

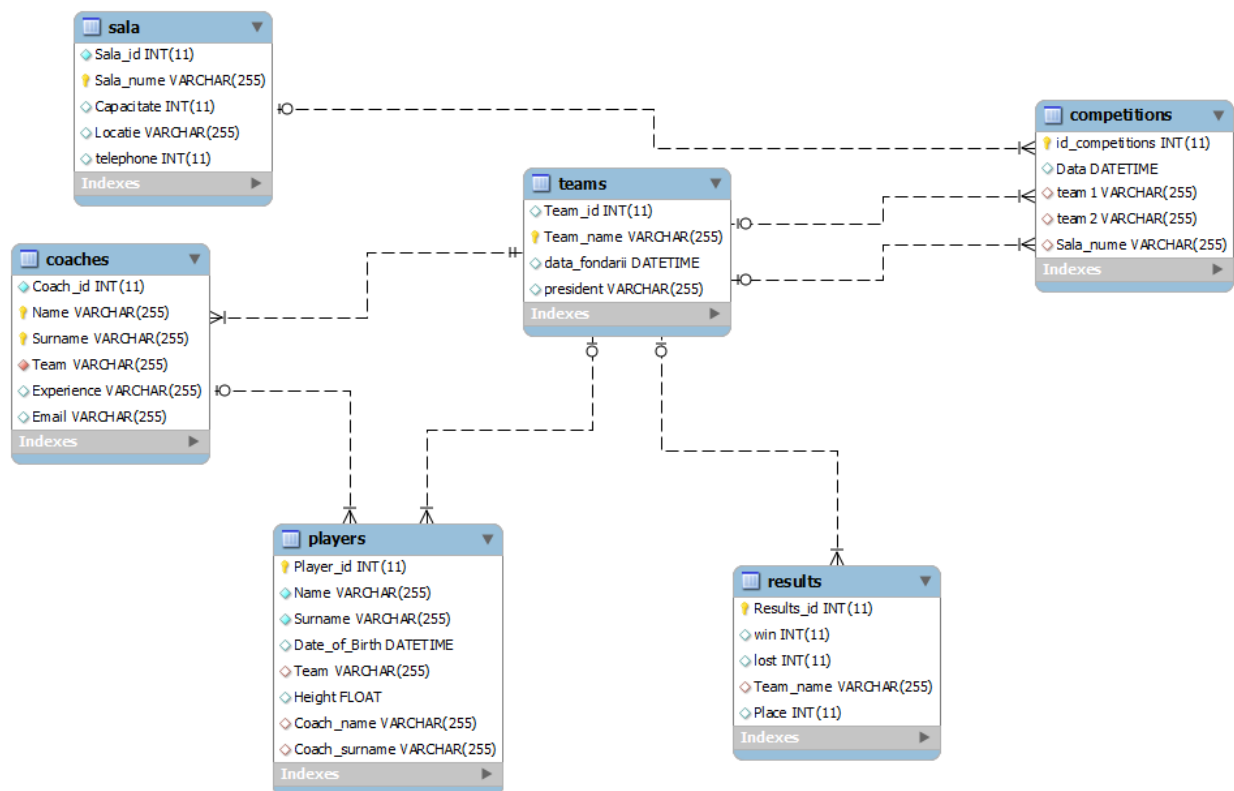
Project-Databases

Create a small website, which communicate with a database, written in HTML+PHP.

Requirements:

- a database containing at least 4 tables
- insert, update, delete and select (search) operations against the database
- an authentication form (in most cases).

I created a website about handball teams that is connected to a database with the name of handball_teams. The diagram of the data base is structured as following:



The code used to create each of the tables presented in the diagram is described below.

The table named 'coaches':

```
CREATE TABLE `coaches` (  
  `Coach_id` int(11) NOT NULL AUTO_INCREMENT,  
  `Name` varchar(255) NOT NULL DEFAULT "",  
  `Surname` varchar(255) NOT NULL DEFAULT "",  
  `Team` varchar(255) NOT NULL DEFAULT "",  
  `Experience` varchar(255) DEFAULT NULL,  
  `Email` varchar(255) DEFAULT NULL,  
  PRIMARY KEY (`Name`,`Surname`),  
  KEY `Team` (`Team`),  
  KEY `Coach_id` (`Coach_id`),  
  CONSTRAINT `coaches_ibfk_1` FOREIGN KEY (`Team`) REFERENCES `teams`  
  (`Team_name`)  
  ) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=latin1$$
```

