```
 1 root
 2 │   index.php
 3 ├──include
 4 │       db_connect.php
 5 │       db_disconnect.php
 6 ├──model
 7 │       Student.php
 8 │       User.php
 9 └──view
10         add_student.php
11         edit_student.php
12         register_user.php
13         student_data.php
14
```

```php
<?php
  if(isset($_POST['loc']))$loc=$_POST['loc'];
  else $loc='student_data.php';
  include 'include/db_connect.php';
  include 'model/User.php';
  include 'model/Student.php';
  if(isset($_POST['do']))include 'controller/'.$_POST['do'];
  include 'view/'.$loc;
  include 'include/db_disconnect.php';
?>
```

```php
<?php
  $conn = new mysqli('localhost','root','','mahasiswa');
?>
```

```php
<?php
  $con = null;
?>
```

```php
<?php
  class Student{
    var $Student_ID;
    var $Student_Name;
    var $Student_Nim;
    var $Student_Angkatan;
    var $Student_Jurusan;
    function __construct($sid, $sname, $snim, $sangkatan, $sjurusan){
      $this->Student_Id        =$sid;
      $this->Student_Name      =$sname;
      $this->Student_Nim       =$snim;
      $this->Student_Angkatan=$sangkatan;
      $this->Student_Jurusan=$sjurusan;
    }
    public function getStudent_Id()      {return $this->Student_Id;}
    public function getStudent_Name()    {return $this->Student_Name;}
    public function getStudent_Nim()     {return $this->Student_Nim;}
    public function getStudent_Angkatan(){return $this->Student_Angkatan;}
    public function getStudent_Jurusan() {return $this->Student_Jurusan;}
    public function setStudent_Id($str)       {$this->Student_Id        =$str;}
    public function setStudent_Name($str)     {$this->Student_Name      =$str;}
    public function setStudent_Nim($str)      {$this->Student_Nim       =$str;}
    public function setStudent_Angkatan($str){$this->Student_Angkatan=$str;}
    public function setStudent_Jurusan($str) {$this->Student_Jurusan =$str;}
  }
?>
```

```php
<?php
  class User{
    var $username;
    var $password;
    var $salt;
    function __construct($uname, $pass, $salt){
      $this->username=$uname;
      $this->password=$pass;
      $this->salt    =$salt;
    }
    public function getusername(){return $this->username;}
    public function getpassword(){return $this->password;}
    public function getsalt()    {return $this->salt;}
    public function setusername($str){$this->username=$str;}
    public function setpassword($str){$this->password=$str;}
    public function setsalt($str)    {$this->salt    =$str;}
  }
?>
```

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Student Data</title>
5      <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6      <link rel='stylesheet' href='assets/bootstrap-
   3.3.7/dist/css/bootstrap.min.css'>
7    </head>
8    <body>
9      <div class='container'>
10       <nav class='navbar navbar-default' role='navigation'>
11         <div class='container-fluid'>
12           <div class='navbar-header'><a class='navbar-brand' href='#'>[IF635]
   Web Programming</a></div>
13           <ul class='nav navbar-nav navbar-right'>
14             <li><a href='index.php'>Students</a></li>
15           </ul>
16         </div>
17       </nav>
18       <h1 class='text-center'>Add Student</h1>
19       <form method='post' action='index.php'>
20         <div class='form-group row'>
21           <label class='col-sm-3' for='sid'>Student ID:</label>
22           <div class='col-sm-6'><input class='form-control' type='text'
   name='sid'></div>
23         </div>
24         <div class='form-group row'>
25           <label class='col-sm-3' for='sname'>Student Name:</label>
26           <div class='col-sm-6'><input class='form-control' type='text'
   name='sname'></div>
27         </div>
28         <div class='form-group row'>
29           <label class='col-sm-3' for='snim'>Student Nim:</label>
30           <div class='col-sm-6'><input class='form-control' type='text'
   name='snim'></div>
31         </div>
32         <div class='form-group row'>
33           <label class='col-sm-3' for='sangkatan'>Student Angkatan:</label>
34           <div class='col-sm-6'><input class='form-control' type='text'
   name='sangkatan'></div>
35         </div>
36         <div class='form-group row'>
37           <label class='col-sm-3' for='sjurusan'>Student Jurusan:</label>
38           <div class='col-sm-6'><input class='form-control' type='text'
   name='sjurusan'></div>
39         </div>
40         <input type='hidden' name='do' value='insert_student.php'>
41         <button type='submit' name='submit' class='btn btn-primary'>Add
   Student</button>
42         <button type='submit' name='loc' value='student_data.php' class='btn
   btn-default'>Cancel</button>
43       </form>
44     </div>
45     <script src='assets/jquery-3.2.1.min.js'></script>
46     <script src='assets/bootstrap-3.3.7/dist/js/bootstrap.min.js'></script>
47   </body>
48 </html>
```

