Fully Flexible Credit System (FFCS)

Digital Assignment 2

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Submitted by

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ABSTRACT:

FFCS is a way in which students have complete freedom in tailoring their course and in a way they wish. ... With this system, a student can prepare his/her own timetable with the specific courses he/she intends to do in that semester along with the timings of classes and choice of professors. This is a system that VIT proudly boasts about in every brochure or advertisement that this is a system that allows students to choose their own faculty, their own subject slots, class timings and locations. You give your first FFCS for the courses of II and onward semesters. In the I Semester, VIT itself chooses the faculty, subject slots, class timings and locations for you. Hence we came up with a website that helps students especially freshers to practice how the system of ffcs works by making mock timetables which can be used as a substitute when the official registration takes place.

CODE (FRONTEND):

HTML Code:

- **index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>FFCS</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css"
integrity="sha384-rwoIResjU2yc3z8GV/NPeZWAv56rSmLldC3R/AZzGRnGxQQKnKkoFVhFQhNUwEyJ" crossorigin="anonymous">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
  <link href="https://fonts.googleapis.com/css?family=Quicksand|Ubuntu+Conde nsed" rel="stylesheet">
  <script src="https://code.jquery.com/jquery-3.1.1.slim.min.js" integrity="sha384-
A7FZj7v+d/sdmMqp/nOQwliLvUsJfDHW+k9Omg/a/EheAdgtzNs3hpfag6Ed950n" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.4.0/js/tether.min.js" integrity="sha384-
DztdAPBWPRXSA/3eYEEUWrWCy7G5KFbe8fFjk5JAIxUYHKkDx6Qin1DkWx51bBrb" crossorigin="anonymous"></script>
  <link href="https://fonts.googleapis.com/css?family=Raleway:800" rel="stylesheet">
  <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/js/bootstrap.min.js" integrity="sha384-
vBWWzlZJ8ea9aCX4pEW3rVHjgjt7zpkNpZk+02D9phzyeVkE+jo0ieGizqPLForn" crossorigin="anonymous"></script>
  <link rel="stylesheet" href="stylesheets/style.css">
</head>
<body>
<div class="container-fluid c1" id="c1a"><strong>Welcome To myFFCS redefined</strong></div>
  <div class="container-fluid c1" id="c1b">Create your time-table without a hassle</div>
  <div class="container-fluid c2" >
    <div class="row">
```

```html
    <div class="col-sm-2"></div>
    <div class="col-sm-3">
    <form action="/" method="post">
    <div id="uname">USERNAME<br>
      <div class="input-group i1">
        <input type="text" name="email" id="i1" class="form-control f1" >
      </div><BR>
    </div>
    </div>
    <div class="col-sm-3">
      <div id="psw">PASSWORD<br>
        <div class="input-group">
          <input type="password"  name = "passwd" id="i2" class="form-control f2" >
        </div><BR>
      </div>
    </div>
    </div>
  </div>
<div class="container-fluid c3" >
  <div class="row">
    <div class="col-sm-2"></div>
    <div class="col-sm-3">
    <button class="btn" type="submit" id="b1" required="true">LOGIN</button><BR>
        </form>
      <a href="timetable2.html"><button class="btn" type="button" id="b2" required="true">SKIP LOGIN</button></a><BR>
      <button class="btn" type="button" id="b3">SIGN UP</button>
  <!-- Trigger the modal with a button -->
  <button class="btn" id="b1" data-toggle="modal" data-target="#askModal" >ASK MYFFCS</button>
  <!-- Modal -->
  <div class="modal fade" id="askModal" role="dialog">
   <div class="modal-dialog">
    <!-- Modal content-->
    <div class="modal-content">
     <div class="modal-header">
      <button type="button" class="close" data-dismiss="modal">&times;</button>
      <h4 class="modal-title">Say hi</h4>
     </div>
     <div class="modal-body">
```

```
<center>
  <iframe
  allow="microphone;"
  width="350"
  height="430"
  src="https://console.dialogflow.com/api-client/demo/embedded/b5cfe126-5fcf-4ab3-83e5-f3419ff065ad">
</iframe>
</center>
     </div>
     <div class="modal-footer">
      <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
     </div>

   </div>
  </div>
 </div>
      <button class="btn" type="button" id="b4" >SIGN UP WITH  <i class="fa fa-google-plus" aria-hidden="true"></i></button>
    </div>
  </div>
</div>
<!--MODAL-->
<div class="container">
  <!-- Modal -->
  <div class="modal fade" id="myModal" role="dialog">
    <div class="modal-dialog modal1">
      <!-- Modal content-->
      <div class="modal-content">
        <div class="modal-header" >
          <h4><span class="glyphicon glyphicon-lock" ></span><strong> SIGN UP</strong></h4>
          <button type="button" class="close" data-dismiss="modal">&times;</button>
        </div>
        <div class="modal-body" style="padding:40px 50px;">
          <form role="form" action="/" method="post">
            <div class="form-group">
              <label for="f1"><b>Email:</b></label>
              <input type="email" class="form-control" id="f1"  name="email">
            </div>
```

```
                        <br>
                        <!-- <div class="form-group">
                            <label for="f2"><b>Full Name</b> </label>
                            <input type="text" class="form-control" id="f2"  name="email">
                        </div> -->
                        <br>
                        <div class="form-group">
                            <label for="f2"><b>Password</b> </label>
                            <input type="password" class="form-control" id="f3"  name="passwd">
                        </div>
                        <br>
                        <div class="form-group">
                            <label for="f2"><b>Re-enter Password</b> </label>
                            <input type="password" class="form-control" id="f4"  name="confirm">
                        </div>
                        <div class="butn" align="middle"><button type="submit" class="btn B2 btn-block"  value="submit"><span
class="glyphicon glyphicon-off"></span> REGISTER ME</button></div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>
<script>
    $(document).ready(function(){
        $("#b3").click(function(){
            $("#myModal").modal();
        });
        $("#b1").click(function(){
            $("#myModal").modal();
        });
        $("#b4").click(function(){
            window.location = "/auth/google";
        })
        $("#b2").click(function(){
            window.location = "timetable2.ejs";
        })
    });
```

```
</script>

</body>

</html>
```

- **timetable.html**

```
<!DOCTYPE html>

<html>

<head>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

   <script src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.4.0/js/tether.min.js" integrity="sha384-DztdAPBWPRXSA/3eYEEUWrWCy7G5KFbe8fFjk5JAIxUYHKkDx6Qin1DkWx51bBrb" crossorigin="anonymous"></script>

   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css" integrity="sha384-rwoIResjU2yc3z8GV/NPeZWAv56rSmLldC3R/AZzGRnGxQQKnKkoFVhFQhNUwEyJ" crossorigin="anonymous">

   <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.4/angular.min.js"></script>

   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/js/bootstrap.min.js" integrity="sha384-vBWWzlZJ8ea9aCX4pEW3rVHjgjt7zpkNpZk+02D9phzyeVkE+jo0ieGizqPLForn" crossorigin="anonymous"></script>

   <script src="https://code.jquery.com/jquery-3.1.1.slim.min.js" integrity="sha384-A7FZj7v+d/sdmMqp/nOQwliLvUsJfDHW+k9Omg/a/EheAdgtzNs3hpfag6Ed950n" crossorigin="anonymous"></script>

   <script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.100.2/js/materialize.min.js"></script>

   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.100.2/css/materialize.min.css">

   <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

   <link href="https://fonts.googleapis.com/css?family=Alegreya+Sans:800|Montserrat" rel="stylesheet">

   <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.0.12/css/all.css" integrity="sha384-G0fIWCsCzJIMAVNQPfjH08cyYaUtMwjJwqiRKxxE/rx96Uroj1BtIQ6MLJuheaO9" crossorigin="anonymous">

   <link rel="stylesheet" href="stylesheets/style2.css">

</head>

<body>

<nav>

    <div class="nav-wrapper">

        <a href="/" class="brand-logo">MY FFCS</a>

        <ul id="nav-mobile" class="menu right hide-on-med-and-down">

            <!-- <li ><a href="#"><div class="m">MOCK FFCS</div></a></li> -->

            <li><a href="#"><div class="m">TEAM</div></a></li>

            <li><a href="mailto:angad.sharma2017@vitstudent.ac.in"><div class="m">CONTACT</div></a></li>

            <li><a href="/timetable/logout"><div class="m">LOGOUT</div></a></li>

        </ul>

    </div>

</nav>

<div class="container-fluid c1" >

    <div class="row">
        <div class="col-sm-4">
            <!--FORM STARTS  HERE----------------------------------------------------------------------------------------------->
            <form role="form" action="#" method="post"> <!--http://redefinedffcs.herokuapp.com/timetable-->
            <div id="title"><div class="font1">COURSE CODE<br></div>   <!--Will be changed to course title later on-->
              <div class="input-group i1">
                <input type="text" id="i1" class="form-control f1" name = "CODE" placeholder="Enter course code"> <!--Course code will be added later-->
              </div>
            </div>
              <div class="but1" align="left"><button type="submit" class="btn BFac btn-block"  value="submit" id="sb"> REQUEST FACULTY</button></div>
            </form>
            </div>
        <!--FORM ends here----------------------------------------------------------------------------------------------->
        <!--<p id="demo">CHANGE</p>-->
        <div class="col-sm-2"></div>
        <div class="col-sm-6 ">
            <!-- Switch -->
            <!-- Switch -->
            <div class="switch">
              <label>
                LAB
                <input type="checkbox" id="sw1">
                <span class="lever"></span>
                THEORY
              </label>
            </div>
            <div>
              <table class="slotTable">
                <tbody>
                <tr>
                  <td class="slotLabel" id="Sa1">A1</td>
                  <td class="slotLabel" id="Sa2">A2</td>
                  <td class="slotLabel" id="Sb1">B1</td>
                  <td class="slotLabel" id="Sb2">B2</td>
                  <td class="slotLabel" id="Sc1">C1</td>
                  <td class="slotLabel" id="Sc2">C2</td>
                </tr>
                <tr>
```

```
            <td class="slotLabel" id="Sd1">D1</td>
            <td class="slotLabel" id="Sd2">D2</td>
            <td class="slotLabel" id="Se1">E1</td>
            <td class="slotLabel" id="Se2">E2</td>
            <td class="slotLabel" id="Sf1">F1</td>
            <td class="slotLabel" id="Sf2">F2</td>
          </tr>
          <tr>
            <td class="slotLabel" id="Sta1">TA1</td>
            <td class="slotLabel" id="Sta2">TA2</td>
            <td class="slotLabel" id="Stb1">TB1</td>
            <td class="slotLabel" id="Stb2">TB2</td>
            <td class="slotLabel" id="Stc1">TC1</td>
            <td class="slotLabel" id="Stc2">TC2</td>
          </tr>
          <tr>
            <td class="slotLabel" id="Std1">TD1</td>
            <td class="slotLabel" id="Std2">TD2</td>
            <td class="slotLabel" id="Ste1">TE1</td>
            <td class="slotLabel" id="Ste2">TE2</td>
            <td class="slotLabel" id="Stf1">TF1</td>
            <td class="slotLabel" id="Stf2">TF2</td>
          </tr>
          <tr>
            <td class="slotLabel" id="Staa1">TAA1</td>
            <td class="slotLabel" id="Staa2">TAA2</td>
            <td class="slotLabel" id="Stbb2">TBB2</td>
            <td class="slotLabel" id="Stcc1">TCC1</td>
            <td class="slotLabel" id="Stcc2">TCC2</td>
            <td class="slotLabel" id="Stdd2">TDD2</td>
          </tr>
          </tbody>
        </table>
      </div>
    </div>
    </div>
  </div>
<br><Br>
```

```
<div class="container-fluid">

    <div class="row">

        <div class="col-sm-8">

            <div class="DataBase">

                <div class="row">

                  <div class="col-sm-4 Col1">

                      <div id="fac1" class="fac">

                      </div>

                      <div id="fac4" class="fac">

                      </div>

                      <div id="fac7" class="fac">

                      </div>

                      <div id="fac10" class="fac">

                      </div>

                      <div id="fac13" class="fac">

                      </div>

                      <div id="fac16" class="fac">

                      </div>

                      <div id="fac19" class="fac">

                      </div>

                      <div id="fac22" class="fac">

                      </div>

                      <div id="fac25" class="fac">

                      </div>

                      <div id="fac28" class="fac">

                      </div>

                      <div id="fac31" class="fac">

                      </div>

                      <div id="fac34" class="fac">

                      </div>

                      <div id="fac37" class="fac">

                      </div>

                      <div id="fac40" class="fac">

                      </div>

                      <div id="fac43" class="fac">

                      </div>

                      <div id="fac46" class="fac">

                      </div>
```

```
</div>
<div class="col-sm-4 Col2">
    <div id="fac2" class="fac">
    </div>
    <div id="fac5" class="fac">
    </div>
    <div id="fac8" class="fac">
    </div>
    <div id="fac11" class="fac">
    </div>
    <div id="fac14" class="fac">
    </div>
    <div id="fac17" class="fac">
    </div>
    <div id="fac20" class="fac">
    </div>
    <div id="fac23" class="fac">
    </div>
    <div id="fac26" class="fac">
    </div>
    <div id="fac29" class="fac">
    </div>
    <div id="fac32" class="fac">
    </div>
    <div id="fac35" class="fac">
    </div>
    <div id="fac38" class="fac">
    </div>
    <div id="fac41" class="fac">
    </div>
    <div id="fac44" class="fac">
    </div>
    <div id="fac47" class="fac">
    </div>
</div>
<div class="col-sm-4 Col3">
  <div id="fac3" class="fac">
  </div>
```

```
            <div id="fac6" class="fac">
            </div>
            <div id="fac9" class="fac">
            </div>
            <div id="fac12" class="fac">
            </div>
            <div id="fac15" class="fac">
            </div>
            <div id="fac18" class="fac">
            </div>
            <div id="fac21" class="fac">
            </div>
            <div id="fac24" class="fac">
            </div>
            <div id="fac27" class="fac">
            </div>
            <div id="fac30" class="fac">
            </div>
            <div id="fac33" class="fac">
            </div>
            <div id="fac36" class="fac">
            </div>
            <div id="fac39" class="fac">
            </div>
            <div id="fac42" class="fac">
            </div>
            <div id="fac45" class="fac">
            </div>
            <div id="fac48" class="fac">
            </div>
           </div>
          </div>
        </div>
    </div>
    <div class="col-sm-4" align="right">
        <div id="credits" align="middle"><br><h4><b>0</b></h4>CREDITS</div>
    </div>
</div>
```

```
</div>
<br><br>
<div class="container-fluid" align="middle">
    <table class="FFCStable">
        <tbody>
        <tr class="row1"> <!--Baker-->
            <th class="slot week" rowspan="2">Weekdays</th>
            <th class="slotHead">8:00 <br>to<br>8:50</th>
            <th class="slotHead">9:00 <br>to<br>9:50</th>
            <th class="slotHead">10:00 <br>to<br>10:50</th>
            <th class="slotHead">11:00 <br>to<br>11:50</th>
            <th class="slotHead">12:00 <br>to<br>12:50</th>
            <th class="slotHead">-</th>
            <th class="slotHead l">1:00 <br>to<br>1:50</th>
            <th class="slotHead">2:00 <br>to<br>2:50</th>
            <th class="slotHead">3:00 <br>to<br>3:50</th>
            <th class="slotHead">4:00 <br>to<br>4:50</th>
            <th class="slotHead">5:00 <br>to<br>5:50</th>
            <th class="slotHead">6:00 <br>to<br>6:50</th>
            <th class="slotHead">-</th>
        </tr>
        <tr class="row1">
            <th class="slotHead">8:00 <br>to<br>8:40</th>
            <th class="slotHead">8:45 <br>to<br>9:30</th>
            <th class="slotHead">10:00 <br>to<br>10:45</th>
            <th class="slotHead">10:45 <br>to<br>11:30</th>
            <th class="slotHead">11:30 <br>to<br>12:15</th>
            <th class="slotHead">12:15 <br>to<br>1:00</th>
            <th class="slotHead l">1:00 <br>to<br>1:50</th>
            <th class="slotHead">2:00 <br>to<br>2:45</th>
            <th class="slotHead">2:45 <br>to<br>3:30</th>
            <th class="slotHead">4:00 <br>to<br>4:45</th>
            <th class="slotHead">4:45 <br>to<br>5:30</th>
            <th class="slotHead">5:30 <br>to<br>6:15</th>
            <th class="slotHead">6:15 <br>to<br>7:00</th>
        </tr>
        <tr class="row1">
            <td class="slot week" rowspan="2">MONDAY</td>
    <td class="slot A1 " id="A1">A1</td>
    <td class="slot F1 ">F1</td>
    <td class="slot D1 ">D1</td>
    <td class="slot TB1">TB1</td>
    <td class="slot TG1 L5">TG1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot A2">A2</td>
    <td class="slot F2">F2</td>
    <td class="slot D2">D2</td>
    <td class="slot TB2">TB2</td>  <!--change-->
    <td class="slot TG2">TG2</td>   <!--change-->
    <td class="slot">-</td>    <!--change-->
</tr>
<tr class="row1">
    <td class="slot L1">L1</td>
    <td class="slot L2">L2</td>
    <td class="slot L3">L3</td>
    <td class="slot L4">L4</td>
    <td class="slot L5">L5</td>
    <td class="slot L6">L6</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L31">L31</td>
    <td class="slot L32">L32</td>
    <td class="slot L33">L33</td>
    <td class="slot L34">L34</td>
    <td class="slot L35">L35</td>
    <td class="slot L36">L36</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">TUESDAY</td>
    <td class="slot B1 ">B1</td>
    <td class="slot G1 ">G1</td>
    <td class="slot E1 ">E1</td>
    <td class="slot TC1">TC1</td>
    <td class="slot TAA1">TAA1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot B2 ">B2</td>

