

Zospital Istanbul

CS306 Group Project

Project Step 2

Hüseyin Alper Karadeniz (28029)

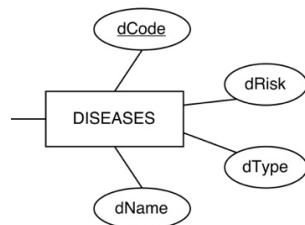
Enis Mert Kuzu (28174)

Mehmet Eren Karabulut (28203)

Emirhan Özdemir (28293)

First of all, by using MySQL queries on our localhost in the phpMyAdmin panel, we created Diseases table with its attributes and as an example, inserted 15 diseases.

Diseases table has attributes as follows:

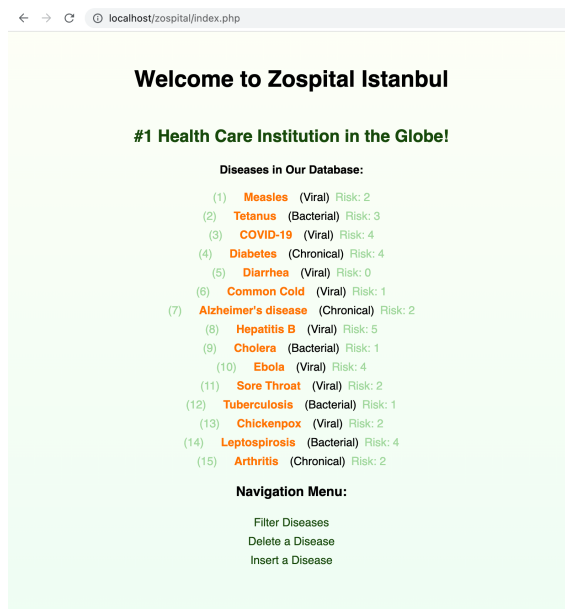


MySQL codes we used on localhost shown below:

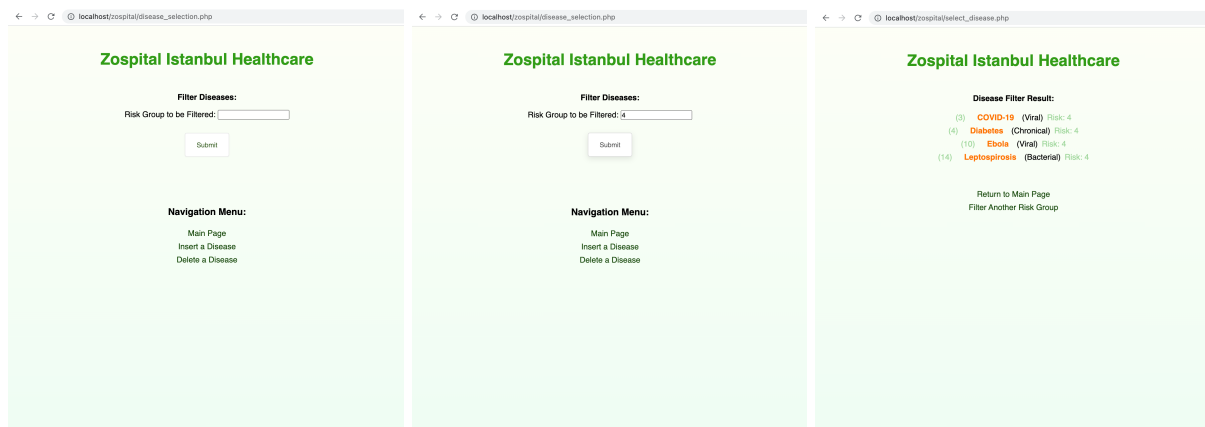
```
CREATE TABLE Diseases (  
    dCode INTEGER AUTO_INCREMENT NOT NULL,  
    dName CHAR(25) NOT NULL,  
    dRisk CHAR(1),  
    dType CHAR(20),  
    PRIMARY KEY(dCode)  
);  
  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Measles", "2", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Tetanus", "3", "Bacterial");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("COVID-19", "4", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Diabetes", "4", "Chronical");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Diarrhea", "0", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Common Cold", "1", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Alzheimer's disease", "2", "Chronical");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Hepatitis B", "5", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Cholera", "1", "Bacterial");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Ebola", "4", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Sore Throat", "2", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Tuberculosis", "1", "Bacterial");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Chickenpox", "2", "Viral");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Leptospirosis", "4", "Bacterial");  
INSERT INTO Diseases(dName, dRisk, dType) VALUES("Arthritis", "2", "Chronical");
```

WEB Interface: We implemented a web interface panel by using PHP, MySQL, HTML, and CSS. In our interface, we basically have four main pages: main page, selection (filtering) page, insertion page, deletion page.

