



**TOSHKENT SHAHRIDAGI INHA UNIVERSITETI**  
**INHA UNIVERSITY IN TASHKENT**

# Eightsoft

*We bring benefits of AI to everyone*

**INTERNET PROGRAMMING – SOC2110**

## **Team members:**

Rustam Zokirov	U1910049	sec.002
Abdullokh Alimov	U1910060	sec.002
Vladimir Khvan	U1910046	sec.001
Irina Em	U1910128	sec.003
Javokhir Isroilov	U1910050	sec.002
Azamat Tokhirov	U1910070	sec.002

**Link to our Github repo:** <https://github.com/iuthub/group-project-eightsoft>

**Link to our web site:** <http://eightsoft-ai.herokuapp.com/>

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## Brief description of the company

We bring benefits of AI to everyone.

We provide a platform for thousands of people to exchange ideas and to expand our understanding of data science. While we allow authors to publish articles, we do endorse each author's contribution.

We provide a place for thousands of individuals to exchange ideas and learn more about today's computer science.

There are 2 main roles

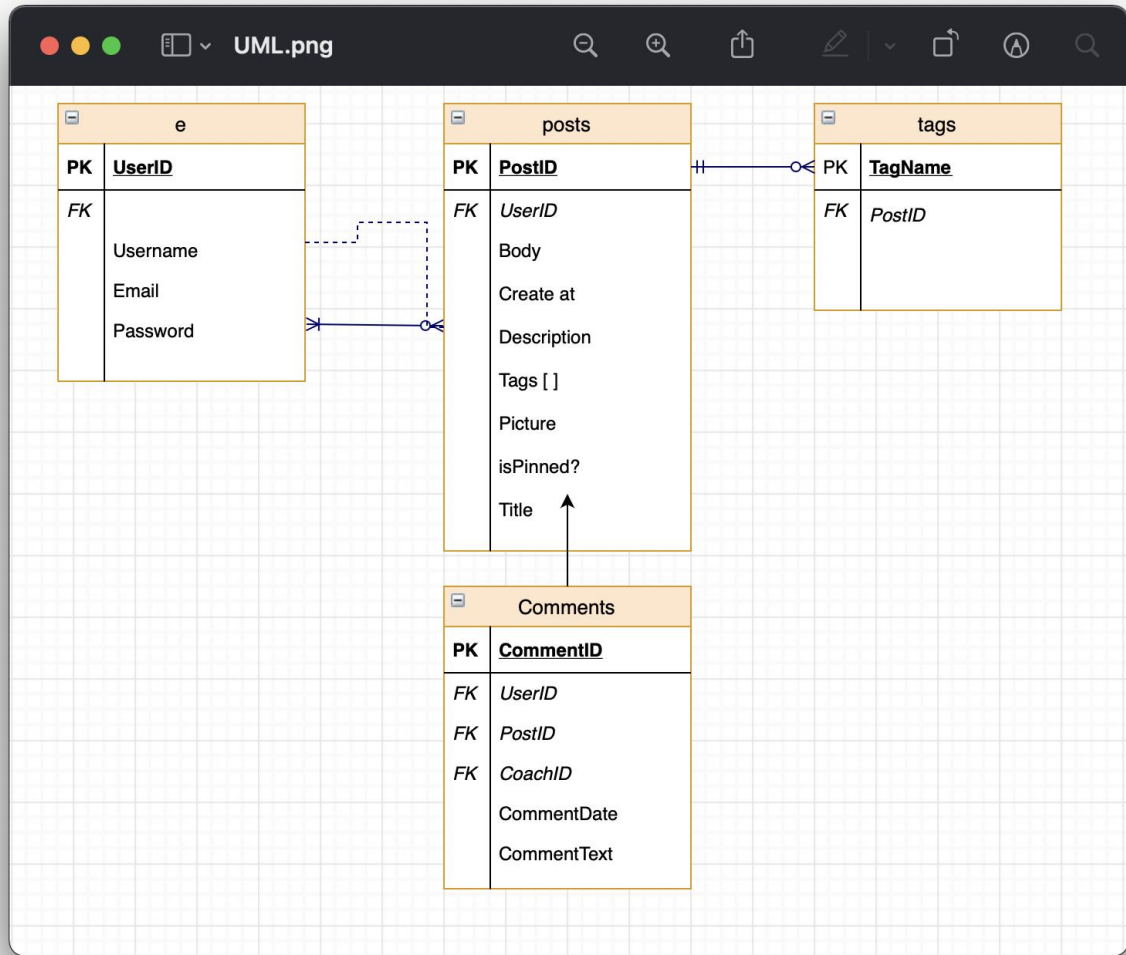
User – no need to do any registrations. Just enjoy the articles!

