

Web Information System

Intern Project

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February 15, 2021

Abstract

This web program is an information system that allows to see and control the details about students and lessons. The system allows to teachers log in's and students log in's with a password and user name. This log in system is helping to reliable about the information system. Teachers can see and change the mid-term grade, final grade, quiz grade and attendance status. Students can see just their grades (mid-term, final and quiz). And also the teachers and the students can see the all of the lessons that the school teaches in the school.

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1.Creating a Web Server with MySQLi Database

As you know there is some applications to create a database for your web program.I used the MAMP application to create a database for this web program.When we opened and started the application it shows us 2 green lights on Apache Server and MySQL Server.So it means, our servers are working well.

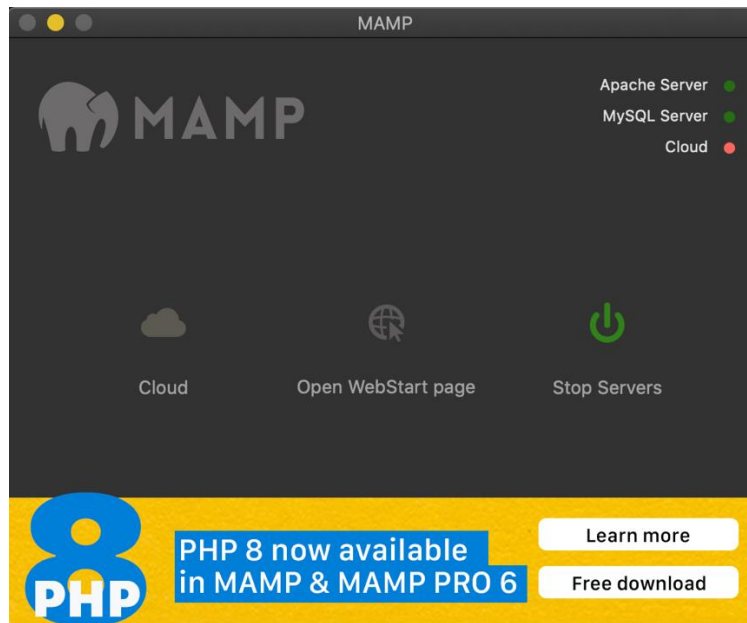


Figure 1: MAMP Interface

The application also prepares the phpmyadmin interface to us.We can reach to it by clicking “Open WebStart page” and click to phpmyadmin under the “Tools”section.

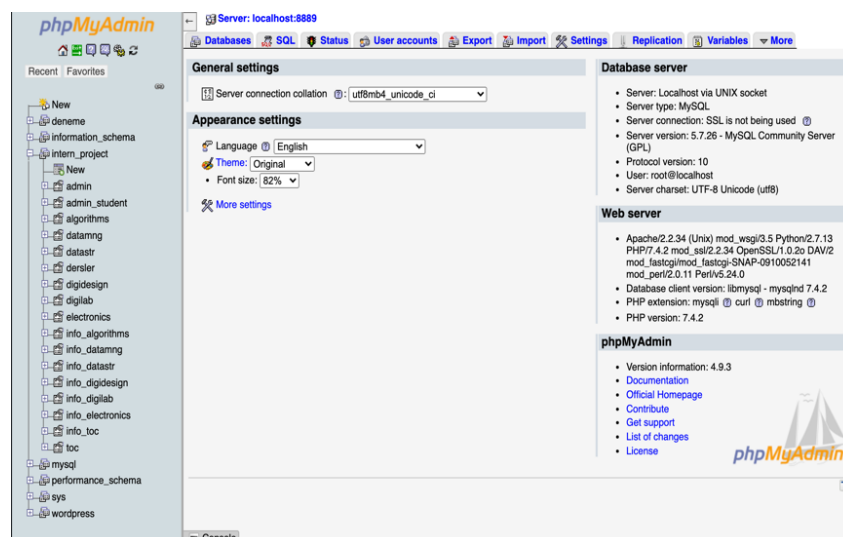


Figure 2: phpmyadmin Interface

2.Web Program's Log In interface

The web program starts with the log in interface[4].This section wants some information from the user.

The system wants;

- User Name
- Password

There is 2 way to log in to the web program;

- As a student
- As a teacher

If you want to log in to the web program as a teacher,you will see the URL like <http://localhost:8888/InternProject/teacherAdmin.html>.

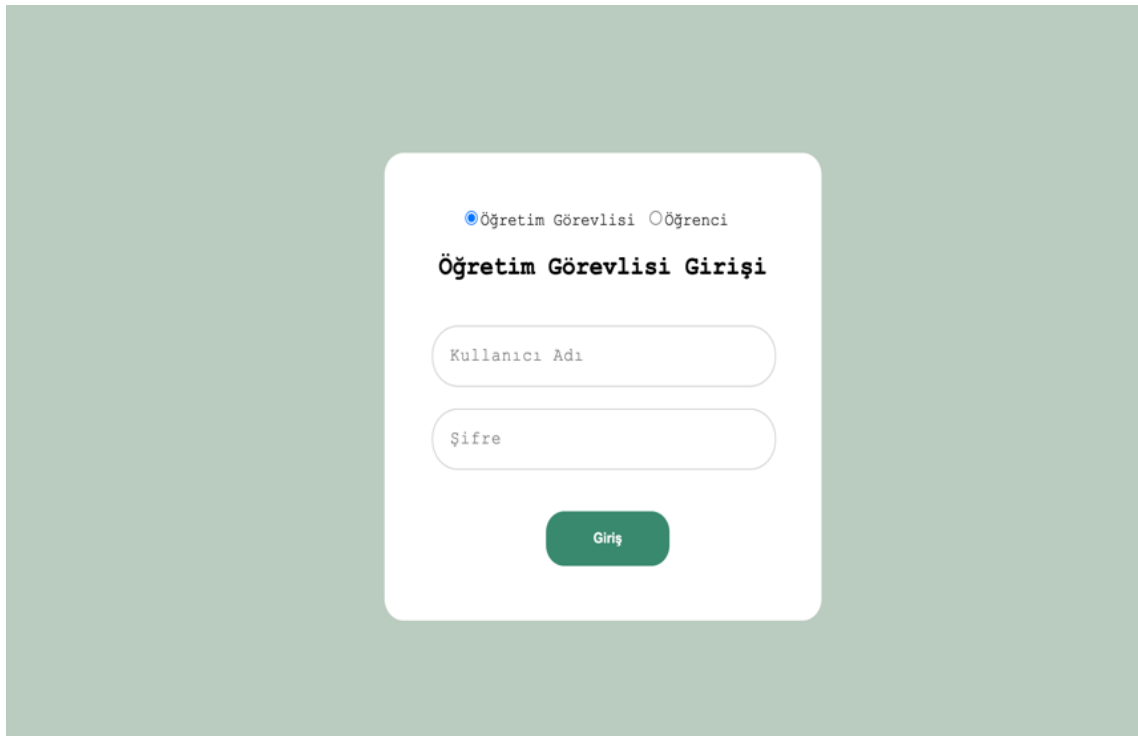
The image shows a login interface for teachers. It features a white rounded rectangle centered on a light green background. At the top of the white box, there are two radio buttons: the first is selected and labeled 'Öğretim Görevlisi', and the second is unselected and labeled 'Öğrenci'. Below this, the title 'Öğretim Görevlisi Girişi' is displayed in bold. There are two input fields: the first is labeled 'Kullanıcı Adı' and the second is labeled 'Şifre'. Both fields have a light gray border and rounded corners. Below the input fields is a green button with the text 'Giriş' in white.