    <td class="slot G2 ">G2</td>

    <td class="slot E2 ">E2</td>

    <td class="slot TC2">TC2</td>

    <td class="slot TAA2">TAA2</td>

    <td class="slot ">-</td>

</tr>

<tr class="row1">

    <td class="slot L7">L7</td>

    <td class="slot L8">L8</td>

    <td class="slot L9">L9</td>

    <td class="slot L10">L10</td>

    <td class="slot L11">L11</td>

    <td class="slot L12">L12</td>

    <td class="slot l">LUNCH</td>

    <td class="slot L37">L37</td>

    <td class="slot L38">L38</td>

    <td class="slot L39">L39</td>

    <td class="slot L40">L40</td>

    <td class="slot L41">L41</td>

    <td class="slot L42">L42</td>

</tr>

<tr class="row1">

    <td class="slot week" rowspan="2">WEDNESDAY</td>

    <td class="slot C1 ">C1</td>

    <td class="slot A1 ">A1</td>

    <td class="slot F1 ">F1</td>

    <td class="slot V1">V1</td>

    <td class="slot V2">V2</td>

    <td class="slot ">-</td>

    <td class="slot l">LUNCH</td>

    <td class="slot C2 ">C2</td>

    <td class="slot A2 ">A2</td>

    <td class="slot F2 ">F2</td>

    <td class="slot TD2">TD2</td>

    <td class="slot TBB2">TBB2</td>

    <td class="slot ">-</td>

</tr>
```

```
<tr class="row1">
    <td class="slot L13">L13</td>
    <td class="slot L14">L14</td>
    <td class="slot L15">L15</td>
    <td class="slot L16">L16</td>
    <td class="slot ">-</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L43">L43</td>
    <td class="slot L44">L44</td>
    <td class="slot L45">L45</td>
    <td class="slot L46">L46</td>
    <td class="slot L47">L47</td>
    <td class="slot L48">L48</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">THURSDAY</td>
    <td class="slot D1 ">D1</td>
    <td class="slot B1 ">B1</td>
    <td class="slot G1 ">G1</td>
    <td class="slot TE1">TE1</td>
    <td class="slot TCC1">TCC1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot D2 ">D2</td>
    <td class="slot B2 ">B2</td>
    <td class="slot G2 ">G2</td>
    <td class="slot TE2">TE2</td>
    <td class="slot TCC2">TCC2</td>
    <td class="slot ">-</td>
</tr>
<tr class="row1">
    <td class="slot L19">L19</td>
    <td class="slot L20">L20</td>
    <td class="slot L21">L21</td>
    <td class="slot L22">L22</td>
    <td class="slot L23">L23</td>
    <td class="slot L24">L24</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L49">L49</td>
    <td class="slot L50">L50</td>
    <td class="slot L51">L51</td>
    <td class="slot L52">L52</td>
    <td class="slot L53">L53</td>
    <td class="slot L54">L54</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">FRIDAY</td>
    <td class="slot E1 ">E1</td>
    <td class="slot C1 ">C1</td>
    <td class="slot TA1 ">TA1</td>
    <td class="slot TF1">TF1</td>
    <td class="slot TD1">TD1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot E2 ">E2</td>
    <td class="slot C2 ">C2</td>
    <td class="slot TA2 ">TA2</td>
    <td class="slot TF2">TF2</td>
    <td class="slot TDD2">TDD2</td>
    <td class="slot ">-</td>
</tr>
<tr class="row1">
    <td class="slot L25">L25</td>
    <td class="slot L26">L26</td>
    <td class="slot L27">L27</td>
    <td class="slot L28">L28</td>
    <td class="slot L29">L29</td>
    <td class="slot L30">L30</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L55">L55</td>
    <td class="slot L56">L56</td>
    <td class="slot L57">L57</td>
    <td class="slot L58">L58</td>
    <td class="slot L59">L59</td>
    <td class="slot L60">L60</td>
```

```
        </tr>
        </tbody>
    </table>
</div>
<br><br>
<br><br>
<div class="container-fluid c2" align="middle">
    <div id="text1" align="left"><b>SELECTED COURSES</b></div><br>
            <table class="selectedCourse" id="sec_Course">
            <tbody>
            <tr class="secCourse">            <!--CHange-->
                <th class="secHead"><b>SLOT</b></th>
                <th class="secHead"><b>CODE</b></th>
                <th class="secHead"><b>TITLE</b></th>
                <th class="secHead"><b>VENUE</b></th>
                <th class="secHead"><b>FACULTY</b></th>
                <th class="secHead"><B>CREDITS</B></th>
                <th class="secHead"></th>    <!--change-->
            </tr>
            </tbody>
            </table>
</div>
<br>
<div id="creds" align="middle" >Total Credits: 0</div><br>
<br><Br>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script src="javascripts/script.js"></script>
</body>
```

- **timetable2.html**

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.4.0/js/tether.min.js" integrity="sha384-DztdAPBWPRXSA/3eYEEUWrWCy7G5KFbe8fFjk5JAIxUYHKkDx6Qin1DkWx51bBrb" crossorigin="anonymous"></script>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css" integrity="sha384-rwoIResjU2yc3z8GV/NPeZWAv56rSmLldC3R/AZzGRnGxQQKnKkoFVhFQhNUwEyJ" crossorigin="anonymous">
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.4/angular.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/js/bootstrap.min.js" integrity="sha384-
vBWWzlZJ8ea9aCX4pEW3rVHjgjt7zpkNpZk+02D9phzyeVkE+jo0ieGizqPLForn" crossorigin="anonymous"></script>

    <script src="https://code.jquery.com/jquery-3.1.1.slim.min.js" integrity="sha384-
A7FZj7v+d/sdmMqp/nOQwliLvUsJfDHW+k9Omg/a/EheAdgtzNs3hpfag6Ed950n" crossorigin="anonymous"></script>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.100.2/js/materialize.min.js"></script>

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.100.2/css/materialize.min.css">

    <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

    <link href="https://fonts.googleapis.com/css?family=Alegreya+Sans:800|Montserrat" rel="stylesheet">

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.0.12/css/all.css" integrity="sha384-
G0fIWCsCzJIMAVNQPfjH08cyYaUtMwjJwqiRKxxE/rx96Uroj1BtIQ6MLJuheaO9" crossorigin="anonymous">

    <link rel="stylesheet" href="stylesheets/style2.css">

</head>

<body>

<nav>

    <div class="nav-wrapper">

        <a href="/" class="brand-logo">MY FFCS</a>


        <ul id="nav-mobile" class="menu right hide-on-med-and-down">

            <!-- <li ><a href="#"><div class="m">MOCK FFCS</div></a></li> -->

            <li><a href="#"><div class="m">TEAM</div></a></li>

            <li><a href="mailto:angad.sharma2017@vitstudent.ac.in"><div class="m">CONTACT</div></a></li>

            <!-- <li><a href="/timetable/logout"><div class="m">LOGOUT</div></a></li> -->

        </ul>

    </div>

</nav>

<div class="container-fluid c1" >

    <div class="row">

        <div class="col-sm-4">

            <!--FORM STARTS  HERE---------------------------------------------------------------------------------------------->

            <form role="form" action="#" method="post"> <!--http://redefinedffcs.herokuapp.com/timetable-->

                <div id="title"><div class="font1">COURSE CODE<br></div>   <!--Will be changed to course title later on-->

                    <div class="input-group i1">

                        <input type="text" id="i1" class="form-control f1" name = "CODE" placeholder="Enter course code"> <!--Course
code will be added later-->

                    </div>

                </div>

                <div class="but1" align="left"><button type="submit" class="btn BFac btn-block"  value="submit" id="sb"
name="CODE"> REQUEST FACULTY</button></div>

            </form>

        </div>
```

```
<!--FORM ends here-------------------------------------------------------------------------------------------------->
<!--<p id="demo">CHANGE</p>-->
<div class="col-sm-2"></div>
<div class="col-sm-6 ">
  <!-- Switch -->
  <!-- Switch -->
  <div class="switch">
    <label>
      LAB
      <input type="checkbox" id="sw1">
      <span class="lever"></span>
      THEORY
    </label>
  </div>
  <div>
    <table class="slotTable">
      <tbody>
      <tr>
        <td class="slotLabel" id="Sa1">A1</td>
        <td class="slotLabel" id="Sa2">A2</td>
        <td class="slotLabel" id="Sb1">B1</td>
        <td class="slotLabel" id="Sb2">B2</td>
        <td class="slotLabel" id="Sc1">C1</td>
        <td class="slotLabel" id="Sc2">C2</td>
      </tr>
      <tr>
        <td class="slotLabel" id="Sd1">D1</td>
        <td class="slotLabel" id="Sd2">D2</td>
        <td class="slotLabel" id="Se1">E1</td>
        <td class="slotLabel" id="Se2">E2</td>
        <td class="slotLabel" id="Sf1">F1</td>
        <td class="slotLabel" id="Sf2">F2</td>
      </tr>
      <tr>
        <td class="slotLabel" id="Sta1">TA1</td>
        <td class="slotLabel" id="Sta2">TA2</td>
        <td class="slotLabel" id="Stb1">TB1</td>
        <td class="slotLabel" id="Stb2">TB2</td>
```

```
                        <td class="slotLabel" id="Stc1">TC1</td>
                        <td class="slotLabel" id="Stc2">TC2</td>
                    </tr>
                    <tr>
                        <td class="slotLabel" id="Std1">TD1</td>
                        <td class="slotLabel" id="Std2">TD2</td>
                        <td class="slotLabel" id="Ste1">TE1</td>
                        <td class="slotLabel" id="Ste2">TE2</td>
                        <td class="slotLabel" id="Stf1">TF1</td>
                        <td class="slotLabel" id="Stf2">TF2</td>
                    </tr>
                    <tr>
                        <td class="slotLabel" id="Staa1">TAA1</td>
                        <td class="slotLabel" id="Staa2">TAA2</td>
                        <td class="slotLabel" id="Stbb2">TBB2</td>
                        <td class="slotLabel" id="Stcc1">TCC1</td>
                        <td class="slotLabel" id="Stcc2">TCC2</td>
                        <td class="slotLabel" id="Stdd2">TDD2</td>
                    </tr>
                    </tbody>
                </table>
            </div>
        </div>
    </div>
</div>
<br><Br>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-8">
            <div class="DataBase">
                <div class="row">
                    <div class="col-sm-4 Col1">
                        <div id="fac1" class="fac">
                        </div>
                        <div id="fac4" class="fac">
                        </div>
                        <div id="fac7" class="fac">
                        </div>
```

```
  <div id="fac10" class="fac">

  </div>

  <div id="fac13" class="fac">

  </div>

  <div id="fac16" class="fac">

  </div>

  <div id="fac19" class="fac">

  </div>

  <div id="fac22" class="fac">

  </div>

  <div id="fac25" class="fac">

  </div>

  <div id="fac28" class="fac">

  </div>

  <div id="fac31" class="fac">

  </div>

  <div id="fac34" class="fac">

  </div>

  <div id="fac37" class="fac">

  </div>

  <div id="fac40" class="fac">

  </div>

  <div id="fac43" class="fac">

  </div>

  <div id="fac46" class="fac">

  </div>

</div>

<div class="col-sm-4 Col2">

  <div id="fac2" class="fac">

  </div>

  <div id="fac5" class="fac">

  </div>

  <div id="fac8" class="fac">

  </div>

  <div id="fac11" class="fac">

  </div>

  <div id="fac14" class="fac">

  </div>
```

```
    <div id="fac17" class="fac">
    </div>
    <div id="fac20" class="fac">
    </div>
    <div id="fac23" class="fac">
    </div>
    <div id="fac26" class="fac">
    </div>
    <div id="fac29" class="fac">
    </div>
    <div id="fac32" class="fac">
    </div>
    <div id="fac35" class="fac">
    </div>
    <div id="fac38" class="fac">
    </div>
    <div id="fac41" class="fac">
    </div>
    <div id="fac44" class="fac">
    </div>
    <div id="fac47" class="fac">
    </div>
  </div>
  <div class="col-sm-4 Col3">
    <div id="fac3" class="fac">
    </div>
    <div id="fac6" class="fac">
    </div>
    <div id="fac9" class="fac">
    </div>
    <div id="fac12" class="fac">
    </div>
    <div id="fac15" class="fac">
    </div>
    <div id="fac18" class="fac">
    </div>
    <div id="fac21" class="fac">
    </div>
```

```
                    <div id="fac24" class="fac">
                    </div>
                    <div id="fac27" class="fac">
                    </div>
                    <div id="fac30" class="fac">
                    </div>
                    <div id="fac33" class="fac">
                    </div>
                    <div id="fac36" class="fac">
                    </div>
                    <div id="fac39" class="fac">
                    </div>
                    <div id="fac42" class="fac">
                    </div>
                    <div id="fac45" class="fac">
                    </div>
                    <div id="fac48" class="fac">
                    </div>
                </div>
            </div>
        </div>
    </div>
    <div class="col-sm-4" align="right">
        <div id="credits" align="middle"><br><h4><b>0</b></h4>CREDITS</div>
    </div>
  </div>
</div>
<br><br>
<div class="container-fluid" align="middle">
  <table class="FFCStable">
    <tbody>
    <tr class="row1"> <!--Baker-->
        <th class="slot week" rowspan="2">Weekdays</th>
        <th class="slotHead">8:00 <br>to<br>8:50</th>
        <th class="slotHead">9:00 <br>to<br>9:50</th>
        <th class="slotHead">10:00 <br>to<br>10:50</th>
        <th class="slotHead">11:00 <br>to<br>11:50</th>
        <th class="slotHead">12:00 <br>to<br>12:50</th>
    <th class="slotHead">-</th>
    <th class="slotHead l">1:00 <br>to<br>1:50</th>
    <th class="slotHead">2:00 <br>to<br>2:50</th>
    <th class="slotHead">3:00 <br>to<br>3:50</th>
    <th class="slotHead">4:00 <br>to<br>4:50</th>
    <th class="slotHead">5:00 <br>to<br>5:50</th>
    <th class="slotHead">6:00 <br>to<br>6:50</th>
    <th class="slotHead">-</th>
</tr>
<tr class="row1">
    <th class="slotHead">8:00 <br>to<br>8:40</th>
    <th class="slotHead">8:45 <br>to<br>9:30</th>
    <th class="slotHead">10:00 <br>to<br>10:45</th>
    <th class="slotHead">10:45 <br>to<br>11:30</th>
    <th class="slotHead">11:30 <br>to<br>12:15</th>
    <th class="slotHead">12:15 <br>to<br>1:00</th>
    <th class="slotHead l">1:00 <br>to<br>1:50</th>
    <th class="slotHead">2:00 <br>to<br>2:45</th>
    <th class="slotHead">2:45 <br>to<br>3:30</th>
    <th class="slotHead">4:00 <br>to<br>4:45</th>
    <th class="slotHead">4:45 <br>to<br>5:30</th>
    <th class="slotHead">5:30 <br>to<br>6:15</th>
    <th class="slotHead">6:15 <br>to<br>7:00</th>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">MONDAY</td>
    <td class="slot A1 " id="A1">A1</td>
    <td class="slot F1 ">F1</td>
    <td class="slot D1 ">D1</td>
    <td class="slot TB1">TB1</td>
    <td class="slot TG1 L5">TG1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot A2">A2</td>
    <td class="slot F2">F2</td>
    <td class="slot D2">D2</td>
    <td class="slot TB2">TB2</td>  <!--change-->
    <td class="slot TG2">TG2</td>   <!--change-->
    <td class="slot">-</td>    <!--change-->
</tr>
<tr class="row1">
    <td class="slot L1">L1</td>
    <td class="slot L2">L2</td>
    <td class="slot L3">L3</td>
    <td class="slot L4">L4</td>
    <td class="slot L5">L5</td>
    <td class="slot L6">L6</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L31">L31</td>
    <td class="slot L32">L32</td>
    <td class="slot L33">L33</td>
    <td class="slot L34">L34</td>
    <td class="slot L35">L35</td>
    <td class="slot L36">L36</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">TUESDAY</td>
    <td class="slot B1 ">B1</td>
    <td class="slot G1 ">G1</td>
    <td class="slot E1 ">E1</td>
    <td class="slot TC1">TC1</td>
    <td class="slot TAA1">TAA1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot B2 ">B2</td>
    <td class="slot G2 ">G2</td>
    <td class="slot E2 ">E2</td>
    <td class="slot TC2">TC2</td>
    <td class="slot TAA2">TAA2</td>
    <td class="slot ">-</td>
</tr>
<tr class="row1">
    <td class="slot L7">L7</td>
    <td class="slot L8">L8</td>
    <td class="slot L9">L9</td>
    <td class="slot L10">L10</td>
    <td class="slot L11">L11</td>
    <td class="slot L12">L12</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L37">L37</td>
    <td class="slot L38">L38</td>
    <td class="slot L39">L39</td>
    <td class="slot L40">L40</td>
    <td class="slot L41">L41</td>
    <td class="slot L42">L42</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">WEDNESDAY</td>
    <td class="slot C1 ">C1</td>
    <td class="slot A1 ">A1</td>
    <td class="slot F1 ">F1</td>
    <td class="slot V1">V1</td>
    <td class="slot V2">V2</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot C2 ">C2</td>
    <td class="slot A2 ">A2</td>
    <td class="slot F2 ">F2</td>
    <td class="slot TD2">TD2</td>
    <td class="slot TBB2">TBB2</td>
    <td class="slot ">-</td>
</tr>
<tr class="row1">
    <td class="slot L13">L13</td>
    <td class="slot L14">L14</td>
    <td class="slot L15">L15</td>
    <td class="slot L16">L16</td>
    <td class="slot ">-</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L43">L43</td>
    <td class="slot L44">L44</td>
    <td class="slot L45">L45</td>
    <td class="slot L46">L46</td>
    <td class="slot L47">L47</td>
    <td class="slot L48">L48</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">THURSDAY</td>
    <td class="slot D1 ">D1</td>
    <td class="slot B1 ">B1</td>
    <td class="slot G1 ">G1</td>
    <td class="slot TE1">TE1</td>
    <td class="slot TCC1">TCC1</td>
    <td class="slot ">-</td>
    <td class="slot l">LUNCH</td>
    <td class="slot D2 ">D2</td>
    <td class="slot B2 ">B2</td>
    <td class="slot G2 ">G2</td>
    <td class="slot TE2">TE2</td>
    <td class="slot TCC2">TCC2</td>
    <td class="slot ">-</td>
</tr>
<tr class="row1">
    <td class="slot L19">L19</td>
    <td class="slot L20">L20</td>
    <td class="slot L21">L21</td>
    <td class="slot L22">L22</td>
    <td class="slot L23">L23</td>
    <td class="slot L24">L24</td>
    <td class="slot l">LUNCH</td>
    <td class="slot L49">L49</td>
    <td class="slot L50">L50</td>
    <td class="slot L51">L51</td>
    <td class="slot L52">L52</td>
    <td class="slot L53">L53</td>
    <td class="slot L54">L54</td>
</tr>
<tr class="row1">
    <td class="slot week" rowspan="2">FRIDAY</td>
    <td class="slot E1 ">E1</td>
    <td class="slot C1 ">C1</td>
```

```
        <td class="slot TA1 ">TA1</td>
        <td class="slot TF1">TF1</td>
        <td class="slot TD1">TD1</td>
        <td class="slot ">-</td>
        <td class="slot l">LUNCH</td>
        <td class="slot E2 ">E2</td>
        <td class="slot C2 ">C2</td>
        <td class="slot TA2 ">TA2</td>
        <td class="slot TF2">TF2</td>
        <td class="slot TDD2">TDD2</td>
        <td class="slot ">-</td>
      </tr>
      <tr class="row1">
        <td class="slot L25">L25</td>
        <td class="slot L26">L26</td>
        <td class="slot L27">L27</td>
        <td class="slot L28">L28</td>
        <td class="slot L29">L29</td>
        <td class="slot L30">L30</td>
        <td class="slot l">LUNCH</td>
        <td class="slot L55">L55</td>
        <td class="slot L56">L56</td>
        <td class="slot L57">L57</td>
        <td class="slot L58">L58</td>
        <td class="slot L59">L59</td>
        <td class="slot L60">L60</td>
      </tr>
      </tbody>
    </table>
</div>
<br><br>
<br><br>
<div class="container-fluid c2" align="middle">
    <div id="text1" align="left"><b>SELECTED COURSES</b></div><br>
    <table class="selectedCourse" id="sec_Course">
      <tbody>
      <tr class="secCourse">          <!--CHange-->
        <th class="secHead"><b>SLOT</b></th>
```

```
            <th class="secHead"><b>CODE</b></th>

            <th class="secHead"><b>TITLE</b></th>

            <th class="secHead"><b>VENUE</b></th>

            <th class="secHead"><b>FACULTY</b></th>

            <th class="secHead"><B>CREDITS</B></th>

            <th class="secHead"></th>    <!--change-->

        </tr>

        </tbody>

    </table>

</div>

<br>

<div id="creds" align="middle" >Total Credits: 0</div><br>

<br><Br>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="javascripts/script2.js"></script>

</body>

</html>
```