The table named 'competitions':

```
CREATE TABLE `competitions` (  
  `id_competitions` int(11) NOT NULL AUTO_INCREMENT,  
  `Data` datetime DEFAULT NULL,  
  `team1` varchar(255) DEFAULT NULL,  
  `team2` varchar(255) DEFAULT NULL,  
  `Sala_num` varchar(255) DEFAULT NULL,  
  PRIMARY KEY (`id_competitions`),  
  KEY `team1` (`team1`),
```

```

KEY `team2` (`team2`),
KEY `Sala_num` (`Sala_num`),
CONSTRAINT `competitions_ibfk_1` FOREIGN KEY (`team1`) REFERENCES `teams`
(`Team_name`),
CONSTRAINT `competitions_ibfk_2` FOREIGN KEY (`team2`) REFERENCES `teams`
(`Team_name`),
CONSTRAINT `competitions_ibfk_3` FOREIGN KEY (`Sala_num`) REFERENCES
`sala` (`Sala_num`)
) ENGINE=InnoDB AUTO_INCREMENT=14 DEFAULT CHARSET=latin1$$

```

The table named 'players':

```

CREATE TABLE `players` (
  `Player_id` int(11) NOT NULL AUTO_INCREMENT,
  `Name` varchar(255) NOT NULL,
  `Surname` varchar(255) NOT NULL,
  `Date_of_Birth` datetime DEFAULT NULL,
  `Team` varchar(255) DEFAULT NULL,
  `Height` float DEFAULT NULL,
  `Coach_name` varchar(255) DEFAULT NULL,
  `Coach_surname` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`Player_id`),
  KEY `Team` (`Team`),
  KEY `players_ibfk_2` (`Coach_name`,`Coach_surname`),
  CONSTRAINT `players_ibfk_1` FOREIGN KEY (`Team`) REFERENCES `teams`
(`Team_name`),
  CONSTRAINT `players_ibfk_2` FOREIGN KEY (`Coach_name`,`Coach_surname`)
REFERENCES `coaches` (`Name`,`Surname`)
) ENGINE=InnoDB AUTO_INCREMENT=23 DEFAULT CHARSET=latin1$$

```

The table named 'results':

```
CREATE TABLE `results` (  
  `Results_id` int(11) NOT NULL AUTO_INCREMENT,  
  `win` int(11) DEFAULT NULL,  
  `lost` int(11) DEFAULT NULL,  
  `Team_name` varchar(255) DEFAULT NULL,  
  `Place` int(11) DEFAULT NULL,  
  PRIMARY KEY (`Results_id`),  
  KEY `Team_name` (`Team_name`),  
  CONSTRAINT `results_ibfk_1` FOREIGN KEY (`Team_name`) REFERENCES `teams`  
  (`Team_name`)  
  ) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=latin1$$
```

The table named 'sala':

```
CREATE TABLE `sala` (  
  `Sala_id` int(11) NOT NULL AUTO_INCREMENT,  
  `Sala_num` varchar(255) NOT NULL DEFAULT "",  
  `Capacitate` int(11) DEFAULT NULL,  
  `Locatie` varchar(255) DEFAULT NULL,  
  `telephone` int(11) DEFAULT NULL,  
  PRIMARY KEY (`Sala_num`),  
  KEY `Sala_id` (`Sala_id`)  
  ) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=latin1$$
```