1) Main Page: This page shows all diseases in our database with their details, also have navigation buttons for selection, insertion, and deletion pages.



2) Selection (Filtering) Page: This page gets a disease risk group category to be filtered from the database, and after running a query on the database, it shows the filtering results on a result page.



3) Insertion Page: This page inserts a new disease into the database by getting the necessary inputs (name, type, and risk group of the disease) from the user; after insertion operation, it shows the result of the operation (successful, or not).

Zospital Istanbul Healthcare

Insert a Disease:

Disease Name:

Disease Type:

Disease Risk:

Navigation Menu:

[Main Page](#)

[Filter Diseases](#)

[Delete a Disease](#)

Disease Insertion Result:

Success

[Return to Main Page](#)

[Insert Another Disease](#)

4) Deletion Page: This page deletes a disease from the database according to the selection of the user; after deletion operation, it also shows the result of the operation.

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Delete a Disease:

✓ Measles (Viral) - Risk: 2

Tetanus (Bacterial) - Risk: 3

COVID-19 (Viral) - Risk: 4

Diabetes (Chronic) - Risk: 4

Diarrhea (Viral) - Risk: 0

Common Cold (Viral) - Risk: 1

Alzheimer's disease (Chronical) - Risk: 2

Hepatitis B (Viral) - Risk: 5

Cholera (Bacterial) - Risk: 1

Ebola (Viral) - Risk: 4

Sore Throat (Viral) - Risk: 2

Tuberculosis (Bacterial) - Risk: 1

Chickenpox (Viral) - Risk: 2

Leptospirosis (Bacterial) - Risk: 4

Arthritis (Chronical) - Risk: 2

Meningitis (Bacterial) - Risk: 2

Delete a Disease:

Hepatitis B (Viral) - Risk: 5

Navigation Menu:

[Main Page](#)

[Filter Diseases](#)

[Insert a Disease](#)

Disease Deletion Result:

Success

[Return to Main Page](#)

[Delete Another Disease](#)

After all of these operations, the data in our database becomes as follows:

Welcome to Zospital Istanbul

#1 Health Care Institution in the Globe!

Diseases in Our Database:

- (1) **Measles** (Viral) Risk: 2
- (2) **Tetanus** (Bacterial) Risk: 3
- (3) **COVID-19** (Viral) Risk: 4
- (4) **Diabetes** (Chronical) Risk: 4
- (5) **Diarrhea** (Viral) Risk: 0
- (6) **Common Cold** (Viral) Risk: 1
- (7) **Alzheimer's disease** (Chronical) Risk: 2
- (8) **Cholera** (Bacterial) Risk: 1
- (9) **Ebola** (Viral) Risk: 4
- (10) **Sore Throat** (Viral) Risk: 2
- (11) **Tuberculosis** (Bacterial) Risk: 1
- (12) **Chickenpox** (Viral) Risk: 2
- (13) **Leptospirosis** (Bacterial) Risk: 4
- (14) **Arthritis** (Chronical) Risk: 2
- (15) **Meningitis** (Bacterial) Risk: 2
- (16) **Meningitis** (Bacterial) Risk: 2

Navigation Menu:

[Filter Diseases](#)

[Delete a Disease](#)

[Insert a Disease](#)

All the codes in the files we used in our database web interface as below:

config.php:

```
<?php
$db = mysqli_connect('localhost','root','','Zospital_Istanbul');

if($db->connect_errno > 0){
    die('Unable to connect to database [' . $db->connect_error . ']);
}

?>
```

index.php:

```
<head>
    <title>Zospital Istanbul</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <h1>Welcome to Zospital Istanbul</h1>
        <h2>#1 Health Care Institution in the Globe!</h2>
        <a><b>Diseases in Our Database:</b></a>
    </header>

    <div id="diseases">
        <?php

            include "config.php"; // Makes mysql connection

            $sql_statement = "SELECT * FROM Diseases";

            $result = mysqli_query($db, $sql_statement); // Executing query

            while($row = mysqli_fetch_assoc($result)) { // Iterating the result
                $dCode = $row['dCode'];
                $dName = $row['dName'];
                $dRisk = $row['dRisk'];
                $dType = $row['dType'];
                echo "<div class=\"disease\"><a class=\"dCode\">(" . $dCode . ")</a><b><a
class=\"dName\">\" . $dName . "</a></b><a class=\"dType\">(\" . $dType . ")</a><a
class=\"dRisk\">Risk: \" . $dRisk . "</a></div>";
            }

        ?>
    </div>

    <div id="navigator">
        <h3>Navigation Menu:</h3>
        <div><a href="disease_selection.php">Filter Diseases</a></div>
        <div><a href="disease_deletion.php">Delete a Disease</a></div>
        <div><a href="disease_insertion.php">Insert a Disease</a></div>
    </div>
</body>
```

disease_selection.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Filter Diseases:</b></a>
  </header>
  <div><form action="select_disease.php" method="POST">
    <div><a>Risk Group to be Filtered:
      <input type="text" id="dRisk" name="dRisk"></a></div>
      <input class="button" type="submit" value="Submit">
    </form></div>

<div id="navigator" style="padding-top:5em;">
  <h3>Navigation Menu:</h3>
  <div><a href="index.php">Main Page</a></div>
  <div><a href="disease_insertion.php">Insert a Disease</a></div>
  <div><a href="disease_deletion.php">Delete a Disease</a></div>
</div>
</body>
```

select_disease.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Disease Filter Result:</b></a>
  </header>
  <div>
    <?php

    include "config.php";

    $targetDRisk = $_POST['dRisk'];

    $sql_command = "SELECT dCode, dName, dType, dRisk FROM Diseases WHERE dRisk =
'$targetDRisk'";

    $myresult = mysqli_query($db, $sql_command);

    while($row = mysqli_fetch_assoc($myresult)) {
      $dCode = $row['dCode'];
      $dName = $row['dName'];
      $dRisk = $row['dRisk'];
      $dType = $row['dType'];
      echo "<div class=\"disease\"><a class=\"dCode\">(" . $dCode . ")</a><b><a
class=\"dName\">\" . $dName . \"</a></b><a class=\"dType\">(" . $dType . ")</a><a
class=\"dRisk\">Risk: \" . $dRisk . \"</a></div>";
    }

    ?>

    <div id="navigator" style="margin-top:3em;">
      <div><a href="index.php">Return to Main Page</a></div>
      <div><a href="disease_selection.php">Filter Another Risk Group</a></div>
    </div>
  </body>
```

disease_insertion.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Insert a Disease:</b></a>
  </header>
  <div><form action="insert_disease.php" method="POST">
    <div class="inputI"><a>Disease Name:
    <input type="text" id="dName" name="dName"></a></div>
    <div class="inputI"><a>Disease Type:
    <input type="text" id="dType" name="dType"></a></div>
    <div class="inputI"><a>Disease Risk:
    <input type="text" id="dRisk" name="dRisk"></a></div>
    <input class="button" type="submit" value="Submit">
  </form></div>

  <div id="navigator" style="padding-top:5em;">
    <h3>Navigation Menu:</h3>
    <div><a href="index.php">Main Page</a></div>
    <div><a href="disease_selection.php">Filter Diseases</a></div>
    <div><a href="disease_deletion.php">Delete a Disease</a></div>
  </div>
</body>
```

insert_disease.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Disease Insertion Result:</b></a>
  </header>
  <div>
    <?php

    include "config.php";

    if (!empty($_POST['dName'])){
      $diseaseName = $_POST['dName'];
      $diseaseType = $_POST['dType'];
      $diseaseRisk = $_POST['dRisk'];
      $sql_statement = "INSERT INTO Diseases(dName, dType, dRisk) VALUES ('$diseaseName',
'$diseaseType', '$diseaseRisk')";
      $result = mysqli_query($db, $sql_statement);
      if($result == 1) {
        echo "<a>Success</a>";
      } else {
        echo "<a>Error</a>";
      }
    } else {echo "<a>You did not enter the name of the disease.</a>";}

    ?>

    <div id="navigator" style="margin-top:3em;">
      <div><a href="index.php">Return to Main Page</a></div>
      <div><a href="disease_deletion.php">Insert Another Disease</a></div>
    </div>
  </body>
```

disease_deletion.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Delete a Disease:</b></a>
  </header>

