6 days
65	mail 1	2019-04-30	2019-04-28 14:31:37	Sulov shaha	2019	BBA	Submitted	6 days

View articles

In reports > number of articles menu overall system article report can generate numerically through department basis

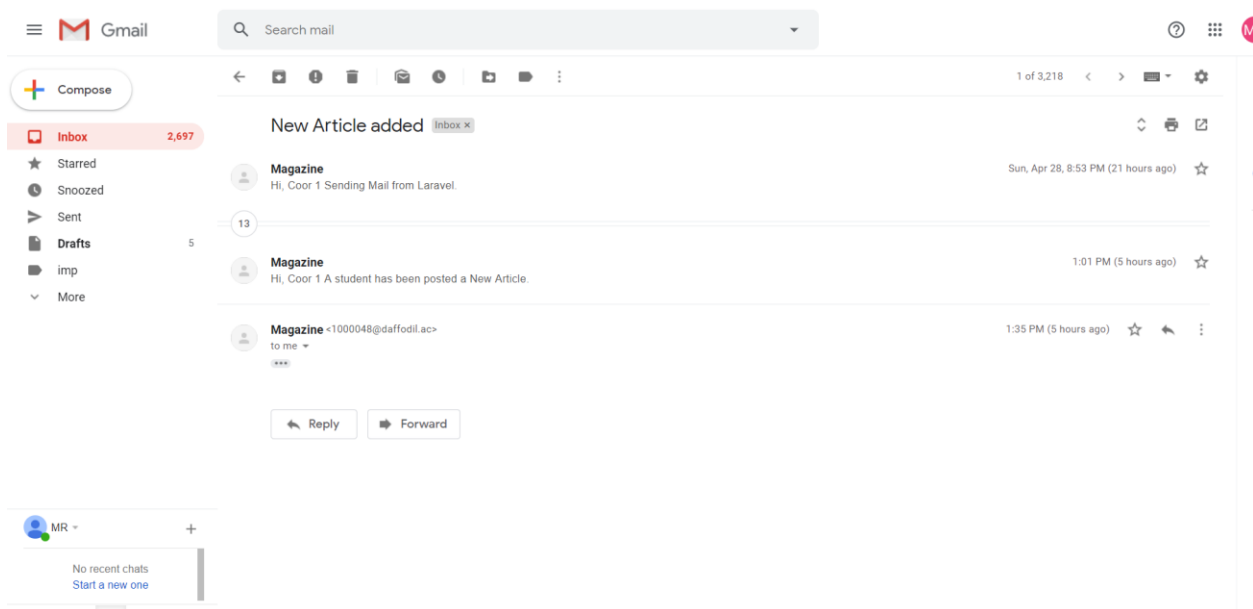


In reports > percentage of articles menu overall system article report percentage can generate through department basis



Appendix C: User Notifications

Notification will send to coordinator email after posted a new article successfully



Appendix D: Validation

To integrate data and secure the system some validation was applied in both server side and client side in the system.

Validation in each user's profile update:

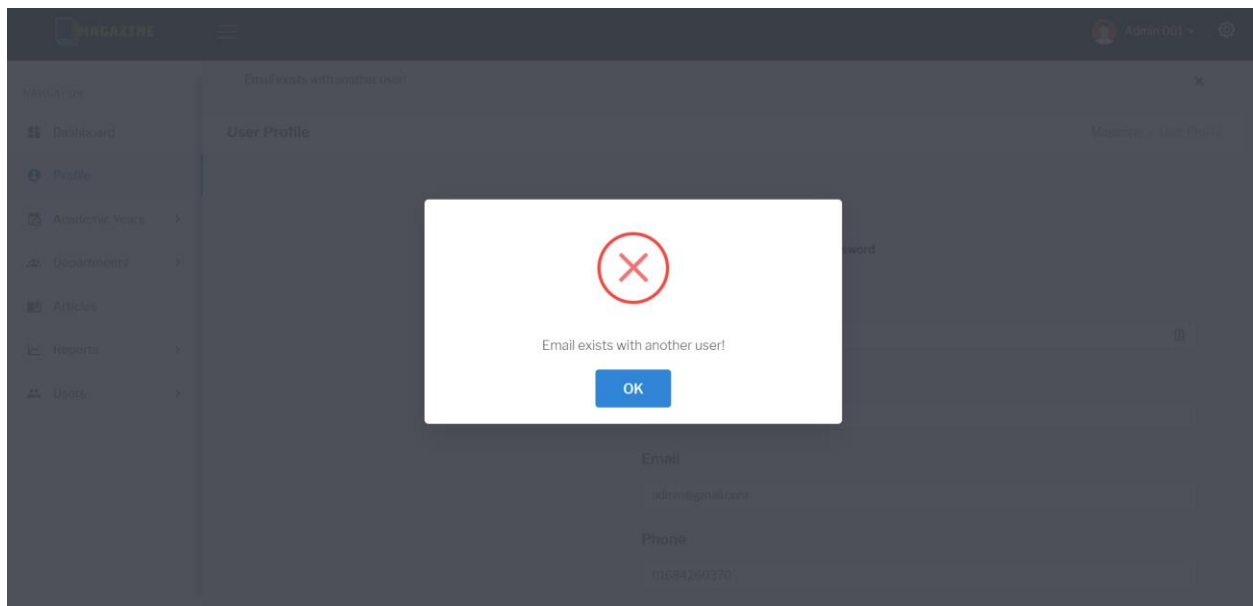


Figure: Existing email which attached with another user can't be use for update

Wrong old password will not allow to change user password

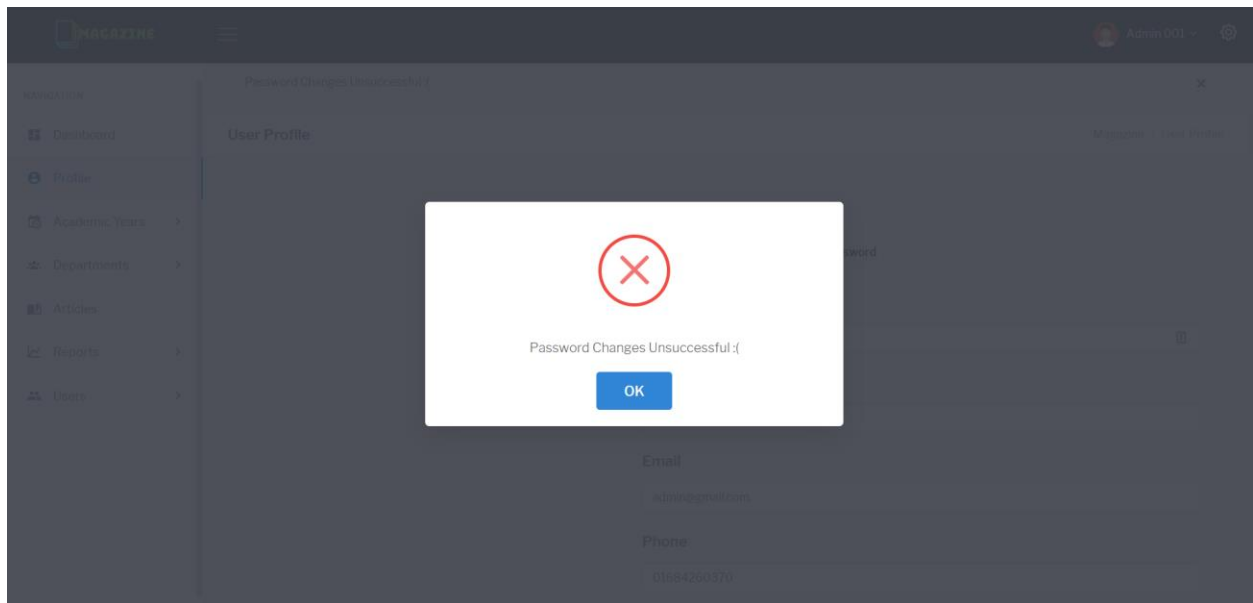


Figure: Unsuccessful password change for wrong old password

Mismatch of New password and confirm new password will not allow to change password

