

FRONT END CODE BLOCK:

```
C: > xampp >htdocs > 🐞 connection.php
1  <?php
2
3  // $serverName = "192.168.64.2";
4  $serverName = "localhost";
5  $userName = "";
6  $password = ""; // root :avi ;
7  $dbName = "Project";
8
9  $conn = mysqli_connect($serverName, $userName, $password, $dbName);
10
11 // to test a established connection
12 //
13 if($conn){
14 echo "You are connected with your database";
15 }
16 else
17 {
18 // you only want to display message
19 echo "Your are NOT connected (Failed) to your database";
20
21 // you want to display error as well, use error function of mysql.
22 die("Your connection is FAILED because".mysqli_connect_error());
23 }
24
25 ?>
26
```

INSERT OPERATIONS:

C: > xampp > htdocs > 🐞 insertOperation.php

```
1  <?php
2
3  include("connection.php");
4
5  // To write a query in php environment
6
7  $query ="INSERT INTO attacks (attack_id, attack_type, attack_level) VALUES
8  (1, 'DDos', 10),
9  (2, 'SQL Injection', 8),
10 (3, 'Cross-site Scripting', 7)";
11
12 // To execute a query in PHP environment
13 $data = mysqli_query($conn, $query);
14
15 // To display a message
16 if($data)
17 {
18     echo "Query Ok! One record appended into your database";
19 }
20
21 ?>
22 🐞
23 |
```

C: > xampp > htdocs > 🐞 insertOperation.php

```
1  <?php
2
3  include("connection.php");
4
5  // To write a query in php environment
6
7  $query ="INSERT INTO hosts (host_id, src_host, dst_host) VALUES
8  (1, '192.168.1.1', '10.0.0.1'),
9  (2, '10.0.0.2', '192.168.1.2'),
10 (3, '172.16.0.1', '10.0.0.3'),
11 (5, '192.168.1.3', '10.0.0.5'),
12 (22, '10.0.0.1', '192.168.1.16'),
13 (35, '172.16.0.0', '10.0.0.8)";
14
15 // To execute a query in PHP environment
16 $data = mysqli_query($conn, $query);
17
18 // To display a message
19 if($data)
20 {
21     echo "Query Ok! One record appended into your database";
22 }
23
24 🐞
25 |
```

```

C: > xampp > htdocs > 🐞 insertOperation.php
1  <?php
2
3  include("connection.php");
4
5  // To write a query in php environment
6
7  $query = "INSERT INTO network (network_id, duration, protocol_type, attack_id, host_id_src, host_id_dst) VALUES
8  (1, 300, 'TCP', 1, 2, 3),
9  (2, 150, 'UDP', 2, 5, 22),
10 (3, 500, 'TCP', 3, 35, NULL)";
11
12 // To execute a query in PHP environment
13 $data = mysqli_query($conn, $query);
14
15 // To display a message
16 if($data) {
17     echo "Query Ok! Records appended into your database";
18 } else {
19     echo "Error: " . mysqli_error($conn);
20 }
21
22 🐞
23

```

OPERATION.PHP:

```

C: > xampp > htdocs > 🐞 operation (1).php
1  <?php
2
3  include("connection.php");
4  // if you don't want to see error on web page
5  error_reporting(0);
6  ?>
7  <!DOCTYPE html>
8  <html>
9  <head>
10 </head>
11 <body>
12 |
13 <form action = " " method = "GET">
14
15 Host_ID: <input type = "text" n<?php
16 include("connection.php");
17 error_reporting(0);
18 ?>
19 <!DOCTYPE html>
20 <html>
21 <head>
22 </head>
23 <body>
24
25 <form action="" method="GET">
26

```

```

Source Host: <input type="text" name="src_host" value=""/><br><br>
Destination Host: <input type="text" name="dst_host" value=""/><br><br>

<input type="submit" name="submit" value="Submit" />

</form>

<?php
if($_GET['submit'])
{
    $host_id = $_GET['host_id'];
    $src_host = $_GET['src_host'];
    $dst_host = $_GET['dst_host'];

    echo "Host ID: " . $host_id . "<br>";
    echo "Source Host: " . $src_host . "<br>";
    echo "Destination Host: " . $dst_host . "<br>";

    $query = "INSERT INTO hosts (host_id, src_host, dst_host) VALUES ('$host_id', '$src_host', '$dst_host')";
    $data = mysqli_query($conn, $query);

    if($data)
    {
        echo "Query Ok! One record appended into your database";
    }
}
?>