Figure 3: Log In Interface (For Teachers)

Example user name and password for log in (Teacher);

- User Name : algorithms
- Password : 123456

If you want to reach more teacher log in user name and password, you can check the Readme.md file.

Other way to log in is as student. What you gonna do is just using the radio buttons[1] and select the “Öğrenci” for it. And then the URL changes to the this URL <http://localhost:8888/InternProject/studentAdmin.html>.

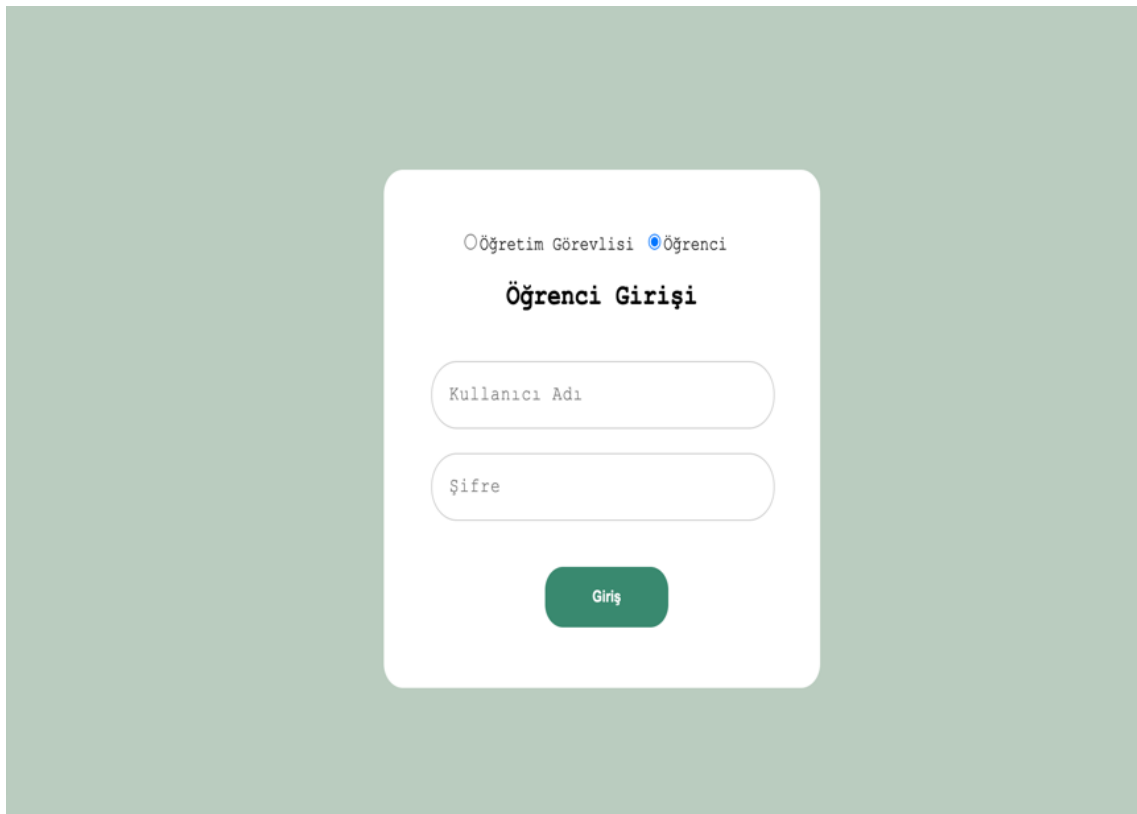
The image shows a web application interface for student login. It features a white rounded rectangle centered on a light green background. At the top of the white box, there are two radio buttons: 'Öğretim Görevlisi' (unselected) and 'Öğrenci' (selected). Below this, the text 'Öğrenci Girişi' is displayed in a bold, black font. Underneath, there are two input fields: 'Kullanıcı Adı' (Username) and 'Şifre' (Password). At the bottom of the white box is a green button with the text 'Giriş' (Login).

Figure 4: Log In Interface (For Students)

Example user name and password for log in (Student);

- User Name : mkemal
- Password : 123456

3.Web Program's Main Page

There is 2 part to talk about at the main page.As we talk about before we are logging in with 2 styles.

If we logged in to the system as a teacher, on the main page interface we gonna see;

- The student information list that taking the lessons that teacher's giving,
- The list of all the lessons that the school giving,
- The secure log out.

And the URL is gonna be like;

- http://localhost:8888/InternProject/lessons/algorithms_index.php



Figure 5: Main Page Interface (Teacher)

The different type of main page is shown by as you logged in as a student.So you can see that things on that page;

- Grades section,
- The list of all the lessons that the school giving,
- The secure log out.

And the URL is gonna be like;

- http://localhost:8888/InternProject/forStudents/mkemal_index.php



Figure 6: Main Page Interface (Student)

3.1.Student Information List Page

The teachers can see the student information list by clicking the list of the student that taking the lesson from you section from main page.Student informations includes;

- Name,
- Surname,
- Student ID,
- E-mail.

And the URL gonna be like;

- http://localhost:8888/InternProject/lessons/algorithms_liste.php

Also teachers have a section directs to another page that can change the students lesson grades and attendance status named “Düzenle”.

-----Algorithms Dersi Öğrenci Listesi-----				
ISIM	SOY ISIM	NUMARA	EMAIL	NOT VE DEVAM DURUMU
Abdullah	Taş	2016555001	abdullahtas@email.com	Düzenle
Mustafa Kemal	Çelik	2016555023	mkceliks@email.com	Düzenle
Ali Cem	Üzüm	2016555002	alicemuzum@email.com	Düzenle
Furkan	Ekici	2016555003	furkanekici@email.com	Düzenle
Civan	Akbaş	2016555004	civanakbas@email.com	Düzenle
Cavit Yener	Bindal	2016555007	yenerbindal@email.com	Düzenle

Anasayfaya gitmek için tıklayınız!

[Ana Sayfa](#)

Figure 7 : Student information list (Teacher)

3.1.1.Student Information Change Option

We are reaching to this option menu by clicking “Düzenle” from Student Information List Page.

This page allows teacher to change the students;

- Mid-Term grade,
- Final grade,
- Quiz grade,
- Attendance status.

And the URL gonna be like;

- http://localhost:8888/InternProject/lessons/algorithms_guncelle.php?id=1

Also we can reach the student information here too by clicking “Öğrenci Detayı” button at the top of the page[2].

