



Qaqnus.uz

# Internet Programming Report

News web site

INHA UNIVERSITY IN TASHKENT

09.05.2020

# Qaqnus.uz

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Click here to see our Qaqnus.uz project: <https://qaqnus.000webhostapp.com/>

Here are the email and passwords of Admin and one of the User to test our website:

Admin    email: [kabilovhurshid5@gmail.com](mailto:kabilovhurshid5@gmail.com)    password: Khkabilov-09

User    email: [jmakhkamov@gmail.com](mailto:jmakhkamov@gmail.com)    password: jmakhkamov

Click here to see our GitHub repository: <https://github.com/iuthub/ip-group-project-qaqnus>

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## Executive Summary

In daily life, people tend to know what is going on around them as fast as possible. Some survey results and investigations show that how people are trying to use and interact with tech such as online newspapers, rather than paper ones. This shows that how online news websites are re-imaging the construction of networked, dynamic spaces for online news discussion, which is not possible to give or discuss your opinions with other people in paper ones. News web sites are for all to know more about daily news and to do some negotiations about these topics or any topic globally. Currently the process of news web pages is gaining the key of the success of our marketing efforts. Today, this kind of websites are controlled by one or some organizations. As an example, "New York Times", or "Kun.uz" to share any information or everyday news about politics, new products, criticisms, analyses, instructions, and many more. It is a fact that best news catches the eyes of our customers, buyers, and audience. Our main concept is creating and developing a reliable news website for users in a user-friendly way. Besides, it is believed that it is exceptionally important for consumers or daily readers to know more about new products, new manufactured goods, politics, disasters, new types of illnesses or any type of news about different things. Here, we will guide you both technically and theoretically how to make a good news website using HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, Laravel, MySQL database, FTP server, GitHub, and others, as well as, we guide you how to start effectively a blog, and managing it by providing you with needed information and with a step-by-step guide.

## Introduction

Before starting how to create or develop a news website, we should have a clear pre-frame work what to do and what to include in our page or take a look over our daily newspapers. Which means, our e-newspapers should grab the more attention of the readers, “How it is possible? “and what information and structure can attract more people to use our website. A news website can be defined as a webpage which allows users to reflect it b, see new information about any topic and provide opinions about various topics in the way of an online paper or discuss these topics online.

- News types are grouped as two, world and local which can help readers to determine what is going on not only locally but also globally with a clear focus on a particular topic.

There are many features of news websites such as not only enabling users to know more what things are happening, but also to determine how they express their opinions about the news. Since news websites are organized in a chronological order, this gives a sense of use of easiness for the users see what is where and which topic is currently being more discussed. Unlike daily newspapers, in news websites, users can search what they are curious or time related information like latest news, or new ones about any topic or they can search with respect to the titles of topics.

Besides, this news must be reliable, trustworthy and another important thing about news websites is that users can give or express their opinions and views about news, products, and other information, when they might not have an opportunity to give a voice due to the selectiveness of other social media, such as magazines, daily newspapers, and other forms of publications. In the sphere of news webpages, there is not a virtual limit for users to how much to know more about daily global and local news and how well one could express their opinions about news. For instance, if a new manufacturing product is shown as a news, the ones who used this product can give their opinions about it to engage people to purchase it more. This gives a sense of awareness for self-choosing products by taking into account of other users’ notions and feeling about what they feel like sharing. News websites are in a high demand even in a business sphere in terms of finance. For instance, because of the wide spread of the news, the number of investments of firm’s return is increasing by holding customers and providing them with news about diverse topics which concerns the firm and these companies would better understand and take into account the feelings, and concerns of general public in terms of designing system of their manufacturing products. Moreover, news website helps more to understand the demographics of their customers and the system which they seek out to build, faster rather than paper ones or paper surveys. This crucial data can help the manufacturers to re-design their producing systems, and their business process in a way that would give them not only a competitive, but also a leading advantage among other competitor. This would develop a sense of affiliation where consumers would gladly be associated within the business and market place.

However, it is undeniable true that there are many disadvantages such as the spread of news or information globally. Since all can express their views and notions about a particular topic, they tend to discuss that

by displaying its benefits, outcomes, and uncomfortable sides of products, or news with risks associated. Thus, the most horrible thing in the business world is that having a negative negotiation or views among consumers publicly about a particular product. Another disadvantage is that news webpage may lead people to trust in false information sometimes which may lead even to cause health related damages. This may misguide many to choose by making hard to decide what is appropriate or not for them, and this causes wrong and inappropriate posts and comments.

## Principal Part

### ➤ Start to making a news website

Developing a news website can be created using modern web technologies. News websites can be programmed using HTML, CSS, Bootstrap, Laravel, JavaScript, JQuery, MySQL, and many more. However, interesting fact is that news websites can be created without using any of above web applications and how to code. With the help of building sites such as ExpressionEngine, WordPress, Movable type and Textpattern, today it is possible to make websites easily. Depending upon the demands or requirements of users, what the news web page looks like or how it wants the news page to be, there are diverse ways to create and design websites. News websites are developed as both a dynamic and static depending on the way it is coded or how it is functioned.

- Dynamic websites – support users with the interaction of contents and give them some form of feedback. The reason why they are called dynamic web page is related to with how they are developed and maintained. In dynamic sites, one or more database in the place of the Web contains styling files, all of the content and other related files, besides such files are administrated by an application called a Content Management System. These condense are done on the website using different templates done in a dynamic mark-up language such as JAVA, PHP, Python, and some other dynamic mark-up languages. Alike HTML, these types of mark-up languages common, but they are more complicated them HTML and have more features to do. Making dynamic pages provide all application with some intelligence from all sides to make all features become full.
- Static websites – are the ones whose pages are stored on the server side in the format which is sent to a client web browser. They are made using Hypertext mark-up language (HTML), and does not use any dynamic (server side) language such as PHP, JAVA, Python and others while building applications.

This project, that we are making, uses both static and dynamic languages to make a website. In the static website, users can see the same page normally, on the other hand, in the dynamic one, users are allowed to interact with news page to publish news. They only can express their opinions and notions about the news. Thus, inappropriate or dangerous user can be removed from the system by admin. New types of news websites are made to be respondent to the challenges of today environment. Some things should be

applied in the design face to avoid some restrictions. One of these things is database for the news website which contains a database table used for publishing a news and proving a comment section. Published news must be in chronological order and each news must contain its unique ID and should be time stamped. Each news is associated with the post title and id. Before publishing the news, an author is asked to login in. The news consists of title, author, date and content which usually include links, text, styles or videos.

Before publishing the news, some restrictions should be applied for it such as title should be entered, written, and should be simple before the text submitted. Content is a place where some discussions or negotiations of posts happen, besides it is crucial that this place is in a sense of encouragement for others hold the conversation or communication in a good sense.

