**CONNECTION**

Connection.php

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "block2-back\_end";

$connection = new mysqli($servername, $username, $password, $dbname);

if ($connection->connect\_error) {

  die("Connection failed: " . $connection->connect\_error);

}

?>

**VALIDATION**

validation.php

<?php

function validation\_PHP($data\_validation) {

  $data\_validation = trim($data\_validation);

  $data\_validation = stripslashes($data\_validation);

  $data\_validation = htmlspecialchars($data\_validation);

  return $data\_validation;

}

?>

**ASTRONAUT SECTION**

astronaut\_db.php / astronaut\_insert\_db.php

<?php

include 'connection.php';

include 'validation.php';

if (isset($\_POST['astronaut'])) {

  $astrounaut\_name  = validation\_PHP($\_POST["astrounaut\_name"]);

  $astronaut\_number\_mission  = validation\_PHP($\_POST["astronaut\_number\_mission"]);

  $sql = "INSERT INTO astronaut (name, no\_missions) VALUES ('$astrounaut\_name','$astronaut\_number\_mission')";

  if ($connection->query($sql) === TRUE) {

    header("location:astronaut\_insert\_sucess\_db.php");

  } else {

    echo "Error: " . $sql . "<br>" . $connection->error;

  }

  $connection->close();

}

?>

Astronaut\_delete\_db.php

<?php

include "connection.php";

$id = $\_GET['id'];

$delete = "DELETE FROM astronaut WHERE astronaut\_id=$id";

    if ($connection->query($delete) === TRUE) {

        header("location:astronaut\_update\_db.php");

      } else {

        echo "Error: " . $delete . "<br>" . $connection->error;

      }

      $connection->close();

    exit;

astronaut\_select\_db.php / astronaut\_update\_db.php

    <?php

    include 'connection.php';

    $sql = "SELECT astronaut\_id, name, no\_missions FROM astronaut ";

    $result = $connection->query($sql);

    if ($result->num\_rows > 0) {

      while ($row = $result->fetch\_assoc()) {

        echo "<tr>";

        echo "<td>" . $row["astronaut\_id"] . "<td>" . $row["name"] . "<td>" . " " . $row["no\_missions"]. "<td>". "<a href='astronaut\_update\_db\_form.php?id=$row[astronaut\_id]'>". "edit"?>

        <td><a href="astronaut\_delete\_db.php?id=<?php echo $row["astronaut\_id"]?>" onclick="return confirm('Are you sure?')">Delete</a></td>

    <?php

Astronaut\_update\_db\_form.php

<?php

include "connection.php";

$id = $\_GET['id'];

$result = mysqli\_query($connection, "select \* from astronaut where astronaut\_id='$id'");

$data = mysqli\_fetch\_array($result);

if(isset($\_POST['update']))

{

    $full\_name = validation\_PHP($\_POST['astrounaut\_name']);

    $number\_Mission = validation\_PHP($\_POST['astronaut\_number\_mission']);

  $edit = "UPDATE astronaut SET name='$full\_name', no\_missions='$number\_Mission' where astronaut\_id='$id'";

    if ($connection->query($edit) === TRUE) {

        header("location:astronaut\_update\_db.php");

      } else {

        echo "Error: " . $sql . "<br>" . $connection->error;

      }

      $connection->close();

      exit;

    }

?>

<div class="container">

    <form method="post" action="">

      <div class="form-group">

        <label for="astrounaut\_name">Full Name:</label>

        <input type="text" class="form-control" name="astrounaut\_name" value="<?php echo $data['name'] ?>" placeholder="Enter Full Name" Required>

      </div>

      <div class="form-group">

        <label for="astronaut\_number\_mission">Number Of Missions:</label>

        <input type="number" class="form-control" name="astronaut\_number\_mission" value="<?php echo $data['no\_missions'] ?>" placeholder="Enter missions" Required>

      </div>

      <input type="submit" name="update" value="Update" class="btn btn-default"></input>

      <input type="button" value="Go back!" onclick="history.back()" class="btn btn-default"></input>

    </form>

  </div>

**ATTENDS SECTION**

attends\_db.php / attends\_insert\_db.php

<form action="attends\_insert\_sucess\_db.php" method="post"><b>Mission List:</b>

                      <select name="attends\_mission\_name" class="form-control form-control-lg" aria-label=".form-select-lg example">

                          <?php

                            include 'connection.php';

                            $sqlGetMission = "SELECT \* FROM mission";

                            $rows = $connection->query($sqlGetMission);