Öğrenci Düzenleme Sistemi

[Öğrenci Detayı](#)

Değiştirmek istediğiniz bilgileri giriniz.

Vize:

Final:

Quiz:

Devam Durumu(*): Success ☐ Failed ☐

[Güncelle](#)

ISIM	SOY ISIM	VIZE	FINAL	QUIZ	DEVAM DURUMU
Abdullah	Taş	100	100	80	Failed

Anasayfaya gitmek için tıklayınız!

[Ana Sayfa](#)

Figure 8 : Student Information Settings Interface (Teacher)

4.General Lesson List Page

All of the users can reach to this page.This page gives the lesson list that the schools gives to the students.

And the URL gonna be like;

- http://localhost:8888/InternProject/lessons/algorithms_derslistesi.php

-----Okulumuz'da görülmek'te olan ders listesi-----

DERS ADI
Algorithms
Theory Of Computation
Data Structures
Digital Design
Digital Design Lab.
Electronics
Data Management and File Structures

Anasayfaya gitmek için tıklayınız!

[Ana Sayfa](#)

Figure 8 : General Lesson List Page (Both)

5. Grade List

We can reach this page by clicking the grades. If you logged as student, you will see a grades button[5] on the main page. And this button directs you to the another page that shows you grades. You will see the grade tables[3] of which user you are logged in with.

This page includes;

- Lesson Name,
- Mid-Term Grade,
- Final Grade,
- Quiz Grade,
- Attendance Status.

Also we can reach the student information here too by clicking “Öğrenci Detayı”[2] button at the top of the page.

And the URL gonna be like;

- http://localhost:8888/InternProject/forStudents/mkemal_liste.php

-----Ders Notları (Mustafa Kemal Çelik)-----

DERS ADI	VIZE NOTU	FINAL NOTU	QUIZ NOTU	DEVAM DURUMU
Algorithms	55	50	100	Success

DERS ADI	VIZE NOTU	FINAL NOTU	QUIZ NOTU	DEVAM DURUMU
Data Structures	55	100	100	Success

DERS ADI	VIZE NOTU	FINAL NOTU	QUIZ NOTU	DEVAM DURUMU
Digital Design	55	0	0	Success

DERS ADI	VIZE NOTU	FINAL NOTU	QUIZ NOTU	DEVAM DURUMU
Electronics	55	100	100	Success

DERS ADI	VIZE NOTU	FINAL NOTU	QUIZ NOTU	DEVAM DURUMU
Theory Of Computation	55	100	100	Success

Anasayfaya gitmek için tıklayınız!

Figure 9 : Grades (Student)

6. Secure Log out

If you want to log out from the program, at the bottom of the page you will see a secure log out button. When you clicked to it, the page shows an alert (pop up) [7] to you. Then you should click “OK” and you will be able to see the Log In page again after waited 1 second refresh.

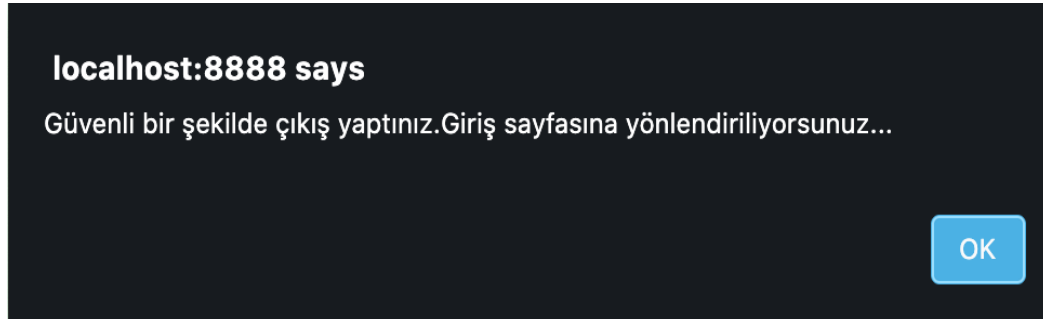


Figure 10 : Secure Log out alert pop up

The alert says: You logged out securely. You are directing to log in page...

Code Part

1. CSS Folder

This folder helps us to give some style to our program. I got two files in this folder;

- Admin Page CSS File,
- General Style File.

Admin page css file styles the log in page for the program. We have 2 inputs and have a log in button. We have some divs to embed the form into it. You can reach the code from here;

```

1 body{
2     background-color: #e8fFee;
3     -webkit-background-size: cover;
4     -moz-background-size: cover;
5     -o-background-size: cover;
6     background-size: cover;
7     font-family: "Courier New", Courier, monospace;
8 }
9 a{color:#39886e;text-decoration: none;}
10 a:hover{color:#012c1d; }
11 .pull-left{float: left;}
12 div.logo{text-align: center; margin: 20px 20px 30px 20px; fill: #566375;}
13 div.logo svg{
14     width:180px;
15     height:100px;
16 }
17 .logo-active{fill: #44aacc !important;}
18 #formWrapper{
19     background: rgba(0,0,0,.2);
20     width:100%;
21     height:100%;
22     position: absolute;
23     top:0;
24     left:0;
25     transition:all .3s ease;}
26 .darken-bg{background: rgba(0,0,0,.5) !important; transition:all .3s ease;}
27
28 div#form{
29     position: absolute;
30     width:360px;
31     height:320px;
32     height:auto;
33     background-color: #fff;