This is UML diagram for database,



Figure 1. Database UML Diagram

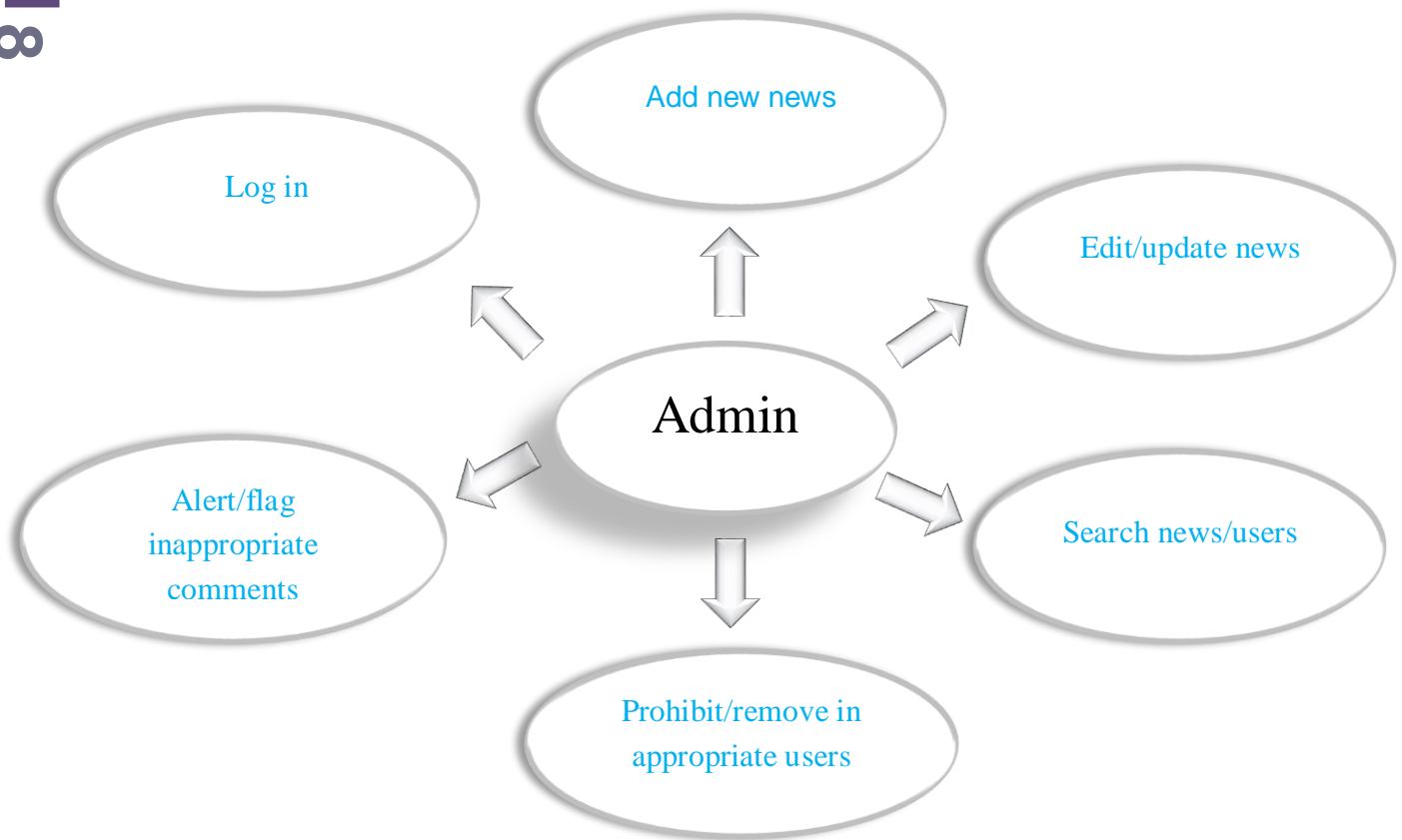


Figure 2. Admin actions

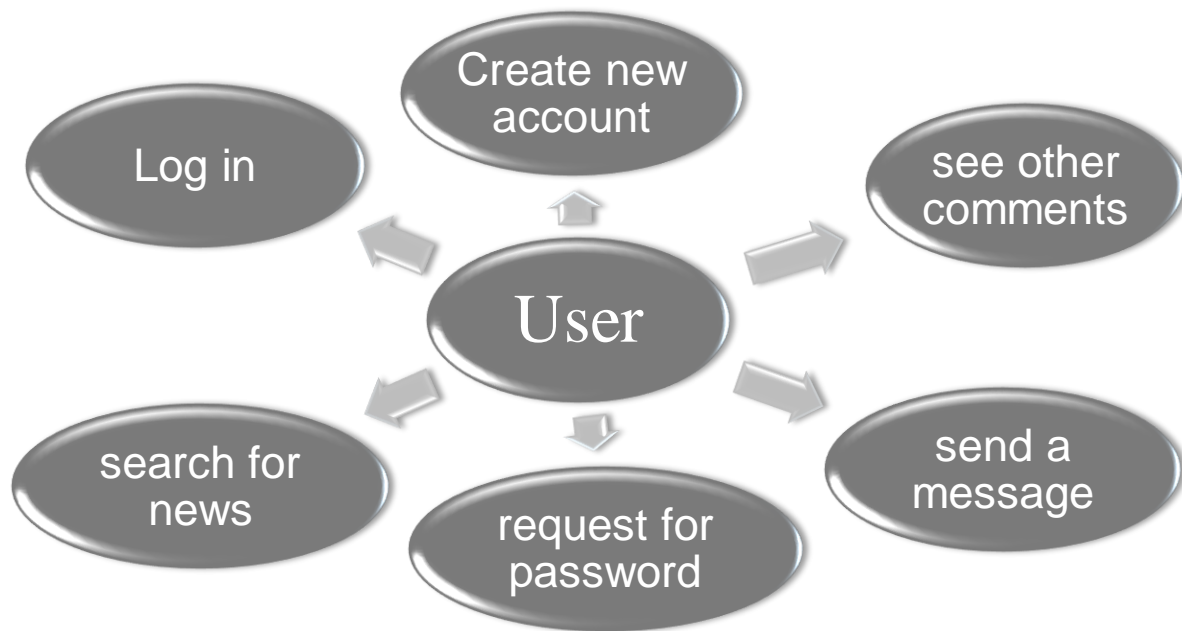


Figure 3. User actions



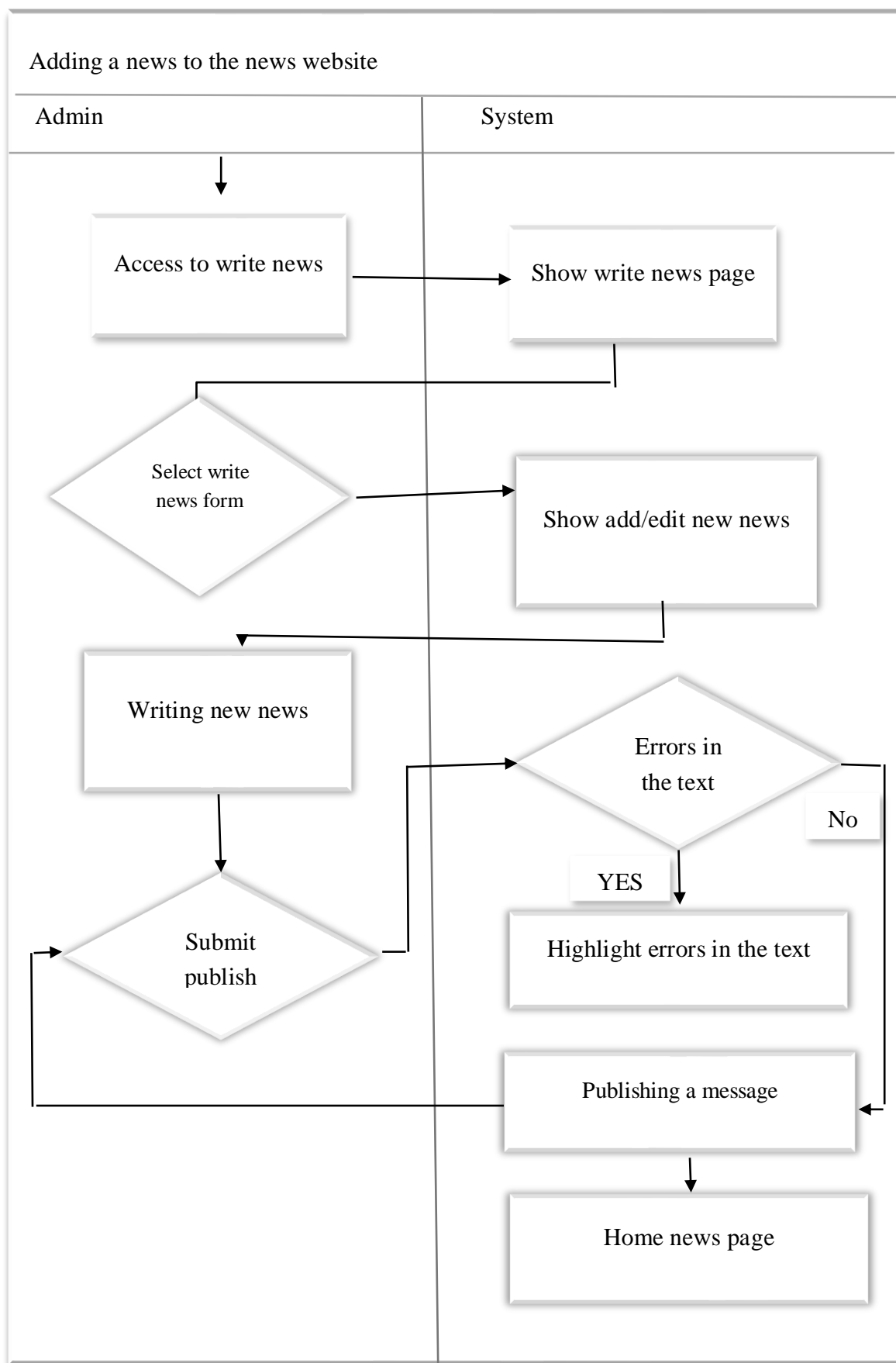


Figure 4. Producing new news diagram

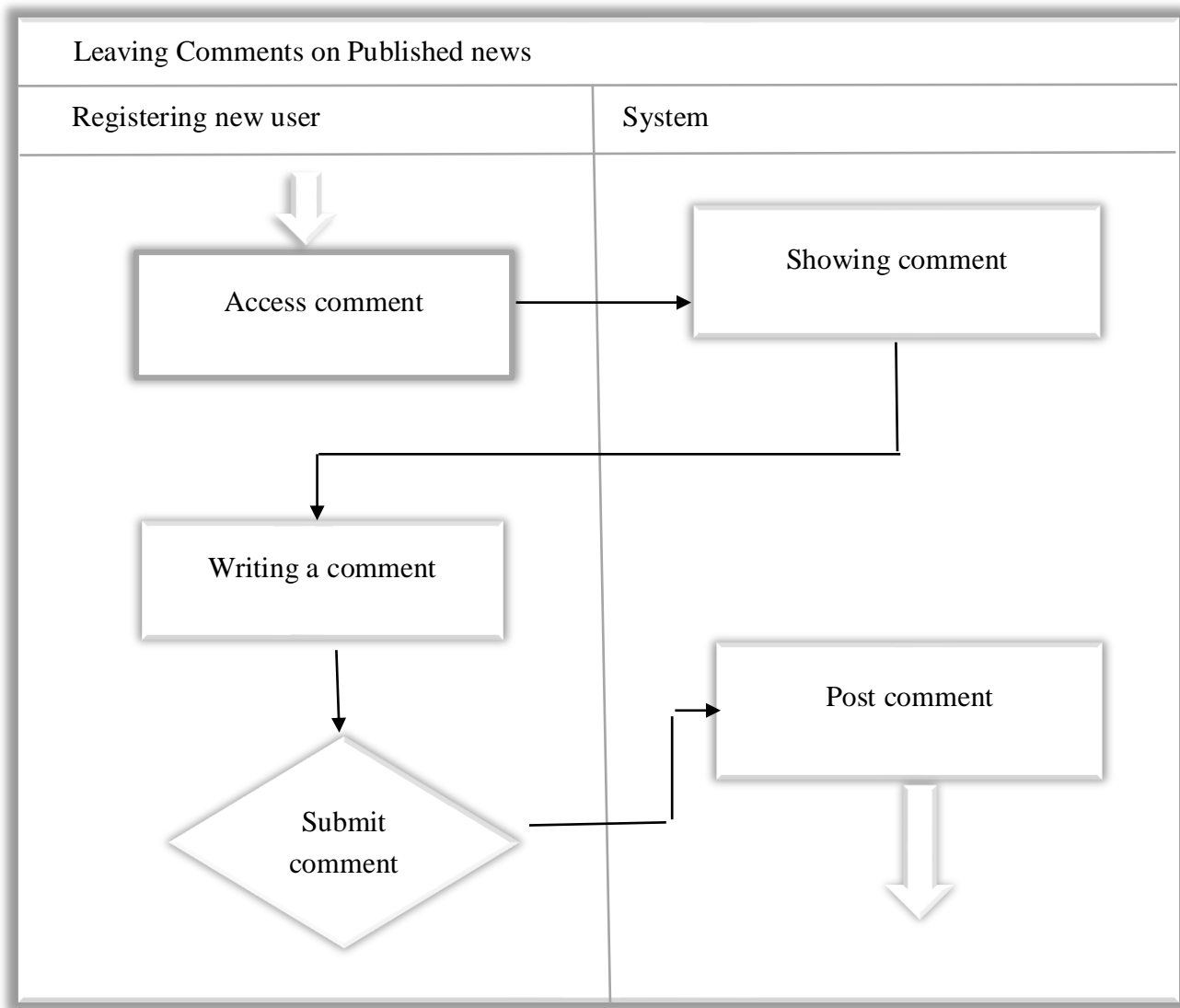


Figure 5. "Giving a comment on News" diagram

### ➤ The working process of our system

First of all, we will take a look over our main page and its functions, and some other features inside it. This page has some functions as shown in the class diagram. In our Main page, at the top, we have

- All News
- Categories
- Contact
- About Us
- Search button
- Login
- Register

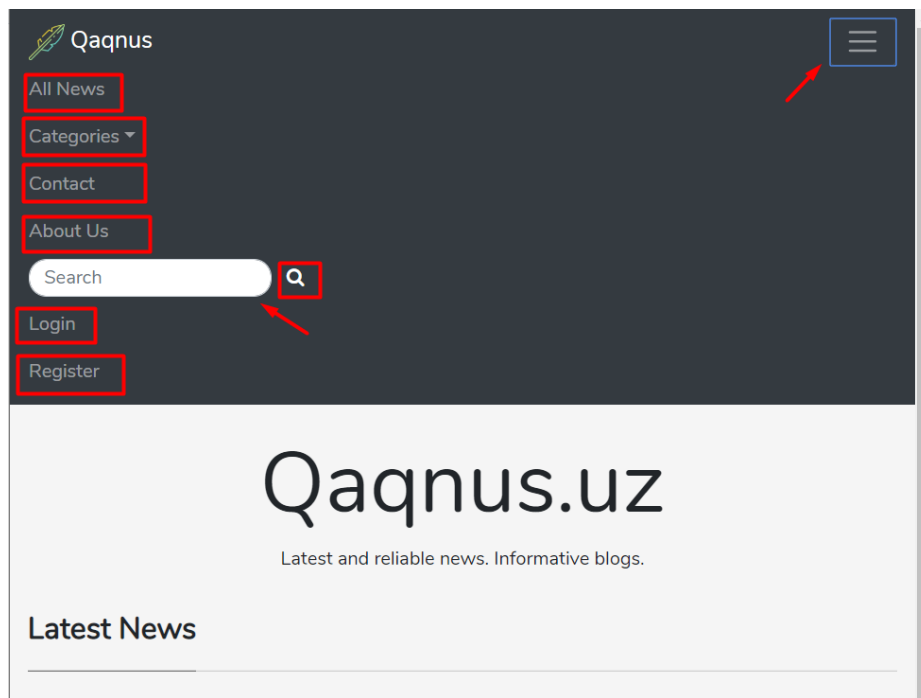


Figure 6. Menu page

1. From News button, located on the left top corner of the web page, by pressing any typical visitor or admin can see all published news, as shown below screenshot. Here user can distinguish whether new is old or latest, and it is local or global, besides user can see the posted date.

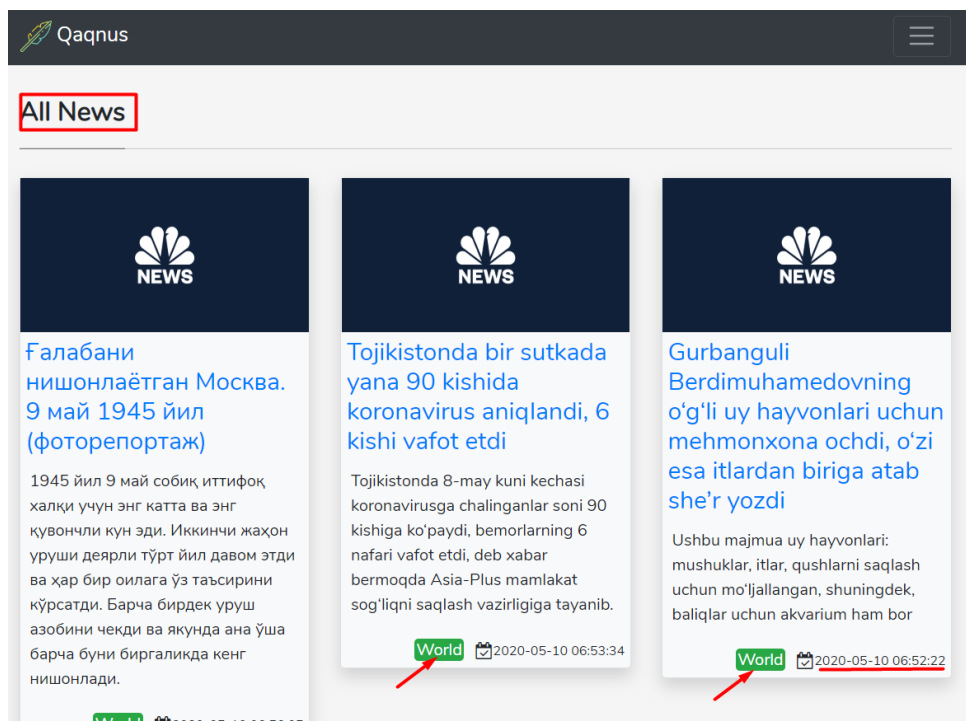


Figure 7. News page

2. In Categories, the user can choose one of the options which are the World and Local news according to the taste or interest of the reader.