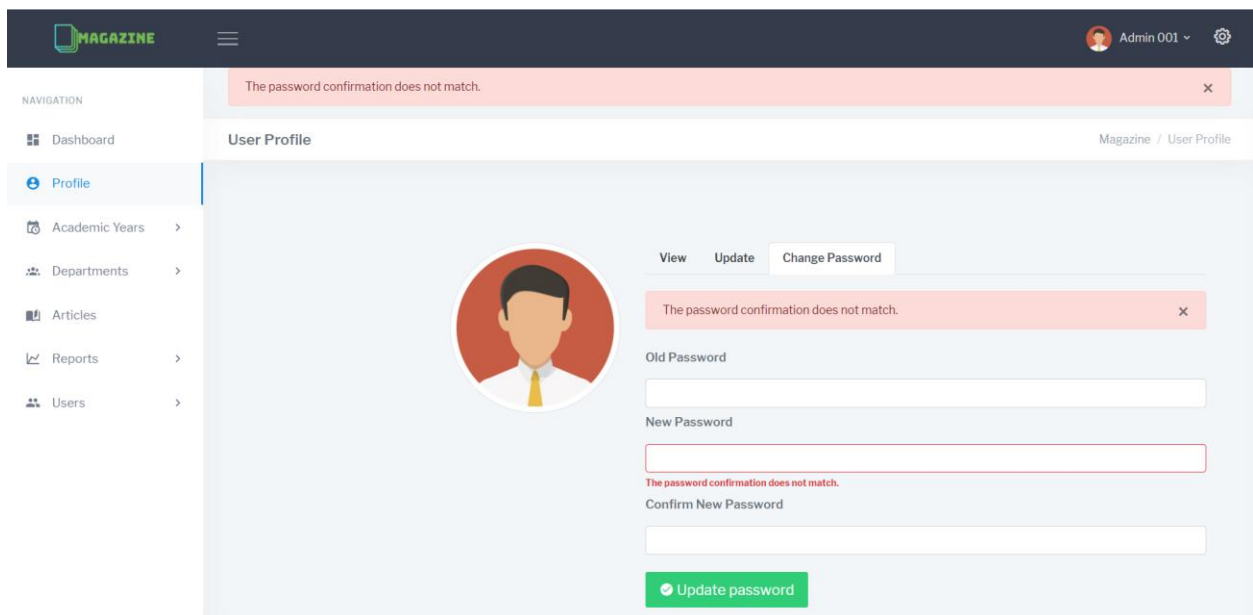


Figure: Unsuccessful password change for old and new password mismatch

Validation in academic year:

The screenshot shows the 'Add Academic Year' form in a web application. A red error message at the top states: 'The year has already been taken.' The form contains the following fields:

- Academic Year: 2019
- Opening Date: mm/dd/yyyy
- Closing Date: mm/dd/yyyy
- Final Date: mm/dd/yyyy

At the bottom of the form are two buttons: 'Cancel' and 'Add Add Academic Year'.

Figure: Existing academic year will not allow to create new academic year

The screenshot shows the 'Add Academic Year' form with a date picker open for the 'Opening Date' field. The date picker displays a calendar for April 2019. The date 31 is highlighted, indicating it is the selected date. The form contains the following fields:

- Academic Year: 2019
- Opening Date: mm/dd/yyyy
- Closing Date: mm/dd/yyyy
- Final Date: mm/dd/yyyy

At the bottom of the form are two buttons: 'Cancel' and 'Add Add Academic Year'.