```

Figure 11 : Some part of admin.css

General style file gives the style all of the pages except of admin page. We have tables, a tags, input tags, id and class style codes in this folder. You can reach the code from here;

```

1 body{
2     background-color: #e8fFee;
3     text-align: center;
4 }
5
6
7
8 a{
9     background-color: #a3afff;
10    border: none;
11    border-radius: 5px;
12    color: white;
13    padding: 15px 32px;
14    text-align: center;
15    text-decoration: none;
16    display: inline-block;
17    font-size: 10px;
18    transition-duration: 0.4s;
19    margin-left: 23px;
20    box-shadow: 0 8px 16px 0 rgba(0,0,0,0.2), 0 6px 20px 0 rgba(0,0,0,0.19);
21    font-family: "Courier New", Courier, monospace;
22    cursor: pointer;
23 }
24 a:hover{
25     background-color: #4CAF50;
26     color: white;
27 }
28 .delete{
29
30     background-color: #ff595c;
31     border: none;
32     border-radius: 5px;
33     color: white;

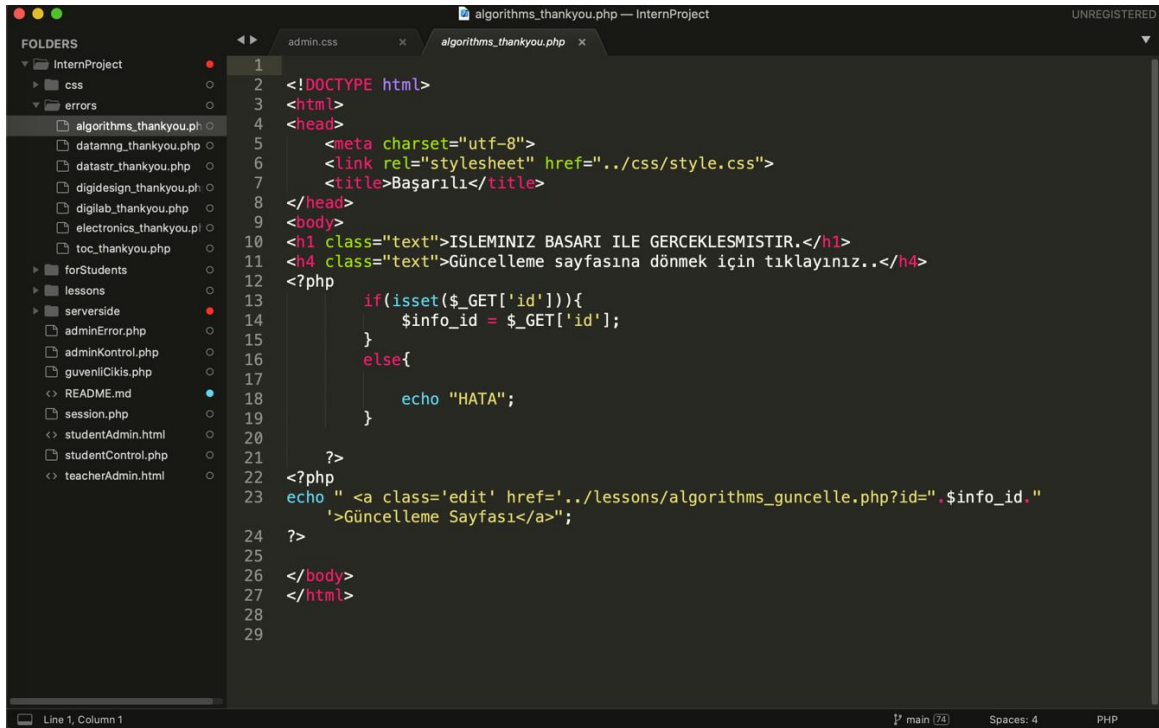
```

Figure 12 : Some part of style.css

2.Errors Folder

This folder includes thankyou pages.If the grade changes successful or there is something going wrong, the user will see this files.This folder includes;

- There is 7 file, named from all lessons one by one.
- It shows, a message like successful or error.



```
1
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="utf-8">
6 <link rel="stylesheet" href="../css/style.css">
7 <title>Başarılı</title>
8 </head>
9 <body>
10 <h1 class="text">İSLEMİNİZ BASARI İLE GERÇEKLEŞMİŞTİR.</h1>
11 <h4 class="text">Güncelleme sayfasına dönmek için tıklayınız.</h4>
12 <?php
13     if(isset($_GET['id'])){
14         $info_id = $_GET['id'];
15     }
16     else{
17         echo "HATA";
18     }
19 }
20
21 ?>
22 <?php
23 echo " <a class='edit' href='../lessons/algorithms_guncelle.php?id=".$info_id."
24 '>Güncelleme Sayfası</a>";
25
26 </body>
27 </html>
28
29
```

Figure 13 : Some part of algorithms_thankyou.php file

3.ForStudents Folder

This folder shown itself when the user logged in as a student.It has 3 types of file for every student in the school.This types;

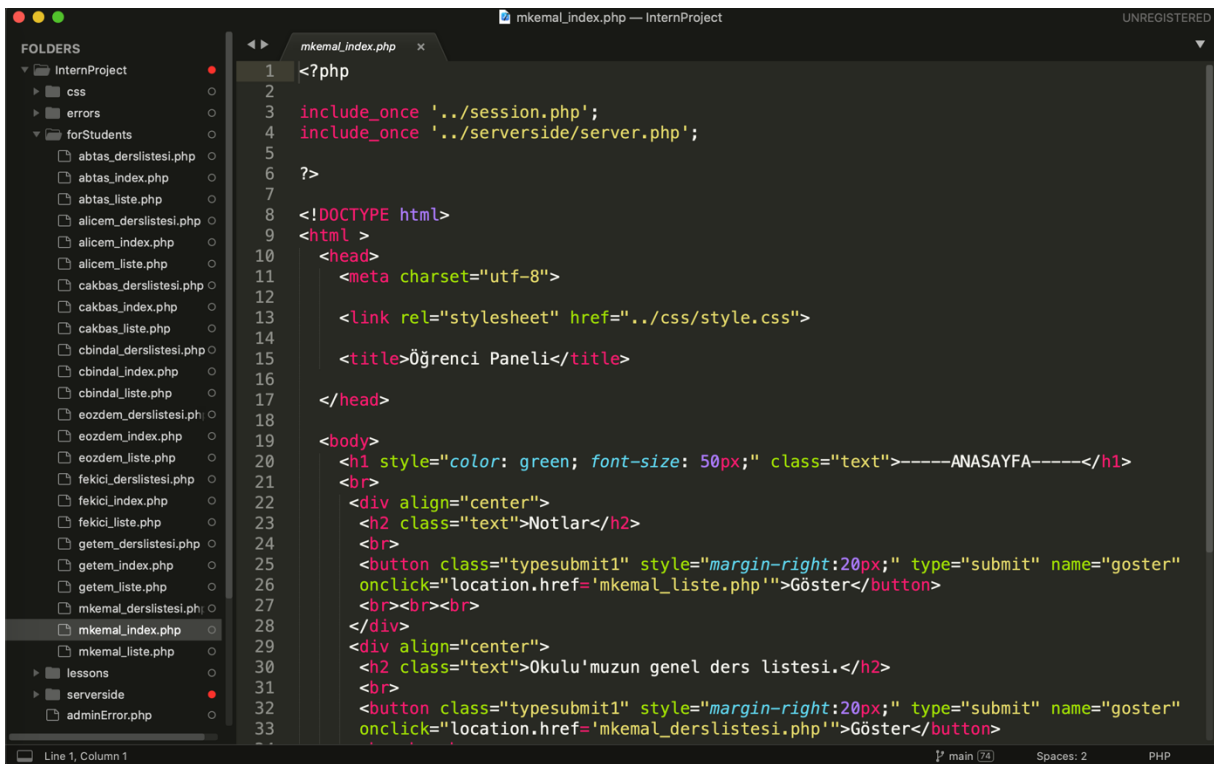
- studentusername_derslistesi.php
- studentusername_index.php
- studentusername_liste.php

Note that: At the upper materials “studentusername” depending by the user.

So i'm gonna explain with the end of the name of file. For derslistesi.php the user will see the schools general lesson list with clicking a button by going from the main page.

Let's look to other file named by index.php. It is just about student's main page. When students logged in to the program with their id's and password's they will see this page first. This page is like an interface to reach other functions.