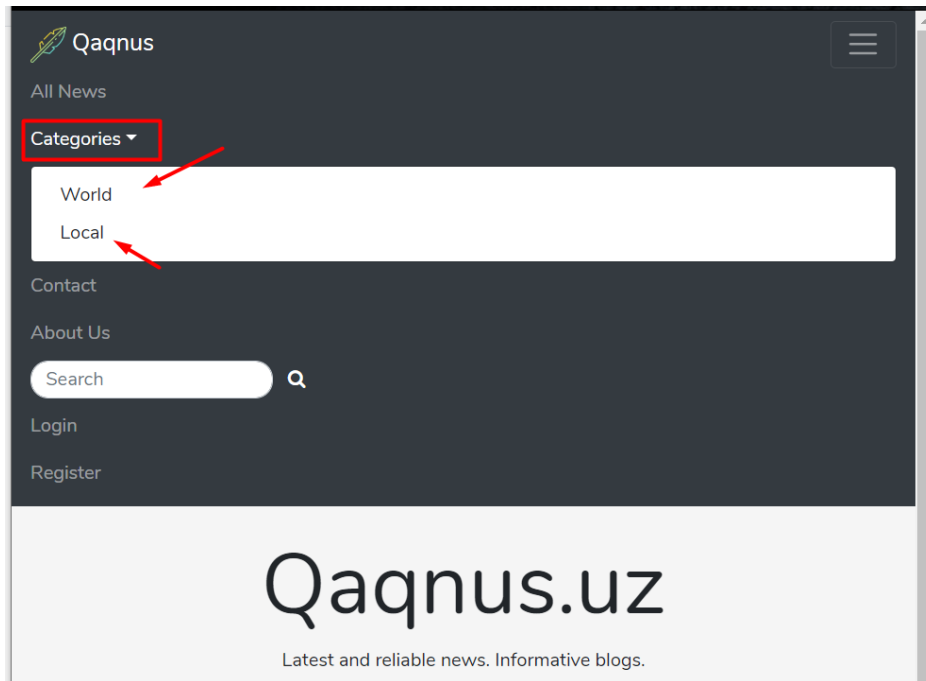


Figure 7. Categories are World and Local

3. Here, you can see the Contact. Once you press it, it leads you a page which contains Contact information of admin and organizers to contact with them, if the user has any query or request.



Figure 8. Contact information

3.1 In this below screenshot, you can see the Contact information of organizers of this website which contains Address, E-mail, and phone number.

Get help with Qaqnus.uz

**Contact Info**

**Address**  
Tashkent, Mirabad, I.Karimov street, 77

**Email**  
qaqnus@mail.uz

**Call**  
+998 99 73 277 17 71

**Email us**

Name

Email

Subject

Message

Send request

Figure 9. Contact details page

3.2 Below, by filling the needed places, if the user has an inquiry, request or has some issue, they can send request to the admin.

Get help with Qaqnus.uz

**Contact Info**

**Address**  
Tashkent, Mirabad, I.Karimov street, 77

**Email**  
qaqnus@mail.uz

**Call**  
+998 99 73 277 17 71

**Email us**

Alisherova Madinabonu

m.alisherova@student.inha.uz

Adding me as a user

Dear, Admin  
I've an issue with registration, can you add me as an user?  
Sincerely,

Send request

Figure 10. Contact details page

4. In below screenshot, you can see the developers of “qaqnus.uz” and needed information about them. if the user wants to know about the page holder and creators who are HR Managers, Frontend Developers, Project Managers, and Full-Stack Developers. If a user wants to have a contact with one of them, they just can go through the Contact information, and then just click one of the social media button like Facebook or Twitter in order to contact with them.

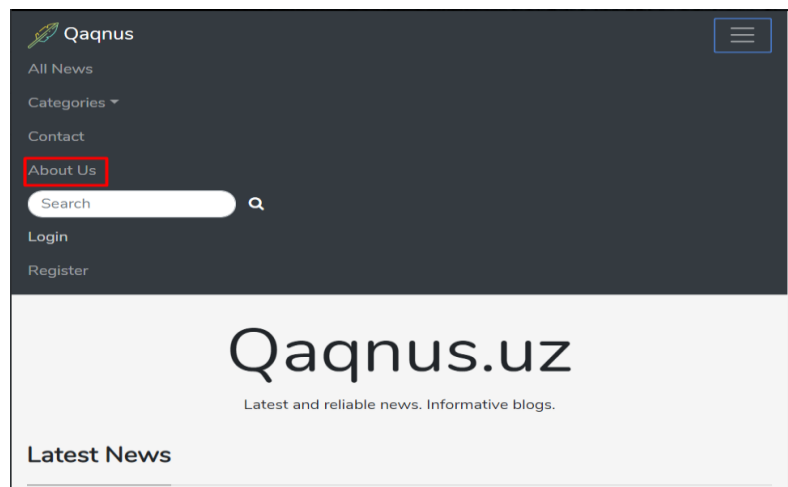


Figure 11. About Us

4.1 After pressing About Us button, the new page with information about developers of this website appears as shown below step-by-step.

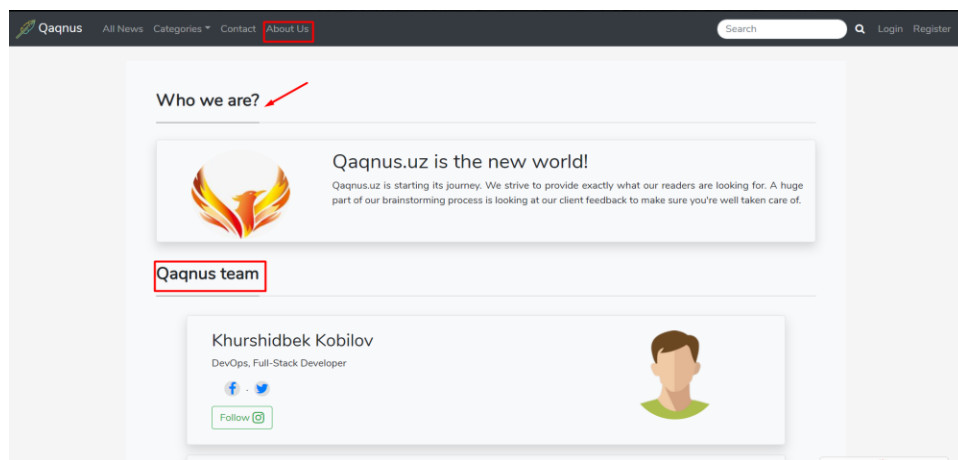


Figure 12. About Us with developers

4.2

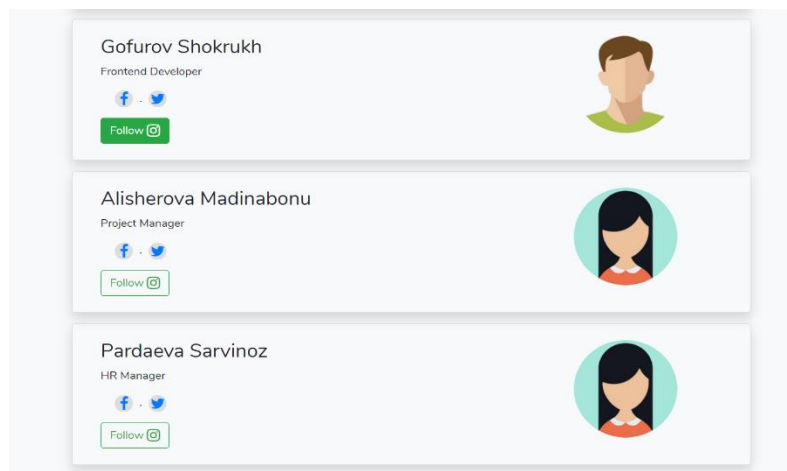


Figure 13. About Us with developers

4.3 You see their contact social media, and you can follow them using one of these.

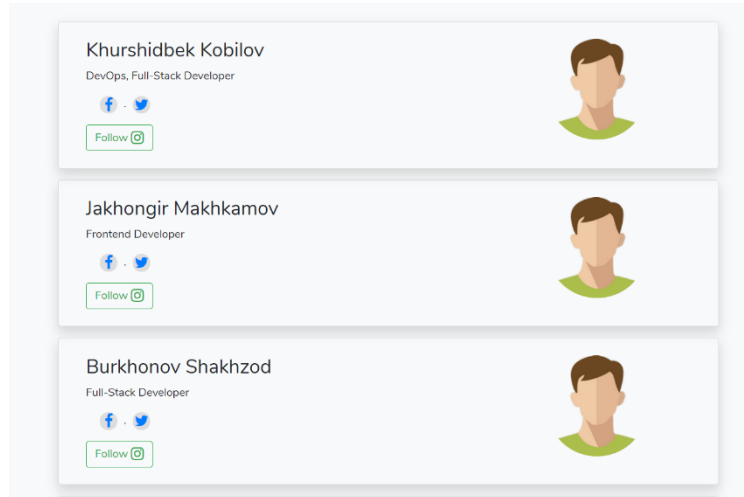


Figure 14. About Us with developers

- Typical visitor can search latest or old published news, admin can search both users and latest and old news. Once the user or admin searches any information by typing first letter of what they are looking for, it matches with first letter of the word and if you keep typing other letters, it defines other part of the word is being searched and matches. if the first letter of this word that is being looked for matches with any letter of some word in the page, it defines the matching words containing this letter and displays those words to the user. This is the way how searching button works and finds them in the search button.

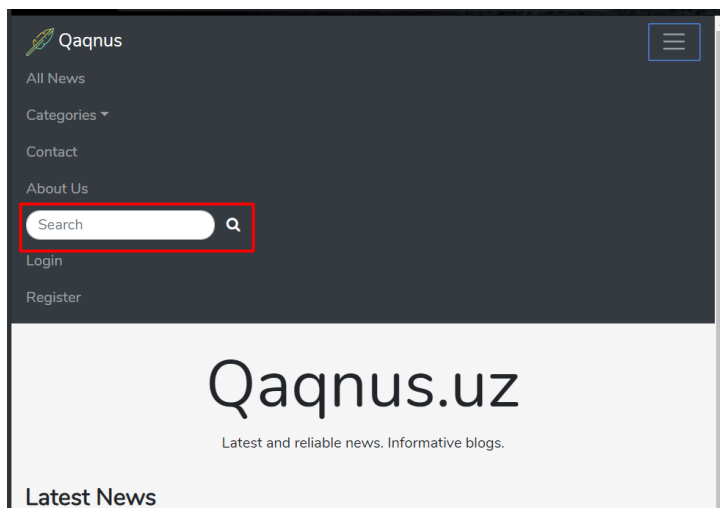
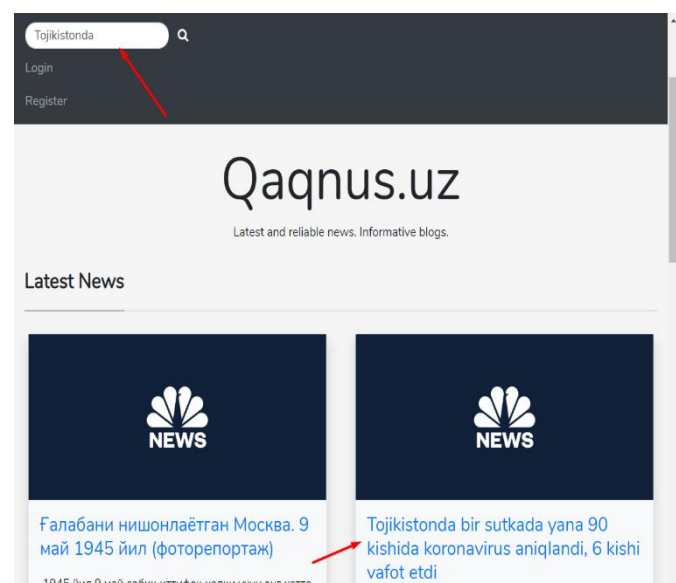


Figure 15. Search button



6. Using Login button, you will have an access to the admin page

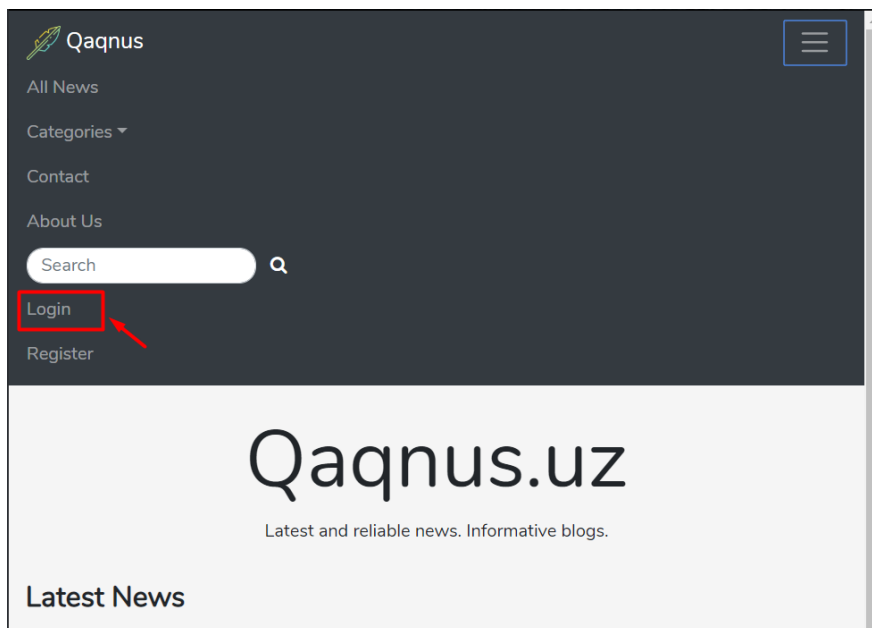


Figure 17. Login button

6.1 Once the admin presses the login button, login page appears. The admin is required to fill in the needed places with his or her own E-mail and password, if he or she has already registered. If the person, who is trying to login, has not created an account yet, then user is required to go register button, by showing he or she has not created an account yet. When the user has already created their account, then they will login, but depending upon the user, they will have a similar window as they accessed from the link, but this time they will have an account. For admin with above counted functions, and for a typical visitor, with their own functions. Their pages will be different depending on the person who is accessing.

