

# Create-Read-Update-Delete CRUD

## 1.Database table

```
1 CREATE TABLE `friends` (  
2 `id` INT NOT NULL AUTO_INCREMENT PRIMARY KEY ,  
3 `name` VARCHAR( 100 ) NOT NULL ,  
4 `email` VARCHAR( 100 ) NOT NULL ,  
5 `mobile` VARCHAR( 100 ) NOT NULL  
6 ) ENGINE = INNODB;
```

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## 2.Database Connecting

### database.php

```
1  <?php
2  ▼ class Database {
3      private $_host = 'localhost';
4      private $_username = 'linndows_user';
5      private $_password = 'g0@U1d78';
6      private $_database = 'linndows_learn';
7
8      protected $connection;
9
10     public function __construct()
11     ▼ {
12     ▼         if (!isset($this->connection)) {
13
14             $this->connection = new mysqli($this->_host,
15
16     ▼             if (!$this->connection) {
17                 echo 'Cannot connect to database server';
18                 exit;
19             }
20         }
21
22         return $this->connection;
23     }
24 }
25 ?>
```

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## 2.Database Connecting

### Crud.php

```
1 <?php
2 include_once 'database.php';
3 class Crud extends Database {
4     public function __construct() {
5         parent::__construct();
6     }
7     public function getData($query) {
8         $result = $this->connection->query($query);
9         if ($result == false) {
10             return false;
11         }
12         $rows = array();
13         while ($row = $result->fetch_assoc()) {
14             $rows[] = $row;
15         }
16         return $rows;
17     }
18     public function execute($query) {
19         $result = $this->connection->query($query);
20         if ($result == false) {
21             echo 'Error: cannot execute the command';
22             return false;
23         } else {
24             return true;
25         }
26     }
27     public function delete($nr, $table) {
28         $query = "DELETE FROM $table WHERE nr = $nr";
29         $result = $this->connection->query($query);
30         if ($result == false) {
31             echo 'Error: cannot delete nr ' . $nr . ' from table ' . $table;
32             return false;
33         } else {
34             return true;
35         }
36     }
37     public function escape_string($value) {
38         return $this->connection->real_escape_string($value);
39     }
40 }
41 ?>
```

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## 3.Landing Page – index.php

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>Index-php-Bootstrap</title>
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
8 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
9 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
10 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
11 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
12 </head>
13 <body>
14 <div class="container">
15 <h2> CRUD Friends index file </h2>
16 <p>My friends are below:</p>
17 <table class="table table-dark table-hover">
18 <thead>
19 <tr>
20 <th> Name </th>
21 <th> Email Address </th>
22 <th> Mobile Number </th>
23 </tr>
24 </thead>
25 <tbody>
26 <?php
27 include_once("db/Crud.php");
28 $crud = new Crud();
29 $result = $crud->getData("SELECT * FROM friends ORDER BY id DESC");
30 foreach ($result as $key => $row) {
31 echo "<tr><td>";
32 echo $row['id']. ". ". $row['name'];
33 echo "</td><td>";
34 echo $row['email']; echo "</td><td>"; echo $row['mobile']; echo "</td></tr>";
35 }
36 ?>
37 </tbody>
38 </table>
39 </div>
40 </body>
41 </html>
```

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## 4.Add "Create"

```
<h2>CRUD Friends Index File</h2>
<p> <a href="create.php"
class="btn btn-success"><sub>
<i class="material-icons">add_circle</i></sub>
<span class="lead"> Create</span></a></p>
<table class="table table-dark table-hover">
```

```
<th>Name</th>
<th>Email Address</th>
<th>Mobile Number</th>
<th>Action</th>
```

add ACTION

```
echo '<td>
<a href="read.php?id='.$row['id'].' "
class="btn btn-info"><sub>
<i class="material-icons">format_color_text</i>
</sub><span class="lead"> Read</span></a></td>';
```

Add "Read"

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## 5. "Create" page - create.php

```
<div class="container">
  <div class="span10 offset1">
    <div class="row">
      <h3>Create a Friend</h3>
    </div>
    <form class="form-horizontal" action="create.php" method="post">
      <div class="control-group <?php echo !empty($nameError)?'error':'';?>">
        <label class="control-label">Name</label>
        <div class="controls">
          <input name="name" type="text" placeholder="Name" value="<?php echo !empty($name)?$name:'';?>">
          <?php if (!empty($nameError)): ?>
            <span class="help-inline"><?php echo $nameError;?></span>
          <?php endif; ?>
        </div>
      </div>
      <div class="control-group <?php echo !empty($emailError)?'error':'';?>">
        <label class="control-label">Email Address</label>
        <div class="controls">
          <input name="email" type="text" placeholder="Email Address" value="<?php echo !empty($email)?$email:'';?>">
          <?php if (!empty($emailError)): ?>
            <span class="help-inline"><?php echo $emailError;?></span>
          <?php endif; ?>
        </div>
      </div>
      <div class="control-group <?php echo !empty($mobileError)?'error':'';?>">
        <label class="control-label">Mobile Number</label>
        <div class="controls">
          <input name="mobile" type="text" placeholder="Mobile Number" value="<?php echo !empty($mobile)?$mobile:'';?>">
          <?php if (!empty($mobileError)): ?>
            <span class="help-inline"><?php echo $mobileError;?></span>
          <?php endif; ?>
        </div>
      </div>
      <div class="form-actions">
        <button type="submit" class="btn btn-success">Create</button>
        <a class="btn" href="index.php">Back</a>
      </div>
    </form>
  </div>
</div> <!-- /container -->
```

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## 5. "Create" page -

### Update create.php

Put the codes aside  
to the beginning  
of "create.php" file

```
1 <html>
2 <head></head>
3
4 <?php
5 //including database connection file
6 include_once("classes/Crud.php");
7 $crud = new Crud();
8 if(isset($_POST['Submit'])) {
9
10     $unu = $crud->escape_string($_POST['name']);
11     $doi = $crud->escape_string($_POST['email']);
12     $trei = $crud->escape_string($_POST['mobile']);
13     //insert data to database
14     $result = $crud->execute("INSERT INTO `friends` (`name`, `email`, `mobile`)
15     VALUES ('$unu','$doi','$trei')");
16 }
17
18
19 <body class="w3-light-grey"><div>Gata se Inregistreaza!</div>
20 <!-- jQuery library -->
21 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
22
23 <!-- Latest compiled JavaScript -->
24 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
25 <script>$(document).ready(function () {
26     // Handler for .ready() called.
27     window.setTimeout(function () {
28         top.location.href = "index.php";
29     }, 300);
30 });</script>
31 <script>
32     jQuery(document).ready(function( $ ) {
33         $('#counter').counterUp({
34             delay: 10,
35             time: 300
36         });
37     });
38 </script>
39 </body>
40 </html>
```