```php
1  <?php
2    $valid;
3    if(isset($_POST['submit'])){
4      $username=mysqli_real_escape_string($conn,
   strip_tags($_POST['username']));
5      $password=mysqli_real_escape_string($conn,
   strip_tags($_POST['password']));
6      $query = 'SELECT * FROM user WHERE username="'.$username.'";';
7      $result= $conn->query($query);
8      if($result!=false){
9        $match = $result->fetch_assoc();
10       $user=new User($match['username'],$match['password'],$match['salt']);
11       if(strtolower($user->getpassword())==strtolower(md5($password.$user-
   >getsalt())))$valid=true;
12       else $valid=false;
13     }
14     else $valid=false;
15   }
16 ?>
```

```php
1  <?php
2    if(isset($_POST['submit'])){
3      $sid       =mysqli_real_escape_string($conn,
   strip_tags($_POST['Student_Id']));
4      $query = 'DELETE FROM siswa WHERE Student_Id="'.$sid.'";';
5      $result= $conn->query($query);
6    }
7  ?>
```

```php
<?php
  if(isset($_POST['submit'])){
    $sid      =mysqli_real_escape_string($conn, strip_tags($_POST['sid']));
    $sname    =mysqli_real_escape_string($conn, strip_tags($_POST['sname']));
    $snim     =mysqli_real_escape_string($conn, strip_tags($_POST['snim']));
    $sangkatan=mysqli_real_escape_string($conn, strip_tags($_POST['sangkatan']));
    $sjurusan =mysqli_real_escape_string($conn, strip_tags($_POST['sjurusan']));
    $query = 'INSERT INTO siswa VALUES("'.$sid.'", "'.$sname.'", "'.$snim.'", "'.$sangkatan.'", "'.$sjurusan.'");';
    $result= $conn->query($query);
  }
?>
```

```php
<?php
  if(isset($_POST['submit'])){
    $username=mysqli_real_escape_string($conn,
strip_tags($_POST['username']));
    $salt    =mysqli_real_escape_string($conn, strip_tags($_POST['salt']));
    $password=mysqli_real_escape_string($conn,
strip_tags($_POST['password']));
    $passconf=mysqli_real_escape_string($conn,
strip_tags($_POST['passconf']));
    if($username!==''&&$password==$passconf){
      $query = 'INSERT INTO user VALUES("'.$username.'",
"'.md5($password.$salt).'", "'.$salt.'");';
      $result= $conn->query($query);
    }
  }
?>
```