The last one is liste.php. The students goes to this page from main page too. This file includes the grades for logged in student. The student can see his or her grades by going this file.



```
1 <?php
2
3 include_once '../session.php';
4 include_once '../serverside/server.php';
5
6 ?>
7
8 <!DOCTYPE html>
9 <html >
10 <head>
11 <meta charset="utf-8">
12
13 <link rel="stylesheet" href="../css/style.css">
14
15 <title>Öğrenci Paneli</title>
16
17 </head>
18
19 <body>
20 <h1 style="color: green; font-size: 50px;" class="text">-----ANASAYFA-----</h1>
21 <br>
22 <div align="center">
23 <h2 class="text">Notlar</h2>
24 <br>
25 <button class="typesubmit1" style="margin-right:20px;" type="submit" name="goster"
26 onclick="location.href='mkemal_liste.php'">Göster</button>
27 <br><br><br>
28 </div>
29 <div align="center">
30 <h2 class="text">Okulu'muzun genel ders listesi.</h2>
31 <br>
32 <button class="typesubmit1" style="margin-right:20px;" type="submit" name="goster"
33 onclick="location.href='mkemal_derslistesi.php'">Göster</button>
```

Figure 14 : Some part of mkemal_index.php

4.Lessons Folder

This folder shown itself when the user logged in as a teacher. It has 4 types of file for every lesson in the school. This types;

- lessonname_derslistesi.php
- lessonname_guncelle.php
- lessonname_index.php
- lessonname_liste.php

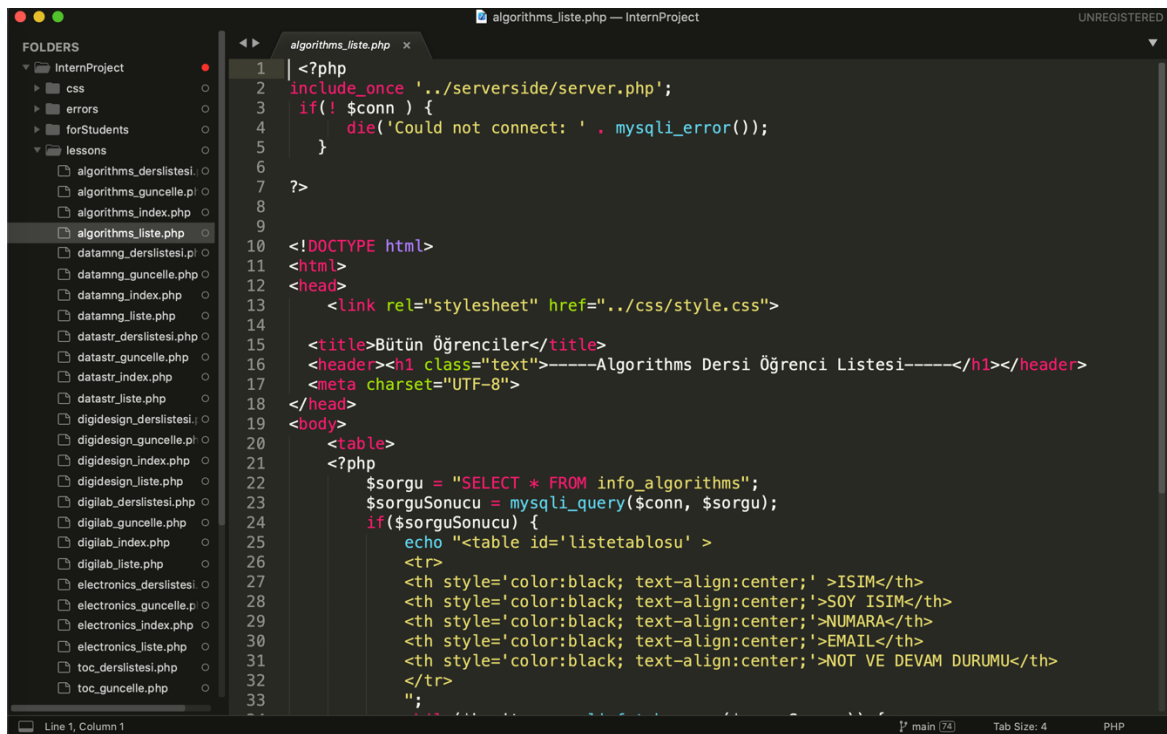
Note that: At the upper materials “lessonname” depending by the user.

So i’m gonna explain with the end of the name of file. For derslistesi.php the user will see the schools general lesson list with clicking a button by going from the main page.

Let’s have a look to other file named by guncelle.php. This file includes some of codes that can update[6] the student’s grades and attendance status by the logged in teacher. Teacher can go to this page by clicking “Düzenle” where it is at the right of the page from liste.php

The other one is index.php. This file is just shows itself when the teacher logged in to the program. And it is like an interface to reach other functions.

The last one is liste.php. Teacher can see the personal informations of all the students who are taking his or her lesson by going this file. Teacher can go to this file by clicking a button from mainpage which directs to liste.php.



```
1 <?php
2 include_once '../serverside/server.php';
3 if(! $conn ) {
4     die('Could not connect: ' . mysqli_error());
5 }
6
7 ?>
8
9
10 <!DOCTYPE html>
11 <html>
12 <head>
13     <link rel="stylesheet" href="../css/style.css">
14
15     <title>Bütün Öğrenciler</title>
16     <header><h1 class="text">-----Algorithms Dersi Öğrenci Listesi-----</h1></header>
17     <meta charset="UTF-8">
18 </head>
19 <body>
20     <table>
21     <?php
22         $sorgu = "SELECT * FROM info_algorithms";
23         $sorguSonucu = mysqli_query($conn, $sorgu);
24         if($sorguSonucu) {
25             echo "<table id='listetablosu' >
26                 <tr>
27                     <th style='color:black; text-align:center;' >ISIM</th>
28                     <th style='color:black; text-align:center;'>SOY ISIM</th>
29                     <th style='color:black; text-align:center;'>NUMARA</th>
30                     <th style='color:black; text-align:center;'>EMAIL</th>
31                     <th style='color:black; text-align:center;'>NOT VE DEVAM DURUMU</th>
32                 </tr>
33                 ";
```

Figure 15 : Some part of algorithms_liste.php

5. Serverside Folder

This folder includes the part of the connection with mysql database. We are making a connection between server-side and client-side with this folder by introducing the database. We need to introduce 4 things;

- Server name
- User name
- Password
- Database name.
-

And we are writing a line of code like ;

```
$conn = mysqli_connect ($servername, $username, $password, $dbname);
```

So we made the connection like that.