                            echo "<option selected> -- Select a Mission -- </option>";

                            foreach ($rows as $row) {

                            $value  = $row['mission\_id'];

                            echo "<option value=$value>".$value ." - ". $row['destination']."</option>";

                            }

                            echo "</select>";

                          ?>

                        <b>Astronaut List:</b>

                        <select name="attends\_astronaut\_id" class="form-control form-control-lg" aria-label=".form-select-lg example">

                          <?php

                            include 'connection.php';

                            $sqlGetastronaut = "SELECT \* FROM astronaut";

                            $rows = $connection->query($sqlGetastronaut);

                            echo "<option selected> -- Select an Astronaut -- </option>";

                            foreach ($rows as $row) {

                            $value  = $row['astronaut\_id'];

                            echo "<option value=$value>".$value ." - ". $row['name']."</option>";

                            }

                            echo "</select>";

                          ?>

                            <br>

                            <div>

                                <button type="submit" name="save\_select" class="btn btn-default">ADD NEW ATTEND</button>

                            </div>

          </form>

attends\_delete\_db.php

<?php

include "connection.php";

$id = $\_GET['id'];

$mission = $\_GET['mission'];

$astronaut = $\_GET['astronaut'];

$delete = "DELETE FROM attends WHERE astronaut\_id=$id and mission\_id=$mission";

$update\_mission\_crew\_size = "UPDATE mission SET crew\_size=crew\_size - 1 where mission\_id='$mission'";

$update\_astronaut\_no\_mission = "UPDATE astronaut SET no\_missions=no\_missions - 1 where astronaut\_id='$astronaut'";

    if ($connection->query($delete) === TRUE) {

      $connection->query($update\_mission\_crew\_size);

      $connection->query($update\_astronaut\_no\_mission);

      header("location:attends\_update\_db.php");

      } else {

        echo "Error: " . $delete . "<br>" . $connection->error;

      }

      $connection->close();

    exit;

?>

attends\_select\_db.php

            <?php

    include 'connection.php';

    $sql = "SELECT astronaut\_id, mission\_id FROM attends ";

    $result = $connection->query($sql);

    if ($result->num\_rows > 0) {

      while ($attend\_array = $result->fetch\_assoc()) {

        $defaultAstronautId = $attend\_array['astronaut\_id'];

        $astronaut\_query = "SELECT \* FROM astronaut WHERE astronaut\_id='$defaultAstronautId' ";

        $astronaut\_request = $connection->query($astronaut\_query);

        $astronaut\_array = $astronaut\_request->fetch\_assoc();

        $defaultMissionId = $attend\_array['mission\_id'];

        $mission\_query = "SELECT \* FROM mission WHERE mission\_id='$defaultMissionId' ";

        $mission\_request = $connection->query($mission\_query);

        $mission\_array = $mission\_request->fetch\_assoc();

        echo "<tr>";

        echo "<td>" . $attend\_array["astronaut\_id"] . "<td>" . $astronaut\_array["name"] . "<td>" . " " . $attend\_array["mission\_id"]. "<td>" . $mission\_array["destination"];

      }

    }

    $connection->close();

    ?>

attends\_update\_db\_form.php

    <?php

    include 'connection.php';

    $sql = "SELECT astronaut\_id, mission\_id FROM attends ";

    $result = $connection->query($sql);

    if ($result->num\_rows > 0) {

      while ($attend\_array = $result->fetch\_assoc()) {

        $defaultAstronautId = $attend\_array['astronaut\_id'];

        $astronaut\_query = "SELECT \* FROM astronaut WHERE astronaut\_id='$defaultAstronautId' ";

        $astronaut\_request = $connection->query($astronaut\_query);

        $astronaut\_array = $astronaut\_request->fetch\_assoc();

        $defaultMissionId = $attend\_array['mission\_id'];

        $mission\_query = "SELECT \* FROM mission WHERE mission\_id='$defaultMissionId' ";

        $mission\_request = $connection->query($mission\_query);

        $mission\_array = $mission\_request->fetch\_assoc();

        echo "<tr>";

        echo "<td>" . $attend\_array["astronaut\_id"] . "<td>" . $astronaut\_array["name"] . "<td>" . " " . $attend\_array["mission\_id"]. "<td>" . $mission\_array["destination"];?>

        <td><a href="attends\_delete\_db.php?id=<?php echo $attend\_array["astronaut\_id"]?>&mission=<?php echo $attend\_array["mission\_id"]?>&astronaut=<?php echo $attend\_array["astronaut\_id"]?>" onclick="return confirm('Are you sure?')">Delete</a></td>