  <?php

  include "config.php";

  ?>

  <form action="delete_disease.php" method="POST">
  <div><select name="ids">

  <?php

  $sql_command = "SELECT dCode, dName, dType, dRisk FROM Diseases";

  $myresult = mysqli_query($db, $sql_command);

  while($id_rows = mysqli_fetch_assoc($myresult))
  {
    $dCode = $id_rows['dCode'];
    $dName = $id_rows['dName'];
    $dType = $id_rows['dType'];
    $dRisk = $id_rows['dRisk'];
    echo "<option value=$dCode>". $dName . " (" . $dType . ") - Risk: " . $dRisk .
  </option>";
  }

  ?>

  </select></div>
  <div><button class="button">DELETE</button></div>
</form>

<div id="navigator" style="padding-top:5em;">
  <h3>Navigation Menu:</h3>
  <div><a href="index.php">Main Page</a></div>
  <div><a href="disease_selection.php">Filter Diseases</a></div>
  <div><a href="disease_insertion.php">Insert a Disease</a></div>
</div>
</body>
```

delete_disease.php:

```
<head>
  <title>Zospital Istanbul</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1><a href="index.php">Zospital Istanbul Healthcare</a></h1>
    <a><b>Disease Deletion Result:</b></a>
  </header>
  <div>
    <?php

    include "config.php";

    if(!empty($_POST['ids']))
    {
      $dCode = $_POST['ids'];
      $sql_statement = "DELETE FROM Diseases WHERE dCode = $dCode";
      $result = mysqli_query($db, $sql_statement);
      if($result == 1) {
        echo "<a>Success</a>";
      } else {
        echo "<a>Error</a>";
      }
    }

    ?>
  </div>

  <div id="navigator" style="margin-top:3em;">
  <div><a href="index.php">Return to Main Page</a></div>
  <div><a href="disease_deletion.php">Delete Another Disease</a></div>
  </div>
</body>
```

style.css:

```
* {
  padding: 0;
  margin: 0 auto;
  box-sizing: border-box;
  transition: 0.3s cubic-bezier(0, 0, 0.2, 1);
  font-family: 'Roboto', sans-serif;
}

html {
  background: linear-gradient(180deg, #fdfff7, #effef4);
  background-repeat: no-repeat;
}

body {
  text-align: center;
}

header {
  padding-bottom: 1em;
}

header h1 {
  padding: 1.5em;
}

header h1 a {
  text-decoration: none;
  color: #329c15;
}

header h2 {
  color: #174909;
  padding-bottom: 1em;
}
```



```

}

.disease {
    padding: 0.25em;
}

.disease:hover {
    transform: scale(1.1);
}

.dCode, .dRisk {
    color: #a0d89d;
    margin: 0.5em;
}

.dName {
    color: #ff7400;
    margin: 1em;
}

#navigator h3 {
    margin: 1em;
}

#navigator div {
    padding: 0.25em;
}

#navigator div a {
    text-decoration: none;
    color: #16490a;
}

.inputI {
    margin: 1em;
}

.button {
    margin-top: 2em;
    align-items: center;
    background-color: #FFFFFF;
    border: 1px solid rgba(0, 0, 0, 0.1);
    border-radius: 0.25rem;
    box-shadow: rgb(0 0 0 / 2%) 0 1px 3px 0;
    box-sizing: border-box;
    color: #204f04d9;
    cursor: pointer;
    display: inline-flex;
    justify-content: center;
    line-height: 1.25;
    min-height: 3rem;
    padding: calc(0.875rem - 1px) calc(1.5rem - 1px);
    text-decoration: none;
}

.button:hover, .button:focus {
    border-color: rgba(0, 0, 0, 0.15);
    box-shadow: rgba(0, 0, 0, 0.1) 0 4px 12px;
    color: rgba(0, 0, 0, 0.65);
}

.button:hover {
    transform: translateY(-1px);
}

.button:active {
    background-color: #F0F0F1;
    border-color: rgba(0, 0, 0, 0.15);
    box-shadow: rgba(0, 0, 0, 0.06) 0 2px 4px;
    color: rgba(0, 0, 0, 0.65);
    transform: translateY(0);
}

```