```php
<?php
  if(isset($_POST['submit'])){
    $sid      =mysqli_real_escape_string($conn, strip_tags($_POST['sid']));
    $sname    =mysqli_real_escape_string($conn, strip_tags($_POST['sname']));
    $snim     =mysqli_real_escape_string($conn, strip_tags($_POST['snim']));
    $sangkatan=mysqli_real_escape_string($conn,
 strip_tags($_POST['sangkatan']));
    $sjurusan =mysqli_real_escape_string($conn,
 strip_tags($_POST['sjurusan']));
    $query = 'UPDATE siswa SET Student_Name="'.$sname.'",
 Student_Nim="'.$snim.'", Student_Angkatan="'.$sangkatan.'",
 Student_Jurusan="'.$sjurusan.'" WHERE Student_Id="'.$sid.'";';
    $result= $conn->query($query);
  }
?>
```

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Student Data</title>
5      <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6      <link rel='stylesheet' href='assets/bootstrap-
   3.3.7/dist/css/bootstrap.min.css'>
7    </head>
8    <body>
9      <div class='container'>
10       <nav class='navbar navbar-default' role='navigation'>
11         <div class='container-fluid'>
12           <div class='navbar-header'><a class='navbar-brand' href='#'>[IF635]
   Web Programming</a></div>
13           <ul class='nav navbar-nav navbar-right'>
14             <li><a href='index.php'>Students</a></li>
15           </ul>
16         </div>
17       </nav>
18       <h1 class='text-center'>Add Student</h1>
19       <form method='post' action='index.php'>
20         <div class='form-group row'>
21           <label class='col-sm-3' for='sid'>Student ID:</label>
22           <div class='col-sm-6'><input class='form-control' type='text'
   name='sid'></div>
23         </div>
24         <div class='form-group row'>
25           <label class='col-sm-3' for='sname'>Student Name:</label>
26           <div class='col-sm-6'><input class='form-control' type='text'
   name='sname'></div>
27         </div>
28         <div class='form-group row'>
29           <label class='col-sm-3' for='snim'>Student Nim:</label>
30           <div class='col-sm-6'><input class='form-control' type='text'
   name='snim'></div>
31         </div>
32         <div class='form-group row'>
33           <label class='col-sm-3' for='sangkatan'>Student Angkatan:</label>
34           <div class='col-sm-6'><input class='form-control' type='text'
   name='sangkatan'></div>
35         </div>
36         <div class='form-group row'>
37           <label class='col-sm-3' for='sjurusan'>Student Jurusan:</label>
38           <div class='col-sm-6'><input class='form-control' type='text'
   name='sjurusan'></div>
39         </div>
40         <input type='hidden' name='do' value='insert_student.php'>
41         <button type='submit' name='submit' class='btn btn-primary'>Add
   Student</button>
42         <button type='submit' name='loc' value='student_data.php' class='btn
   btn-default'>Cancel</button>
43       </form>
44     </div>
45     <script src='assets/jquery-3.2.1.min.js'></script>
46     <script src='assets/bootstrap-3.3.7/dist/js/bootstrap.min.js'></script>
47   </body>
48  </html>
```

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Student Data</title>
5      <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6      <link rel='stylesheet' href='assets/bootstrap-
   3.3.7/dist/css/bootstrap.min.css'>
7    </head>
8    <body>
9      <div class='container'>
10       <nav class='navbar navbar-default' role='navigation'>
11         <div class='container-fluid'>
12           <div class='navbar-header'><a class='navbar-brand' href='#'>[IF635]
   Web Programming</a></div>
13           <ul class='nav navbar-nav navbar-right'>
14             <li><a href='index.php'>Students</a></li>
15           </ul>
16         </div>
17       </nav>
18       <h1 class='text-center'>Update Student</h1>
19       <?php

20  if(!isset($_POST['submit'])||!isset($_POST['Student_Id']))header('Location:
   index.php');
21         $sid=mysqli_real_escape_string($conn,
   strip_tags($_POST['Student_Id']));
22         $query ='SELECT * FROM siswa WHERE Student_Id="'.$sid.'";';
23         $result=$conn->query($query);
24         if(!$result)header('Location: index.php');
25         $row=$result->fetch_assoc();
26       ?>
27       <form method='post' action='index.php'>
28         <div class='form-group row'>
29           <label class='col-sm-3' for='sid'>Student ID:</label>
30           <div class='col-sm-6'><input class='form-control' type='hidden'
   name='sid' value='<?php echo $row['Student_Id']; ?>'></div>
31           <div class='col-sm-6'><input class='form-control' type='text'
   name='sidmask' value='<?php echo $row['Student_Id']; ?>' disabled></div>
32         </div>
33         <div class='form-group row'>
34           <label class='col-sm-3' for='sname'>Student Name:</label>
35           <div class='col-sm-6'><input class='form-control' type='text'
   name='sname' value='<?php echo $row['Student_Name']; ?>'></div>
36         </div>
37         <div class='form-group row'>
38           <label class='col-sm-3' for='snim'>Student Nim:</label>
39           <div class='col-sm-6'><input class='form-control' type='text'
   name='snim' value='<?php echo $row['Student_Nim']; ?>'></div>
40         </div>
41         <div class='form-group row'>
42           <label class='col-sm-3' for='sangkatan'>Student Angkatan:</label>
43           <div class='col-sm-6'><input class='form-control' type='text'
   name='sangkatan' value='<?php echo $row['Student_Angkatan']; ?>'></div>
44         </div>
45         <div class='form-group row'>
46           <label class='col-sm-3' for='sjurusan'>Student Jurusan:</label>
47           <div class='col-sm-6'><input class='form-control' type='text'
   name='sjurusan' value='<?php echo $row['Student_Jurusan']; ?>'></div>
48         </div>
49         <input type='hidden' name='do' value='update_student.php'>
```