Figure: Previous date can't be select as any type of date

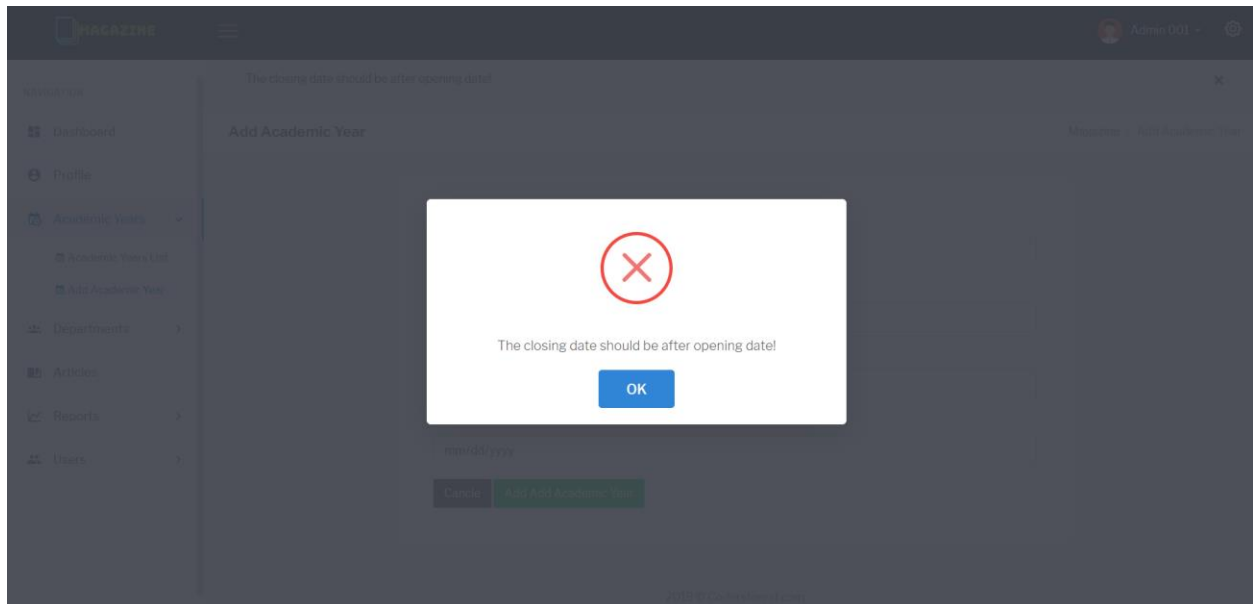


Figure: Closing date can't be select before opening date

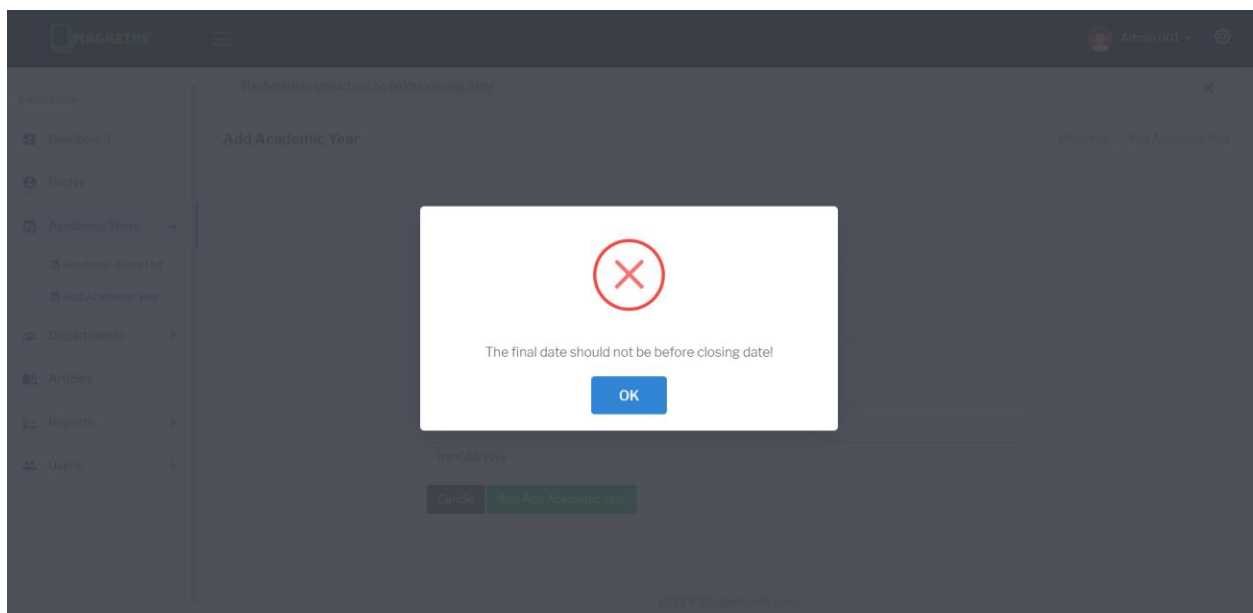


Figure: Final Date should be after closing date