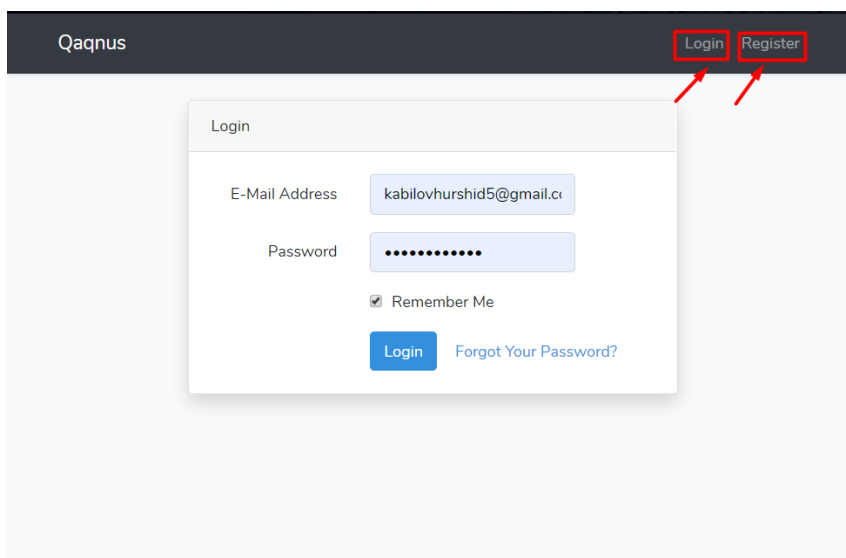


Figure 18. Login access page



Qaqnus Login Register

Login

E-Mail Address kabilovhurshid5@gmail.co

Password .....

☒ Remember Me

Login Forgot Your Password?

Figure 19. Login access process

7. As we have mentioned above, the user or new visitor, who has been trying to login has failed since they do not have an account, is required to fill the free spaces with their information to have an account. However, the point is here that once the new visitor registers, they are registered as a user not admin. Only admin can add other admins and other users, however admin does not have a right to interrupt or delete another admin, albeit he or she can delete users easily depending upon their unappropriated actions.

Qaqnus Login Register

Register

Name Alisherova Madinabonu

E-Mail Address m.alisherova@student.inf

Password .....

Confirm Password .....

Register

Figure 20. Login access process

18 After sign in as admin, the user will have below shown page. Admin page starts here, and this page contains dashboard, posts, admins, and user.

We will see what functions these buttons carry out step-by-step.

Functions of Users	
Admin	User
<ul style="list-style-type: none"><li>- Create new account</li><li>- Add new news</li><li>- Update/edit news</li><li>- Delete news</li><li>- Add users</li><li>- Comment on news</li><li>- Removing inappropriate user/comment</li></ul>	<ul style="list-style-type: none"><li>- Create new account</li><li>- Read news and comments</li><li>- Edit own user information</li><li>- Comment on published news</li><li>- Send Request</li><li>- Searching news</li><li>- Access</li></ul>

Figure 6. Functions of a user after sign in

Depending upon the user, once they access by login in, they will have above feature to be able to do in the news websites. You can see that they have different roles in shortly. The user must register the system to post a comment or leave a comment on the news, while admin must also log in the system always publish new news or information. To access the system, admin must sign in the by entering their email address and password, once they enter an unavailable email or password, they will be redirected from accessing before signing in.

After signing in we will have a window of below,

On the left top corner, we have four buttons.

- Dashboard
- Posts
- Admins
- Users

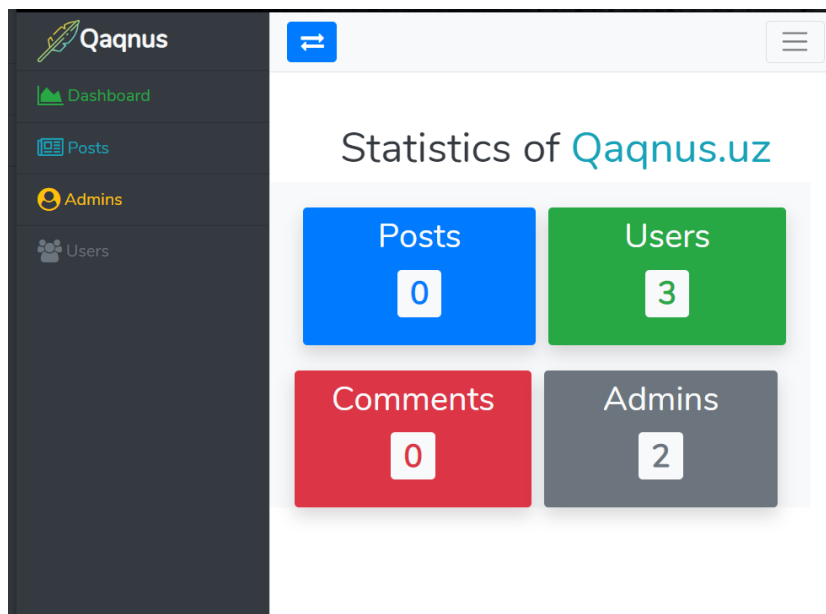


Figure 21. Admin page after login

- 1) First button is Dashboard button. if you press it, you will have below page with statistics of Qaqnus.uz, the number published post news, the number of users, admins, and comments as shown below.

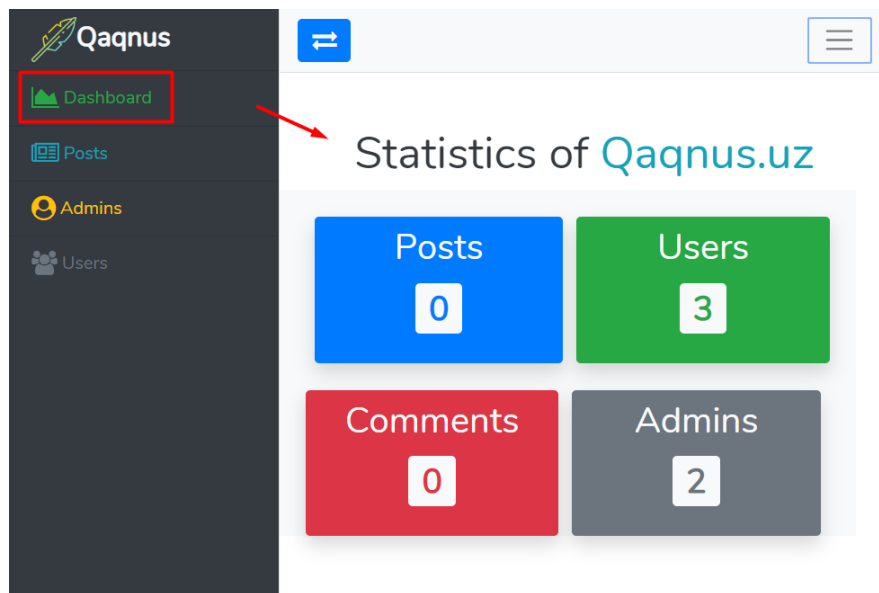


Figure 22. Admin page | Dashboard

- 2) On the left corner of this page, after dashboard, we have a post button which leads the admin to the page which he or she can publish news or update published posts.

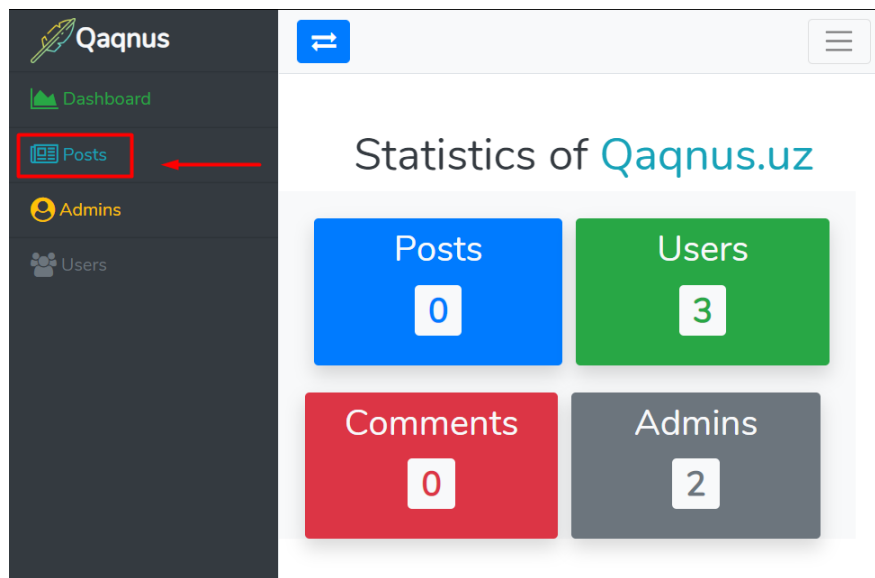


Figure 23. Admin page | Posts

2) 1 In the below screenshot, we have Posts page, which admin can publish news here. When admin presses “Create Post” button, it leads the admin to the “Creating new post “page. In creating new post page, news publisher is required to write “Title, Description, and Content of the news.

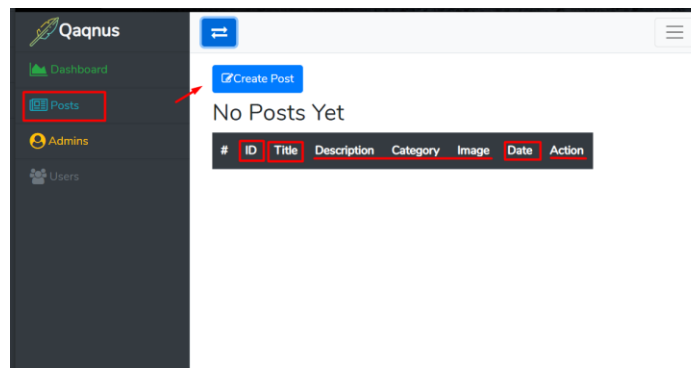


Figure 24. Admin page | Posts | Create Post

2) 2

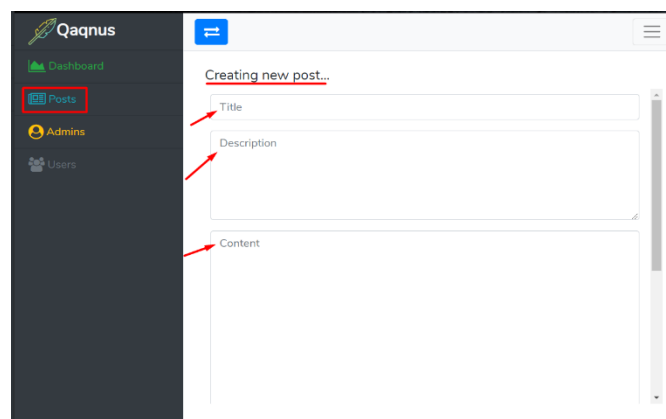


Figure 25. Admin page | Posts | Creating new post

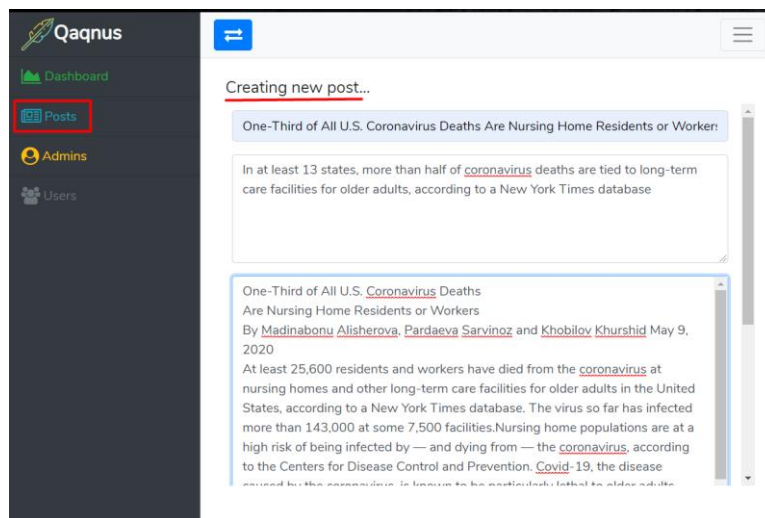


Figure 26. Admin page | Posts | Creating new post

2) 4 Once the admin scrolls down, he or she will have other requirements choosing categories and if needed file uploading. After finishing all, the user can check that news has been published.