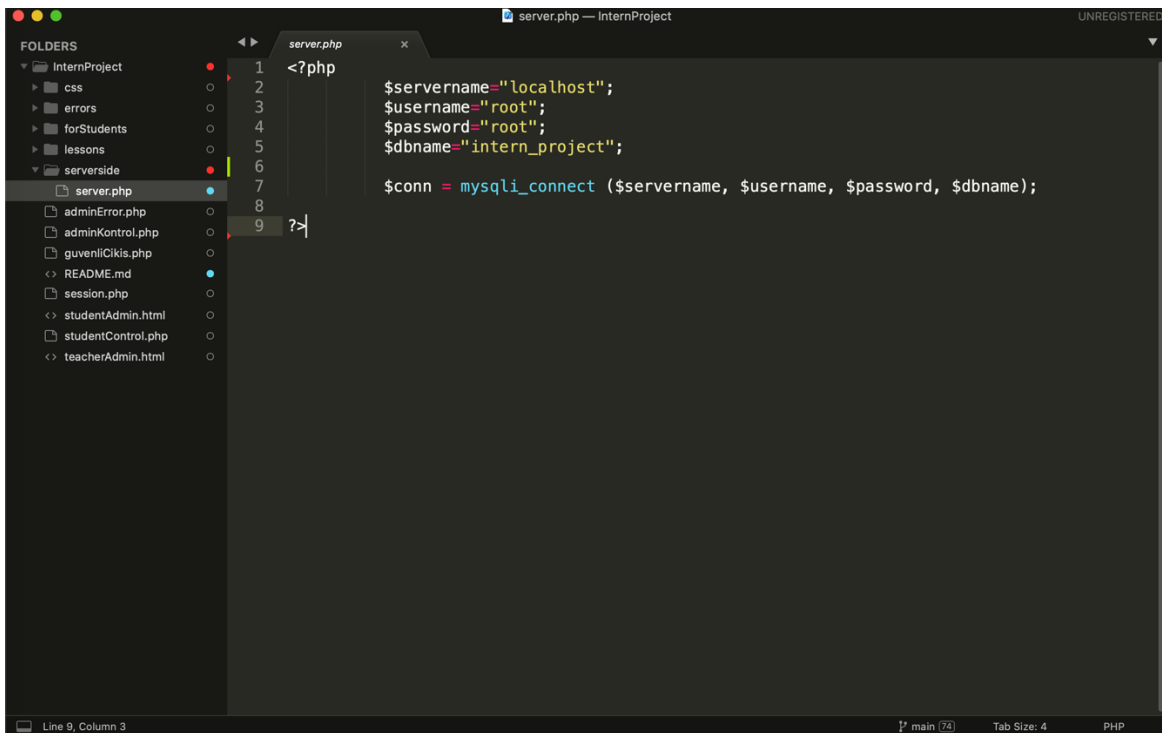
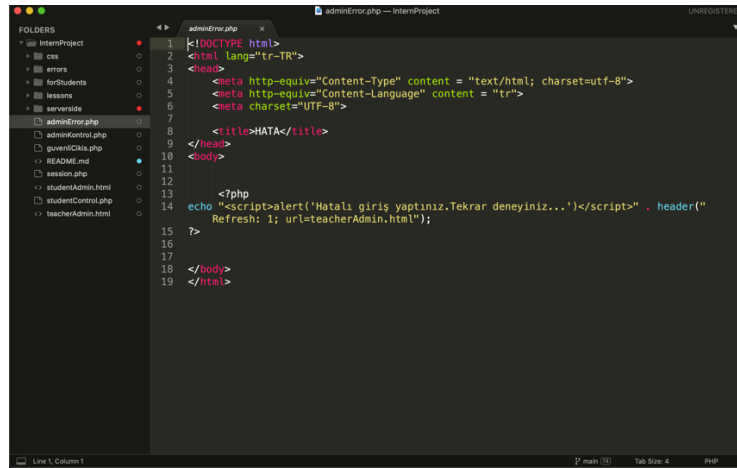


Figure 16 : server.php

6.adminError.php

This page is about a logging error.If the user types his or her user name or password wrong this page shows itself.

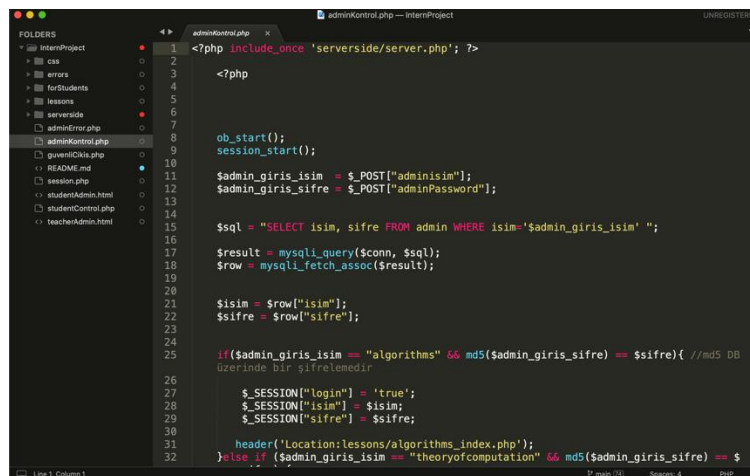


```
1 <!DOCTYPE html>
2 <html lang="tr-TR">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
5 <meta http-equiv="Content-Language" content="tr">
6 <meta charset="UTF-8">
7
8 <title>HATA</title>
9 </head>
10 <body>
11
12 <?php
13 echo "<script>alert('Hatalı giriş yaptınız.Tekrar deneyiniz...')</script>" . header("
14 Refresh: 1; url=teacherAdmin.html");
15 >
16
17 </body>
18 </html>
19
```

Figure 17 : adminError.php

7.adminKontrol.php

This page controls the which teacher logged in to the program.For example, if the algorithms teacher logged in to the system this page directs the user to the algorithms_index.php.

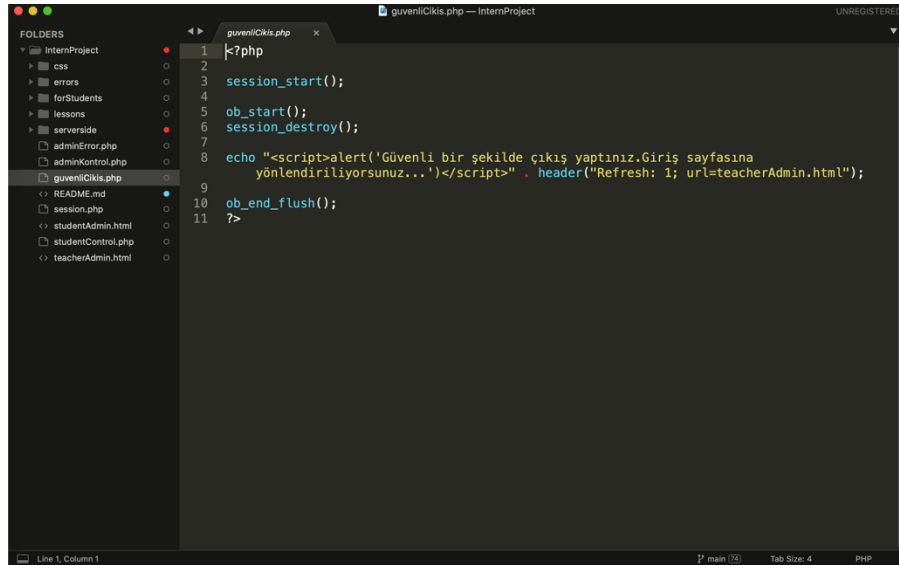


```
1 <?php include_once 'serverside/server.php'; ?>
2
3 <?php
4
5 ob_start();
6 session_start();
7
8 $admin_giris_isim = $_POST["adminisim"];
9 $admin_giris_sifre = $_POST["adminPassword"];
10
11 $sql = "SELECT isim, sifre FROM admin WHERE isim='$admin_giris_isim' ";
12 $result = mysqli_query($conn, $sql);
13 $row = mysqli_fetch_assoc($result);
14
15 $isim = $row["isim"];
16 $sifre = $row["sifre"];
17
18 if($admin_giris_isim == "algorithms" && md5($admin_giris_sifre) == $sifre){ //md5 DB
19     üzerinde bir şifrelemedir
20
21     $_SESSION["login"] = 'true';
22     $_SESSION["isim"] = $isim;
23     $_SESSION["sifre"] = $sifre;
24
25     header('Location:lessons/algorithms_index.php');
26 }else if ($admin_giris_isim == "theoryofcomputation" && md5($admin_giris_sifre) == $
```