CSS Code:

- **style.css**

```
body{

        background-image: url("../images/bg1.jpg");

        max-width: 100% !important;

        height: 100%;

        background-size: cover ;

        background-repeat: no-repeat;

}

.c1{

        padding-left:10vh;

        margin-left: 23vh;

}

#c1a{

        margin-top: 10vh;

        font-size: 52px;

}

#c1b{

        font-size: 30px;
```

```
}
#i1,#i2{
		margin-top: 20px;
		border-left: none;
		border-right: none;
		border-top:none;
		border-width: 2px;
		border-color: black;
		max-width:70%;
}
.c2{
		margin-top: 10vh;
		font-size: 28px;
 }
.modal-header{
		background: linear-gradient( to left,  #fecf32, #ee526c);

}
.B2{
		background: linear-gradient( to left,  #2848be, #954ced);
}
/*Media Queries for a Responsive Website*/
#b1, #b2, #b3,#b4, #b5{
		font-family: 'Montserrat', sans-serif;
		margin: 12px;
		width:200px;
		color: white;
}
#uname,#psw{
		font-family: 'Montserrat', sans-serif;
}
#b1{
		background: linear-gradient( to left,  #2848be, #954ced);
}
#b3{
		background: linear-gradient( to left,  yellow, deeppink);
}
#b2{
        background: linear-gradient( to left,  #fecf32, #ee526c);
}
#b4{
        background: linear-gradient( to left, #f7fe1f, #ee2a68);
}
#b1:hover, #b2:hover, #b3:hover, #b4:hover {
        cursor:pointer;
        color:black;
}
@media (max-width: 885px)
{
        .c1{
                padding-left:5vh;
                margin-left: 13vh;
        }
        #c1a{
                margin-top: 5vh;
                font-size: 40px;
        }
        #c1b{
                font-size: 20px;
        }
}
@media (max-width: 670px)
{
        .c1{
                padding-left:3vh;
                margin-left: 2vh;
        }
        #c1a{
                margin-top: 3vh;
                font-size: 25px;
        }
        #c1b{
                font-size: 15px;
        }
}
```

- **style2.css**

```
body{
   background-image: url("../images/bg1.jpg");
   max-width: 100% !important;
   height: 100%;
   background-size: cover ;
   background-repeat: no-repeat;
   background-attachment: fixed;


}
.yellowBG{
   color: yellow !important;
}
/*BAKER*/
.slotLabel:hover{
   font-weight: bold;
   cursor:pointer;
}
.testSlot{
   background: linear-gradient(rgba(142, 43, 255, 0.5), rgba(12, 43, 238, 0.63))!important;
   transition: 0.8s;
}
.textBold{
   font-weight: bold;
}
.row1{
   height:70px !important;
}
.week{
   width:100px; !important;
   padding:1px !important;
}
.l{
   width: 70px;
}
.FFCStable{
   table-layout: fixed;
}
```

```
/*Baker ends*/
.brand-logo{
   margin-left:5vh !important;
   color:black !important;
   font-family: 'Alegreya Sans', sans-serif !important;
}
.m{
   font-size: 3vh !important;
   color:black !important;
   margin-right: 5vh;
   font-family: 'Alegreya Sans', sans-serif !important;
}
nav{
   background-color: rgba(0,0,0,0.1)!important;
}
.c1{
   margin-top: 50px;
   font-family: 'Alegreya Sans', sans-serif !important;
}
/*change*/
.cross {
   color: red;
}
.close:hover{
   cursor: pointer;
   font-weight: bold;
}
.fac:hover{
   cursor: pointer;
   font-weight: bold;
}
/*change*/
.slotTable{
   background-color: rgba(242,242,242,0.8) !important;
   text-align: center!important;
   font-family: 'Montserrat', sans-serif !important;
}
.FFCStable, .row1, .slotHead, .slot{
   background-color: rgba(242,242,242,0.4) !important;
   text-align: center!important;
   border: 1px solid black;
   border-collapse: collapse;
   padding:2px !important;
   size: 4px!important;
   font-family: 'Montserrat', sans-serif !important;
}
.TH{
   background: linear-gradient(rgba(255, 163, 42, 0.5), rgba(238, 42, 104, 0.63))!important;
   color:black;
}
.LAB{
   background: linear-gradient(rgba(73, 89, 255, 0.5), rgba(57, 239, 71, 0.84))!important;
   color:black;
}
.FFCStable{
   max-width: 90%;


}
.selectedCourse{
   width:85%;
   background-color: rgba(242,242,242,0.8) !important;
   text-align: center!important;
   font-size: 2.5vh !important;
   font-family: 'Montserrat', sans-serif !important;
}
#text1{
   font-size: 3vh !important;
   margin-left: 15vh;
}
#text2{
   font-size: 2.8vh !important;
   font-family: 'Alegreya Sans', sans-serif !important;
}
td,th
{
   text-align: center!important;
```

```
}
#title, #fac{
   font-size: 3vh !important;
   color:black !important;
   font-family: 'Montserrat', sans-serif !important;
}
.font1{
   font-family: 'Alegreya Sans', sans-serif !important;
}
.BFac{
   width:60% !important;
   background: linear-gradient( to left, #1429ff, deeppink) !important;
   opacity:0.8 !important;
}
.BFac:hover{
   color: black; !important;
}
/*CSS FOR SWITCH*/
/* The switch - the box around the slider */

.switch label input[type=checkbox] +.lever {
   font-size: 4vh !important;
   background: linear-gradient( to left,  yellow, deeppink) !important;
   opacity: 0.8;
}
.switch label input[type=checkbox] +.lever:after {
   background-color: rgba(132,132,191) !important;
}
#sw1{
   border-left: none;
   border-right: none;
   border-top:none;
   border-width: 2px;
   border-color: black;
   max-width:70%;
}
/*CSS END*/
#credits{
   background: linear-gradient( to left,  yellow, deeppink) !important;
   width:140px;
   margin-right: 100px;
   height:140px;
   border-radius:70px;
   font-family: 'Montserrat', sans-serif !important;
   color:white;
}
.DataBase{
   height:30vh;
   font-family: 'Montserrat', sans-serif !important;
   font-size:2.5vh;
   overflow-x: hidden;
}
```

JavaScript Code:

- **script.js**

```
$(document).ready(()=>{
    setTimeout(function(){ window.location.replace("/"); }, 1000 * 60 * 2);
        //--------------------------------------------GLOBAL VARIABLES---------------------------
        var getJSON = [];
        var slotInit =[];
        var slotName=[];
        var counter=0;
        var dataJSON=[];
        var facID=1;
        var n;
        var extractfacID; //Change
        var state = true; //change2
        var removeslotFlag=0;
        var ced = 0;
        let remaining = 0;
        $(".lever").on("click",()=>{
          state = !state;
          updateFreshCourses();
        });
        //------------------------------------------------------------------------------------------
    function addDataToList(s,c,t,v,f,cd,id_cell) //Updating selected courses table
    {
      var table = document.getElementById("sec_Course");
      var row=table.insertRow(1);
      row.id="row"+id_cell;//change
      var slot=row.insertCell(0);
      var code=row.insertCell(1);
      var title=row.insertCell(2);
      var ven=row.insertCell(3);
      var facl=row.insertCell(4);
      var cred=row.insertCell(5);
      var delt=row.insertCell(6);// CHANGE
      delt.id="id"+id_cell;//change
      var classN="close" ; //change
      slot.innerHTML=s;
      code.innerHTML=c;
      title.innerHTML=t;
      ven.innerHTML=v;
      facl.innerHTML=f;
      cred.innerHTML=cd;
      delt.innerHTML="<b/><i class=\"fas fa-times cross\"/></b/>"; //CHANGE
      $("#"+delt.id).addClass(classN);//CHANGE
    }
//-------------------------------------------------------------------------------- Baker
var temp="0";
var temp2="#0";
$(".slotLabel").on("click", function(){
  var innerHTMLElement= (this.id).toUpperCase();
  innerHTMLElement = innerHTMLElement.substr(1, innerHTMLElement.length);
  innerHTMLElement = "." + innerHTMLElement;
  console.log($(innerHTMLElement).hasClass("testSlot"), "for class", innerHTMLElement);
  if($(innerHTMLElement).hasClass("testSlot") == false) {
    $(temp).removeClass("testSlot");
    $(temp2).removeClass("textBold");
    console.log("Changing bold at",temp2);
    temp = innerHTMLElement;
    $(temp2.substr(0,1)+this.id).addClass("textBold"); //Extracting the # sign
    if($(innerHTMLElement).hasClass("TH")== false)
```

```
      $(innerHTMLElement).addClass("testSlot");
  }
  else{
    $(temp).removeClass("testSlot");
    $(temp2).removeClass("textBold");
  }
  temp2=temp2.substr(0,1)+(this.id); //Extracting th
});
//------------------------------------------------------------------------------ Baker ends
function extractSlot() {
        var flag=0;
        var length=dataJSON[facID]["SLOT"].length;
        var i=0;
        for(;i<length;i++) //Check if + sign is present which means there are more than 1 slots
          if(dataJSON[facID]["SLOT"][i]=="+"){
            flag=1; //Flag to 1 if more than 1 slot present
            break;
          }
        if (flag == 1) {
          slotName[facID]=".";
          slotName[facID] =slotName[facID] + dataJSON[facID]["SLOT"].substr(0, i); //Store the first part of the slot in slotName
          dataJSON[facID]["SLOT"] =dataJSON[facID]["SLOT"].substr(i+1, length); //Store the later part of the slot in slot
          changeSlotColor(slotName[facID], dataJSON[facID]["CODE"]); //Call function to change color
          if(dataJSON[facID]["SLOT"].localeCompare("")!=0) // If slot has another part
            extractSlot();
        }
        else {
          slotName[facID]=".";
          slotName[facID] = slotName[facID] + dataJSON[facID]["SLOT"]; // Copy slot to slotName and call fxn to change color
          changeSlotColor(slotName[facID], dataJSON[facID]["CODE"]);
          return;
        }
      }
      function changeSlotColor(s, code, flag02) {//Multiple changes
      console.log(s);
        console.log("BURBERRY runs");
        var slotI = s.substr(1, s.length);
        // console.log("Pancake runs changeslotColor");
        if (removeslotFlag == 1) {
          // console.log("Strawberry runs if", $(s).hasClass("TH") == true);
          if ($(s).hasClass("TH") == true)//Change
          {
            // console.log("Pancake tries removing", s);
            $(s).removeClass("TH");
            // console.log("Removing class and changing html element to",s);
            $(s).html(slotI);
          }
          else { //strawberry
            // console.log("Strawberry runs else");
            $(s).addClass("TH");//Change
            $(s).html(code + "-" + '<br/>' + slotI);
          }
        }
        else {
          // console.log("Strawberry runs else");
          $(s).addClass("TH");//Change
          $(s).html(code + "-" + '<br/>' + slotI);
        }
      }
  //updateFreshCourses(); //Function to be called when JSON object is received. STATUS:200 @Angad?
  // to check if given string i json or not
  function isJSON(str){
   try{
    JSON.parse(str);
   }
   catch(e){
    return false;
   }
   return true;
  }
  function updateFreshCourses(){
  console.log("updateFreshCourses() running");
  if(isJSON(dataJSON))
   dataJSON = JSON.parse(dataJSON);
  //LET US ASSUME THAT THE FACULTY LIST IS STORED IN A ARRAY  OF DICTIONARY IN javascript
  //@Angad JSON store the JSON data into this dictionary array.
```

```
  //Extract it from the object and store it in dataJSON
  counter=0;
n=dataJSON.length;
slotInit =[];
//Pancake
   for(var l3=0;l3<n;l3++)
      slotInit[l3]=dataJSON[l3]["SLOT"];
SLOTName=[];
  //------------------------------------------UPDATE TABLE-------------------------------------------//
  var count0=0;
  $.get("/timetable/classSize", (dex, status) =>{
  for(var l =0; l<n ;l++){  //Loop to update table
   // var data =dataJSON[l]["SLOT"]+"|"+dataJSON[l]["VENUE"]+"|"+dataJSON[l]["FACULTY"]+"|";
   // if (data.length >=23)
   //     $("#fac"+(l+1)).html(data.substr(0,23)+ data.substr(23, data.length)+'<hr/>');
   // else
   //     $("#fac"+(l+1)).html(data+'<hr/>');
     remaining = parseInt(dex) - dataJSON[l]["COUNT"]
     var data = dataJSON[l]["SLOT"] + "|" + dataJSON[l]["VENUE"] + "|" + dataJSON[l]["FACULTY"] + "|";
     if(state) //Superman
     {
        if(dataJSON[l]["SLOT"][0]=='L'){
          if (data.length >= 14)
             $("#fac" + (counter + 1)).html(data.substr(0, 14) + data.substr(14, data.length) + '<hr/>');
          else
             $("#fac" + (counter + 1)).html(data + '<hr/>');
        counter++;
        }
     }
     else {
       if(dataJSON[l]["SLOT"][0]!='L'){
        if (data.length >= 14)
           $("#fac" + (count0 + 1)).html(data.substr(0, 14) + data.substr(14, data.length) + '<hr/>');
        else
           $("#fac" + (count0 + 1)).html(data + '<hr/>');
        count0++;
       }
     }
```

```
//Table updated with course options
      }
    });
    }//End of updateFreshCourses()
    //--------------------------------------------------------------------------------------------
    var flag=0; // The next is being called 6 times, fixing bug forcefully
    $(".fac").click(function() {
        console.log("running", this.id, "with flag", flag);
        facID=(this.id); // or alert($(this).attr('id'));
        facID= parseInt(facID.substr(3,facID.length));
        updateFrontend ();
        console.log("runningIF", this.id);
        flag++;
    });
//
// //Remove courses   -------------------change-------------------------------------------------------------
$(document).on('click', '.close', function(){
  removeslotFlag=1;//pancake
  extractfacID=parseInt((this.id).substr(2,(this.id).length));
  $("#row"+extractfacID).remove();
  // ced=ced-parseInt(dataJSON[extractfacID]["CREDITS"]);
  // $("#creds").html('Total Credits: ' + ced);
  // $("#credits").html("<br><h4><b>" + ced + "</b></h4>CREDITS");
  //dataJSON[extractfacID]["SLOT"]=slotInit[extractfacID];
    facID=extractfacID;
    $.ajax({
        url:'/timetable/del',
        type:'DELETE',
        data:dataJSON[extractfacID],
        success:()=>{
            console.log("Successfully sent the delete request");
            //TODO can this work?
            // var target = slotInit[extractfacID].split('+');
            // for(i of target){
            //   changeSlotColor('.'+i,dataJSON[facID]['CODE']);
            // }
            location.reload();
        },
        error:()=>{
            console.log("Error sending delete AJAX request");
        }
    });
});
//----------------------------------------End----------------------------------------------------------
    //------------------------------------------------------------------------------------------------------------------------
    /*Function: updateFrontend()
    T-> Will be invoked when a subject is clicked
    */
        function updateFrontend(){
          facID--;
        console.log("SUPERMAN", facID);
        slotInit[facID]=dataJSON[facID]["SLOT"];
        $.post("/timetable/save",dataJSON[facID],(res)=>{
            if(res.status == "clashed"){
                alert("Slot(s) clashed! "+res.info+" Slot was clashed");
            } else if(res.status == "limit"){
                alert("You cannot register more than 27 credits! You can only register "+res.info+" more credits");
            } else if(res.status == "course_limit") {
                alert("This particular classroom is full")
            }
            else{
                alert(`Course Added. Number of people left in the classroom = ${res.count}`);
                ced = res.info;
                $("#creds").html('Total Credits: ' + res.info)
                $("#credits").html("<br><h4><b>"+res.info+"</b></h4>CREDITS")
                addDataToList(slotInit[facID], dataJSON[facID]["CODE"], dataJSON[facID]["TITLE"], dataJSON[facID]["VENUE"],
dataJSON[facID]["FACULTY"] , dataJSON[facID]["CREDITS"],facID);
                slotName[facID]=".";
                extractSlot();
            }
        });
        //addDataToList(slotInit[facID], dataJSON[facID]["CODE"], dataJSON[facID]["TITLE"], dataJSON[facID]["VENUE"],
dataJSON[facID]["FACULTY"] , dataJSON[facID]["CREDITS"]);
        // console.log(length);
        //slotName[facID]=".";
        //extractSlot();
        //Demo data feed
        // //type="TH";
        // changeSlotColor(".A1", "CSE1003");
        // changeSlotColor(".B1", "PHY1999");
        // changeSlotColor(".E2", "CHY1701");
        // changeSlotColor(".C2", "MAT2002");
        //Demo data feed end
        // console.log(slotName,"slotName");
    }//End of updateFrontend()
    $("#sb").on("click",(e)=>{
        e.preventDefault();
        $.post("/timetable",{CODE:$("#i1").val().toUpperCase()},(data)=>{
            dataJSON = data;
            updateFreshCourses();
        });
    });
    //to get stored data
    $.get("/timetable/fetch",(data)=>{
        dataJSON = data.data;
        ced = data.credits;
        $("#creds").html('Total Credits: ' + data.credits);
        $("#credits").html("<br><h4><b>"+data.credits+"</b></h4>CREDITS");
        //TODO define slotInit
        for(var j=0;j<dataJSON.length;j++){
            addDataToList(dataJSON[j]["SLOT"], dataJSON[j]["CODE"], dataJSON[j]["TITLE"], dataJSON[j]["VENUE"],
dataJSON[j]["FACULTY"] , dataJSON[j]["CREDITS"], facID);
            extSlot(j);
        }
    });
    function extSlot(b) {
        var flag=0;
        var length=dataJSON[b]["SLOT"].length;
        var i=0;
        for(;i<length;i++) //Check if + sign is present which means there are more than 1 slots
            if(dataJSON[b]["SLOT"][i]=="+"){
                flag=1; //Flag to 1 if more than 1 slot present
                break;
            }
        if (flag == 1) {
            slotName[b]=".";
            slotName[b] =slotName[b] + dataJSON[b]["SLOT"].substr(0, i); //Store the first part of the slot in slotName
            dataJSON[b]["SLOT"] =dataJSON[b]["SLOT"].substr(i+1, length); //Store the later part of the slot in slot
            changeSlotColor(slotName[b], dataJSON[b]["CODE"]); //Call function to change color
            if(dataJSON[b]["SLOT"].localeCompare("")!=0) // If slot has another part
              extSlot(b);
        }
        else {
            slotName[b]=".";
            slotName[b] = slotName[b] + dataJSON[b]["SLOT"]; // Copy slot to slotName and call fxn to change color
            changeSlotColor(slotName[b], dataJSON[b]["CODE"]);
            return;
        }
    }
});
```

- **script2.js**

```
var slotInit =[];
var slotName=[];
var counter=0;
var dataJSON=[];
var facID;
var n;
var extractfacID; //Change
var state = "L";
var noSignUPsubCounter=0;
var clashStatus=0;
var removeslotFlag=0;
var arraySubject = [];
var length;
var ced;
arraySubject =[];
var facIDReplace;
var state = true; //change2
function changeslotColor(s, code, flag02) {//Multiple changes
console.log(s);
    console.log("BURBERRY runs");
    var slotI = s.substr(1, s.length);
    // console.log("Pancake runs changeslotColor");
    if (removeslotFlag == 1) {
        // console.log("Strawberry runs if", $(s).hasClass("TH") == true);
        if ($(s).hasClass("TH") == true)//Change
        {
            // console.log("Pancake tries removing", s);
            $(s).removeClass("TH");
            // console.log("Removing class and changing html element to",s);
            $(s).html(slotI);
        }
        else { //strawberry
            // console.log("Strawberry runs else");
            $(s).addClass("TH");//Change
            $(s).html(code + "-" + '<br/>' + slotI);
        }
    }
    else {
        // console.log("Strawberry runs else");
        $(s).addClass("TH");//Change
        $(s).html(code + "-" + '<br/>' + slotI);
    }
}
$(".lever").on("click",()=>{
  state = !state;
  updateFreshCourses();
});
// console.log("STATE1:", arraySubject, "and", dataJSON);
//---------------------------------------------------------------------------------------
updateFreshCourses(); //Function to be called when JSON object is received. STATUS:200 @Angad?
// to check if given string i json or not
function isJSON(str){
  try{
    JSON.parse(str);
  }
  catch(e){
    return false;
  }
  return true;
```

```
}
  $("#sb").on("click",(e)=>{
    e.preventDefault();

    $.post("/nosignup/timetable",{CODE:$("#i1").val().toUpperCase()},(data)=>{
      dataJSON = data;
      updateFreshCourses();
    });
  });
    function updateFreshCourses(){
    console.log("updateFreshCourses() running");
    if(isJSON(dataJSON))
     dataJSON = JSON.parse(dataJSON);
    //LET US ASSUME THAT THE FACULTY LIST IS STORED IN A ARRAY  OF DICTIONARY IN javascript
    //@Angad JSON store the JSON data into this dictionary array.
    //Extract it from the object and store it in dataJSON
    counter=0;
   n=dataJSON.length;
   slotInit =[];
   //Pancake
     for(var l3=0;l3<n;l3++)
       slotInit[l3]=dataJSON[l3]["SLOT"];
   slotName=[];
    //-----------------------------------------UPDATE TABLE------------------------------------------//
    var count0=0;
    for(var l =0; l<n ;l++){  //Loop to update table
     // var data =dataJSON[l]["slot"]+"|"+dataJSON[l]["VENUE"]+"|"+dataJSON[l]["FACULTY"]+"|";
     // if (data.length >=23)
     //    $("#fac"+(l+1)).html(data.substr(0,23)+ data.substr(23, data.length)+'<hr/>');
     // else
     //    $("#fac"+(l+1)).html(data+'<hr/>');
     var data = dataJSON[l]["SLOT"] + "|" + dataJSON[l]["VENUE"] + "|" + dataJSON[l]["FACULTY"] + "|";
     if(state) //Superman
     {
       if(dataJSON[l]["SLOT"][0]=='L'){
        if (data.length >= 14)
          $("#fac" + (counter + 1)).html(data.substr(0, 14) + data.substr(14, data.length) + '<hr/>');
        else
```

```
          $("#fac" + (counter + 1)).html(data + '<hr/>');
       counter++;
       }
     }
     else {
      if(dataJSON[l]["SLOT"][0]!='L'){
       if (data.length >= 14)
         $("#fac" + (count0 + 1)).html(data.substr(0, 14) + data.substr(14, data.length) + '<hr/>');
       else
         $("#fac" + (count0 + 1)).html(data + '<hr/>');
       count0++;
      }
     }
    }//Table updated with course options
    }//End of updateFreshCourses()
//----------------------------------------------------------------------------------------------------------------
//------------------------------------------------------------------------------------------------- Baker
var temp="0";
var temp2="#0";
$(".slotLabel").on("click", function(){
  var innerHTMLElement= (this.id).toUpperCase();
  innerHTMLElement = innerHTMLElement.substr(1, innerHTMLElement.length);
  innerHTMLElement = "." + innerHTMLElement; //Extracting class
  // console.log($(innerHTMLElement).hasClass("testslot"), "for class", innerHTMLElement);
  if($(innerHTMLElement).hasClass("testSlot") == false) {
    $(temp).removeClass("testSlot");
    $(temp2).removeClass("textBold");
    temp = innerHTMLElement;
    $(temp2.substr(0,1)+this.id).addClass("textBold"); //Extracting the # sign
    if($(innerHTMLElement).hasClass("TH")== false)
    {
      $(innerHTMLElement).addClass("testSlot");}
  }
  else{
    $(temp).removeClass("testSlot");
    $(temp2).removeClass("textBold");
  }
  temp2=temp2.substr(0,1)+(this.id); //Extracting th
```

```
});
//------------------------------------------------------------------------------------- Baker ends
var flag=0;
$(".fac").click(function() {
    facID=(this.id); // or alert($(this).attr('id'));
    facID= parseInt(facID.substr(3,facID.length));
    // console.log("id clicked",facID); //superman
    var html_cont = document.getElementById(this.id).innerHTML;
    html_cont=html_cont+"|";
    // console.log("HTML content", html_cont);
    var slot, ven,fac0,i0,i1;
    for(i0=0;i0<html_cont.length;i0++) //Extract slot
    {
        if(html_cont[i0].localeCompare("|")==0)
            break;
    }
    slot=html_cont.substr(0,i0);
    for(i1=i0+1;i1<html_cont.length;i1++) //Extract slot
    {
        if(html_cont[i1].localeCompare("|")==0) {
            // console.log("breaking at", html_cont[i1]);
            break;
        }
    }
    ven=html_cont.substring(i0+1,i1);
    // console.log("VENUE", ven," from",i0+1," to ", i1);
    // console.log("ven", ven , "start at:",html_cont[i0+1],"ending at", html_cont[i1], "cotent being", html_cont);
    for(i0=i1+1;i0<html_cont.length;i0++) //Extract slot
    {
        if(html_cont[i0].localeCompare("|")==0) {
            break;
        }
    }
    fac0=html_cont.substring(i1+1,i0);
    // console.log("slot", slot, "code", ven, " FACULTY", fac0);
    facIDReplace=-1;
    // console.log("Pancake prints n", n);
    for(var findC=0; findC<n; findC++)
```

```
  {
    // console.log("to be compared with", slotInit[findC]);
    // console.log("slot, VENUE, fac", dataJSON[findC]["slot"]);
    if(slotInit[findC].localeCompare(slot)==0 && dataJSON[findC]["VENUE"].localeCompare(ven)==0 &&
dataJSON[findC]["FACULTY"].localeCompare(fac0)==0) {
      facIDReplace = findC;
      break;
    }
  }
  // console.log("Tracked ID:", facIDReplace);
  facID=facIDReplace;
  var slotClash=0;
  var slotCompare=[];
  var toBeComparedWith =[];
  function DummyExtractslot(slotDummy){
    var k=0;
    var l5;
    for(l5=0;l5<slotDummy.length; l5++)
    {
      if(slotDummy[l5].localeCompare("+")==0)
      {
        toBeComparedWith[k]=slotDummy.substring(0,l5);
        slotDummy=slotDummy.substring(l5+1, slotDummy.length);
        l5=0;
        k++;
      }
    }
    toBeComparedWith[k]=slotDummy.substring(0,l5);
  }
  function ExtractslotForIncomingCourse(slotDummy){
    var k=0;
    var l5;
    for(l5=0;l5<slotDummy.length; l5++)
    {
      if(slotDummy[l5].localeCompare("+")==0)
      {
        slotCompare[k]=slotDummy.substring(0,l5);
        slotDummy=slotDummy.substring(l5+1, slotDummy.length);
```

```
            l5=0;
            k++;
        }
    }
    slotCompare[k]=slotDummy.substring(0,l5);
}
ExtractslotForIncomingCourse(slotInit[facID]);
for(var l6=0;l6<noSignUPsubCounter;l6++)//Check whether any slots clashed or not
{
    DummyExtractslot(arraySubject[l6]["SLOT"]);
    for(var l7=0; l7<slotCompare.length;l7++)
    {
        for(var l6=0; l6<toBeComparedWith.length;l6++)
        {
            if(slotCompare[l7].localeCompare(toBeComparedWith[l6])==0){
                slotClash=1;
                break;
            }
        }
        if(slotClash==1)
            break;
    }
    if(slotClash==1)
        break;
}
if(slotClash==1)
{
    alert("slot(s) clashed");
    slotClash =0;
    return;
}
arraySubject[noSignUPsubCounter] = {
    "SLOT": slotInit[facID],
    "CODE": dataJSON[facID]["CODE"],
    "TITLE": dataJSON[facID]["TITLE"],
    "VENUE": dataJSON[facID]["VENUE"],
    "FACULTY": dataJSON[facID]["FACULTY"],
    "CREDITS": dataJSON[facID]["CREDITS"]
```

```
  };
  noSignUPsubCounter++;
  updateFrontend (0);
  flag++;
});
//------------------------------------------------------------------------------------------------------------------------
//Remove courses   -------------------change-------------------------------------------------------------
$(document).on('click', '.close', function(){
  // console.log('pancake');
  removeslotFlag=1;//pancake
  extractfacID=parseInt((this.id).substr(2,(this.id).length));
  $("#row"+extractfacID).remove();
  dataJSON[extractfacID]["SLOT"]=slotInit[extractfacID];
  facID=extractfacID;
  ced=ced- parseInt(dataJSON[facID]["CREDITS"]);
  $("#creds").html('Total Credits: ' + ced);
  $("#credits").html("<br><h4><b>" + ced + "</b></h4>CREDITS");
  for(var l6=0;l6<arraySubject.length; l6++)
  {
    if(!arraySubject[l6]["SLOT"]){
     console.log("Undefined");
    }
    else if(arraySubject[l6]["SLOT"].localeCompare(slotInit[facID])== 0  &&
arraySubject[l6]["FACULTY"].localeCompare(dataJSON[facID]["FACULTY"])== 0)
    {
      for(var l7=l6;l7<arraySubject.length-1;l7++)
      {
        arraySubject[l7] = {
          "SLOT": arraySubject[l7+1]["SLOT"],
          "CODE": arraySubject[l7+1]["CODE"],
          "VENUE": arraySubject[l7+1]["TITLE"],
          "FACULTY": arraySubject[l7+1]["FACULTY"],
          "CREDITS": arraySubject[l7+1]["CREDITS"]
        };
      }
      arraySubject[l7] = {
        "SLOT": NaN,
        "CODE": NaN,
                "VENUE": NaN,
                "FACULTY": NaN,
                "CREDITS": NaN
            };
            noSignUPsubCounter--;
            break;
        }
    }
    updateFrontend(1);
});
//----------------------------------------End---------------------------------------------------------
/*Function: updateFrontend()
T-> Will be invoked when a subject is clicked
*/
function updateFrontend(flag02) {
    length = slotInit[facID].length;
    if (flag02 == 0) {   // Replaced 2x changes
        slotName[facID] = ".";
        dataJSON[facID]["SLOT"]=slotInit[facID];
        extractslot();
        // console.log("Strawberry runs extractslot() 1");
        if (clashStatus == 1) {
            clashStatus = 0;
        }
        else {
            clashStatus = 0;
            ced = 0;
            for (var l2 = 0; l2 < noSignUPsubCounter; l2++)
                ced += parseInt(arraySubject[l2]["CREDITS"]);
            $("#creds").html('Total Credits: ' + ced);
            $("#credits").html("<br><h4><b>" + ced + "</b></h4>CREDITS");
            addDataToList(slotInit[facID], dataJSON[facID]["CODE"], dataJSON[facID]["TITLE"], dataJSON[facID]["VENUE"], dataJSON[facID]["FACULTY"], dataJSON[facID]["CREDITS"], facID);
        }
    }
    else{
        extractslot();
        // console.log("Strawberry runs extractslot() 2");
```

```
}
function extractslot() {
    var flag = 0;
    var i = 0;
    for (; i < length; i++) //Check if + sign is present which means there are more than 1 slots
        if (dataJSON[facID]["SLOT"][i] == "+") {
            flag = 1; //Flag to 1 if more than 1 slot present
            break;
        }
    if (flag == 1) {
        // console.log("CHECKPOINT is ", slotInit[facID]);
        slotName[facID] = ".";
        slotName[facID] = slotName[facID] + dataJSON[facID]["SLOT"].substr(0, i); //Store the first part of the SLOT in slotName
        dataJSON[facID]["SLOT"] = dataJSON[facID]["SLOT"].substr(i + 1, length); //Store the later part of the SLOT in SLOT
        // console.log("{ancake tests value of if",($(slotName[facID]).hasClass("TH") == true  && removeslotFlag==0));
        if ($(slotName[facID]).hasClass("TH") == true   && removeslotFlag==0) {
            alert("SLOTS CLASHED"); //If slots clashed then dont change color
            clashStatus = 1;
            return;
        }
        else if($(slotName[facID]).hasClass("TH") == true && removeslotFlag==1)
        {
            changeslotColor(slotName[facID], dataJSON[facID]["CODE"]); //Call function to change color
        }
        else {
            changeslotColor(slotName[facID], dataJSON[facID]["CODE"]); //Call function to change color
        }
        if (dataJSON[facID]["SLOT"].localeCompare("") != 0) // If SLOT has another part
        {
            extractslot();
            length = dataJSON[facID]["SLOT"].length;
        }
    }
    else {
        slotName[facID] = ".";
        slotName[facID] = slotName[facID] + dataJSON[facID]["SLOT"]; // Copy SLOT to slotName and call fxn to change color
        if ($(slotName[facID]).hasClass("TH") == true && removeslotFlag==0) {
            alert("SLOTS CLASHED"); //If slots clashed then dont change color
```

```
                clashStatus = 1;
                return;
            }
            else {
                changeslotColor(slotName[facID], dataJSON[facID]["CODE"]);
            }
            return;
        }
    }
    function addDataToList(s, c, t, v, f, cd, id_cell) //Updating selected courses table
    {
        // console.log("should read empty", arraySubject);
        // for(var l4=0; l4<arraySubject.length; l4++){
        //     if(arraySubject[l4]["SLOT"].localeCompare(slotInit[facID])== 0  ||
arraySubject[l4]["FACULTY"].localeCompare(dataJSON[facID]["FACULTY"])== 0){
        //         alert("SLOT BOOM");
        //         return;
        //     }
        //
        //  }
        var table = document.getElementById("sec_Course");
        var row = table.insertRow(1);
        row.id = "row" + id_cell;//change
        var slot = row.insertCell(0);
        var code = row.insertCell(1);
        var title = row.insertCell(2);
        var ven = row.insertCell(3);
        var facl = row.insertCell(4);
        var cred = row.insertCell(5);
        var delt = row.insertCell(6);// CHANGE
        delt.id = "id" + id_cell;//change
        var classN = "close"; //change
        slot.innerHTML = s;
        code.innerHTML = c;
        title.innerHTML = t;
        ven.innerHTML = v;
        facl.innerHTML = f;
        cred.innerHTML = cd;
        delt.innerHTML = "<b/><i class=\"fas fa-times cross\"/></b/>"; //CHANGE
        $("#" + delt.id).addClass(classN);//CHANGE
    };
}
```