Author – to become an author it is necessary to login. Author create posts and take feedback.

## Project business logic

- Anyone can log in / register
- Users can comment on the posts
- Authors can write / update / delete their own posts
- Anyone can read these posts
- Authors have dashboard system
- Admin can approve message pin request on the home page
- TODO: Authors can use tagging on their posts
- TODO: Users can use search system (by author, by topic tag, by date)

## UML diagram



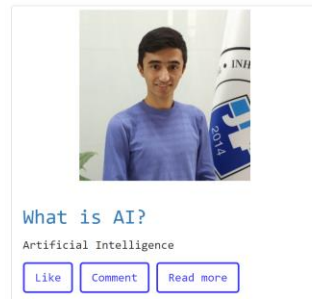
# Description of the web-site categories

## Index page

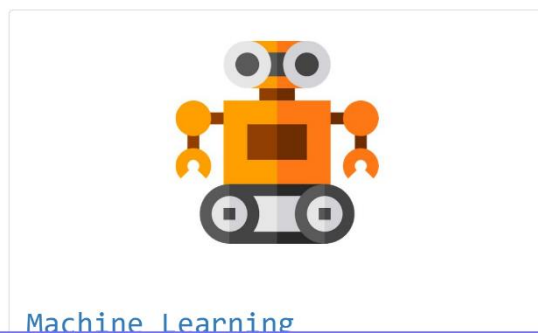
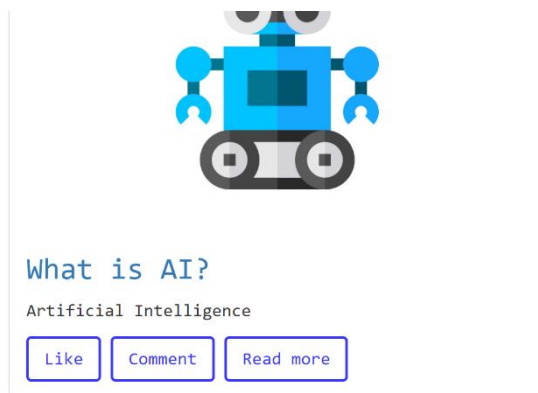


If you open our site for the first time you will see the home page, where you can find description of our company. (Information about us and motto)

Here is also mobile view. Image disappears when width is less than 1200px. We implemented it via media requests.



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There you pinned messages are visible. While creating user can tick the box with pinned message option. If the user does it, post will be shown there. (It can be monetized so that it is a way to make money for any expenses)

BLOG

## Read our blog

We provide a platform for thousands of people to exchange ideas and to expand our understanding of data science. While we allow authors to publish articles, we do not endorse each author's contribution.

[Learn more](#)

DASHBOARD

## Discover

We provide a platform for thousands of people to exchange ideas and to expand our understanding of data science. While we allow authors to publish articles, we do not endorse each author's contribution.

[Learn more](#)

CONTACTS

## Contact us

We provide a platform for thousands of people to exchange ideas and to expand our understanding of data science. While we allow authors to publish articles, we do not endorse each author's contribution.

[Learn more](#)

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BLOG

## Read our blog

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[Learn more](#)

Finally, in the end of home page, some information about our categories is visible