Figure 18:Some part of adminKontrol.php

8.guvenliCikis.php

This page allows user to a secure log out from the program.This file works when the user (student and teacher) clicks log out from their main pages.

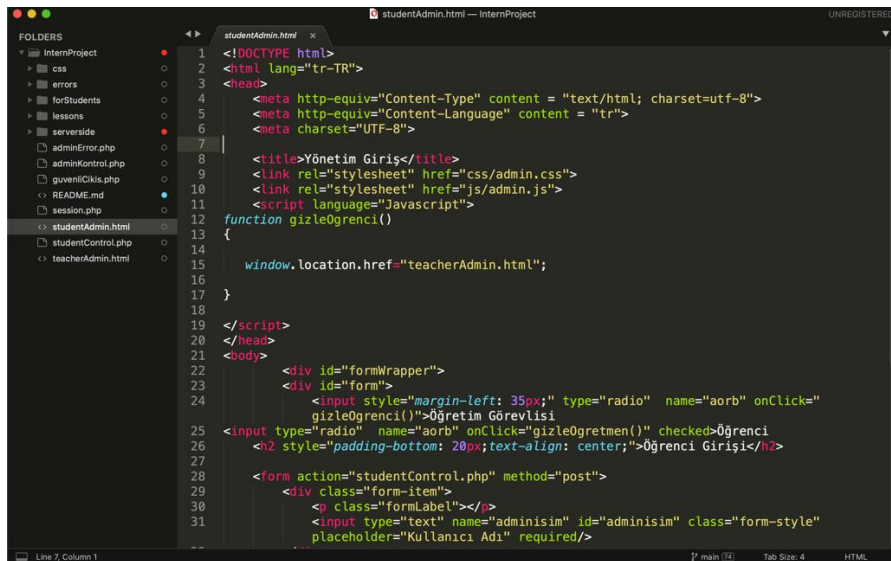


```
1 <?php
2 session_start();
3
4
5 ob_start();
6 session_destroy();
7
8 echo "<script>alert('Güvenli bir şekilde çıkış yaptınız.Giriş sayfasına
9 yönlendiriliyorsunuz...')</script>" . header("Refresh: 1; url=teacherAdmin.html");
10
11 ob_end_flush();
12 ?>
```

Figure 19 : guvenliCikis.php

9.studentAdmin.html

This page is log in page for students.The students can log in the program by this file.

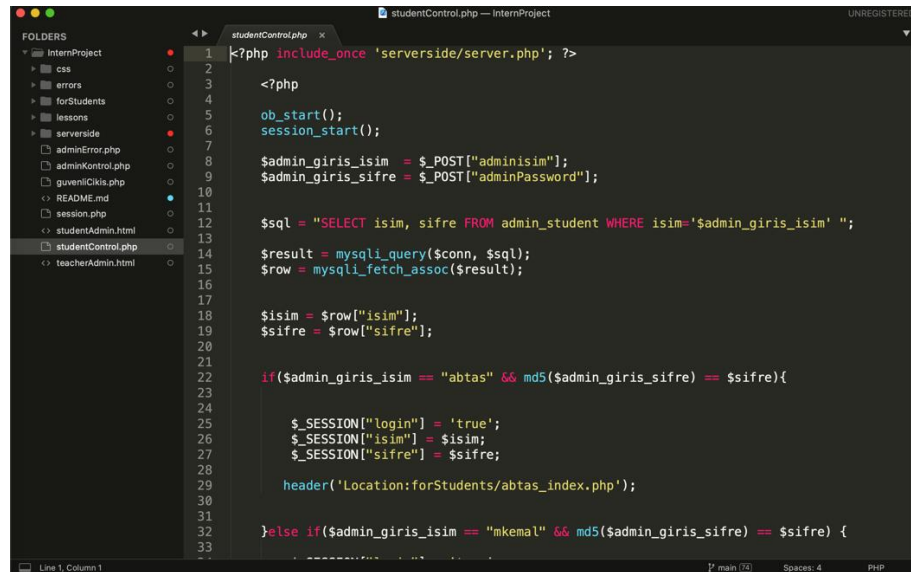


```
1 <!DOCTYPE html>
2 <html lang="tr-TR">
3 <head>
4 <meta http-equiv="Content-Type" content = "text/html; charset=utf-8">
5 <meta http-equiv="Content-Language" content = "tr">
6 <meta charset="UTF-8">
7
8 <title>Yönetim Giriş</title>
9 <link rel="stylesheet" href="css/admin.css">
10 <link rel="stylesheet" href="js/admin.js">
11 <script language="Javascript">
12 function gizleOgrenci()
13 {
14
15     window.location.href="teacherAdmin.html";
16 }
17
18 </script>
19 </head>
20 <body>
21
22 <div id="formWrapper">
23 <div id="form">
24 <input style="margin-left: 35px;" type="radio" name="aorb" onClick="
25 gizleOgrenci()">Öğretim Görevlisi
26 <input type="radio" name="aorb" onClick="gizleOgretmen()" checked="">Öğrenci
27 <h2 style="padding-bottom: 20px;text-align: center;">Öğrenci Girişi</h2>
28 <form action="studentControl.php" method="post">
29 <div class="form-item">
30 <p class="formLabel"></p>
31 <input type="text" name="adminisim" id="adminisim" class="form-style"
32 placeholder="Kullanıcı Adı" required/>
```

Figure 20 : Some part of studentAdmin.html

10.studentControl.php

The system checks the who logged in to the program by this file. The program decides it with the matches id's and password's from database.