CODE (BACKEND):

app.js

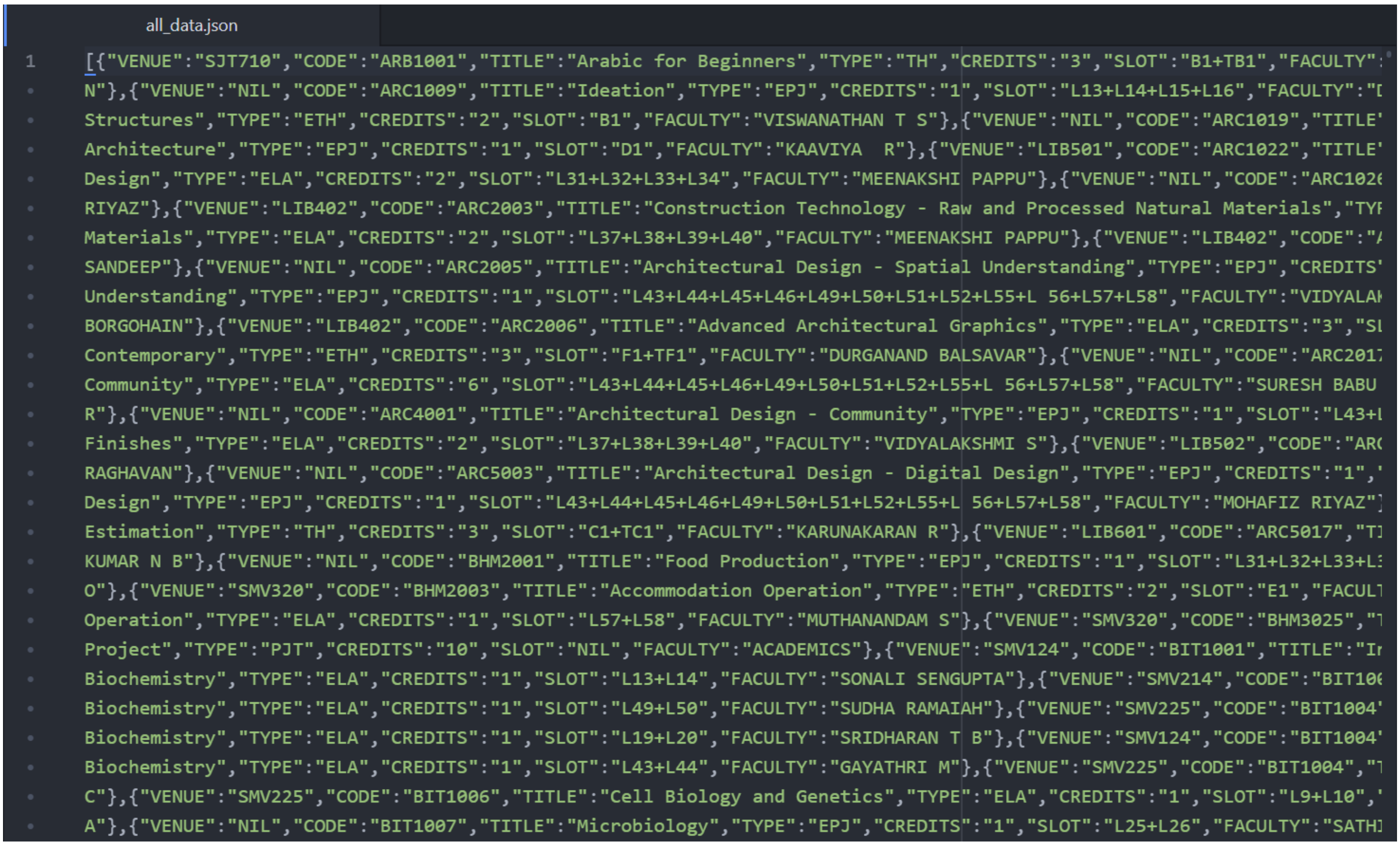
```
//https://stackoverflow.com/questions/16827987/expressjs-throw-er-unhandled-error-event
const express = require("express");
const path = require("path")
//for Oauth-2.0 login
const passport = require("passport");

require("dotenv").config()
//require('./db/passport_setup.js');

const morgan = require("morgan");

//GraphQL handler
const { graphqlHTTP } = require('express-graphql');
const schema = require("./graphql/schema");



//session handler
var session = require("express-session");

//handler for post requests
const bodyparser = require('body-parser');

//for main routing functions
const main_router = require("./routes/route");

//slot saving router function
const saveslot_router = require("./routes/slot_saving");
```

```
//no-sign-up router

const nosignup = require("./routes/nosignup");


//google+ Oauth-2.0 router

const auth_router = require("./routes/auth_routes");


//load database and save JSON data of courses in it

require("./db/load_in_db");


//set up a server

var app = express();

//for using urlencodedParser in post requests

app.use(bodyparser.json());

app.use(bodyparser.urlencoded({extended:false}));


app.use(morgan('dev'));




//set up a view engine

app.set("view engine","ejs");


//set up middleware for static files

app.use(express.static(path.join(__dirname, 'public')));


//set up a session (It uses cookies)

app.use(session({secret:process.env.COOKIE_SECRET_KEY,

            saveUninitialized:false,

            resave:false

          }));


//use passport js

app.use(passport.initialize());

app.use(passport.session());
```

```
//call the main router
app.use(main_router);

//call slot router function
app.use("/timetable",saveslot_router);

//call no-sign-up router
app.use("/nosignup",nosignup);

//call Oauth-2.0 router for Google+ login
app.use("/auth",auth_router);

// chatbot fulfillment
app.use("/",require("./routes/chatbot"));



//graphql API
app.use(
  '/graphql',
  graphqlHTTP({
    schema,
    graphiql: true,
  }),
);

//listen on specified port

app.listen(process.env.PORT || 3000,function(){
    console.log("Listening on localhost" );
});
```

<u>db - Folder:</u>

- **all_data.json:**



```
[{"VENUE":"SJT710","CODE":"ARB1001","TITLE":"Arabic for Beginners","TYPE":"TH","CREDITS":"3","SLOT":"B1+TB1","FACULTY":
N"},{"VENUE":"NIL","CODE":"ARC1009","TITLE":"Ideation","TYPE":"EPJ","CREDITS":"1","SLOT":"L13+L14+L15+L16","FACULTY":"D
Structures","TYPE":"ETH","CREDITS":"2","SLOT":"B1","FACULTY":"VISWANATHAN T S"},{"VENUE":"NIL","CODE":"ARC1019","TITLE"
Architecture","TYPE":"EPJ","CREDITS":"1","SLOT":"D1","FACULTY":"KAAVIYA  R"},{"VENUE":"LIB501","CODE":"ARC1022","TITLE"
Design","TYPE":"ELA","CREDITS":"2","SLOT":"L31+L32+L33+L34","FACULTY":"MEENAKSHI PAPPU"},{"VENUE":"NIL","CODE":"ARC1026
RIYAZ"},{"VENUE":"LIB402","CODE":"ARC2003","TITLE":"Construction Technology - Raw and Processed Natural Materials","TYP
Materials","TYPE":"ELA","CREDITS":"2","SLOT":"L37+L38+L39+L40","FACULTY":"MEENAKSHI PAPPU"},{"VENUE":"LIB402","CODE":"A
SANDEEP"},{"VENUE":"NIL","CODE":"ARC2005","TITLE":"Architectural Design - Spatial Understanding","TYPE":"EPJ","CREDITS"
Understanding","TYPE":"EPJ","CREDITS":"1","SLOT":"L43+L44+L45+L46+L49+L50+L51+L52+L55+L 56+L57+L58","FACULTY":"VIDYALAK
BORGOHAIN"},{"VENUE":"LIB402","CODE":"ARC2006","TITLE":"Advanced Architectural Graphics","TYPE":"ELA","CREDITS":"3","SL
Contemporary","TYPE":"ETH","CREDITS":"3","SLOT":"F1+TF1","FACULTY":"DURGANAND BALSAVAR"},{"VENUE":"NIL","CODE":"ARC2017
Community","TYPE":"ELA","CREDITS":"6","SLOT":"L43+L44+L45+L46+L49+L50+L51+L52+L55+L 56+L57+L58","FACULTY":"SURESH BABU
R"},{"VENUE":"NIL","CODE":"ARC4001","TITLE":"Architectural Design - Community","TYPE":"EPJ","CREDITS":"1","SLOT":"L43+L
Finishes","TYPE":"ELA","CREDITS":"2","SLOT":"L37+L38+L39+L40","FACULTY":"VIDYALAKSHMI S"},{"VENUE":"LIB502","CODE":"ARC
RAGHAVAN"},{"VENUE":"NIL","CODE":"ARC5003","TITLE":"Architectural Design - Digital Design","TYPE":"EPJ","CREDITS":"1","
Design","TYPE":"EPJ","CREDITS":"1","SLOT":"L43+L44+L45+L46+L49+L50+L51+L52+L55+L 56+L57+L58","FACULTY":"MOHAFIZ RIYAZ"}
Estimation","TYPE":"TH","CREDITS":"3","SLOT":"C1+TC1","FACULTY":"KARUNAKARAN R"},{"VENUE":"LIB601","CODE":"ARC5017","TI
KUMAR N B"},{"VENUE":"NIL","CODE":"BHM2001","TITLE":"Food Production","TYPE":"EPJ","CREDITS":"1","SLOT":"L31+L32+L33+L3
O"},{"VENUE":"SMV320","CODE":"BHM2003","TITLE":"Accommodation Operation","TYPE":"ETH","CREDITS":"2","SLOT":"E1","FACULT
Operation","TYPE":"ELA","CREDITS":"1","SLOT":"L57+L58","FACULTY":"MUTHANANDAM S"},{"VENUE":"SMV320","CODE":"BHM3025","T
Project","TYPE":"PJT","CREDITS":"10","SLOT":"NIL","FACULTY":"ACADEMICS"},{"VENUE":"SMV124","CODE":"BIT1001","TITLE":"In
Biochemistry","TYPE":"ELA","CREDITS":"1","SLOT":"L13+L14","FACULTY":"SONALI SENGUPTA"},{"VENUE":"SMV214","CODE":"BIT100
Biochemistry","TYPE":"ELA","CREDITS":"1","SLOT":"L49+L50","FACULTY":"SUDHA RAMAIAH"},{"VENUE":"SMV225","CODE":"BIT1004"
Biochemistry","TYPE":"ELA","CREDITS":"1","SLOT":"L19+L20","FACULTY":"SRIDHARAN T B"},{"VENUE":"SMV124","CODE":"BIT1004"
Biochemistry","TYPE":"ELA","CREDITS":"1","SLOT":"L43+L44","FACULTY":"GAYATHRI M"},{"VENUE":"SMV225","CODE":"BIT1004","T
C"},{"VENUE":"SMV225","CODE":"BIT1006","TITLE":"Cell Biology and Genetics","TYPE":"ELA","CREDITS":"1","SLOT":"L9+L10","
A"},{"VENUE":"NIL","CODE":"BIT1007","TITLE":"Microbiology","TYPE":"EPJ","CREDITS":"1","SLOT":"L25+L26","FACULTY":"SATHI
```

- **connect.js**

```
const mongoose = require('mongoose');
mongoose.connect(process.env.MONGO_URL);
mongoose.connection.once("open",()=>{
   console.log("connected to database");
}).on("error",(error)=>{
   console.log("error");
});
```

- **helpers.js**

```
const bcrypt = require("bcrypt");
const {
   profileModel,
   courseModel
 } = require("./model");
const salt = 10;
//Function to segregate data to lab/theory slots and morning/evening slots
module.exports.segregateData = (data)=>{
  var object = {
    theory:{ morning:[],evening:[] },
    lab:{ morning:[],evening:[]  },
    project:[]
  };
  data.forEach((element)=>{
    //If venue is NIL then it specifies project component of the course
    if(element.VENUE === 'NIL'){
      object.project.push(element);
    }
    //If SLOT starts with L then its a lab slot
    else if(element.SLOT[0]==='L')
      {
        var n = element.SLOT.length;
        if( element.SLOT[n-2] === 'L' || element.SLOT[n-2] === '1' || element.SLOT[n-2] === '2' || (element.SLOT[n-2] === '3' && element.SLOT[n-1] === '0') )
          object.lab.morning.push(element);
        //if L31 onwards then evening
        else
          object.lab.evening.push(element);
      }
    //for theory slots
    else
      {
        //if last character of a theory class is '1' then its morning slot
        if( element.SLOT[ element.SLOT.length -1] === '1' )
          object.theory.morning.push(element);
        else
          object.theory.evening.push(element)
      }
  });
  //change this to return segregated_data
  return object;
}
```

```
//to generate a hash
module.exports.hashAndSave = (obj)=>{
    return new Promise((resolve,reject)=>{
        bcrypt.hash(obj.passwd, salt, (err, hash)=> {
            obj.passwd = hash;
            obj.save().then(()=>{
                console.log("Save profile info");
                resolve("Saved");
            }).catch((err)=>{
                reject(err);
            });
        });
    });
}
//checks for slot clash
module.exports.checkClash = (slots,string)=>{
    console.log(slots)
    console.log(string)
    for( slot of slots ){
        if( string.indexOf(slot)!==-1 )
            return slot;
    }
    return false;
}
module.exports.verifyRoute = (req,res,next)=>{
    if(req.session.email===undefined) res.sendStatus(403);
    else next();
}
// probe course limit
module.exports.probeCourseLimit = (query) =>{
    return new Promise((resolve, reject) => {
        courseModel.findOne(query)
        .then((c) => {
            if(c.COUNT >= parseInt(process.env.COURSE_LIMIT)) {
                console.log("er")
                reject("Course limit was reached");
            }
            else {
                console.log(c)
                resolve(c.COUNT)
            }
        })
    }).catch((err)=>{
        reject(err)
    })
}
// increase course count
module.exports.increaseCourseCount = (query) =>{
    return new Promise((resolve, reject) => {
        courseModel.updateOne(query, {
            $inc: {
                COUNT:1
            }
        })
        .then((c) => {
            if(c.COUNT >= process.env.COURSE_LIMIT)
                reject("Course limit was reached");
            else
                resolve("Within course limit")
        })
    }).catch((err)=>{
        reject(err)
    })
}
// decrease course count
module.exports.decreaseCourseCount = (query) =>{
    return new Promise((resolve, reject) => {
        courseModel.updateOne(query, {
```

```
      $inc: {
        COUNT:-1
      }
    })
    .then((c) => {
      if(c.COUNT >= process.env.COURSE_LIMIT)
        reject("Course limit was reached");
      else
        resolve("Within course limit")
    })
  }).catch((err)=>{
    reject(err)
  })
}
```

- **load_in_db.js**

```
const fs = require("fs");
require("./connect");
var model = require("./model").courseModel;
//function to load the JSON into database
function load_json(){
  return new Promise((resolve,reject)=>{
    fs.open(__dirname +'/all_data.json','r',(error,file_descriptor)=>{
        if(error) reject(error);
        var count = 0;
        fs.readFile(file_descriptor,'utf8',(error,data)=>{
          if(error) console.log(error);
          var obj = JSON.parse(data);
          obj.forEach((info)=>{
            var element = new model(info);
            element.save().then(()=>{
              count++;
              console.log("saved an entry-->" + count.toString());
            });
```

```
                });
                resolve("Done loading JSON into mongodb");
            });
        });
    })
}
model.find({}).then(function(data){
    if(data.length === 0){
        load_json().then(function(result){
            console.log(result);
        });
    }
    else{
        console.log("Already loaded the data to database");
    }
});
```

- **model.js**

```
const mongoose = require("mongoose");
//create a schema for courses
var schema = new mongoose.Schema({
    FACULTY:String,
    TYPE:String,
    CREDITS:String,
    SLOT:String,
    CODE:String,
    TITLE:String,
    VENUE:String,
    COUNT: {
        type: Number,
        default: 0
    }
});
//create a schema for storing user credentials and courses selected
```

```
var profileschema = new mongoose.Schema({
    email:String,
    passwd:String,
    courses:[]
});
//create a model based on the schema
var model = mongoose.model('course',schema);
//create a model for the profile collection
var profilemodel = mongoose.model('profile',profileschema);
//export the models
module.exports.courseModel = model;
module.exports.profileModel = profilemodel;
```

- **passport_setup.js**

```
const passport = require("passport");
const googleStrategy = require("passport-google-oauth20");
const profileModel = require("./model").profileModel;
//hash function for storing passwords
const hashAndSave = require("./helpers").hashAndSave;
//To stuff user email into a cookie
passport.serializeUser((user,done)=>{
    done(null,user.email);
});
//to obtain user data from cookie
passport.deserializeUser((user_email,done)=>{
    profileModel.findOne({email:user_email}).then((user)=>{
        done(null,user);
    }).catch(err=>console.log(err));
});

//For GOOGLE+ OAUTH
passport.use(
    new googleStrategy({
        clientID:process.env.CLIENT_ID,
        clientSecret:process.env.CLIENT_SECRET,
        callbackURL:process.env.CALLBACK_URL
    } , (accessToken,refreshToken,profile,done)=>{
          profileModel.findOne( {email:profile.displayName} ).then((user)=>{
              //If no specified user existing in DB
              if(!user){
                  var obj = new profileModel({
                      email:profile.displayName,
                      passwd:profile.id,
                      courses:[]
                  });
                  hashAndSave(obj).then(()=>{
                      profileModel.findOne({email:obj.email}).then((user)=>{
                          console.log("saved user to DB");
                          done(null,user);
                      });
                  }).catch(err=>console.log(err));
              }
              else{
                  console.log("Logged in as "+profile.displayName);
                  done(null,user);
              }
          });
    })
)
```

<u>graphql – Folder:</u>

- **schema.js**

```
const {
    GraphQLObjectType,
    GraphQLString,
    GraphQLList,
    GraphQLInt,
    GraphQLSchema
} = require("graphql");
const courseModel = require("../db/model").courseModel;
const CourseType = new GraphQLObjectType({
    name:"Courses",
    fields:()=>({
        VENUE:{type:GraphQLString},
        CODE:{type:GraphQLString},
        TITLE:{type:GraphQLString},
        TYPE:{type:GraphQLString},
        CREDITS:{type:GraphQLInt},
        SLOT:{type:GraphQLString},
    })
});
const CourseTypeSpecific = new GraphQLObjectType({
    name:"SpecificCourses",
    fields:()=>({
    })
})
const TeacherType = new GraphQLObjectType({
    name:"Teacher",
    fields:()=>({
        VENUE:{type:GraphQLString},
        CODE:{type:GraphQLString},
        TITLE:{type:GraphQLString},
        TYPE:{type:GraphQLString},
        CREDITS:{type:GraphQLInt},
        SLOT:{type:GraphQLString},
        FACULTY:{type:GraphQLString}
    })
})
const CodeType = new GraphQLObjectType({
    name:"Code",
    fields:()=>({
        VENUE:{type:GraphQLString},
        CODE:{type:GraphQLString},
        TITLE:{type:GraphQLString},
        TYPE:{type:GraphQLString},
        CREDITS:{type:GraphQLInt},
        SLOT:{type:GraphQLString},
        FACULTY:{
            type:new GraphQLList(TeacherType),
            args:{name:{type:GraphQLString}},
            resolve(parent,args){
                return courseModel.find({FACULTY:args.name,CODE:parent.CODE});
            }
        }
    })
})
const RootQuery = new GraphQLObjectType({
    name:"RootQuery",
    fields:()=>({
        courses:{
            type:new GraphQLList(CourseType),
            resolve(parent,args){
                return courseModel.find({});
            }
        },
        faculty:{
            type:new GraphQLList(TeacherType),
            args:{name:{type:GraphQLString}},
            resolve(parent,args){
                return courseModel.find({FACULTY:args.name})
            }
        },
        course:{
            type:new GraphQLList(CodeType),
            args:{code:{type:GraphQLString}},
            resolve(parent,args){
                return courseModel.find({CODE:args.code});
            }
        }
    })
});
module.exports = new GraphQLSchema({
    query:RootQuery
});
```

<u>routes – Folder:</u>

- **auth_routes.js**

```
const router = require('express').Router();
const passport = require("passport");
//google auth
router.get('/google',passport.authenticate('google',{
//This is the info we want to retreive
    scope:["profile"]
}));
//This path gets reached after google oauth, which returns a key as a get parameter. passport.authenticate
//again authenticates the key for information exchange
router.get('/google/redirect',passport.authenticate('google'),(req,res)=>{
    //callback URI
    req.session.email = req.user.email;
    res.redirect("/timetable");
});
module.exports = router;
```

- **chatbot.js**

```
const router = require("express").Router();
const courseModel = require("../db/model").courseModel;
// webhook fulfillment
router.post("/chatbot",(req,res)=>{
    // in params we need -> code, faculty and slot
    // to extract parameters oout of spoken words
 let params = req.body.queryResult.parameters;
 courseModel.findOne({CODE:params.code, FACULTY: params.faculty, SLOT: params.slot})
 .then((course) => {
     if(!course) {
         return res.status(200).send({
            "fulfillmentText":`No classroom was found with the provided details, try matching exact details`,
            "fulfillmentMessages":[{"text":{"text":[`No classroom was found with the provided details, try matching exact details`]}}],
            "source":""
        });
     } else {
        let count = parseInt(process.env.COURSE_LIMIT) - course.COUNT
        if(count == 0) {
            return res.status(200).send({
                "fulfillmentText":`No more seats left for this class`,
                "fulfillmentMessages":[{"text":{"text":[`No more seats left for this class`]}}],
                "source":""
            });
        }
           // send fullfillment
        return res.status(200).send({
            "fulfillmentText":`This particular class has ${count} out of ${process.env.COURSE_LIMIT} seats left`,
            "fulfillmentMessages":[{"text":{"text":[`This particular class has ${count} out of ${process.env.COURSE_LIMIT} seats left`]}}],
            "source":""
        });
     }
 }).catch(console.log)
});
module.exports = router;
```

- **nosignup.js**

```
const model = require("../db/model").courseModel;
const router = require("express").Router();
router.get("/",(req,res)=>{
   res.render("timetable2");
});
/**
 *
 * @api {post} /timetable fetch timetable
 * @apiName fetch timetable
 * @apiGroup no-signup
 *
 * @apiParam {string} CODE course code
 *
 * @apiParamExample {json} request-example
 * {
            "CODE":"MAT2001"
}
 *
 */
router.post("/timetable",(req,res)=>{
console.log(req.body);
   model.find({CODE:req.body.CODE}).then((data)=>{
      //let segregated_data = segregateData(data);
      res.send( JSON.stringify(data) );
   });
});
module.exports = router;
```

- **route.js**

```
const model = require("../db/model").courseModel;
const profileModel = require("../db/model").profileModel;
//to segreagate data into morning and evening theory and lab slots
const segregateData = require("../db/helpers").segregateData;
//hash function for storing passwords
const hashAndSave = require("../db/helpers").hashAndSave;
```

```
//verification middleware
const verifyRoute = require("../db/helpers").verifyRoute;
//to check hashed password
const bcrypt = require("bcrypt");
//set up router
const router = require("express").Router();
router.get('/',(req,res)=>{
  res.render('index');
});
router.post('/',(req,res)=>{
  //if posted registration form
  if(req.body.confirm !== undefined){
    var obj =  { email:req.body.email,passwd:req.body.passwd };
    profileModel.findOne( {email:req.body.email} ).then(function(data){
      if(data === null  ){
        obj = new profileModel( { email:req.body.email,passwd:req.body.passwd,courses:[] } );
        hashAndSave(obj).then(()=>{
          //save user email in cookies
          req.session.email = req.body.email;
          res.redirect('/timetable');
        }).catch(err=>console.log(err));
      }
      else{
        res.send("Someone with this email already exists");
      }
    });
  }
  //if trying to log in
  else{
    profileModel.findOne( {email:req.body.email} ).then((data)=>{
      if(data === null)
        res.send("User not found");
      else{
        //check hash against password
        bcrypt.compare(req.body.passwd,data.passwd,(err,result)=>{
           if(result){
             //save user email in cookies
             req.session.email = req.body.email;
             res.redirect('/timetable');
           }
           else
            res.send("incorrect password");
        });
      }
  }).catch(err=>console.log(err));
  }
});
router.get("/timetable",verifyRoute,(req,res)=>{
  res.render("timetable");
});
router.get("/timetable/fetch",verifyRoute,(req,res)=>{
  //add timetable looking up TODO
  profileModel.findOne( {email:req.session.email} ).then( (data)=>{
    //to calculate total number of credits
    var credits = (elements)=>{
      var summ=0;
      for(element of elements){
        summ += parseInt(element.CREDITS);
      }
      return summ;
    }
    res.json({data:data.courses,credits:credits(data.courses)});
  }).catch(err=>console.log(err));
});
router.post("/timetable",verifyRoute,(req,res)=>{
  model.find({CODE:req.body.CODE}).then((data)=>{
    //let segregated_data = segregateData(data);
    res.send( JSON.stringify(data) );
    });
});
module.exports = router;
```

- **slot_saving.js**

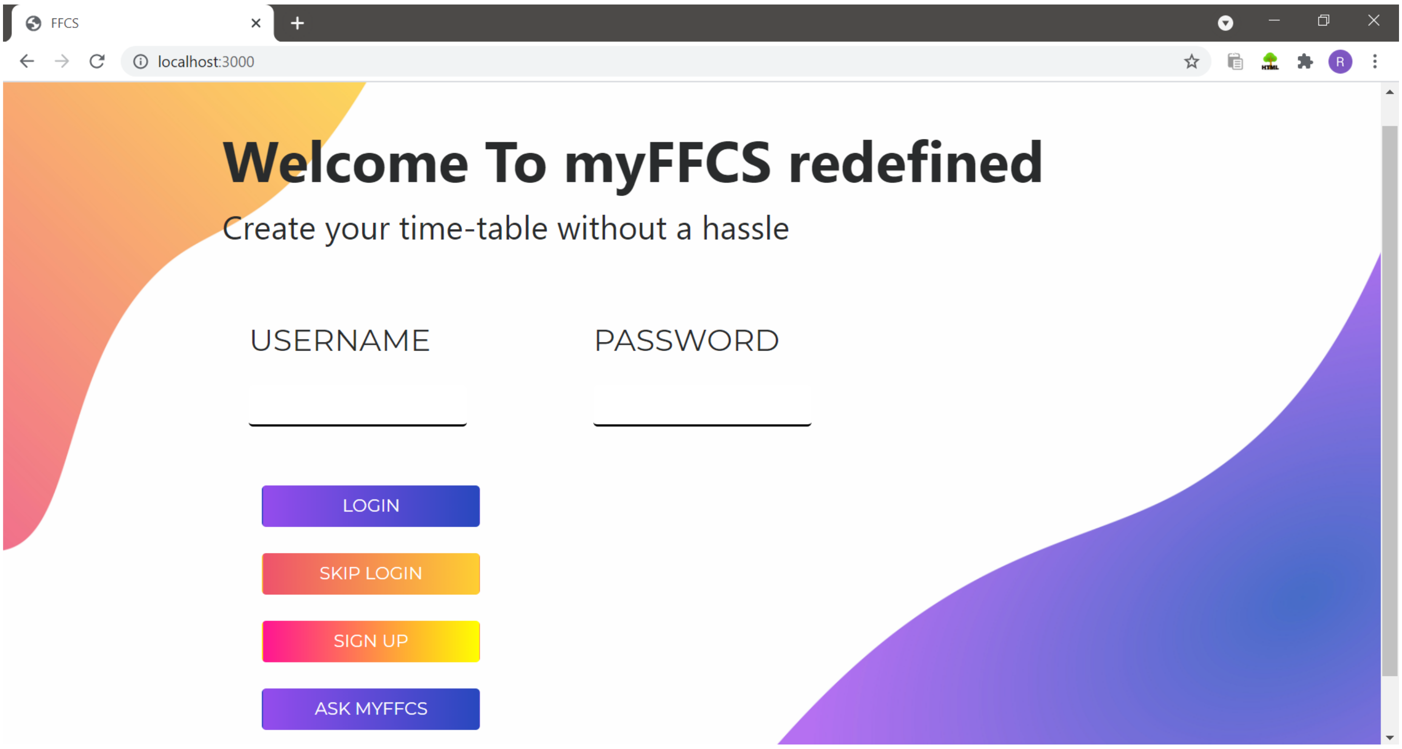
```
const profileModel = require("../db/model").profileModel;
const model = require("../db/model").courseModel;
const router = require("express").Router();
var {
    checkClash,
    verifyRoute,
    probeCourseLimit,
    increaseCourseCount,
    decreaseCourseCount
 } = require("../db/helpers");
router.get("/logout",verifyRoute,(req,res)=>{
    req.session.email='';
    if(req.user) req.logout();
    res.redirect('/');
});
/* makes an array of clicked course slots and matches them against all alots in the database,
if match found then slot clashed */
//There is a better method to do this
router.post("/save",verifyRoute,async (req,res)=>{
    console.log(req.session.email+" Logged in");
    // make an array of slots of the courses being registered
    let slots = req.body.SLOT.split("+"),str = '',cr = 0;
    //string waits for the promise to be completed and then gets assigned the value of all the slots
    let variable = await profileModel.findOne( {email:req.session.email} ).then( (data)=>{
        data.courses.forEach( (element)=>{
            //make a string by concatenating all slots in courses
            str += (element.SLOT + '+');
            cr += parseInt(element.CREDITS);
        });
        return {slots:str,credits:cr};
    }).catch( (err)=>{
        console.log(err);
    });
    console.log("total credits = "+(parseInt(req.body.CREDITS)+variable.credits) );
    //TODO check if applying for same course again, TODO theory and lab clashes
    // if requested for a course which makes more than 27 total credits then throw alert
    if(variable.credits + parseInt(req.body.CREDITS) > 27)
        res.send( {status:"limit",info:27-variable.credits} );
    //checkClash returns a clashed slot if slots are clashed
    else if( checkClash(slots,variable.slots) )
        res.send( {status:"clashed",info:slot} );
    else {
        // check if course limit reached
        probeCourseLimit(req.body)
        .then((cnt)=>{
            let count = parseInt(process.env.COURSE_LIMIT)-cnt-1
            console.log(count)
            increaseCourseCount(req.body)
            .then(()=>{
              profileModel.update( {email:req.session.email}, {$push: {courses:req.body} } ).then( ()=>{
                console.log("updated");
                res.send( { status:"updated",info:variable.credits + parseInt(req.body.CREDITS), count,course:req.body } );
              });
            }).catch(msg=>res.send({status: "course_limit", info :"Error increasing limit"}))
             //if no clash then update the database
        }).catch(msg => {
            res.send(res.send({status: "course_limit", info :msg}))
        })
    }
});
//deletes an element after clicking on a specific button
router.delete('/del',verifyRoute,(req,res)=>{
 console.log(req.body);
```

```
  if(req.body._id === undefined){
   profileModel.update({email:req.session.email}, { $set : {courses: [] }} , {multi:true} ).then(()=>{
     return res.send("Deleted courses array");
   }).catch(console.log);
  }
   profileModel.update( {email:req.session.email},{$pull: {courses:{_id:req.body._id}} }  ).then( ()=>{
      console.log("removed course!");
      decreaseCourseCount(req.body)
         .then(()=>{
            res.send("Deleted course")//res.redirect("/timetable");
         }).catch(msg=>res.send({status: "course_limit", info :"Error increasing limit"}))
   }).catch( (err)=>{
      console.log(err);
   });
});
//predictive text, receives AJAX requests after typing every character in input box
router.post('/predict',verifyRoute,(req,res)=>{
   var array=[],unique=[];
   //matches regex for text
   model.find( {CODE:  {$regex: req.body.code } } ).then((data)=>{
      if(data===undefined) res.send('');
      //to send only titles and course codes to the front end
      for(element of data){
         var obj = {code:element.CODE,title:element.TITLE} ;
         //TODO need to remove duplicate results, but not working
         if(array.indexOf(obj)===-1)
            array.push(obj);
         //to send just 5 results
         if(array.length === 5)
            break;
      };
      //console.log(array);
      res.send(array);
   });
```

```
});

router.get("/classSize", (req, res) => {

   res.send(process.env.COURSE_LIMIT)

})

module.exports = router;
```