```
50        <button type='submit' name='submit' class='btn btn-primary'>Edit
   Student</button>
51        <button type='submit' name='loc' value='student_data.php' class='btn
   btn-default'>Cancel</button>
52      </form>
53    </div>
54    <script src='assets/jquery-3.2.1.min.js'></script>
55    <script src='assets/bootstrap-3.3.7/dist/js/bootstrap.min.js'></script>
56  </body>
57 </html>
```

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Student Data</title>
5      <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6      <link rel='stylesheet' href='assets/bootstrap-
   3.3.7/dist/css/bootstrap.min.css'>
7    </head>
8    <body>
9      <div class='container'>
10       <nav class='navbar navbar-default' role='navigation'>
11         <div class='container-fluid'>
12           <div class='navbar-header'><a class='navbar-brand' href='#'>[IF635]
   Web Programming</a></div>
13           <ul class='nav navbar-nav navbar-right'>
14             <li><a href='index.php'>Students</a></li>
15           </ul>
16         </div>
17       </nav>
18       <h1 class='text-center'>Register User</h1>
19       <form method='post' action='index.php'>
20         <div class='form-group row'>
21           <label class='col-sm-3' for='username'>Username:</label>
22           <div class='col-sm-6'><input class='form-control' type='text'
   name='username'></div>
23         </div>
24         <div class='form-group row'>
25           <label class='col-sm-3' for='salt'>Salt:</label>
26           <div class='col-sm-6'><input class='form-control' type='text'
   name='salt'></div>
27         </div>
28         <div class='form-group row'>
29           <label class='col-sm-3' for='password'>Password:</label>
30           <div class='col-sm-6'><input class='form-control' type='password'
   name='password'></div>
31         </div>
32         <div class='form-group row'>
33           <label class='col-sm-3' for='passconf'>Re-type Password:</label>
34           <div class='col-sm-6'><input class='form-control' type='password'
   name='passconf'></div>
35         </div>
36         <input type='hidden' name='do' value='insert_user.php'>
37         <button type='submit' name='submit' class='btn btn-
   primary'>Register</button>
38         <button type='submit' name='loc' value='student_data.php' class='btn
   btn-default'>Cancel</button>
39       </form>
40     </div>
41     <script src='assets/jquery-3.2.1.min.js'></script>
42     <script src='assets/bootstrap-3.3.7/dist/js/bootstrap.min.js'></script>
43   </body>
44 </html>
```

```php
1   <!DOCTYPE html>
2   <html>
3     <head>
4       <title>Student Data</title>
5       <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6       <link rel='stylesheet' href='assets/bootstrap-
    3.3.7/dist/css/bootstrap.min.css'>
7     </head>
8     <body>
9       <div class='container'>
10        <nav class='navbar navbar-default' role='navigation'>
11          <div class='container-fluid'>
12            <div class='navbar-header'><a class='navbar-brand' href='#'>[IF635]
    Web Programming</a></div>
13            <ul class='nav navbar-nav navbar-right'>
14              <li class='active'><a href='#'>Students</a></li>
15            </ul>
16          </div>
17        </nav>
18        <?php if(isset($valid)&&$valid){ ?>
19        <form method='post' action='index.php'>
20          <input type='hidden' name='loc' value='add_student.php'>
21          <button type='submit' name='submit' class='btn btn-primary pull-
    right'><span class='glyphicon glyphicon-plus'>
    </span>  Student</button>
22        </form>
23        <br>
24        <br>
25        <table id="dat">
26          <thead>
27            <th>Student Id</th>
28            <th>Student Name</th>
29            <th>Student NIM</th>
30            <th>Student Angkatan</th>
31            <th>Student Jurusan</th>
32            <th></th>