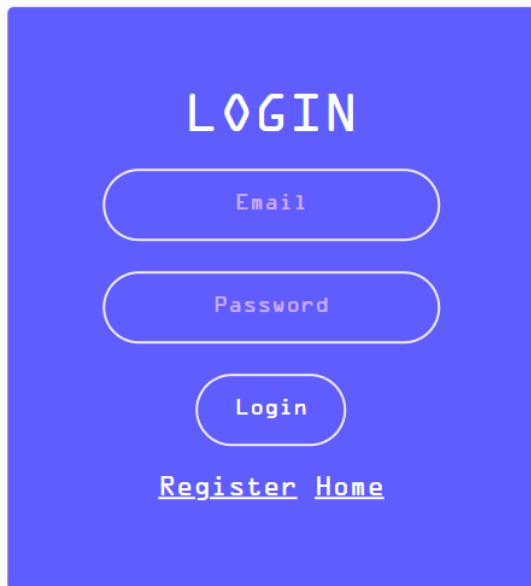
DASHBOARD

## Discover

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## Login/Register page



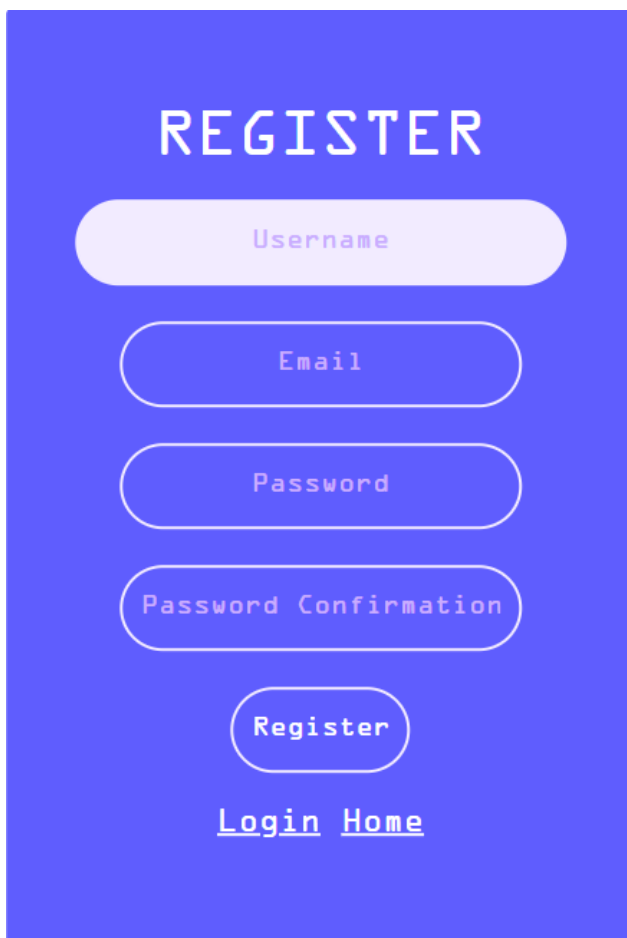
A login form with a blue background. At the top, the word "LOGIN" is written in white, bold, uppercase letters. Below it are two rounded rectangular input fields: the first is labeled "Email" and the second is labeled "Password". Below these fields is a rounded rectangular button labeled "Login". At the bottom, there are two links: "Register" and "Home", both underlined.

If you login to the website you automatically become an author.

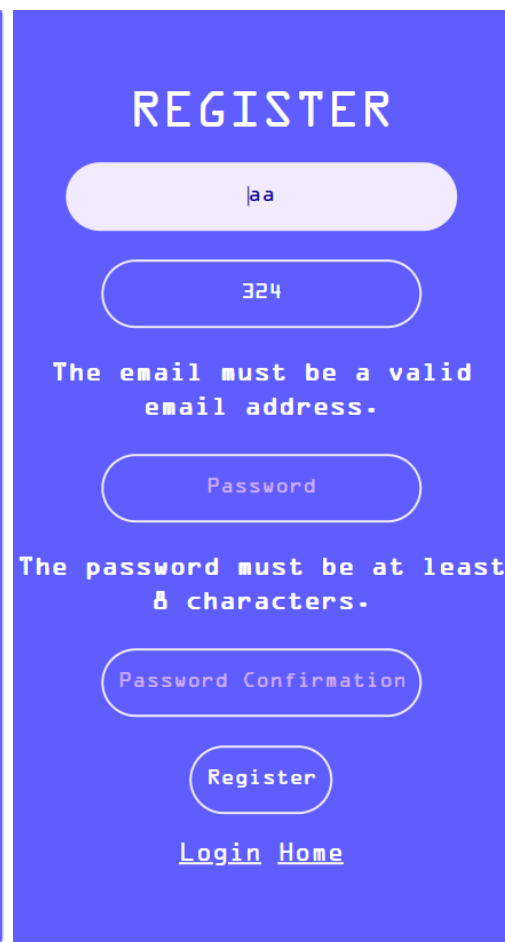
If you do not have account, you can register.