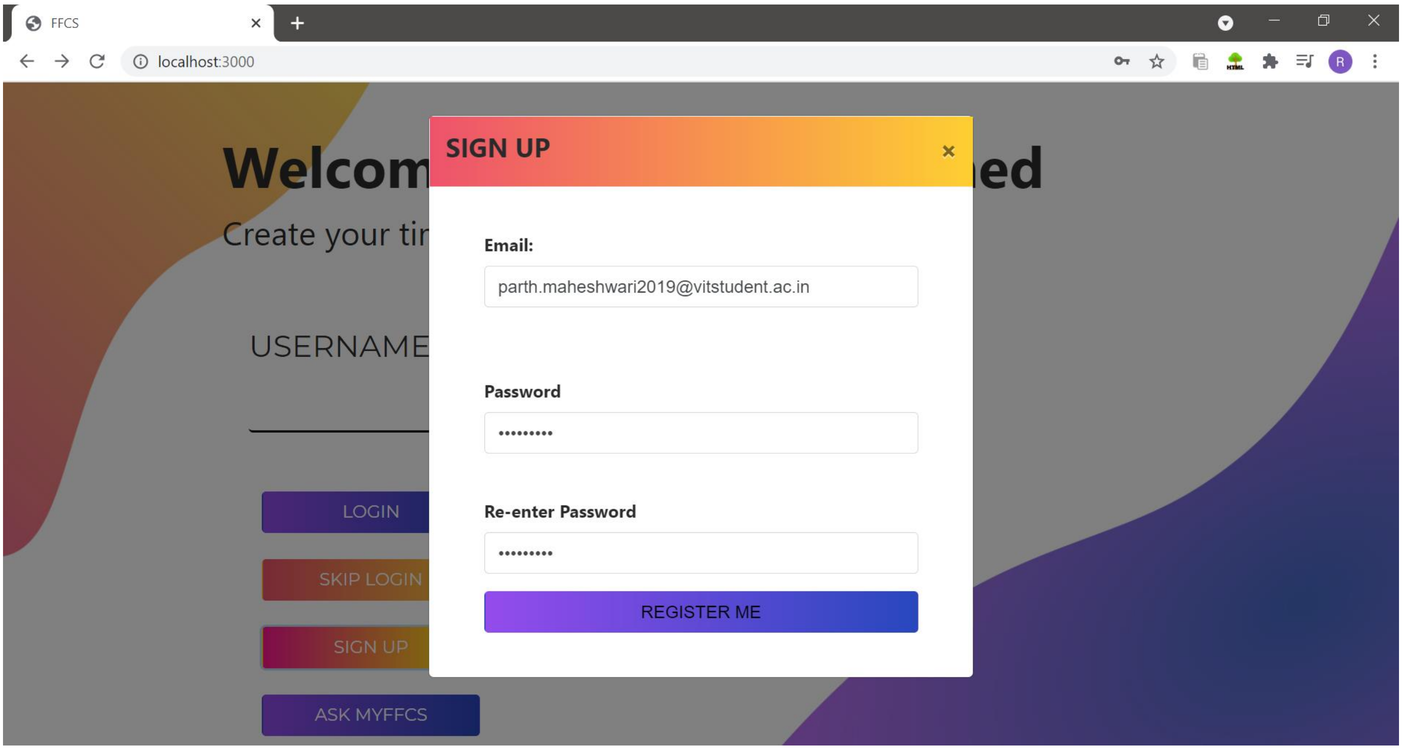
OUTPUT SCREENSHOTS:

Initial webpage:



FFCS
localhost:3000
Welcome To myFFCS redefined
Create your time-table without a hassle
USERNAME
PASSWORD
LOGIN
SKIP LOGIN
SIGN UP
ASK MYFFCS

The user can sign up for this website by filling the form.



SIGN UP

Email:

parth.maheshwari2019@vitstudent.ac.in

Password

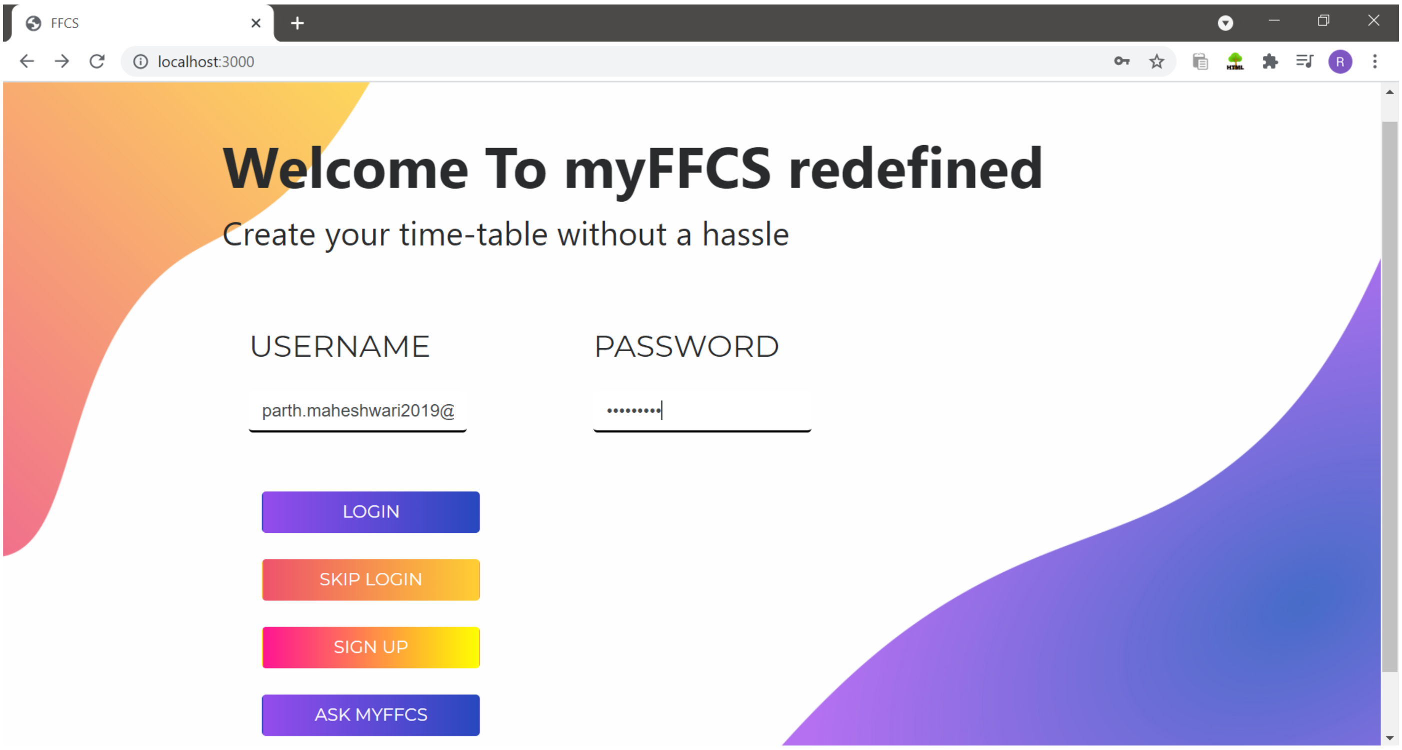
•••••••••

Re-enter Password

•••••••••

REGISTER ME

The user can also login to your account by entering correct username and password.



FFCS
localhost:3000
Welcome To myFFCS redefined
Create your time-table without a hassle
LOGIN
SKIP LOGIN
SIGN UP
ASK MYFFCS

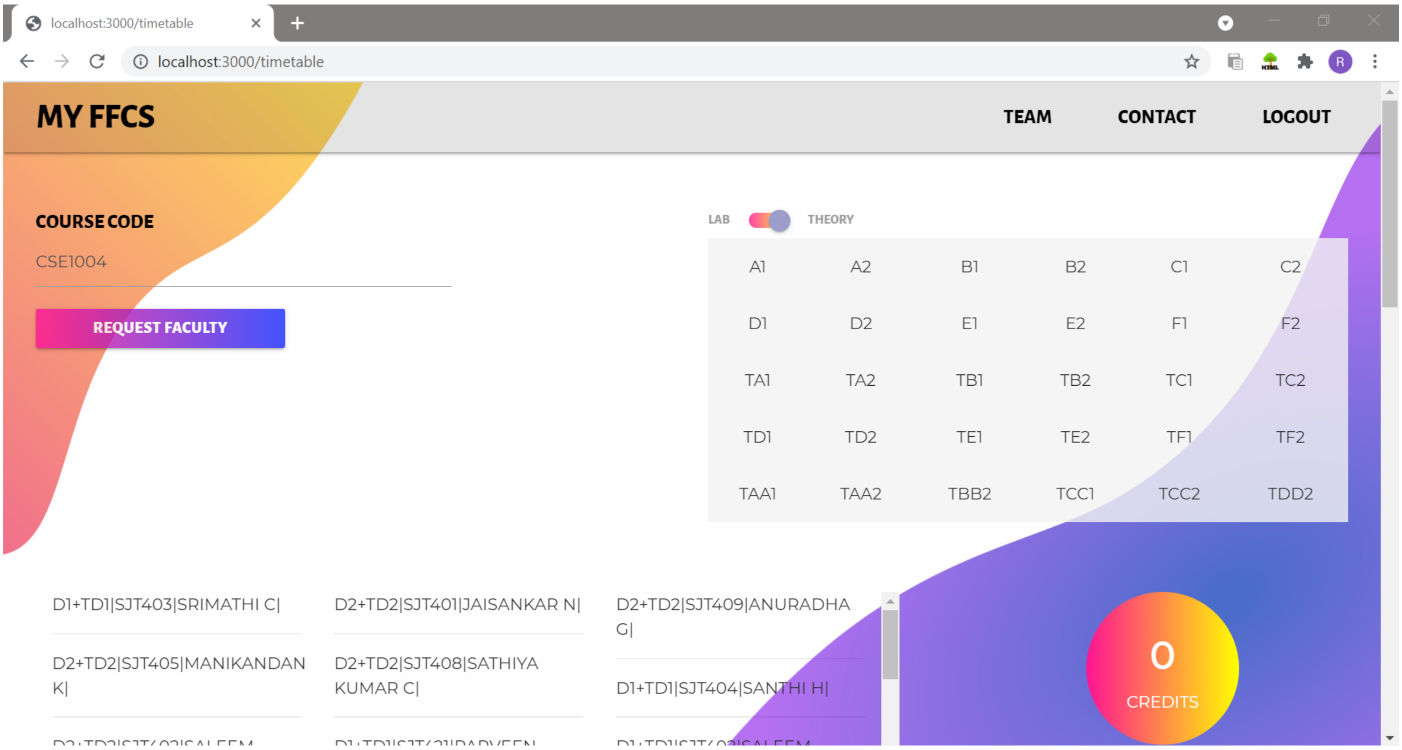
USERNAME

parth.maheshwari2019@

PASSWORD

•••••••••

The user can search for courses and select the slots.



COURSE CODE

CSE1004

A1	A2	B1	B2	C1	C2
D1	D2	E1	E2	F1	F2
TA1	TA2	TB1	TB2	TC1	TC2
TD1	TD2	TE1	TE2	TF1	TF2
TAA1	TAA2	TBB2	TCC1	TCC2	TDD2

D1+TD1|SJT403|SRIMATHI C|

D2+TD2|SJT401|JAISANKAR N|

D2+TD2|SJT409|ANURADHA G|

D2+TD2|SJT405|MANIKANDAN K|

D2+TD2|SJT408|SATHIYA KUMAR C|

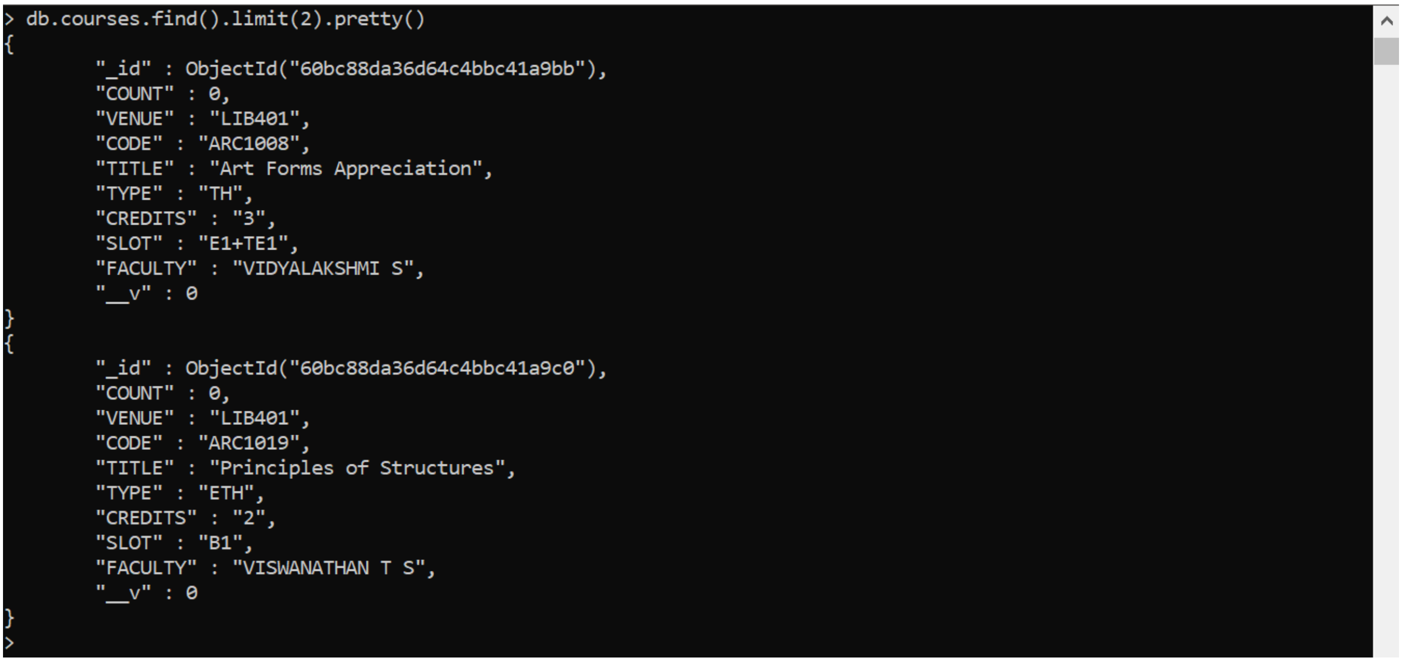
D1+TD1|SJT404|SANTHI H|

D2+TD2|SJT402|SALEEM

D1+TD1|SJT421|PARVEEN

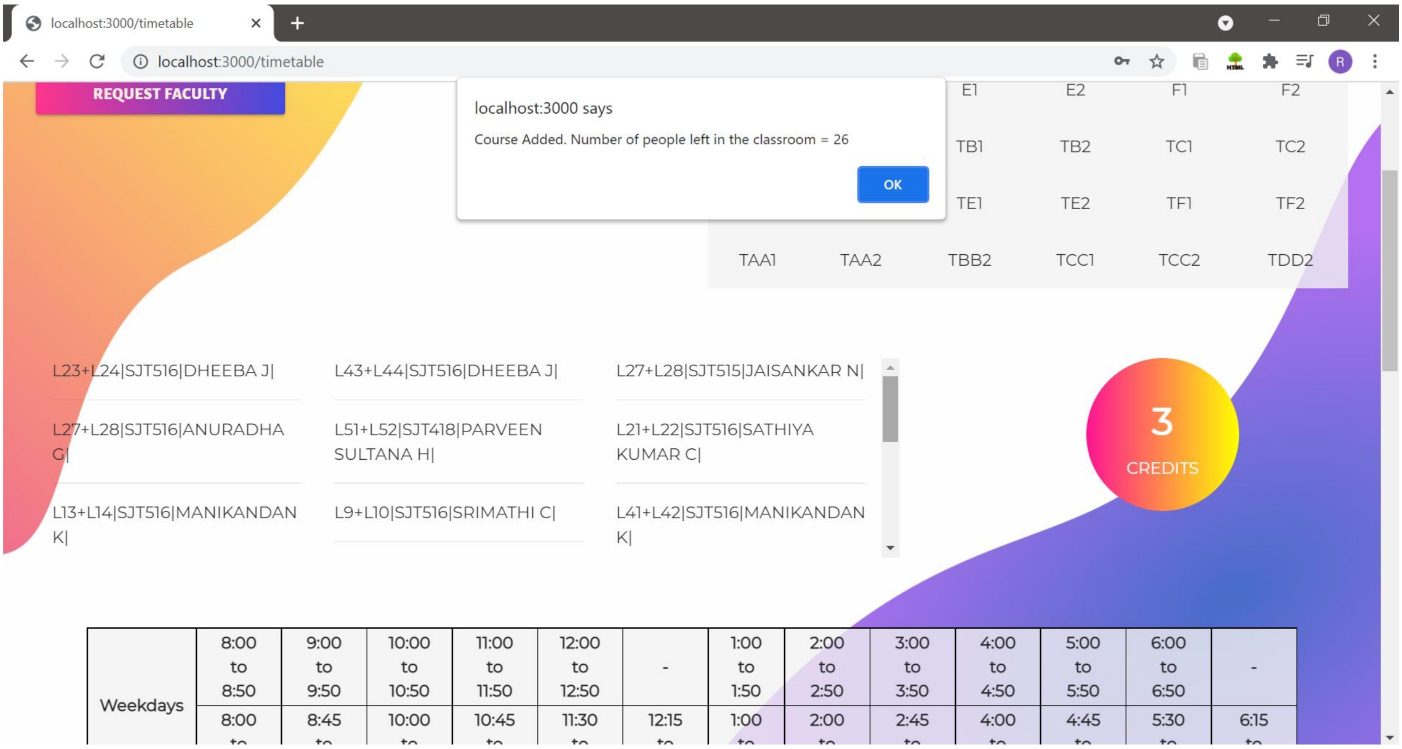
D1+TD1|SJT402|SALEEM

All the data about courses are already stored in MongoDB (database) - courses. And so, when user search for course, all the data about that course is retrieved from the database and is displayed.



```
> db.courses.find().limit(2).pretty()
{
        "_id" : ObjectId("60bc88da36d64c4bbc41a9bb"),
        "COUNT" : 0,
        "VENUE" : "LIB401",
        "CODE" : "ARC1008",
        "TITLE" : "Art Forms Appreciation",
        "TYPE" : "TH",
        "CREDITS" : "3",
        "SLOT" : "E1+TE1",
        "FACULTY" : "VIDYALAKSHMI S",
        "__v" : 0
}
{
        "_id" : ObjectId("60bc88da36d64c4bbc41a9c0"),
        "COUNT" : 0,
        "VENUE" : "LIB401",
        "CODE" : "ARC1019",
        "TITLE" : "Principles of Structures",
        "TYPE" : "ETH",
        "CREDITS" : "2",
        "SLOT" : "B1",
        "FACULTY" : "VISWANATHAN T S",
        "__v" : 0
}
>
```