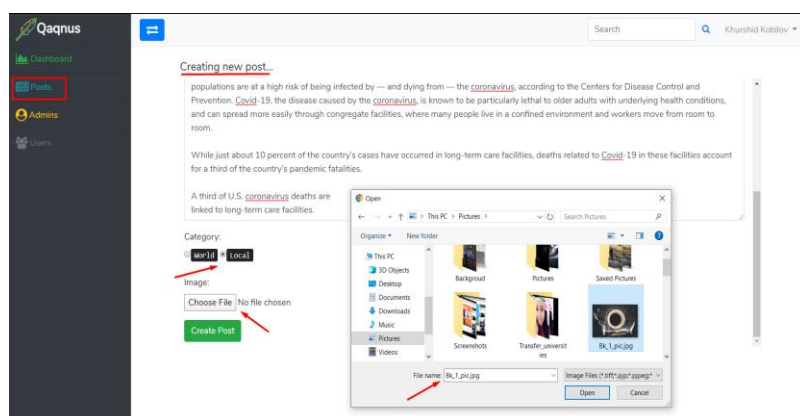


Figure 27. Admin page | Posts | Publishing news

2) 5 After filling all the required places, the news has been published

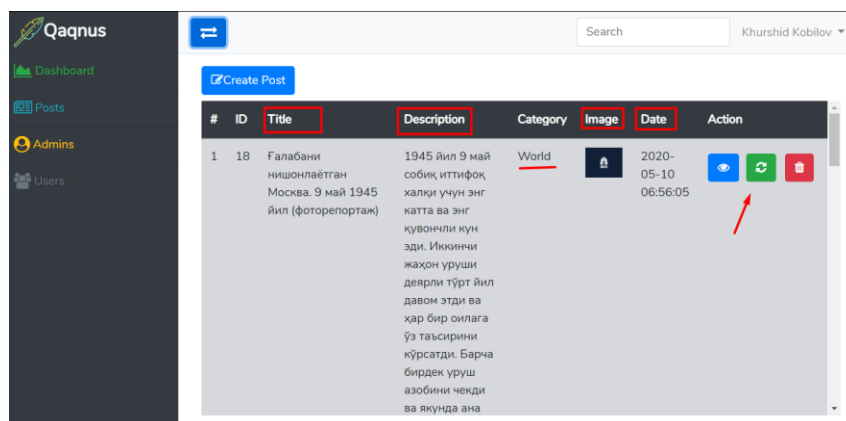


Figure 28. Admin page | Posts | Published news

3) Here, you can see that in this page there is admin button. When you press it, it shows the admins.

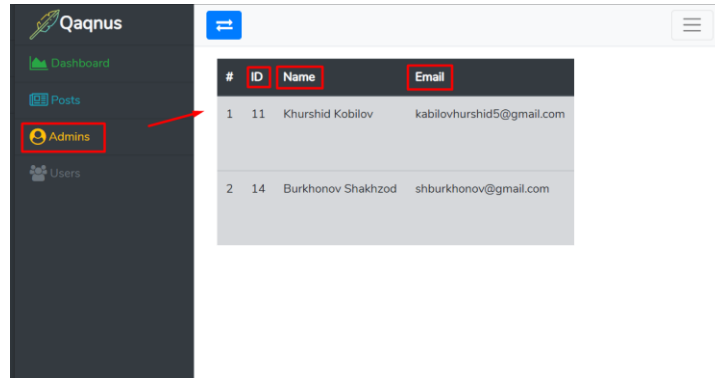


Figure 29. Admins details

3) 1 Then the last button on the left top bar is Users. Admin can create accounts for users by pressing the button “Create User”. Here, you can see the name and email of users, they are differentiated with their unique ids. Here there are some other buttons that we will take a look.

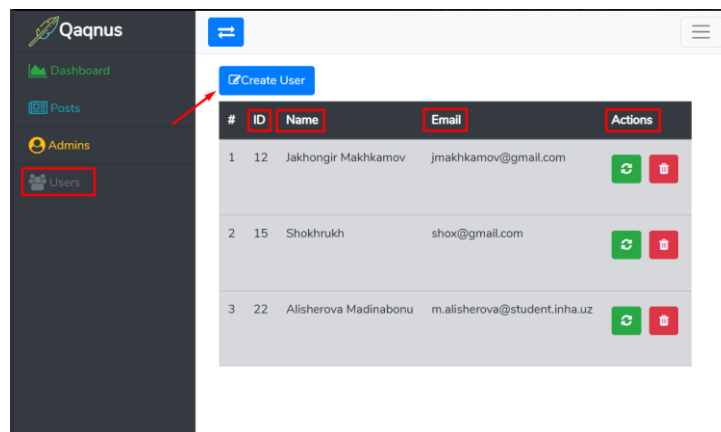


Figure 30. Users and other details

3) 2 Here, you can see the Create User button to create a new account by admin.

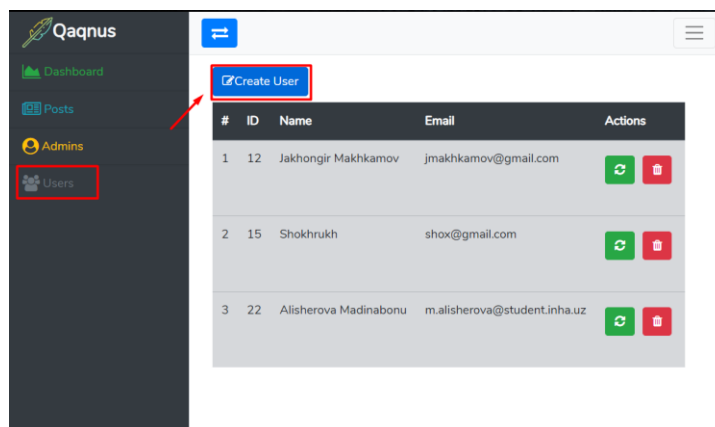


Figure 31. Creating a User account

3) 3 In this screenshot we can see that how new user is being created by admin.

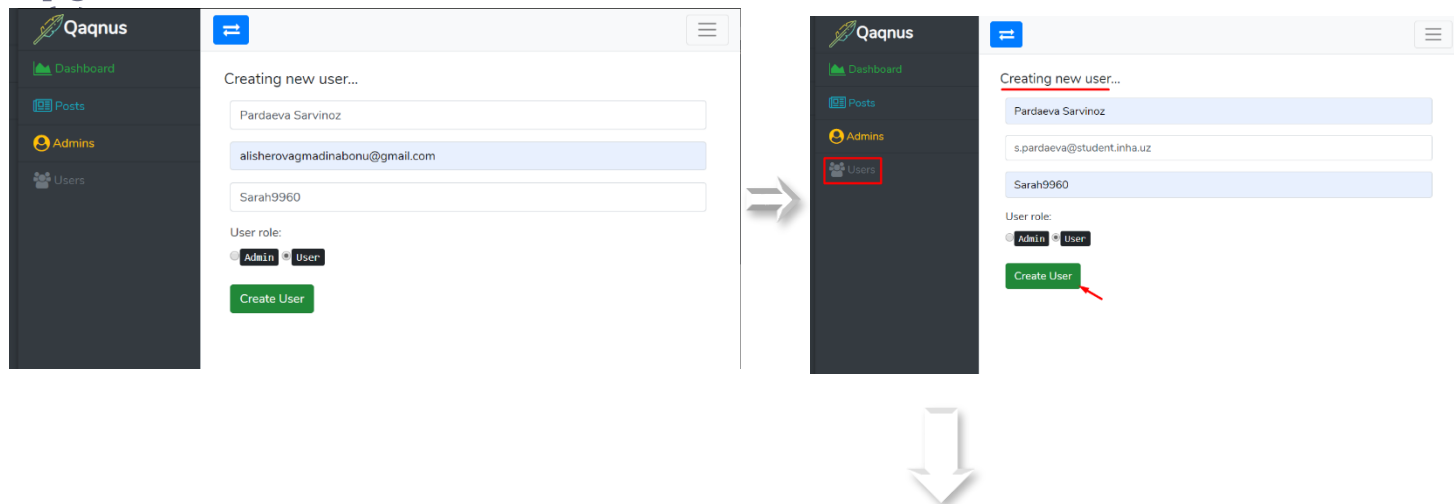
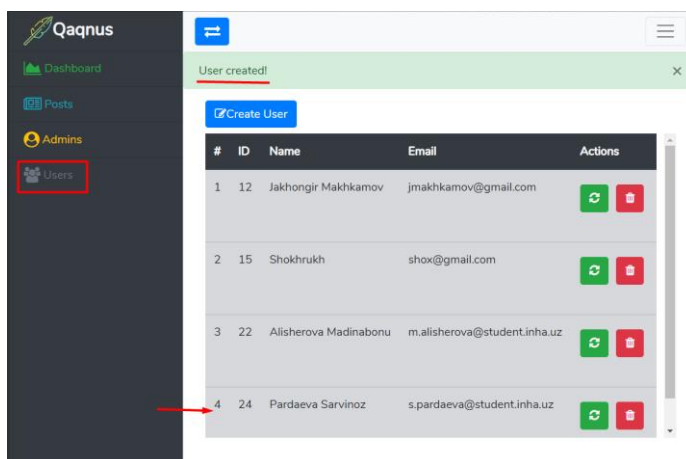


Figure 32. Creating a new User account



3) 4 Another button in Users is that User's information can be edited if some wrong data has been entered. If the user is inappropriate or do some bad or illegal actions towards others in a comment section, then this user will be deleted by admin. However, if the admin wants to make changes for the user, admin can make the user admin also, but after that, this admin cannot change any data of this new admin as shown below.

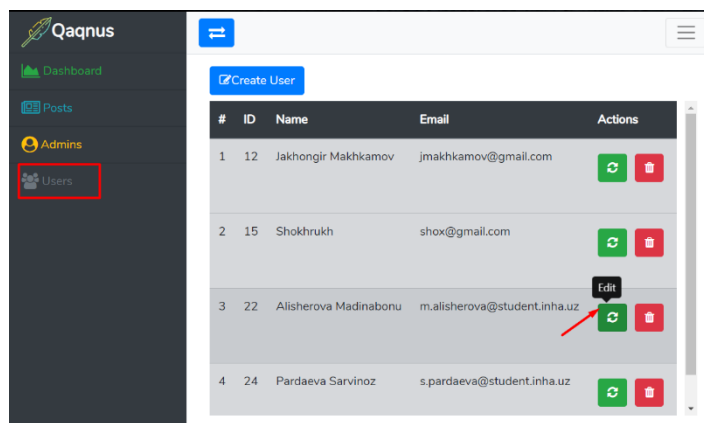


Figure 33. Users | Edit button

3) 4.1 In this image, after pressing the edit button, this below page comes out, and admin can change some wrong information or can change the user as an admin of this website. When this edit button pressed, new window which is updating new user comes out, as shown below. As you can see here, admin is changing the mail of the user which might be wrong or unavailable, if requested to be changed. Another updating is making and changing this user as a admin by giving some the same features as he or she has. Once the admin status is given to this user, then this enrolled admin cannot or is not allowed to change any date of this new admin. Which means this admin is giving a feature as the same as he/she has.

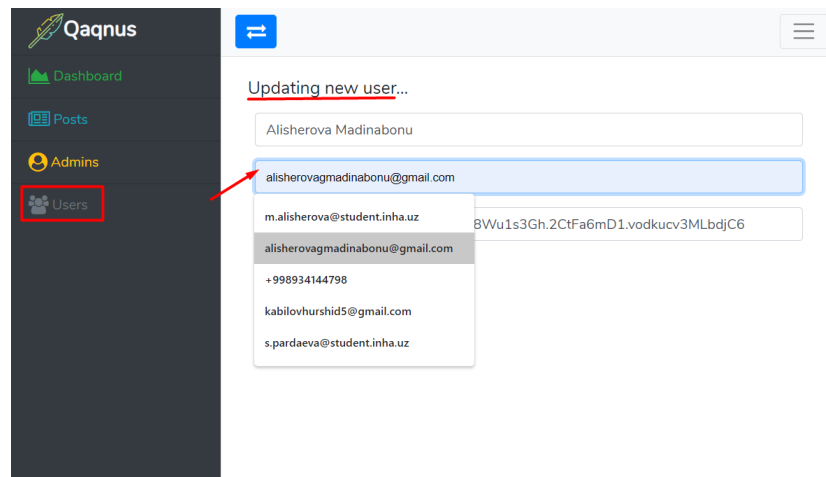


Figure 34. Users | Edit button | Updating new user

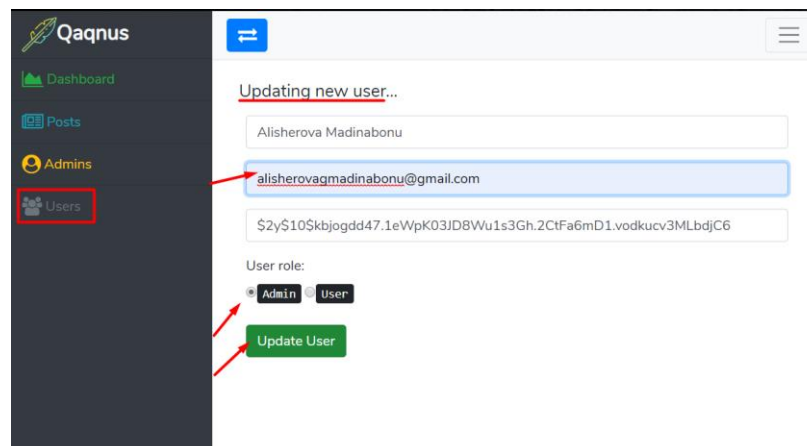


Figure 35. Users | Edit button | Updating a User

After updating process has finished, this new updated user will become a new admin, and directly will be deleted from the Users table. This new updated user will join to the Admins table as a new admin. Below, you can see the how this process has taken place, and how it was deleted from the database Users table and added to another Admin table.



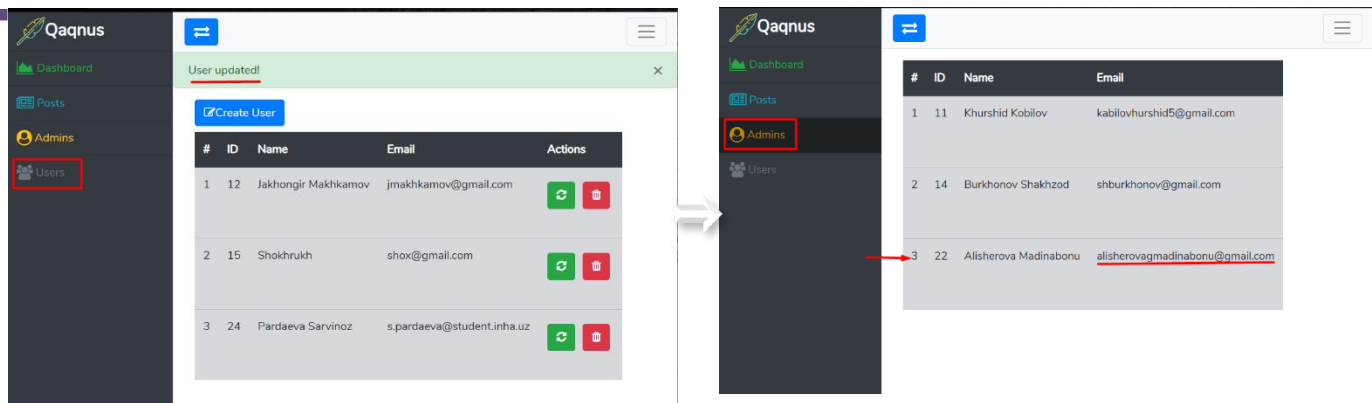


Figure 36. Users | Edit button | Updating process

3) 5 Here we can see the delete button, admin can delete any user if they do some bad actions towards others, or inappropriate cases are followed by them. Here, admin is deleting some user.

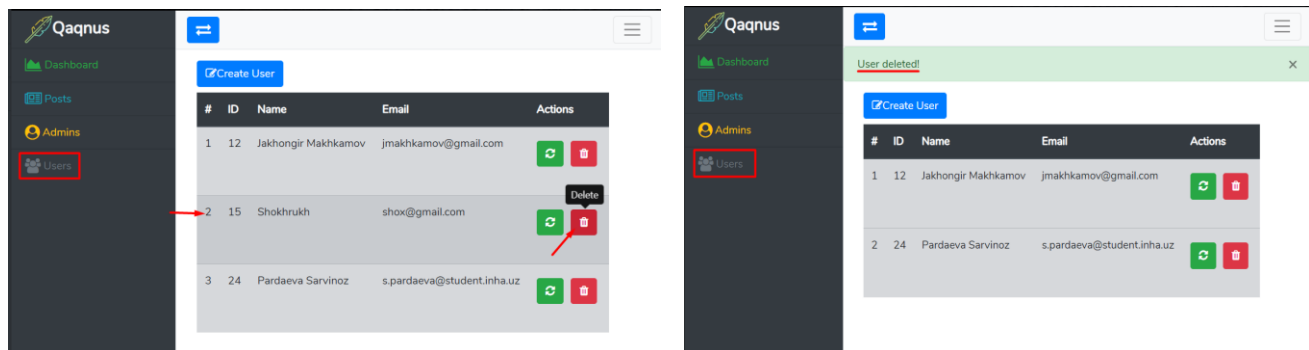


Figure 37. Users | Deleting process

4) This shown button's function is to close left window by making comfortable for the current user to show the whole page. When the user presses it, left bar window disappears.

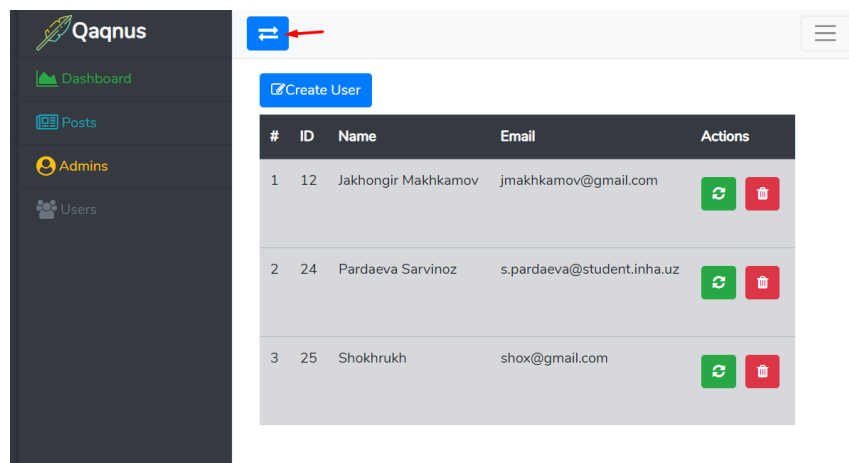


Figure 38. Closing window button

In this screenshot the result of above pressed button.

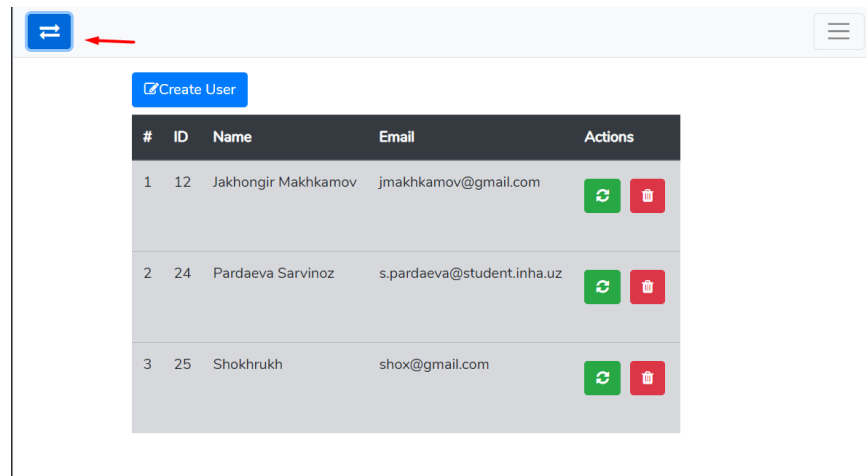


Figure 39. Closing window button

5)

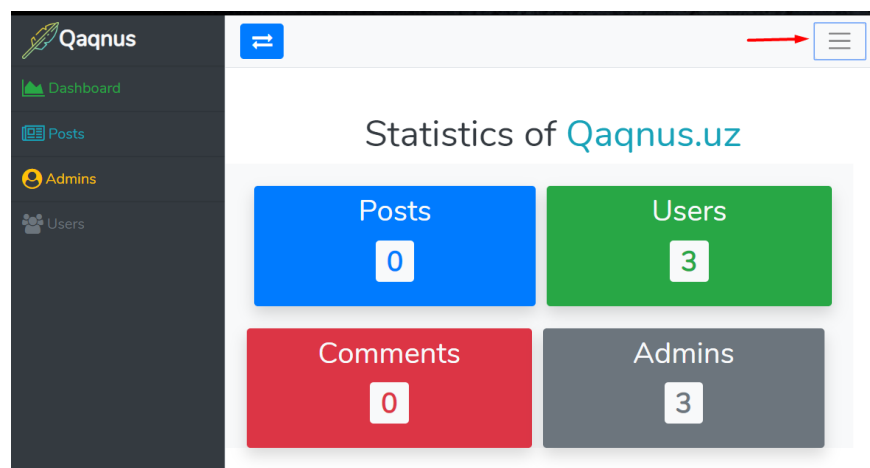


Figure 40. Guide button

5) 1 On the right top corner, after pressing you will have a search button and admin.

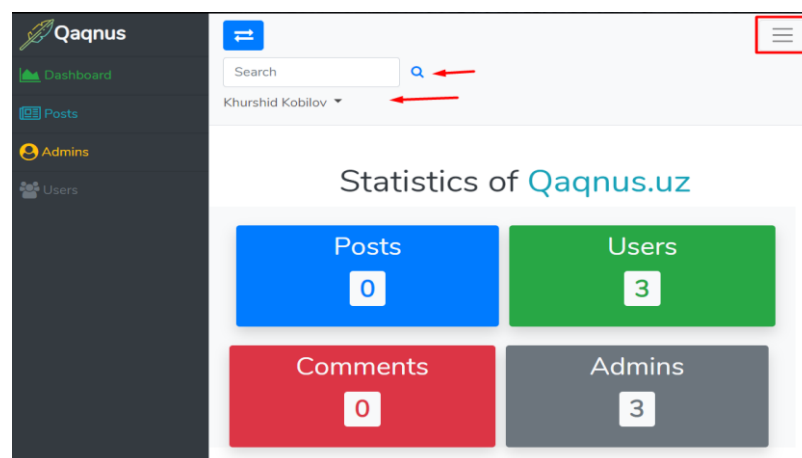


Figure 40. Search and Admin profile

5) 2 Admin can search both users and latest and old published news. The function of search button is that when admin starts searching anything by typing the letters, if these letters matches any word in the news or any word, it displays as shown below. Once the admin searches any information by typing first letter of what they are looking for, it matches with first letter of the word and if you keep typing other letters, it defines other part of the word, that is being searched, and matches it. if the first letter of this word that is being looked for matches with any letter of some word in the page, it defines the matching words containing this letter and displays those words to the user. This is the way how searching button works efficiently and finds them in the search button for the user easily. Below you can see the results of what we meant and besides, pagination also can be seen depending upon the number of searched results.

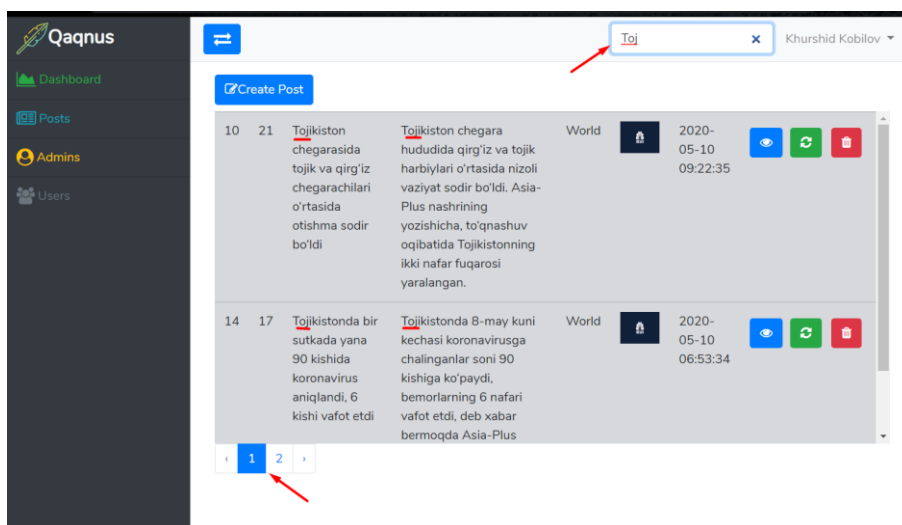


Figure 41. Search button and pagination

5) 3 Once the current user presses the name, it shows the status, profile of admin and log out button.

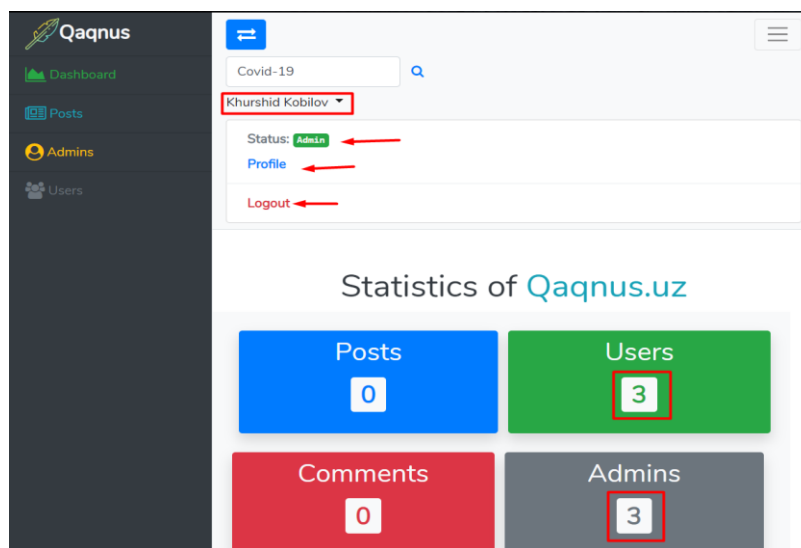


Figure 42. Admin profile

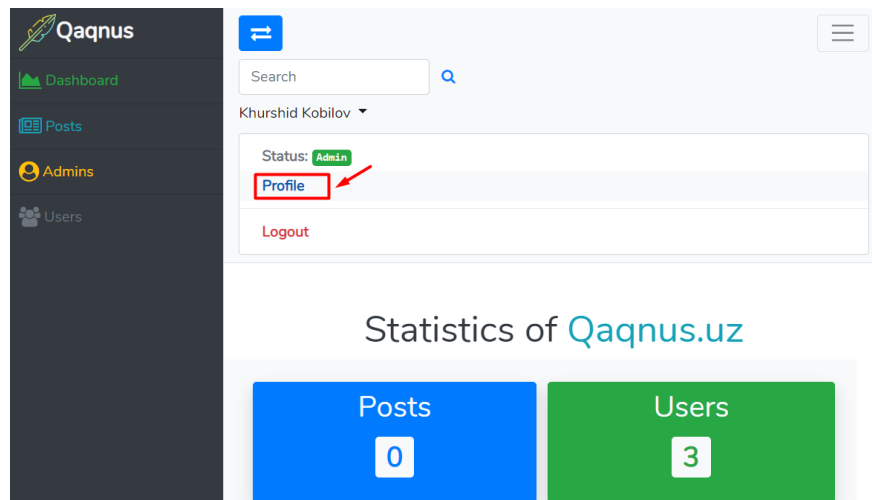


Figure 43. Profile button

If the admin wants to have some changes on his or her profile, then they are just required to press Profile button. This displays another page with the profile of admin showing his name and button Update Profile button.

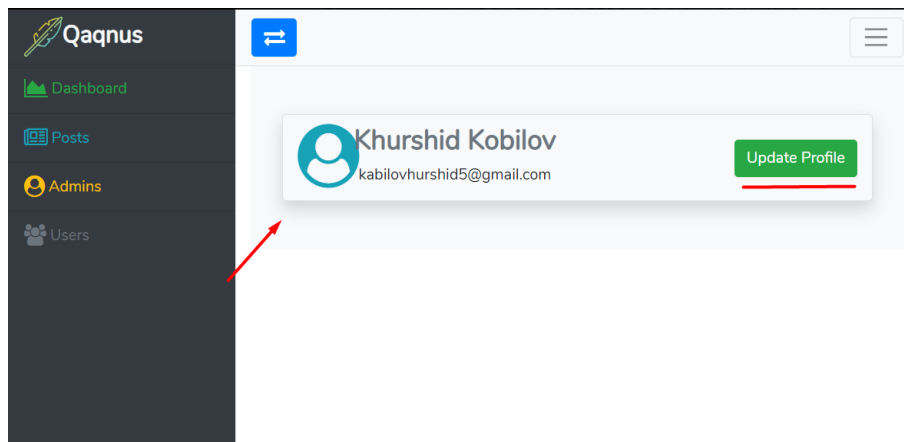


Figure 44. Update Profile

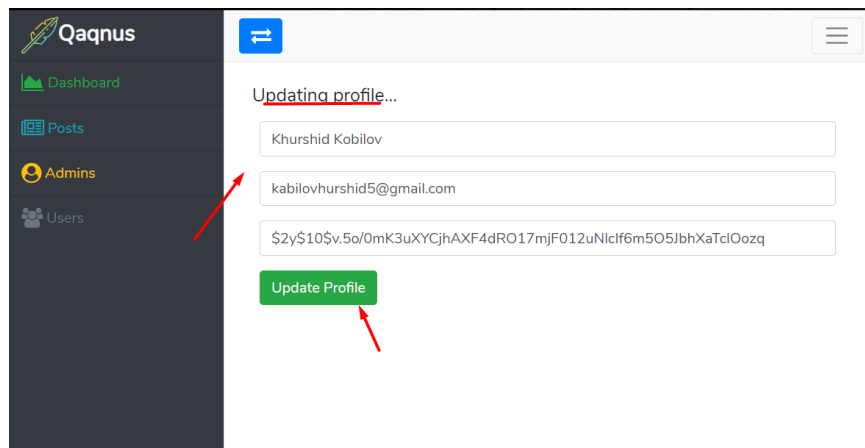


Figure 45. Updating Profile

In this above updating profile, you can update the name, email, and password of the admin. After profile, we have Logout button which can help the user to logout his or her account and to switch another one. Logout means signing out of the user, then this action is done with the help of this. As you can see below.

5) 4

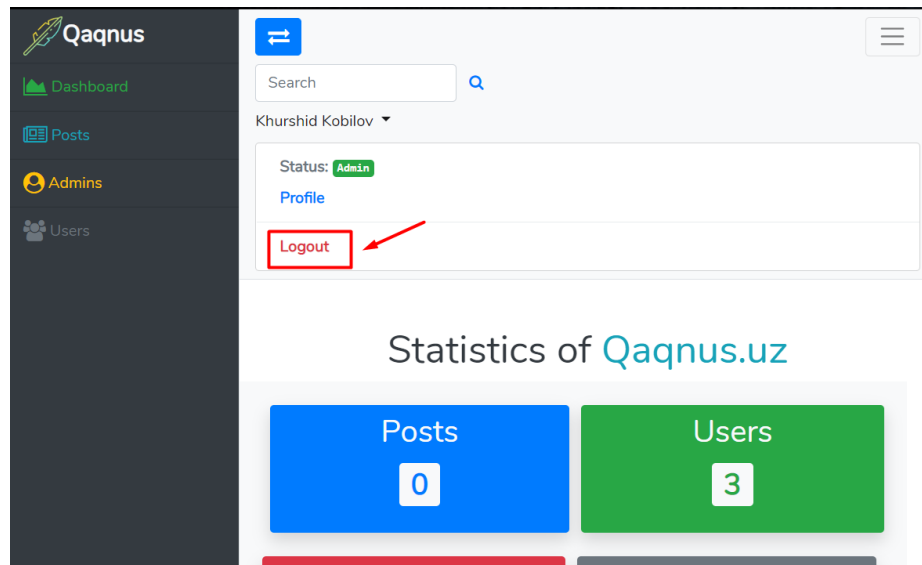


Figure 46. Logging Out of the user

- I. Here, we will see everything from the beginning, and show that new user will see news web page. As a common visitor, he or she will see such page when they access from the link to the news. When a new user tries to use buttons, they may press different buttons. “Qaqnus” button displays the main web page which news are visible for all as we have seen below. All news button displays 12 news on the main page, other will be on the next page with pagination.



Figure 47. Accessing as a new comer

Here we can see that all news on the first page, below, have pagination which contains other news on other pages. However, it may be little strange for the user which has the same image for all news, in fact this situation is happening due to connection problem between the FTP server driver and local driver, that's why all news images are the same and covered with default image. However, to upload an image in file choose button located in create post page, when we try to upload an image, images are stored in the files of our server and to show these images in our pages, we do not call the images from the database, instead, we call the url-links of images which they will be called directly to the page. User can see the whole information even related and uploaded images about news can be seen inside news webpage which holds its titles, categories, dates and descriptions. Here, if the user wants to see the news, user can click three things to pass news page,

- **Image** is clickable which takes the news page
- **Description** is clickable
- **Categories** such as **World** and **Local** are clickable

As shown below, here you can see the pagination also

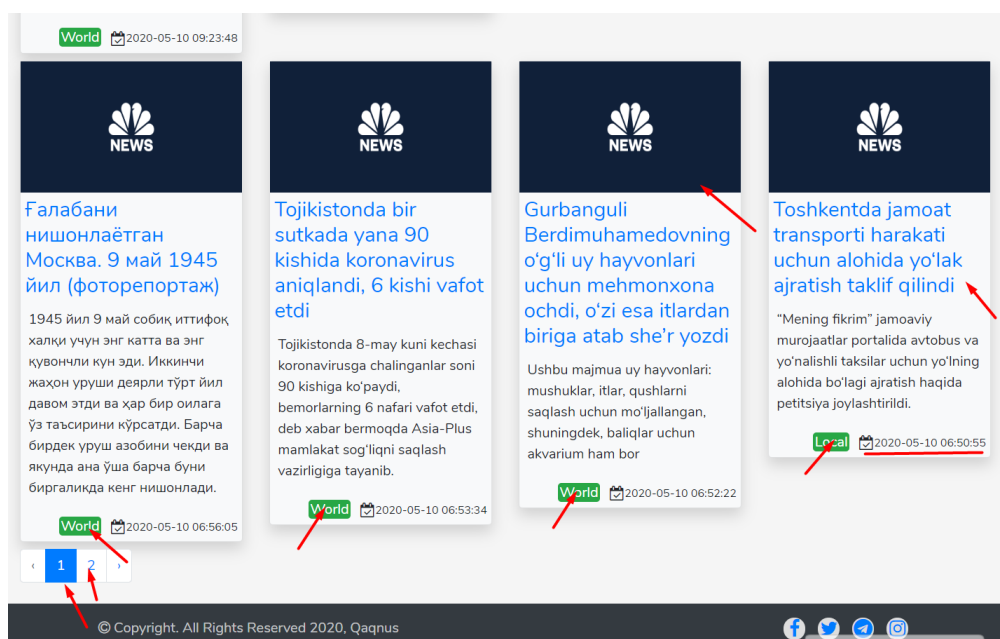
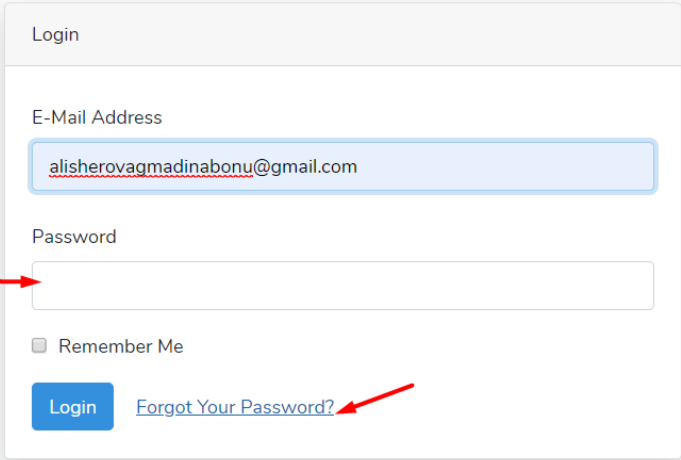


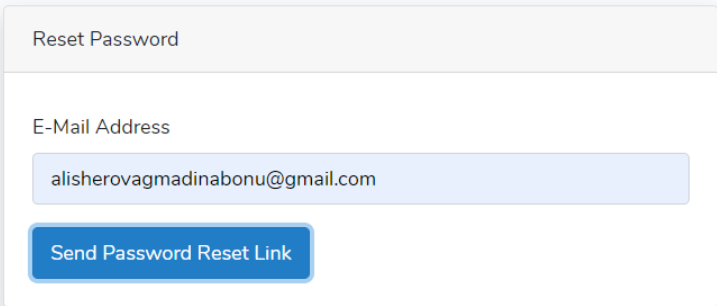
Figure 48. Clickable Image, Description, and Category (World or local)

Above we have already showed how to login, if the one has not an account yet how to do registration. What if the user has already an account, but cannot remember his or her password? We will do below actions. First, you are trying to sign in but, you cannot remember your password, there a clickable “Forgot Your Password” has been written, once you click it, it leads you another page which requests to enter you email and then, pressing the button “Send Password Reset Link”. This send you a link which is possible to recover your password, when you are a user only, not admin. Here you can see these processes. Therefore, any new comer or any user, can see the categories and published date time of news, as well as, can use other features of this page.



The image shows a login form titled "Login". It contains two input fields: "E-Mail Address" with the value "alisherovagmadinabonu@gmail.com" and "Password" which is empty. Below the password field is a checkbox labeled "Remember Me". At the bottom, there is a blue "Login" button and a blue link "Forgot Your Password?". A red arrow points to the "Forgot Your Password?" link.

Figure 49. Forgot Your Password?



The image shows a "Reset Password" form. It contains one input field: "E-Mail Address" with the value "alisherovagmadinabonu@gmail.com". Below the input field is a blue button labeled "Send Password Reset Link".

Figure 50. Send Password Reset Link

Then, this step was for the user who has already an account, but what if a viewer of the news is a new comer? At that time, on the right top corner of the new comer's or typical visitor's page, "Login" and "Register" buttons will appear. Even when they want to comment on the news, they cannot leave their comments. Here is the question, why do a user need any account? If the user wants to see the comments and leave a comment or share his or her own notions and opinions about this news, they are asked to have an account. Otherwise, they cannot leave a comment or type anything about news. If the user has an account, they can comment on news. Here you will see the difference between the one who has an account and who does not have with clear examples.

A new comer has the same page as shown below, with buttons namely "Login" and "Register". The reason is that they do not have any account yet. Besides, they will not have any access to leave a comment unless they have an account by registering or doing login.