This option is not mandatory if user just wants to read the articles.

We also have built-in validation.



A register form with a blue background. At the top, the word "REGISTER" is written in white, bold, uppercase letters. Below it are four rounded rectangular input fields: "Username", "Email", "Password", and "Password Confirmation". Below these fields is a rounded rectangular button labeled "Register". At the bottom, there are two links: "Login" and "Home", both underlined.



A register form with a blue background, showing validation messages. At the top, the word "REGISTER" is written in white, bold, uppercase letters. Below it are four rounded rectangular input fields: "Username" (containing "aa"), "Email" (containing "324"), "Password", and "Password Confirmation". Below the "Email" field is a red error message: "The email must be a valid email address.". Below the "Password" field is a red error message: "The password must be at least 8 characters.". Below these fields is a rounded rectangular button labeled "Register". At the bottom, there are two links: "Login" and "Home", both underlined.

While filling registration form you should meet above-mentioned requirements.

## Dashboard

The screenshot shows the top part of the dashboard. It has a dark blue header with the text "Eightsoft AI" and "Sharing concepts, ideas and codes". Below this is a navigation bar with links: Home, Blog, Dashboard, vladimir, and Contacts. Under the navigation bar is a white button labeled "Create new post". Below that is a dark blue bar labeled "Your posts". Underneath is a table with one row. The table has a header "Title" and a body row with the text "Earth transformation using AI". To the right of this row are two buttons: "Edit" and "Delete".

Title
Earth transformation using AI

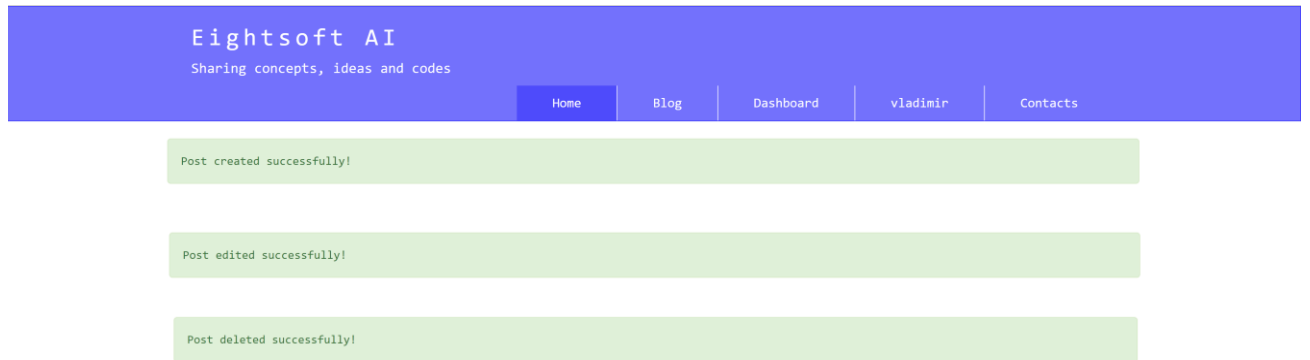
The screenshot shows the full dashboard layout. It has a dark blue header with the text "Eightsoft AI" and "Sharing concepts, ideas and codes". Below this is a navigation bar with links: Home, Blog, Dashboard, vladimir, and Contacts. Under the navigation bar is a white button labeled "Create new post". Below that is a dark blue bar labeled "Your posts". Underneath is a table with one row. The table has a header "Title" and a body row with the text "Earth transformation using AI". To the right of this row are two buttons: "Edit" and "Delete".

Title
Earth transformation using AI

After registration you became an author and you will be able to create your own posts. In dashboard user can create, edit, and delete post. Deleting post with image results into full deletion of post with image in database Authors can obviously modify and delete only his/her posts.

It was implemented via bootstrap tables.

Here are also some screenshots of pop up announcements that we have



## Create post page

### Create post

Machine Learning  
Deep Learning  
Data Science  
Python  
MLOps

Twitter social icon The quest for a useful definition Behold my pithiest attempt: "Data science is the discipline of making data useful." Feel free to flee now or stick around of a tour of its three subfields. The term no one really defined If you poke around in the early history of the term data science, you see two themes coming together. Allow me to paraphrase for your amusement: Big(ger) data means more tinkering with computers. can't code their way out of a paper bag. And thus, data science is born. The way I first heard the job defined is "A data scientist is a statistician who can code," I'll be full of opinions on that , but first, why don't we examine data science itself?