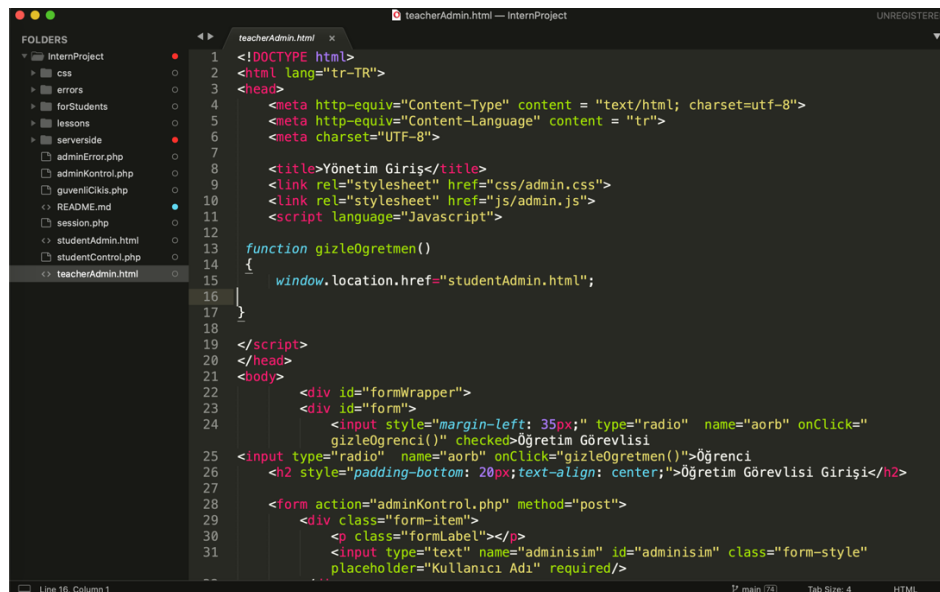
A screenshot of a code editor showing the file studentControl.php. The left sidebar shows a project structure with folders like css, errors, forStudents, lessons, and serverside. The main editor area displays PHP code. The code starts with a server-side include, followed by session initialization. It then takes 'adminisim' and 'adminPassword' from the POST data. A SQL query is executed to select 'isim' and 'sifre' from the 'admin_student' table where 'isim' matches the provided 'adminisim'. The results are fetched and compared with the provided 'adminPassword' using a md5 hash. If the login is successful, session variables are set, and the user is redirected to 'forStudents/abtas_index.php'. Otherwise, it checks for 'mkemal' and 'mkemal' and sets session variables accordingly.

```
1 <?php include_once 'serverside/server.php'; ?>
2
3 <?php
4
5 ob_start();
6 session_start();
7
8 $admin_giris_isim = $_POST["adminisim"];
9 $admin_giris_sifre = $_POST["adminPassword"];
10
11
12 $sql = "SELECT isim, sifre FROM admin_student WHERE isim='$admin_giris_isim' ";
13
14 $result = mysqli_query($conn, $sql);
15 $row = mysqli_fetch_assoc($result);
16
17
18 $isim = $row["isim"];
19 $sifre = $row["sifre"];
20
21
22 if($admin_giris_isim == "abtas" && md5($admin_giris_sifre) == $sifre){
23
24     $_SESSION["login"] = 'true';
25     $_SESSION["isim"] = $isim;
26     $_SESSION["sifre"] = $sifre;
27
28     header('Location:forStudents/abtas_index.php');
29
30 }else if($admin_giris_isim == "mkemal" && md5($admin_giris_sifre) == $sifre) {
```

Figure 21 : Some part of studentControl.php

11.teacherAdmin.html

This file is log in page for teachers. Teachers logs in the system from here.

A screenshot of a code editor showing the file teacherAdmin.html. The left sidebar shows the same project structure as Figure 21. The main editor area displays HTML code. The code starts with a DOCTYPE declaration and a meta tag for the language. It includes a title 'Yönetim Giriş' and links to 'css/admin.css' and 'js/admin.js'. A JavaScript function 'gizleOgretmen()' is defined, which sets the window location to 'studentAdmin.html'. The body contains a form with a radio button for 'Görevlisi' and a text input for 'Görevlisi Girişi'. The form is submitted to 'adminKontrol.php' using the POST method.

```
1 <!DOCTYPE html>
2 <html lang="tr-TR">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
5 <meta http-equiv="Content-Language" content="tr">
6 <meta charset="UTF-8">
7
8 <title>Yönetim Giriş</title>
9 <link rel="stylesheet" href="css/admin.css">
10 <link rel="stylesheet" href="js/admin.js">
11 <script language="JavaScript">
12
13 function gizleOgretmen()
14 {
15     window.location.href="studentAdmin.html";
16 }
17
18 </script>
19 </head>
20 <body>
21
22 <div id="formWrapper">
23 <div id="form">
24
25 <input style="margin-left: 35px;" type="radio" name="aorb" onClick="
26 gizleOgretmen()" checked="checked" Görevlisi
27 <input type="radio" name="aorb" onClick="gizleOgretmen()">Öğrenci
28 <h2 style="padding-bottom: 20px;text-align: center;">Öğretim Görevlisi Girişi</h2>
29
30 <form action="adminKontrol.php" method="post">
31 <div class="form-item">
32 <p class="formLabel"></p>
33 <input type="text" name="adminisim" id="adminisim" class="form-style"
34 placeholder="Kullanıcı Adı" required/>
```

Figure 22 : Some part of teacherAdmin.html

Database

1.phpmyadmin Tables

We are using this tables for store our data's. This tables helps us to allocate and group the datas in the database. I used 17 tables for our Web Information System Database. We inserted the student's informations and lessons for our teachers to the database. So the users can login and see their grades because of that system.

The tables that which are in the system;

1	<u>admin</u> →→→ Includes teacher's usernames and passwords
2	<u>admin_student</u> →→→ Includes student's usernames and passwords
3	<u>algorithms</u> →→→ Includes algorithms lesson grades of the students
4	<u>datamng</u> →→→ Includes data management and file structures lesson grades of the students
5	<u>datastr</u> →→→ Includes data structures lesson grades of the students
6	<u>dersler</u> →→→ Includes the list of all lessons giving from the school
7	<u>digidesign</u> →→→ Includes digital design lesson grades of the students
8	<u>digilab</u> →→→ Includes digital design lab lesson grades of the students
9	<u>electronics</u> →→→ Includes electronics lesson grades of the students
10	<u>info_algorithms</u> →→→ Includes personal information of students which are taking algorithms lesson.
11	<u>info_datamng</u> →→→ Includes personal information of students which are taking datamng lesson.
12	<u>info_datastr</u> →→→ Includes personal information of students which are taking data structures lesson.
13	<u>info_digidesign</u> →→→ Includes personal information of students which are taking digital design lesson.
14	<u>info_digilab</u> →→→ Includes personal information of students which are taking digital design lab lesson.
15	<u>info_electronics</u> →→→ Includes personal information of students which are taking electronics lesson.
16	<u>info_toc</u> →→→ Includes personal information of students which are taking theory of computation lesson.
17	<u>toc</u> →→→ Includes theory of computation lesson grades of the students

Figure 23 : The Database table

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