The table named 'teams':

```
CREATE TABLE `teams` (  
  `Team_id` int(11) DEFAULT NULL,  
  `Team_name` varchar(255) NOT NULL DEFAULT "",
```

```

`data_fondarii` datetime DEFAULT NULL,
`president` varchar(255) DEFAULT NULL,
PRIMARY KEY (`Team_name`),
KEY `Team_id` (`Team_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

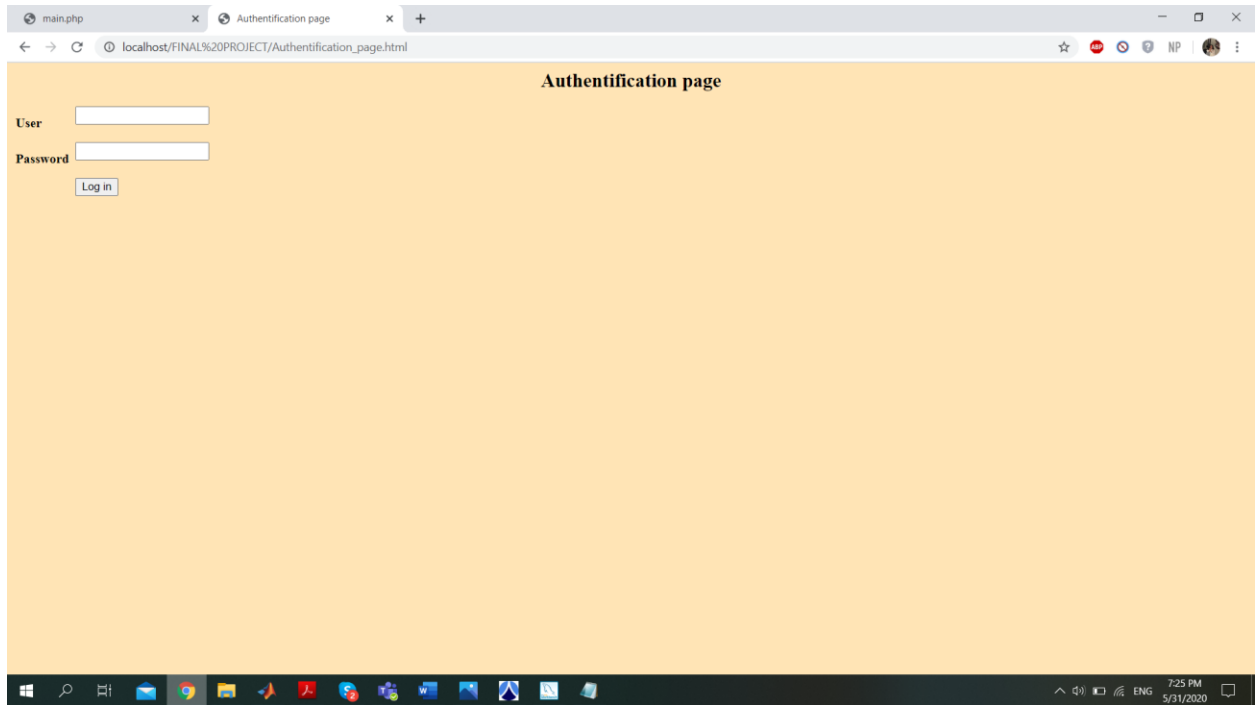
```

The website is structured in 3 frames. In order to access the main page which contains the frames, I created a login page, which allows the user to reach the main page through an id and a password provided in a php file. The php code for the authentication page is the following one:

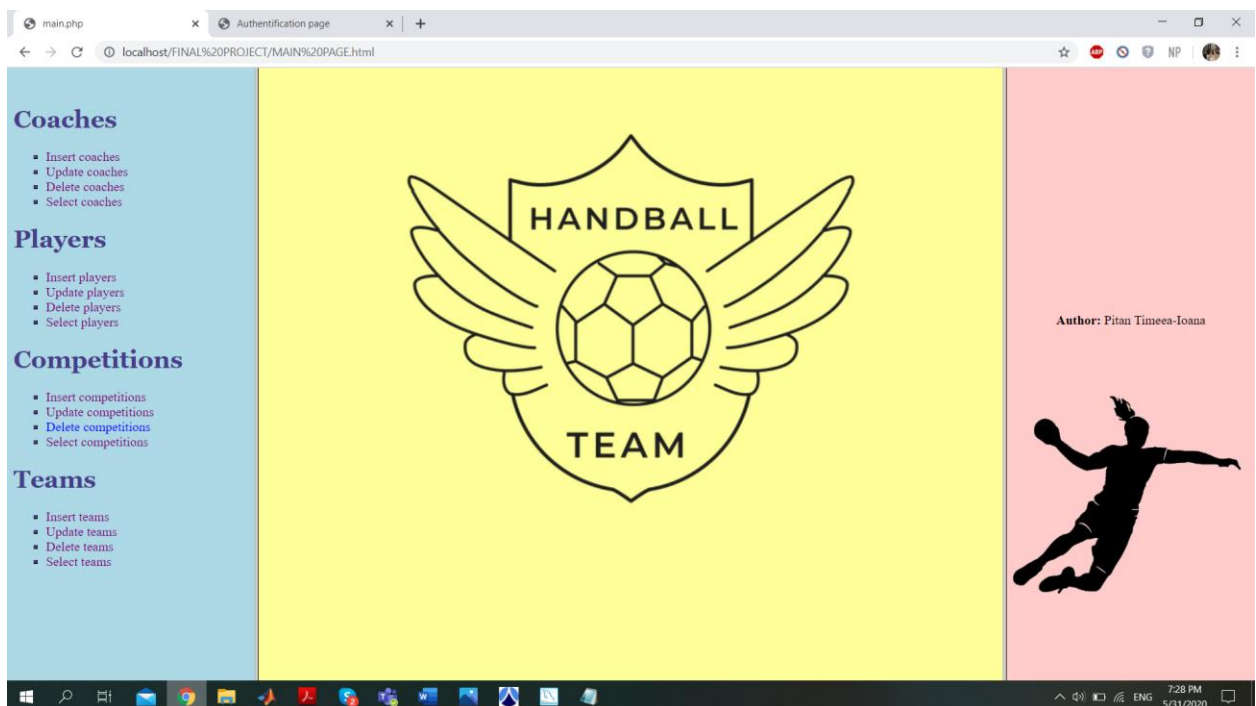
```

<?php
$user=$_POST["user_name"];
$password=$_POST["password"];
if($user=="Dan Buta" && $password=="coach1")
    header("Location: MAIN PAGE.html");
else if($user=="Matei Damian" && $password=="coach2")
    header("Location: MAIN PAGE.html");
else if($user=="Dan Siterli" && $password=="coach3")
    header("Location: MAIN PAGE.html");
else if($user=="Elena Mitrache" && $password=="coach4")
    header("Location: MAIN PAGE.html");
else{
    echo "Wrong login information<br><br>";
    echo '<input type=button value="Authentification page"
    onclick="history.back()"></input>';
}
?>