Upload file

☐ Is it pinned?

Submit

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### Create post

Open this select menu  
Machine Learning  
Deep Learning  
Data Science

Body

Upload file

Inha University Internet Programming 2021 Project


Working with post creation page, user have several fields to fill. They are title, short description, category, and body of the post. Another thing that should be mentioned is pinned post. As it was mentioned before, there user can check whether his or her post will be pinned or not.

## Blog page

Eightsoft AI

Sharing concepts, ideas and codes

[Home](#)[Blog](#)[Dashboard](#)[Login](#)[Register](#)[Contacts](#)




### What is AI?

Artificial Intelligence

[Computer vision](#)[Info](#)[Object detection](#)

Machine Learning

About ML and DL



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Eightsoft AI

Sharing concepts, ideas and codes





## What is AI?

Artificial Intelligence

[Computer vision](#)[Info](#)[Object detection](#)



## Machine Learning

About ML and DL



## What is AI?

Artificial Intelligence

[Computer vision](#)[Info](#)[Object detection](#)



## Machine Learning

About ML and DL

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After submitting the post, we can see our post in blog. There is also a search function that allows us to search an exact post using such filter as author, topic, date, and title.

## Article

### Machine Learning

About ML and DL



Date: 2021 Likes: 8 Author: 4

### Article body

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Program fetches the all information and places it as it can be seen in the screenshot.

### Article body

Machine learning (ML) is the study of computer algorithms that improve automatically through experience and by the use of data.[1] It is seen as a part of artificial intelligence. Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so.[2] Machine learning algorithms are used in a wide variety of applications, such as in medicine, email filtering, and computer vision, where it is difficult or unfeasible to develop conventional algorithms to perform the needed tasks.[3] A subset of machine learning is closely related to computational statistics, which focuses on making predictions using computers; but not all machine learning is statistical learning. The study of mathematical optimization delivers methods, theory and application domains to the field of machine learning. Data mining is a related field of study, focusing on exploratory data analysis through unsupervised learning.[5][6] In its application across business problems, machine learning is also referred to as predictive analytics.

### Comments

Your name

Body

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## Comments

Your name

Body

Submit

Andrew NG

Good job guys! Keep learning AI!

Abdullokh

Hello Rustam :)

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## Eightsoft AI

Sharing concepts, ideas and codes



[Go back](#)

## Machine Learning

About ML and DL



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Date: 2021 Likes: 8 Author: 4

## Article body

Machine learning (ML) is the study of computer algorithms that improve automatically through experience and by the use of data.[1] It is seen as a part of artificial intelligence. Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so.[2] Machine learning algorithms are used in a wide variety of applications, such as in medicine, email filtering, and computer vision, where it is difficult or unfeasible to develop conventional algorithms to perform the needed tasks.[3] A

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## Comments

---

Submit

Submit

---

Andrew NG

Good job guys! Keep learning AI!

Abdullokh

Hello Rustam :)

Under every post there is a comment field, where any user can leave a comment by providing name and the comment. All comments are also saved into the database and attached to posts.



## Contact us

### Contact

Your response

Submit

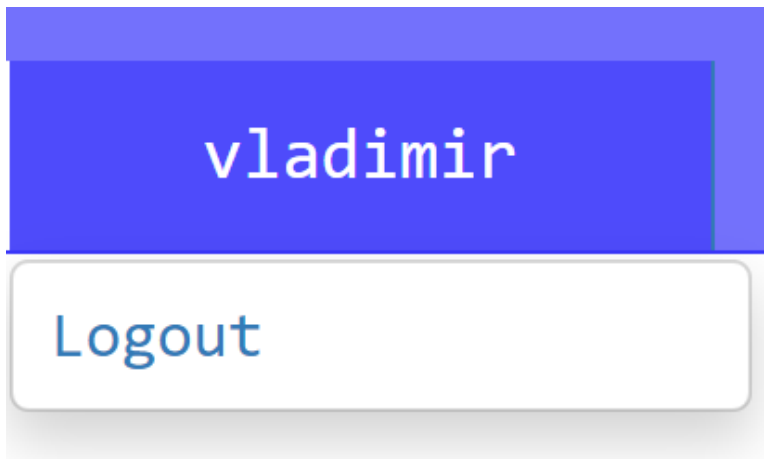
### Contact

Your response

Submit

If user wants to contact the authors or ask a question, he/she can fill contact field. The information in this field should be sent to the e-mail (which can be added. We did not input the real e-mail there.)