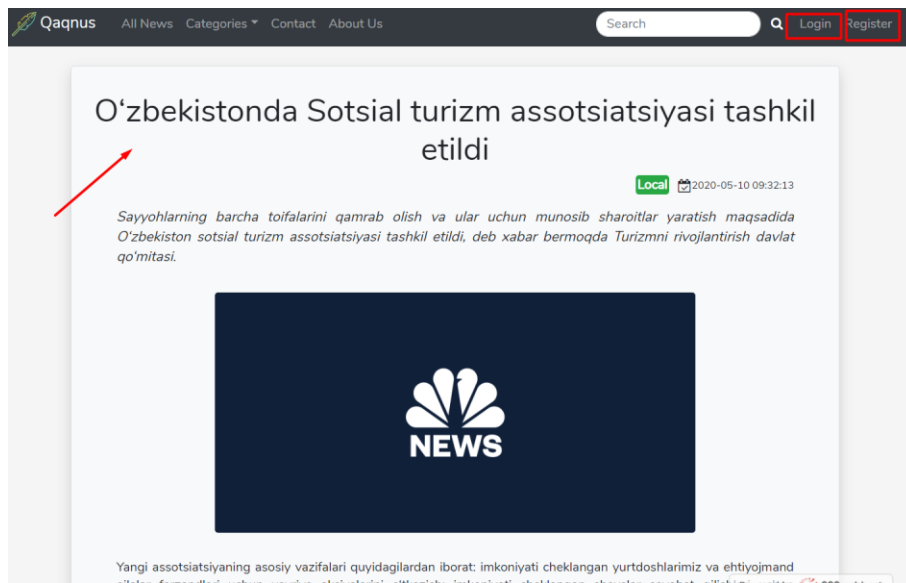


Figure 51. A new comer viewing a page

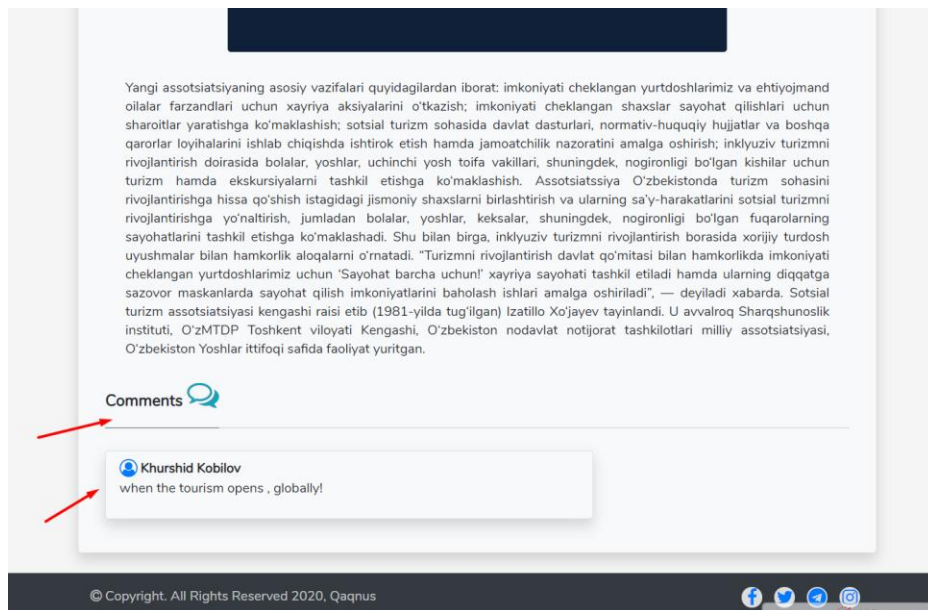


Figure 52. Not being able to comment, due to not having an account

If the user has an account already, on the right top corner of the page, which they are using, will have their account name. Thus, they can leave a comment on the news or express their own opinions or feelings about it. If the user shares or types inappropriate messages or some other bad actions, this user's account will be removed from the database. As a result, they will not have any action type writing on comment section. We will see the one who has already an account, below.





Figure 53. User who has already an account

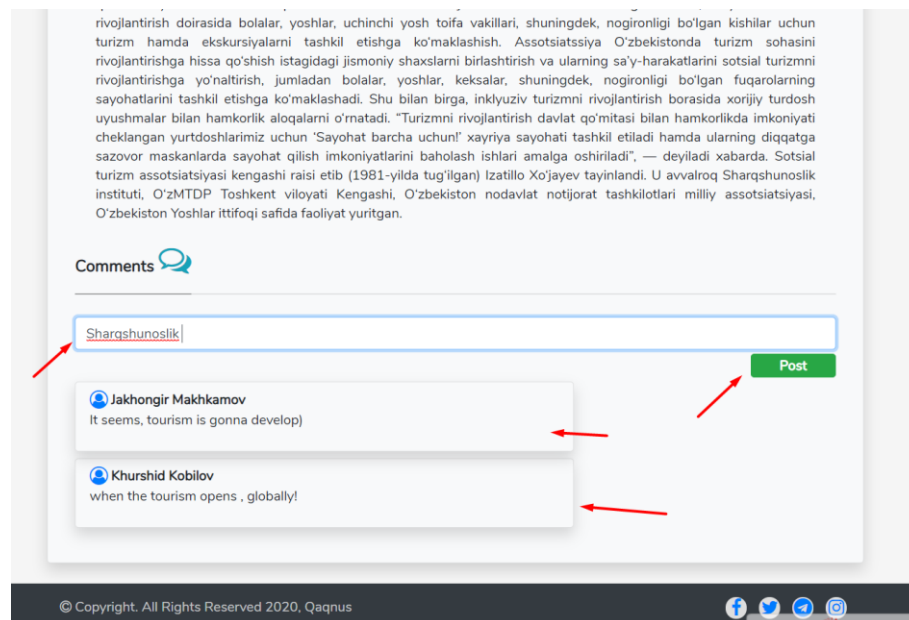


Figure 54. User who has an account can leave a comment

If any user tries to access the local or world news buttons which are marked with green, they will pass to the all local news page and all world news page depending upon the viewer's choice. If the news viewer clicks the local button it leads the user to the page which all local news is uploaded. On the other hand, if this user wants to see world news which is happening globally, by clicking it, user can see all world news. Here you can see the procedure of the steps, which users can choose. Besides, if the number of news is more than 12, other news will be seen on other pages which can be seen by clicking of the pagination buttons.

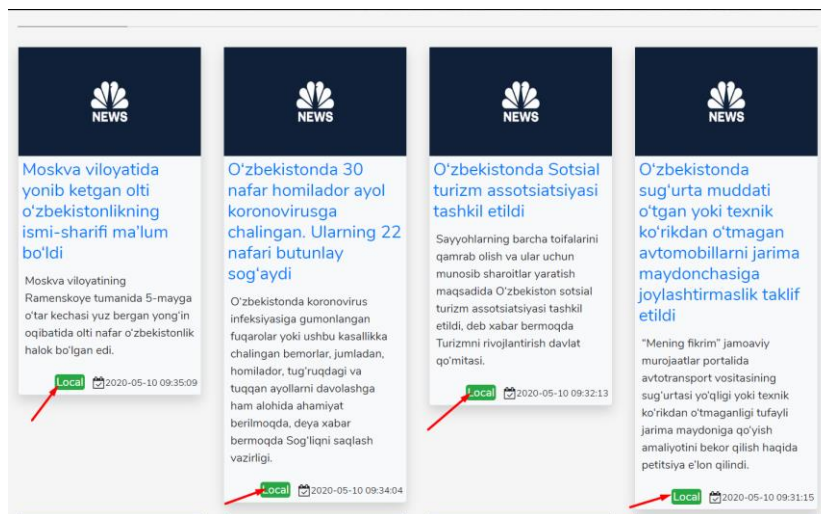


Figure 55. Local news links

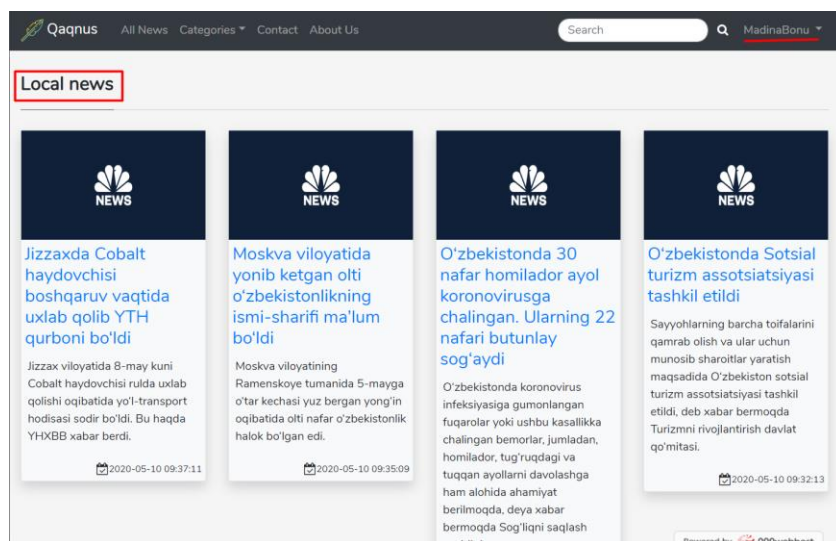


Figure 56. All Local news on the local news page



Figure 57. World news link

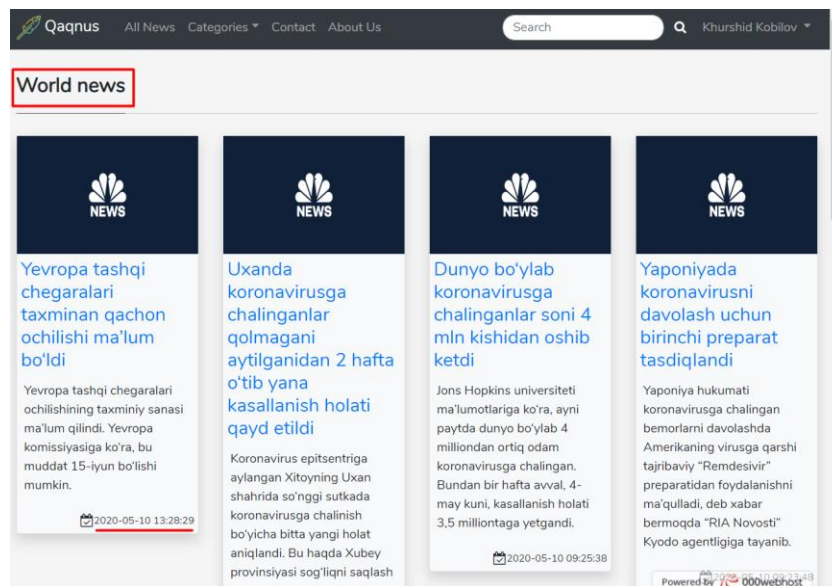


Figure 58. World news page with all global news

## Summary

In this group project, we all of us gave our effort by being together, and worked by cooperating. Everyone in this team, tried to do something and contribute to this project by what they know and what they have learned in this Internet Programming course. We have learned many things from this course and how to implement them in a real life. For instance, Jakhongir Makhkamov designed “About Us” page and helped to design layout for website also for admin panel using Bootstrap and JQuery. Sarvinoz Pardaeva did “Contact page” for the making convenience for the users if they have a request or some inquiries and some parts of the report. Burkhonov Shakhzod designed dashboard, and worked on Backend side with Laravel in routing and building controllers. Madinabonu Alisherova created a Categories page by helping the viewers to see the news depending upon their taste and did some database at backend, as well as did some parts of the report. Gofurov Shokhrux is also frontend developer, so he also worked on design of our website, then created “All news” and “Users” page for admin panel. Kobilov Khurshidbek created main layout of public views and admin panel, also worked on building and designing Database in MySQL, plus builded authentication of Qaqnus.uz for admin and users in Laravel, finally added search system for admin panel.

## Acknowledgement

We six students of CSE of 2nd year in INHA University in Tashkent prepared a project from Internet Programming, namely “Qaqnus.uz” news web site. We all of us express our sincere gratitude to the ones who helped us by giving their own ideas, suggestions and feedbacks on our project ideas from the core of our hearts. We would like to acknowledge and appreciate all people who helped and give feedback support to identify the problems of our project, explained and gave some ideas on our project. In additions to this, we would like to express thanks and gratitude to professor, Sarvar Abdullaev who encouraged us to do this project and gave his help to realize what we are capable of .

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## Appendix

- **HTML** – is a standard mark-up language for documents, files, images, and others designed to be displayed in a web browser as known as Hypertext Markup Language (HTML).
- **CSS** – is a type of style sheet language done to represent written documents in a mark-up language such as HTML, known as Cascading Style Sheets (CSS).
- **Bootstrap** – most popular HTML, CSS, and JS front-end library for responsive, mobile-first projects.
- **JavaScript** – is a lightweight, interpreted, just-in-time compiled language used in programming with first-class functions.
- **JQuery** – is JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animations and Ajax. The Write Less, Do More JavaScript library.
- **Webpack** – is an open-source JavaScript module bundler. Its main purpose is to bundle JavaScript files for usage in a browser.
- **PHP** – is one of the famous general-purpose scripting language done for web development.
- **Laravel** – is a free, open-source PHP framework with expressive, elegant syntax. It follows MVC architectural pattern and based on Symfony.
- **MySQL** – is a relational database management system (RDBMS) which is an open source for all
- **FTP server** – is a program that serves files using FTP protocol and is built on a client-server side using separate control and data connections between the client and the server.
- **GitHub** – is a global company done in USA that supplies hosting for software development using Git.