        <!-- <td><a href="attends\_delete\_db.php?id=<?php echo $attend\_array["astronaut\_id"]?>" onclick="return confirm('Are you sure?')">Delete</a></td> -->

    <?php

      }

    }

    $connection->close();

    ?>

**MISSION SECTION**

mission\_db.php / mission \_insert\_db.php

<?php

include 'connection.php';

if (isset($\_POST['mission'])) {

  $mission\_destination  = validation\_PHP($\_POST["mission\_destination"]);

  $mission\_launch\_date  = validation\_PHP($\_POST["mission\_launch\_date"]);

  $mission\_type  = validation\_PHP($\_POST["mission\_type"]);

  $mission\_crew\_size  = validation\_PHP($\_POST["mission\_crew\_size"]);

  $mission\_target\_id  = validation\_PHP($\_POST["mission\_target\_id"]);

  $sql = "INSERT INTO mission (destination, launch\_date, type, crew\_size, target\_id ) VALUES ('$mission\_destination','$mission\_launch\_date', '$mission\_type', '$mission\_crew\_size', '$mission\_target\_id')";

  if ($connection->query($sql) === TRUE) {

    header("location:mission\_insert\_sucess\_db.php");

  } else {

    echo "Error: " . $sql . "<br>" . $connection->error;

  }

  $connection->close();

}

?>

mission \_delete\_db.php

<?php

include "connection.php";

$id = $\_GET['id'];

$delete = "DELETE FROM mission WHERE mission\_id=$id";

    if ($connection->query($delete) === TRUE) {

        header("location:mission\_update\_db.php");

      } else {

        echo "Error: " . $delete . "<br>" . $connection->error;

      }

      $connection->close();

    exit;

?>

mission \_select\_db.php / mission \_update\_db.php

    <?php

    include 'connection.php';

    $sql = "SELECT mission\_id, destination, launch\_date, type, crew\_size, target\_id FROM mission ";

    $result = $connection->query($sql);

    if ($result->num\_rows > 0) {

      while ($row = $result->fetch\_assoc()) {

        echo "<tr>";

        echo "<td>" . $row["mission\_id"] . "<td>" . $row["destination"] . "<td>" . " " . $row["launch\_date"]. "<td>" . " " . $row["type"]. "<td>" . " " . $row["crew\_size"]. "<td>" . " " . $row["target\_id"]."<td>". "<a href='mission\_update\_db\_form.php?id=$row[mission\_id]'>". "edit"?>

        <td><a href="mission\_delete\_db.php?id=<?php echo $row["mission\_id"]?>" onclick="return confirm('Are you sure?')">Delete</a></td>

    <?php

      }

    }

    $connection->close();

    ?>

mission \_update\_db\_form.php

<?php

include "connection.php";

$id = $\_GET['id'];

$result = mysqli\_query($connection, "SELECT \* FROM mission WHERE mission\_id='$id'");

$data = mysqli\_fetch\_array($result);

if(isset($\_POST['update']))

{

    $destination = validation\_PHP($\_POST['mission\_destination']);

    $launch\_date = validation\_PHP($\_POST['mission\_launch\_date']);

    $type = validation\_PHP($\_POST['mission\_type']);

    $crew\_size = validation\_PHP($\_POST['mission\_crew\_size']);

    $target\_id = validation\_PHP($\_POST['mission\_target\_id']);

    $edit = "UPDATE mission SET destination='$destination', launch\_date='$launch\_date', type='$type', crew\_size='$crew\_size', target\_id='$target\_id' where mission\_id='$id'";

    if ($connection->query($edit) === TRUE) {

       header("location:mission\_update\_db.php");

      } else {

        echo "Error: " . $sql . "<br>" . $connection->error;

      }

      $connection->close();

      exit;

    }

?>

**TARGETS SECTION**

targets\_db.php / attends\_insert\_db.php

<?php

include 'connection.php';

if (isset($\_POST['target'])) {

  $target\_name  = validation\_PHP($\_POST["target\_name"]);

  $target\_first\_mission  = validation\_PHP($\_POST["target\_first\_mission"]);

  $target\_type  = validation\_PHP($\_POST["target\_type"]);

  $target\_number\_missions  = validation\_PHP($\_POST["target\_number\_missions"]);

  $sql = "INSERT INTO targets (name, first\_mission, type, no\_mission ) VALUES ('$target\_name','$target\_first\_mission','$target\_type', '$target\_number\_missions')";

  if ($connection->query($sql) === TRUE) {

    header("location:targets\_insert\_sucess\_db.php");

  } else {

    echo "Error: " . $sql . "<br>" . $connection->error;

  }

  $connection->close();

}

  ?>

targets \_delete\_db.php

<?php

include "connection.php";

$id = $\_GET['id'];

$delete = "DELETE FROM targets WHERE target\_id=$id";

    if ($connection->query($delete) === TRUE) {

        header("location:targets\_update\_db.php");

      } else {

        echo "Error: " . $delete . "<br>" . $connection->error;

      }

      $connection->close();

    exit;

?>

targets \_select\_db.php / targets \_update\_db.php

            <?php

    include 'connection.php';

    $sql = "SELECT \* FROM targets ";

    $result = $connection->query($sql);

    if ($result->num\_rows > 0) {

      while ($row = $result->fetch\_assoc()) {

        echo "<tr>";

        echo "<td>" . $row["target\_id"] . "<td>" . $row["name"] . "<td>" . " " . $row["first\_mission"]. "<td>" . " " . $row["type"]. "<td>" . " " . $row["no\_mission"]. "<td>" . "<a href='targets\_update\_db\_form.php?id=$row[target\_id]'>". "edit"?>

        <td><a href="targets\_delete\_db.php?id=<?php echo $row["target\_id"]?>" onclick="return confirm('Are you sure?')">Delete</a></td>

        <?php

      }

    }

    $connection->close();

    ?>

targets \_update\_db\_form.php

<?php

include "connection.php";

$id = $\_GET['id'];

$result = mysqli\_query($connection, "select \* from targets where target\_id='$id'");

$data = mysqli\_fetch\_array($result);

if(isset($\_POST['update']))

{

  $target\_name  = validation\_PHP($\_POST["target\_name"]);

  $target\_first\_mission  = validation\_PHP($\_POST["target\_first\_mission"]);

  $target\_type  = validation\_PHP($\_POST["target\_type"]);

  $target\_number\_missions  = validation\_PHP($\_POST["target\_number\_missions"]);

  $edit = "UPDATE targets SET name='$target\_name', first\_mission='$target\_first\_mission', type='$target\_type', no\_mission='$target\_number\_missions' where target\_id='$id'";

    if ($connection->query($edit) === TRUE) {

        header("location:targets\_update\_db.php");

      } else {

        echo "Error: " . $edit . "<br>" . $connection->error;

      }

      $connection->close();

      exit;

    }

?>

**GENERAL LAYOUT (HTML, CSS, JAVASCRIPT)**

<!DOCTYPE html>

<html lang="en">

<head>

  <title>SPACE PROJECT</title>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

  <div class="container">

    <h3 style="text-align:center;"></h3>

    <br>

    <br>

    <ul class="nav nav-tabs">

      <li><a href="index.html">Home</a></li>

      <li class="active"><a href="astronaut\_db.php">1 - Astrounaut</a></li>

      <li><a href="targets\_db.php">2 - Targets</a></li>

      <li><a href="mission\_db.php">3 - Missions</a></li>

      <li><a href="attends\_db.php">4 - Attends</a></li>

    </ul>

    <br>

    <br>

  </div>

  <div class="container" style="text-align:center;">

    <br>

    <br>

    <h6 style="text-align:center;">click on one of the options bellow</h6>

    <a href='astronaut\_insert\_db.php' type="button" class="btn btn-lg btn-default btn-success">OPTION ONE</a>

    <a href='astronaut\_select\_db.php' type="button" class="btn btn-default btn-primary"> OPTION TWO </a>

    <a href='astronaut\_update\_db.php' type="button" class="btn btn-default btn-danger"> OPTION THREE </a>

  </div  <br>

  <br>

  <br>

  <div class="container">

  <h2 style="text-align:center;">SECTION INFORMATION</h2>

    <form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]);?>">

      <div class="form-group">

        <label for="astrounaut\_name">field 1:</label>

        <input type="text" class="form-control" name="astrounaut\_name" placeholder="Enter Astronaut Full Name" required>

      </div>

      <div class="form-group">

        <label for="astronaut\_number\_mission">field 2:</label>

        <input type="number" class="form-control" name="astronaut\_number\_mission" placeholder="Enter how many mission" required>

      </div>

      <input type="submit" name="astronaut" value="ADD A NEW ASTRONAUT" class="btn btn-default"></input>

    </form>

  </div>

</body>

</html>