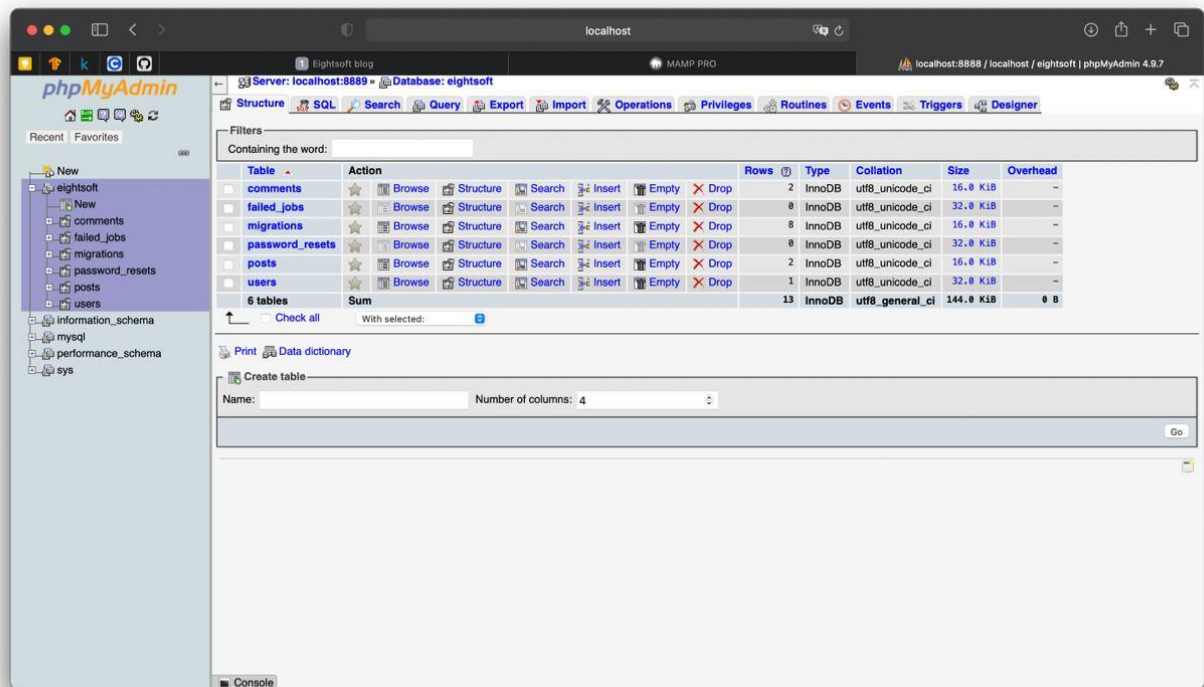
## Logout



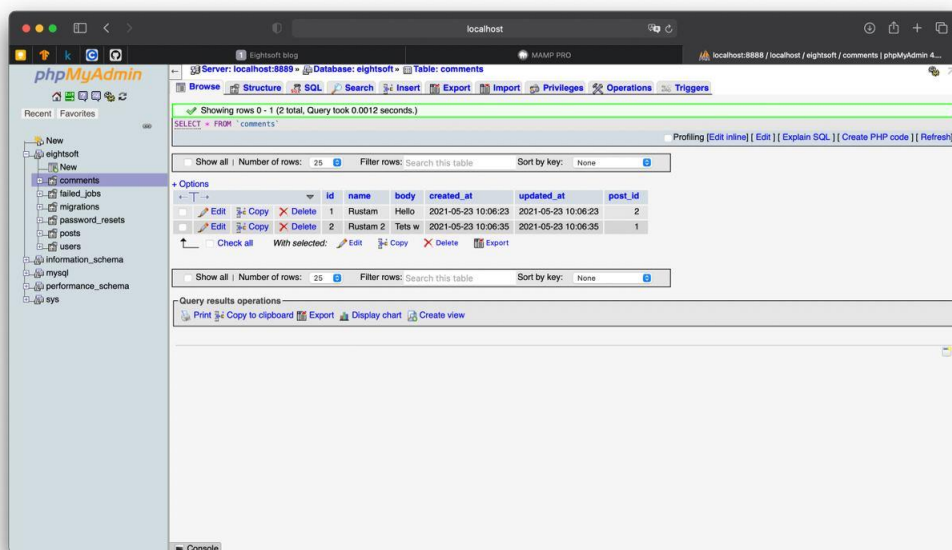
The author can logout from the system. This logout option will redirect user to login page.