```



In the left frame there are 4 functions applied repeatedly on each of the tables contained in the database: insert, update, delete select. The results of each of the operations computed is shown in the middle frame and in the right frame I displayed my name and a picture relevant to the subject the project is about.



For example, for the operation Insert coaches included in the Coaches part, the website displays the following fields to be filled up.

The screenshot shows a web browser window with the URL `localhost/FINAL%20PROJECT/MAIN%20PAGE.html`. The page has a light blue sidebar on the left with navigation links for Coaches, Players, Competitions, and Teams. The main content area is yellow and contains a form titled "Insert a coach." with the following fields: Name, Surname, Team (a dropdown menu), Experience, and Email. A "Submit" button is at the bottom of the form. On the right side of the page, there is a pink vertical bar with the text "Author: Pitan Timeea-Ioana" and a silhouette of a basketball player.

Coaches

- Insert coaches
- Update coaches
- Delete coaches
- Select coaches

Players

- Insert players
- Update players
- Delete players
- Select players

Competitions

- Insert competitions
- Update competitions
- Delete competitions
- Select competitions

Teams

- Insert teams
- Update teams
- Delete teams
- Select teams

Insert a coach.

Name:

Surname:

Team:

Experience:

Email:

Author: Pitan Timeea-Ioana

The screenshot shows the same web browser window after the form has been submitted. The form fields are now populated with the following data: Name: Ana, Surname: Tanase, Team: Sibiu, Experience: 10 years, and Email: ana.tanase@gmail.com. Below the form, a table displays the inserted data. A message "Insert successful!" is shown below the table. The rest of the page layout remains the same.

Name: Ana
Surname: Tanase
Team: Sibiu
Experience: 10 years
Email: ana.tanase@gmail.com

Name	Surname	Team	Experience	Email
Ana	Tanase	Sibiu	10 years	ana.tanase@gmail.com

Insert successful!

Author: Pitan Timeea-Ioana

After the data is registered in the data base, the message show above appears along with a table that shows us the data introduced.

All these operations were implemented in php files and the interface of the website was created with html codes. A relevant example of one of the operations included in the website is structured below:

[illegible]


```

<td valign="middle"><b>Team:&nbsp;</b></td>
<td valign="middle"><select name="team">
<option name="sibiu" value="Sibiu">Sibiu</option>
<option name="timisoara" value="Timisoara">Timisoara</option>
<option name="baia mare" value="Baia Mare">Baia Mare</option>
<option name="petrosani" value="Petrosani">Petrosani</option>
</select><br><br></td>
</tr>
<tr>
<td><input type="submit" name="OK" value="Submit"></input></td>
</tr>
</table>
</form>
</body>
</html>

```

Also, the php file that created the connection between the interface of the website and the database:

```

<html>
<head>
<title>Delete coaches</title>
<link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body id="middle_frame">
<?php
$name=$_POST["name"];

```

```
$surname=$_POST["surname"];  
$team=$_POST["team"];  
echo("Name: ".$name."<br>");  
echo("Surname: ".$surname."<br>");  
echo("Team: ".$team."<br>");
```

```
$ConnLink=mysql_connect("localhost","root","") or die ("Connection  
failed");
```

```
$database=mysql_select_db("handball_team") or die ("Database selection  
failed");
```

```
$q3="Delete from coaches WHERE Name='$name' AND  
Surname='$surname' AND Team='$team';
```

```
mysql_query($q3) or die ("Delete error");
```

```
echo("Delete successful!");
```

```
?>
```

```
</body>
```

```
</html>
```