If seats are available for the selected slot and if the slots do not clash, then it will register it. The user can also remove a course by clicking on cross.



localhost:3000 says

Course Added. Number of people left in the classroom = 26

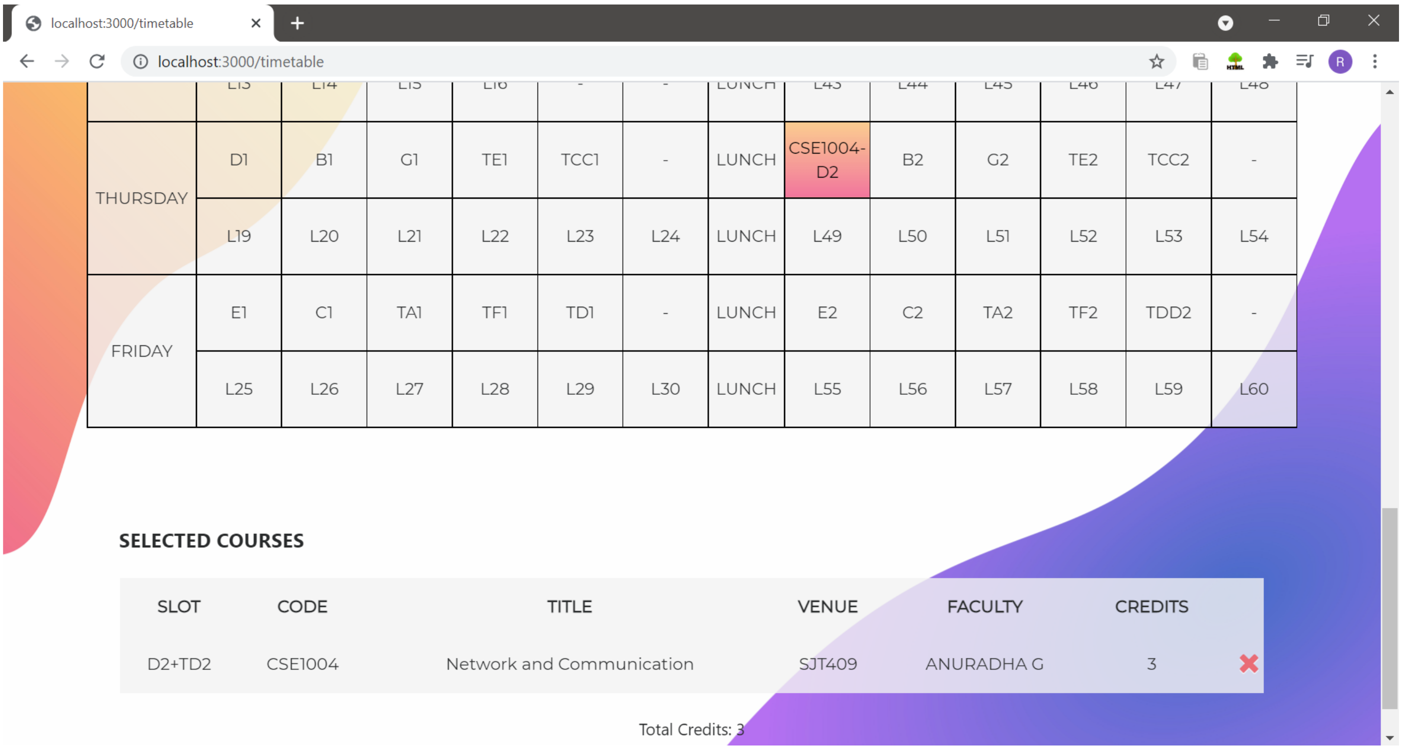
OK

		E1	E2	F1	F2
		TB1	TB2	TC1	TC2
		TE1	TE2	TF1	TF2
TAA1	TAA2	TBB2	TCC1	TCC2	TDD2

L23+L24|SJT516|DHEEBA J|	L43+L44|SJT516|DHEEBA J|	L27+L28|SJT515|JAISANKAR N|
L27+L28|SJT516|ANURADHA G|	L51+L52|SJT418|PARVEEN SULTANA H|	L21+L22|SJT516|SATHIYA KUMAR C|
L13+L14|SJT516|MANIKANDAN K|	L9+L10|SJT516|SRIMATHI C|	L41+L42|SJT516|MANIKANDAN K|

3
CREDITS

Weekdays	8:00 to 8:50	9:00 to 9:50	10:00 to 10:50	11:00 to 11:50	12:00 to 12:50	-	1:00 to 1:50	2:00 to 2:50	3:00 to 3:50	4:00 to 4:50	5:00 to 5:50	6:00 to 6:50	-
	8:00	8:45	10:00	10:45	11:30	12:15	1:00	2:00	2:45	4:00	4:45	5:30	6:15

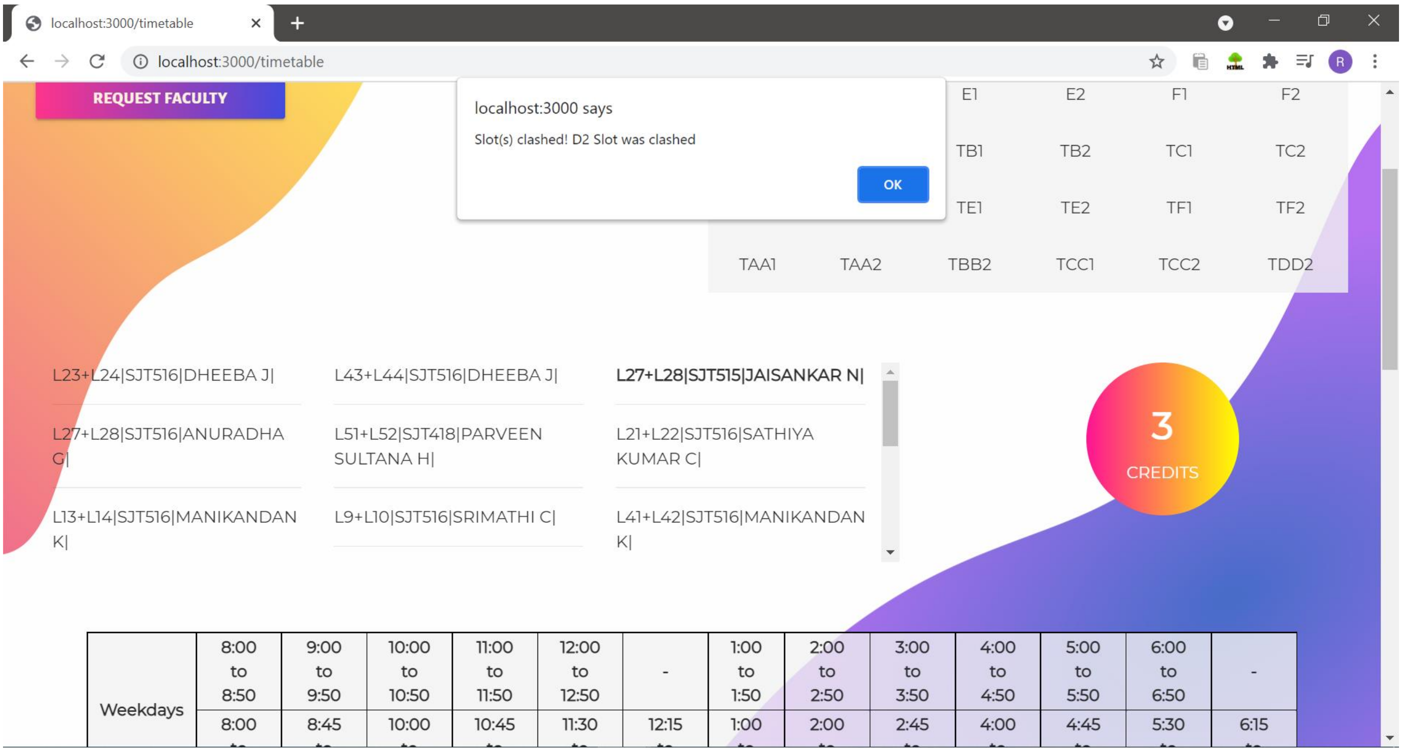


	L13	L14	L15	L16	-	-	LUNCH	L43	L44	L45	L46	L47	L48
THURSDAY	D1	B1	G1	TE1	TCC1	-	LUNCH	CSE1004-D2	B2	G2	TE2	TCC2	-
	L19	L20	L21	L22	L23	L24	LUNCH	L49	L50	L51	L52	L53	L54
FRIDAY	E1	C1	TA1	TF1	TD1	-	LUNCH	E2	C2	TA2	TF2	TDD2	-
	L25	L26	L27	L28	L29	L30	LUNCH	L55	L56	L57	L58	L59	L60

SELECTED COURSES

SLOT	CODE	TITLE	VENUE	FACULTY	CREDITS	
D2+TD2	CSE1004	Network and Communication	SJT409	ANURADHA G	3	✖

Total Credits: 3



localhost:3000 says

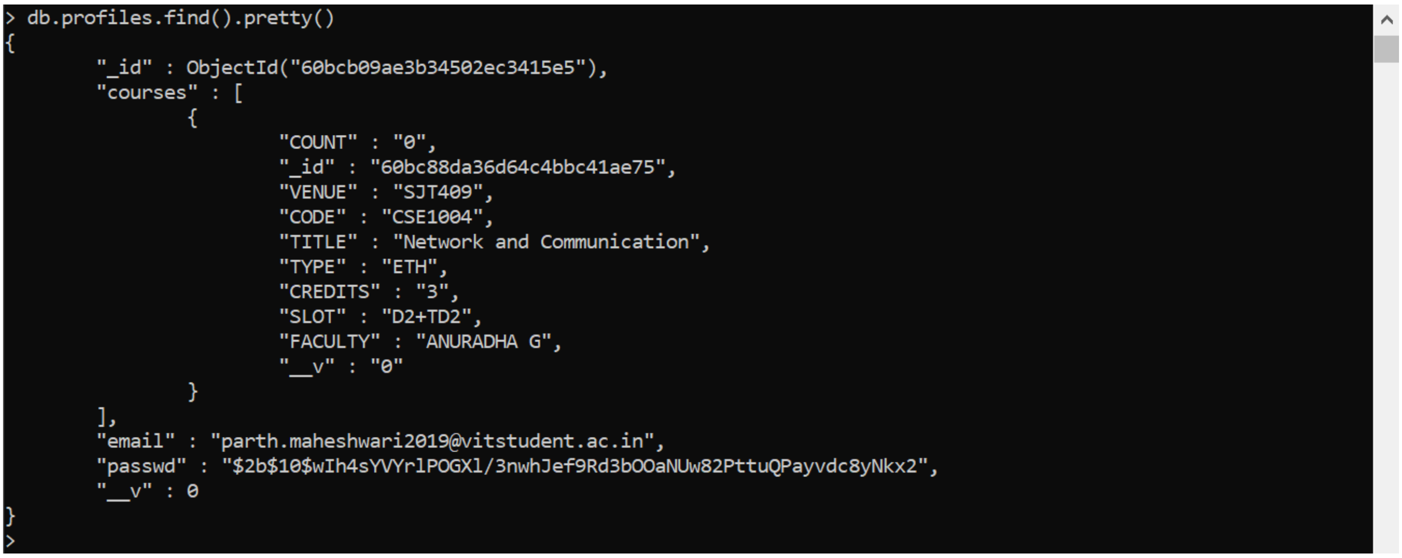
Slot(s) clashed! D2 Slot was clashed

		E1	E2	F1	F2
		TB1	TB2	TC1	TC2
		TE1	TE2	TF1	TF2
TAA1	TAA2	TBB2	TCC1	TCC2	TDD2

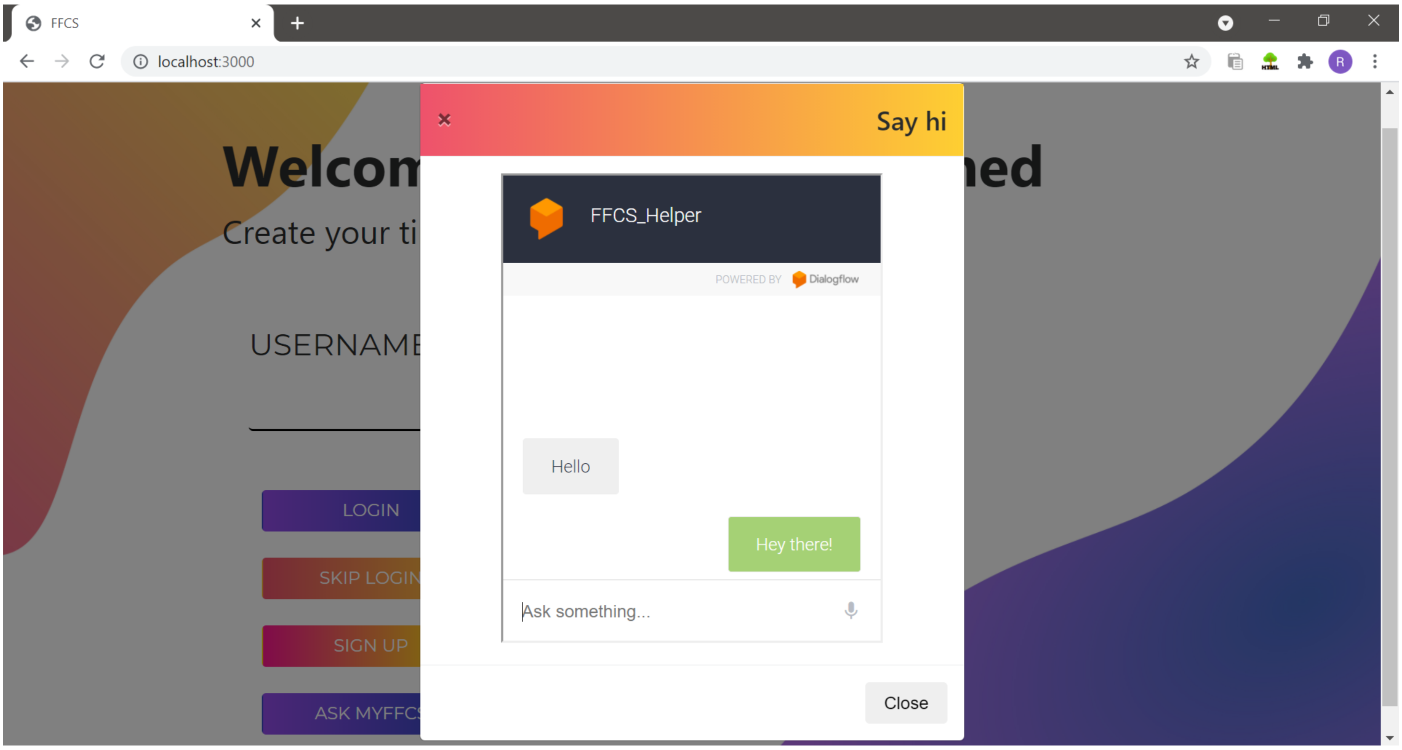
L23+L24|SJT516|DHEEBA J|	L43+L44|SJT516|DHEEBA J|	L27+L28|SJT515|JAISANKAR N|
L27+L28|SJT516|ANURADHA G|	L51+L52|SJT418|PARVEEN SULTANA H|	L21+L22|SJT516|SATHIYA KUMAR C|
L13+L14|SJT516|MANIKANDAN K|	L9+L10|SJT516|SRIMATHI C|	L41+L42|SJT516|MANIKANDAN K|

Weekdays	8:00 to 8:50	9:00 to 9:50	10:00 to 10:50	11:00 to 11:50	12:00 to 12:50	-	1:00 to 1:50	2:00 to 2:50	3:00 to 3:50	4:00 to 4:50	5:00 to 5:50	6:00 to 6:50	-
	8:00	8:45	10:00	10:45	11:30	12:15	1:00	2:00	2:45	4:00	4:45	5:30	6:15

All the data are stored in MongoDB (database) – profiles, so that when the user signs in again, all the registered courses will be still there.



```
> db.profiles.find().pretty()
{
        "_id" : ObjectId("60bcb09ae3b34502ec3415e5"),
        "courses" : [
                {
                        "COUNT" : "0",
                        "_id" : "60bc88da36d64c4bbc41ae75",
                        "VENUE" : "SJT409",
                        "CODE" : "CSE1004",
                        "TITLE" : "Network and Communication",
                        "TYPE" : "ETH",
                        "CREDITS" : "3",
                        "SLOT" : "D2+TD2",
                        "FACULTY" : "ANURADHA G",
                        "__v" : "0"
                }
        ],
        "email" : "parth.maheshwari2019@vitstudent.ac.in",
        "passwd" : "$2b$10$wIh4sYVYrlPOGXl/3nwhJef9Rd3bOOaNUw82PttuQPayvdc8yNkx2",
        "__v" : 0
}
>
```



Hello

Hey there!