# Database

## All tables

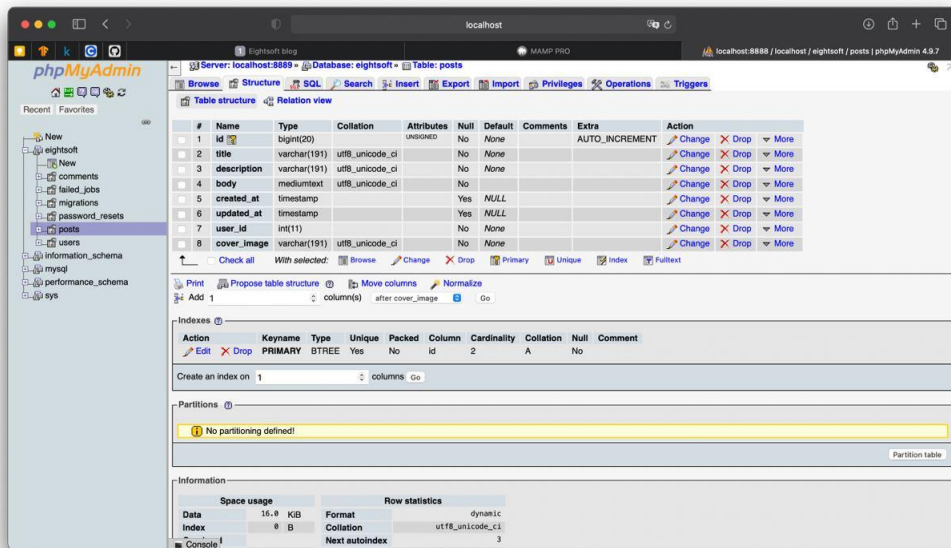


## Comments



There we have username, body of the message, post creation and uploading time, and also unique id.

## Posts



The screenshot shows the phpMyAdmin interface for the 'posts' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change X Drop More
2	title	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More
3	description	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More
4	body	mediumtext	utf8_unicode_ci		No	None			Change X Drop More
5	created_at	timestamp			Yes	NULL			Change X Drop More
6	updated_at	timestamp			Yes	NULL			Change X Drop More
7	user_id	int(11)			No	None			Change X Drop More
8	cover_image	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit X Drop	PRIMARY	BTREE	Yes	No	id	2	A	No	

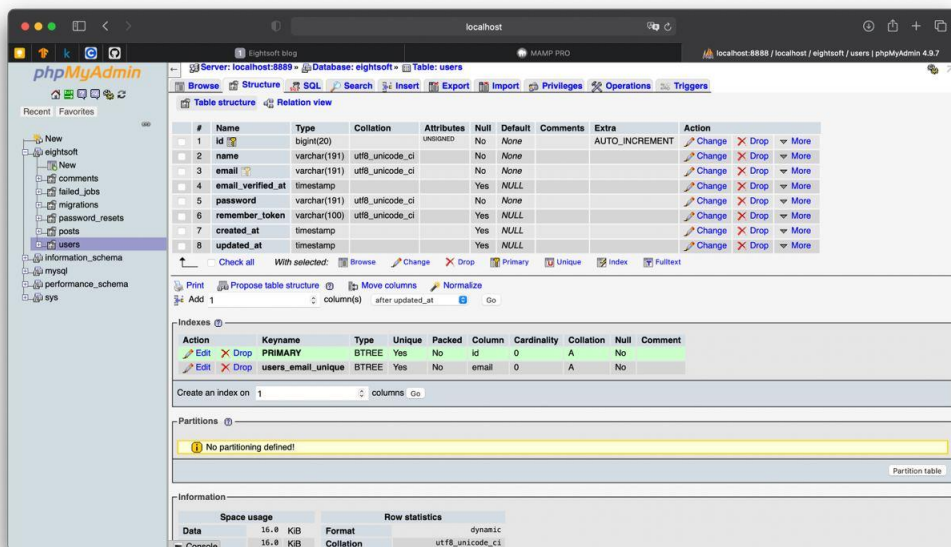
Partitions: No partitioning defined!