```

You are connected with your database

Host_ID: Source Host:

Destination Host:

Host ID:

Source Host: 10.45.2546.1

Destination Host: 10.478.054.1

Query Ok! One record appended into your database

DISPLAY RECORDS:

C: > xampp > htdocs > 🐞 displayRecordsWithHTML1.php

```
1  <?php
2  include "connection.php"; // Database connection file
3
4  // Get the selected attack type from the frontend
5  $attackType = isset($_GET['attackType']) ? $_GET['attackType'] : '';
6
7  // Construct the SQL query based on the selected attack type
8  $sql = "SELECT * FROM network";
9
10 // If an attack type is selected, add a WHERE clause to filter by attack type
11 if (!empty($attackType)) {
12     $sql .= " INNER JOIN attacks ON network.attack_id = attacks.attack_id WHERE attacks.attack_type = '$attackType'";
13 }
14
15 $result = mysqli_query($conn, $sql);
16
17 if (mysqli_num_rows($result) > 0) {
18     $rows = array();
19     while ($row = mysqli_fetch_assoc($result)) {
20         $rows[] = $row;
21     }
22     echo json_encode($rows);
23 } else {
24     echo json_encode(array()); // Return an empty array if no data is found
25 }
26
27 mysqli_close($conn);
28 ?>
29
30 <!DOCTYPE HTML>
31 <HTML>
32 <head>
33     <title>Network Intrusion Detection System</title>
34     <style>
35         table, th, td {
36             border: 1px solid black;
37             border-collapse: collapse;
```

C: > xampp > htdocs > displayRecordsWithHTML1.php

```
32 <head>
33
34 <style>
35     table, th, td {
36         border: 1px solid black;
37         border-collapse: collapse;
38         padding: 8px;
39     }
40     th {
41         background-color: green;
42     }
43     th, td {
44         text-align: left;
45     }
46     tr:hover {
47         background-color: #f5f5f5;
48     }
49 </style>
50 </head>
51 <body>
52     <h1>Network Intrusion Detection System</h1>
53
54     <label for="attackType">Filter by Attack Type:</label>
55     <select id="attack_type">
56         <option value="">Select Attack Type</option>
57         <option value="SQL Injection">SQL Injection</option>
58         <option value="Cross-Site Scripting">Cross-Site Scripting</option>
59         <!-- Add more options here if needed -->
60     </select>
61
62     <table id="networkTable">
63         <thead>
64             <tr>
65                 <th>Network ID</th>
66                 <th>Duration</th>
67                 <th>Protocol Type</th>
68                 <th>Attack ID</th>
```

```

C: > xampp > htdocs > 📁 displayRecordsWithHTML1.php
51  <body>
78  <script>
79      document.addEventListener("DOMContentLoaded", function() {
80          // Function to fetch data from server based on selected attack type
83          .then(response => response.json())
85          const tableBody = document.querySelector("#networkTable tbody");
86          tableBody.innerHTML = '';
87          data.forEach(row => {
88              const newRow = document.createElement('tr');
89              newRow.innerHTML = `
90                  <td>${row.network_id}</td>
91                  <td>${row.duration}</td>
92                  <td>${row.protocol_type}</td>
93                  <td>${row.attack_id}</td>
94                  <td>${row.host_source}</td>
95                  <td>${row.destination_source}</td>
96              `;
97              tableBody.appendChild(newRow);
98          });
99      })
100      .catch(error => console.error('Error fetching data:', error));
101  }
102
103  // Event listener for dropdown change
104  document.getElementById('attack_type').addEventListener('change', function() {
105      const selectedAttackType = this.value;
106      fetchData(selectedAttackType);
107  });
108
109  // Initial data fetch
110  fetchData('');
111  });
112  </script>
113  </body>
114  </html>
115

```

FRONT END RESULTS:

