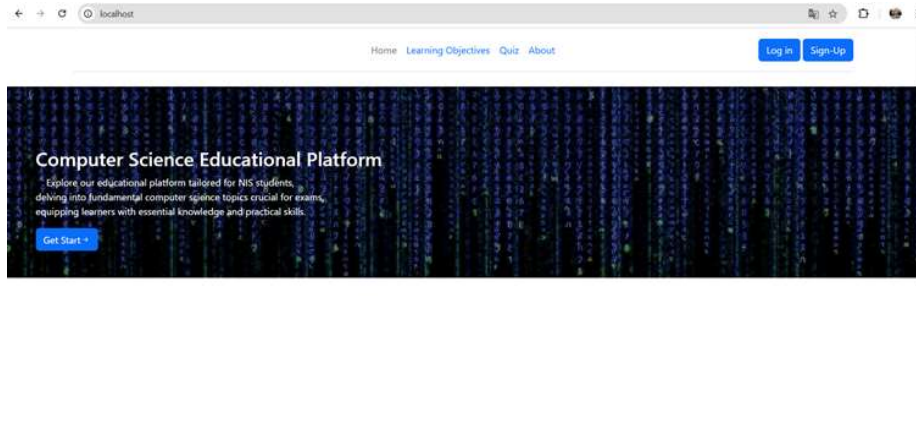*User manual*

To start using CS educational platform, first, users should sign in or sign up to start personal education and practices on the website. To register we should click the button labeled as "Sign-up" (*Picture 26*).

Picture 26

After clicking, the server sends user to registration page, where user should input own personal data, which consists of username, email address, passwords, and agreement with privacy policy. The important note, password should be complex (should contain more than 8 symbols, at least 1 special symbol, uppercase letter, number). If a user already has an account on server, user can click to link "Log in" (*Picture 27*), and, user go to authorization [1] page. User also can check correctness of own password with a help of check button "Show password" (*Picture 27*).
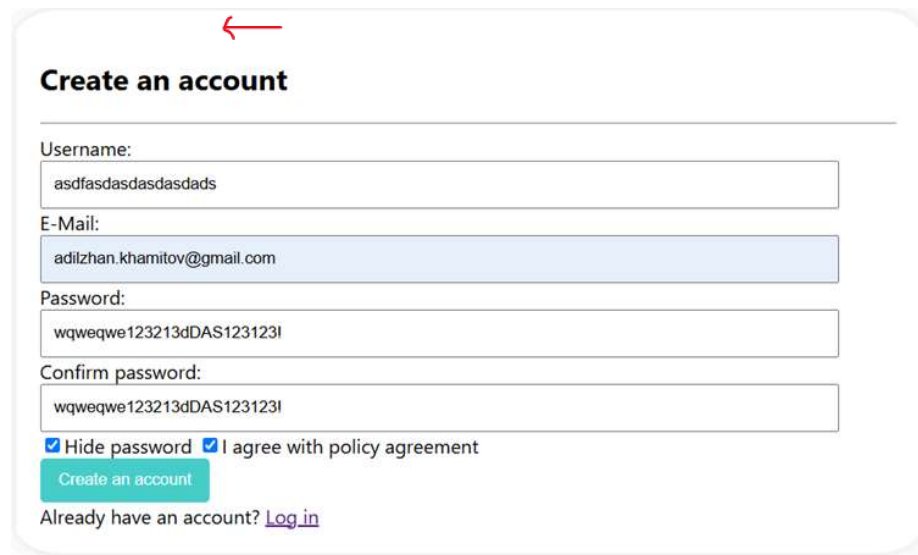
Picture 27

After filling all fields user should to click the button labeled as "Create an account" (*Picture 28*).