Information:

Space usage		Row statistics	
Data	16.9 KB	Format	dynamic
Index	8 B	Collation	utf8_unicode_ci
		Next autoindex	3

There we have short description, body of the post, post creation and uploading time, unique id of post, user id that added this post, and image of the post.

## Users



The screenshot shows the phpMyAdmin interface for the 'users' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change X Drop More
2	name	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More
3	email	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More
4	email_verified_at	timestamp			Yes	NULL			Change X Drop More
5	password	varchar(191)	utf8_unicode_ci		No	None			Change X Drop More
6	remember_token	varchar(100)	utf8_unicode_ci		Yes	NULL			Change X Drop More
7	created_at	timestamp			Yes	NULL			Change X Drop More
8	updated_at	timestamp			Yes	NULL			Change X Drop More

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit X Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	
Edit X Drop	users_email_unique	BTREE	Yes	No	email	0	A	No	

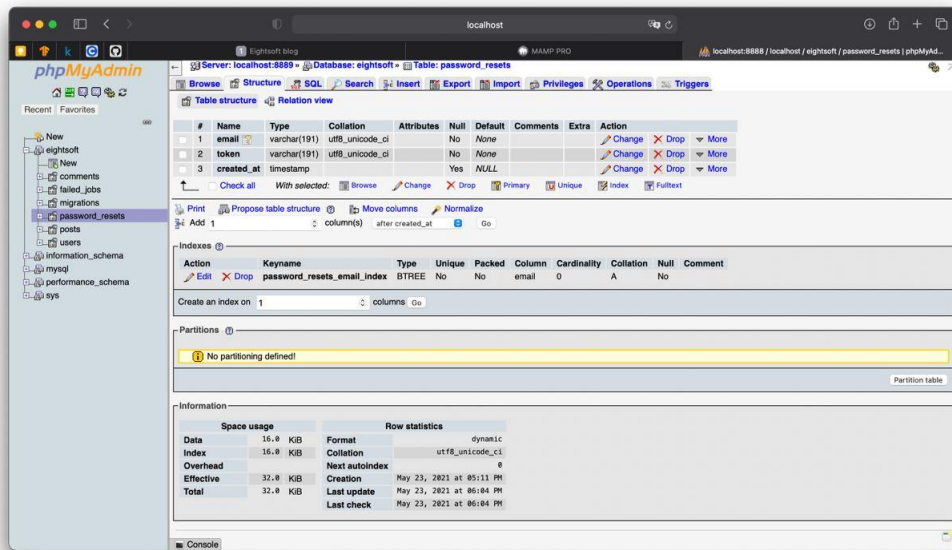
Partitions: No partitioning defined!

Information:

Space usage		Row statistics	
Data	16.9 KB	Format	dynamic
Index	16.9 KB	Collation	utf8_unicode_ci

There we have id of user, username, e-mail address, creation and upload time.

# Password reset



## Members' contribution

### Rustam Zokirov – U1910049

Back-end developer

Created the first draft of the website using Laravel and PHP. Have done authorization part and updated the back-end functionality. Also was connecting back-end and front-end parts

### Abdullokh Alimov - U1910060

Back-end developer

Fixed errors in the draft version and added functional tools such as editing and deleting posts. Actively participated in creation of back-end functionality. Connected front-end and back-end completely.

### Vladimir Khvan - U1910046

Front-end and back-end developer

Fixed errors in the draft, worked with the database to save images of the post. Updated the design of the website to the final version.

### Irina Em - U1910128

Web-designer, report writer

Fixed errors with deleting option and visibility of images. Worked on design of website. Worked with front-end. Have done a report part.

### Javokhir Isroilov - U1910050

Front-end developer.

Created the first draft of the design and added the front-end functionality. Worked on the concept of front-end part. Designing support.

### Azamat Tokhirov - U1910070

Front-end developer.

Fixed errors in front-end and have done front-end part. Worked on the concept of front-end part. Further front-end work.