33          </thead>
34          <tbody>
35            <?php
36              $query = "SELECT * FROM siswa;";
37              $result=$conn->query($query);
38              $students=array();
39              foreach($result as $row)array_push($students, new
    Student($row['Student_Id'],$row['Student_Name'],$row['Student_Nim'],$row['Stu
    dent_Angkatan'],$row['Student_Jurusan']));
40              foreach($students as $row){
41                echo "<tr>";
42                  echo "<td>".$row->getStudent_ID()      ."</td>";
43                  echo "<td>".$row->getStudent_Name()    ."</td>";
44                  echo "<td>".$row->getStudent_Nim()     ."</td>";
45                  echo "<td>".$row->getStudent_Angkatan()."</td>";
46                  echo "<td>".$row->getStudent_Jurusan() ."</td>";
47                  echo "<td>";
48                  echo "<div class='col-sm-3'>";
49                  echo "<form method='post' action='index.php'>";
50                  echo "<input type='hidden' name='Student_Id' value='".$row-
    >getStudent_ID()."'>";
51                  echo "<input type='hidden' name='loc'
    value='edit_student.php'>";
```

```
52            echo "<button type='submit' name='submit'><span
   class='glyphicon glyphicon-edit'></span></button>";
53            echo "</form>";
54            echo "</div>";
55            echo "<div class='col-sm-3'>";
56            echo "<form method='post' action='index.php'>";
57            echo "<input type='hidden' name='Student_Id' value='".$row-
   >getStudent_ID()."'>";
58            echo "<input type='hidden' name='do'
   value='delete_student.php'>";
59            echo "<button type='submit' name='submit'><span
   class='glyphicon glyphicon-remove'></span></button>";
60            echo "</form>";
61            echo "</td>";
62            echo "</div>";
63          echo "</tr>";
64        }
65      ?>
66    </tbody>
67    <tfoot>
68      <th>Student Id</th>
69      <th>Student Name</th>
70      <th>Student NIM</th>
71      <th>Student Angkatan</th>
72      <th>Student Jurusan</th>
73      <th></th>
74    </tfoot>
75  </table>
76  <?php } ?>
77 </div>
78 <div class='modal fade' id='login' tabindex='-1' role='dialog'>
79   <div class='modal-dialog'>
80     <div class='modal-content'>
81       <div class='modal-header'>
82         <h1 class='modal-title text-center'>Login</h1>
83       </div>
84       <div class='modal-body'>
85         <form method='post' action='index.php'>
86           <div class='form-group row'>
87             <label class='col-sm-3' for='username'>Username:</label>
88             <div class='col-sm-6'><input class='form-control' type='text'
   name='username'></div>
89           </div>
90           <div class='form-group row'>
91             <label class='col-sm-3' for='password'>Password:</label>
92             <div class='col-sm-6'><input class='form-control'
   type='password' name='password'></div>
93           </div>
94           <?php if(isset($valid)&&!$valid){ ?>
95           <p class='text-danger'>Invalid credentials.</p>
96           <?php } ?>
97           <input type='hidden' name='do' value='check_loginuser.php'>
98           <button type='submit' name='submit' class='btn btn-
   primary'>Login</button>
99           <button type='submit' name='loc' value='register_user.php'
   class='btn btn-warning'>Register</button>
100          </form>
101        </div>
102      </div>
103    </div>
```

```
104      </div>
105      <script src='assets/jquery-3.2.1.min.js'></script>
106      <script src='assets/bootstrap-3.3.7/dist/js/bootstrap.min.js'></script>
107      <script>
108        $(function(){$('#login').modal({
109          backdrop: 'static',
110          keyboard: false,
111          show: <?php echo (isset($valid)&&$valid)?"false":"true"; ?>
112        })});
113      </script>
114    </body>
115 </html>
```