Picture 28
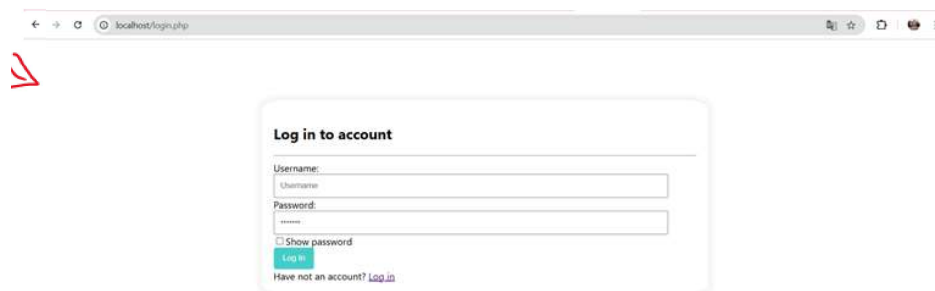
After clicking, the user can log in to the system using personal data which inputted on previous form. Or if a user already has an account, user can just type personal data to log in. After filling fields, user should click the button labeled as "Log in" (*Picture 29*).

Picture 29

It is the start page, there are mission, and objectives CS Educational Platform. There is button "Get Start" (*Picture 30*), after clicking to this button, or scrolling down, there appear panels with topics from Computer Science program of the NIS.

Picture 30
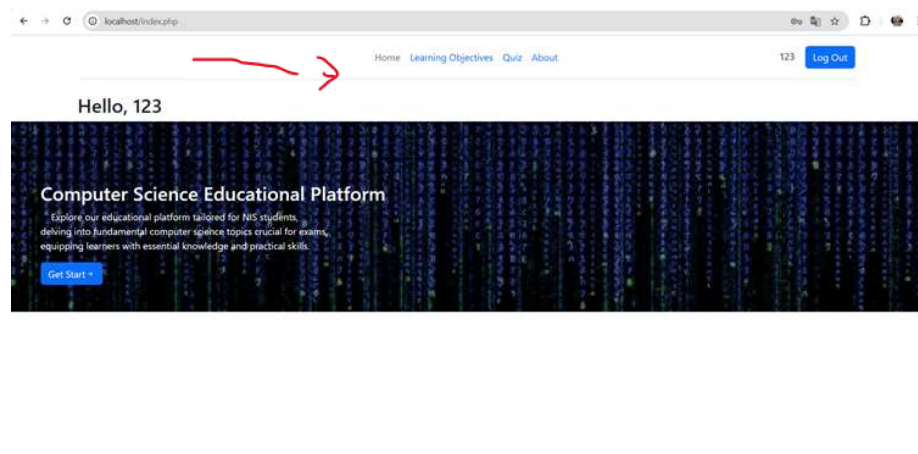
Clicking to buttons "Read More" (*Picture 31*), user can learn this topic deeply.

Picture 31

This is a topic page, on this page there are a variety of topics from databases. There are detailed definitions of the topic, and some small practice. (*Picture 32*)

Picture 32

To log out from user account, user just should press the button "Log Out" (*Picture 33*), and the system perform process of log out from account.

*Picture 33*

Common error guide

Table 6. Common error

| Error	Cause	Solution
The set of all topics on main page blurred	On the website, there are processes to prevent viewing data from unauthorized users. So, if the user doesn't authorize in the system, viewing topics is unavailable	Users should register and log in, after this user can view all topics on the website.
Password should… (contain at least 1 special symbol, at least 1 number, etc.)	Users' passwords should be complex to prevent stealing accounts and personal data. To achieve this purpose, users should use complex password.	Users should create more complex password.

Backup routine

The data backup process will commence once the system is fully operational. Backups will occur quarterly, at the end of each quarter, during periods of minimal user activity to eliminate the risk of data loss.

Since the data primarily consists of text and small images, it is compact enough to be stored on free cloud platforms like Google Drive or Yandex Disk, both of which offer reliable and secure storage options.

Algorithm for backup
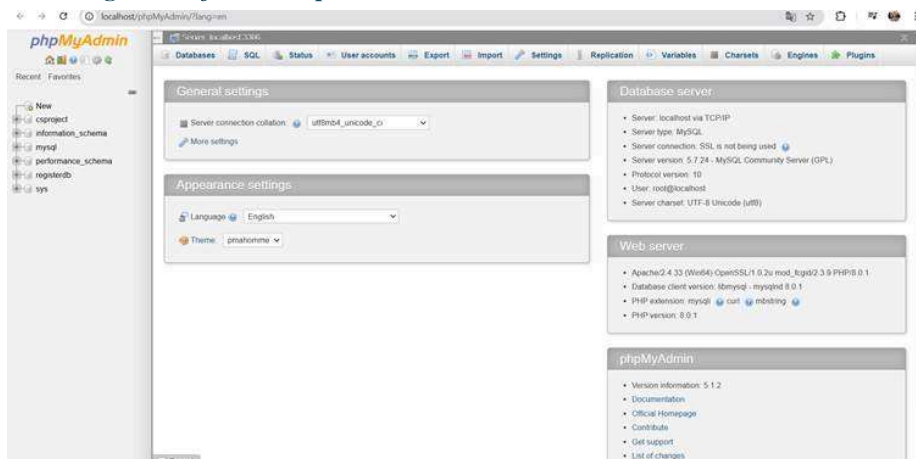
1. Turn on local server
2. Go to localhost/phpMyAdmin/
3. Select "csproject" database
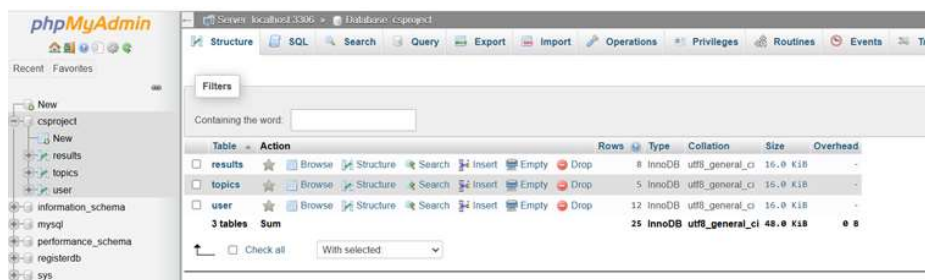
4. Press to "Export"

5. Press to button "Go"
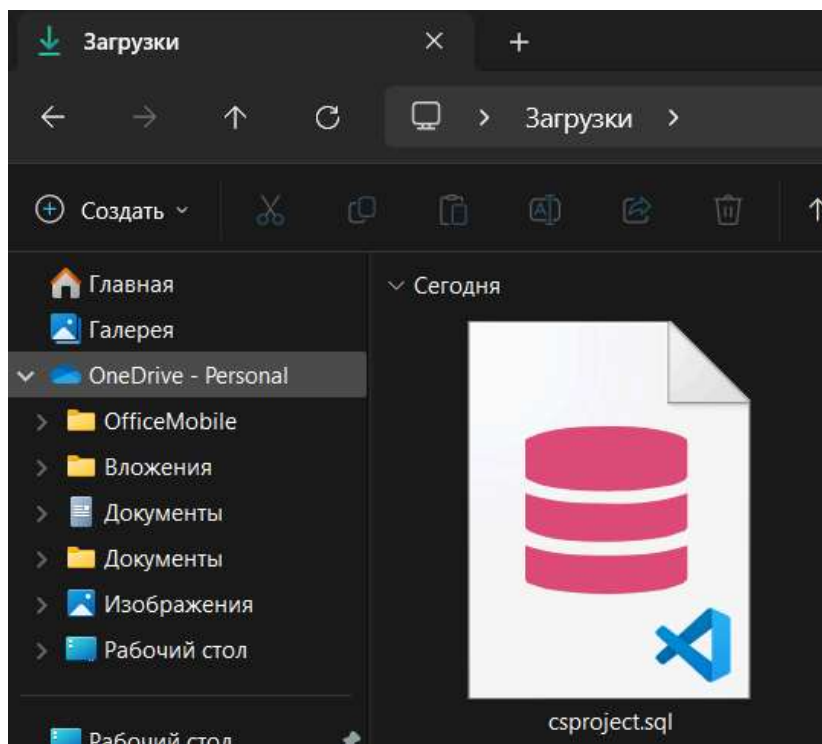
6. After downloading, press with right mouse button, and archive this file

7. After this log in to the Google Drive, and upload this file

8. Press this button, and click Загрузить файлы(Upload files)

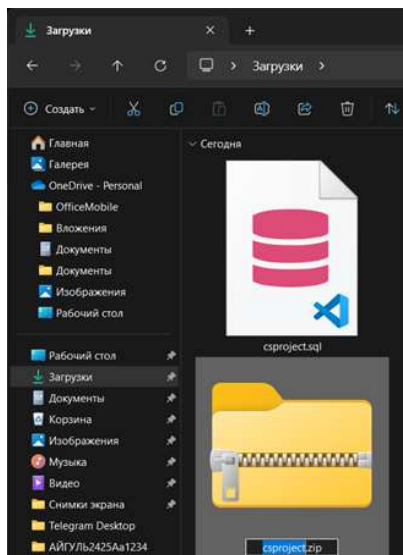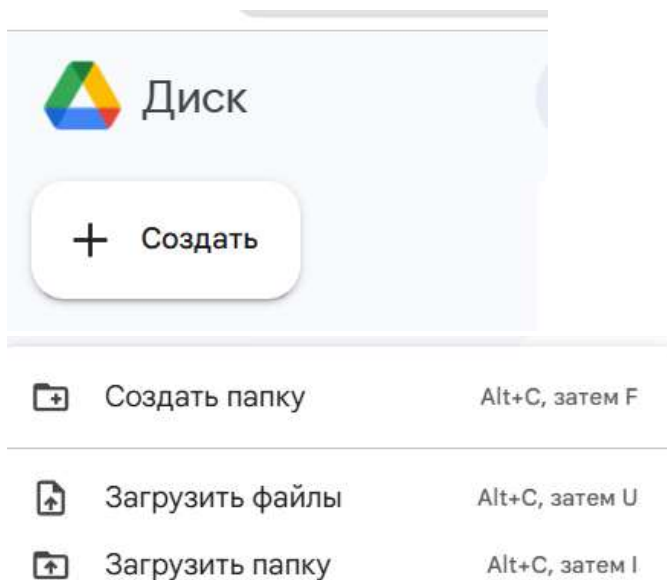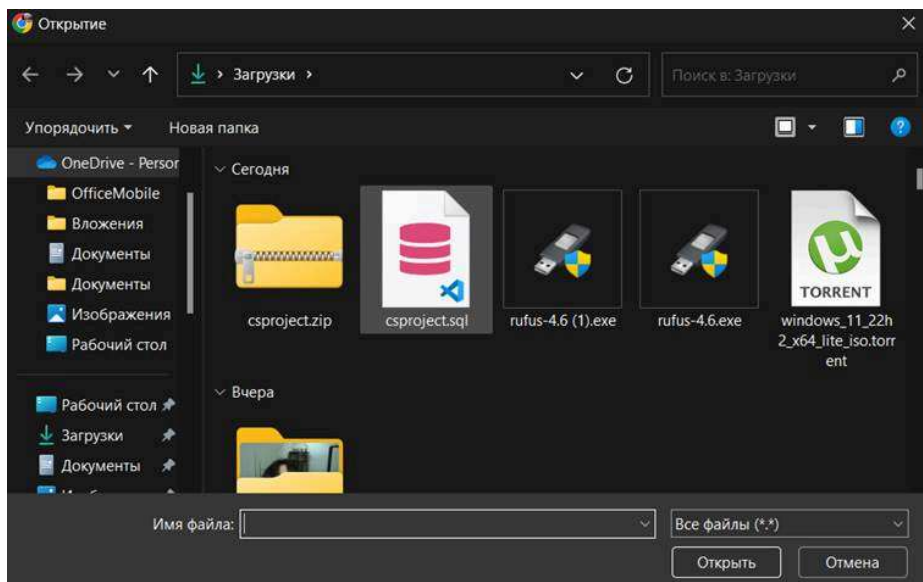9. Then choose archived sql file, and open.

10. File has been uploaded successfully

Glossary

Table 7. Glossary

Title	Description
Authorization	is the function of specifying rights/privileges for accessing resources, which is related to general information security and computer security
Sign-up	Sign up is a phrase referring to the creation of an online account using an e-mail address or a username and password.
Backup	is the process of creating a copy of data to protect it against loss, corruption, or damage. In simple terms, it's like having a spare copy of your important files stored separately, so you can restore them if the original is lost or compromised.
Archive file	is a single file that contains multiple files and folders bundled together, often in a compressed format. It is used for storing, organizing, or transferring data efficiently. Common examples include ZIP, RAR, and TAR files. Archives are typically used to save space or make it easier to move large amounts of data.

[1] is the function of specifying rights/privileges for accessing resources, which is related to general information security and computer security