

# Project: Phase 4

## User Interface Design and Demonstration

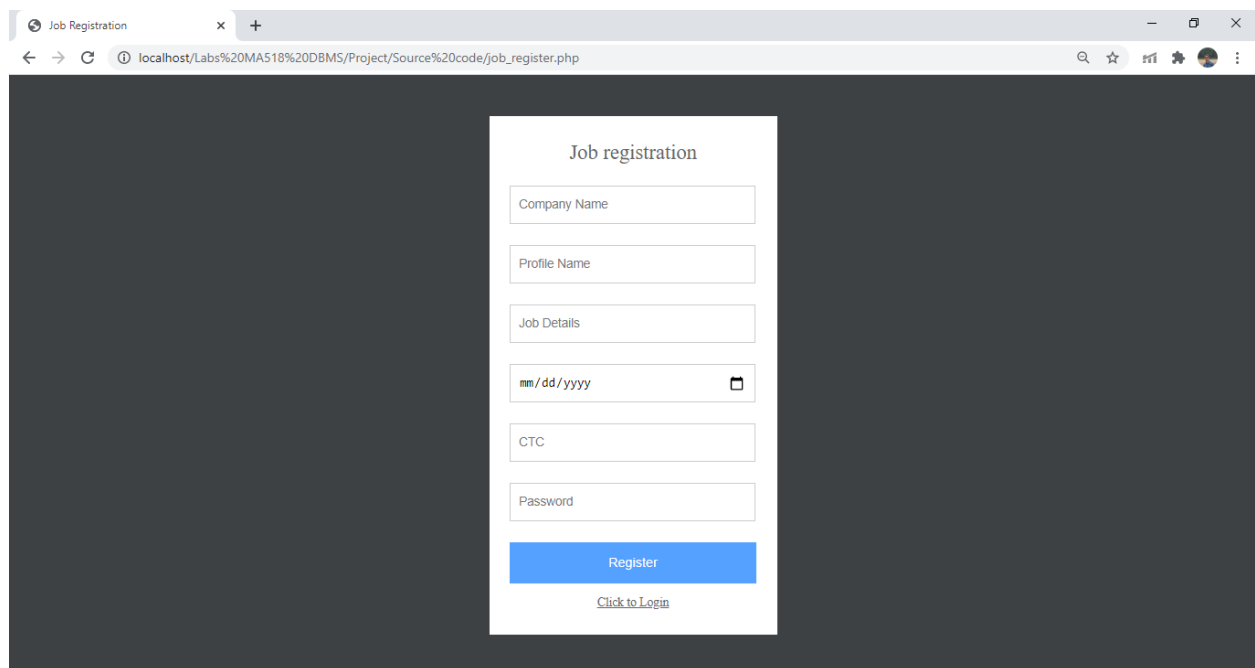
MA518: Database Management System  
Dr. Ashok Singh Sairam  
IIT Guwahati

### Placement portal

Meet Rayvadera (192123034)  
Jainish Patel (192123012)

#### Description of the project:

Purpose was to make one platform for students and companies to make whole placement process more efficient. On the portal made, students can register providing some necessary data and company can offer job providing some necessary info. After registration, both company and student can directly log into the portal. Note that if company is offering different profiles, then they will have to register for them differently.



The screenshot shows a web browser window with the title 'Job Registration'. The address bar displays the URL: `localhost/Labs%20MA518%20DBMS/Project/Source%20code/job_register.php`. The main content area features a 'Job registration' form with the following fields:

- Company Name
- Profile Name
- Job Details
- mm/dd/yyyy (with a calendar icon)
- CTC
- Password

Below the form fields is a blue 'Register' button and a link labeled 'Click to Login'.

Figure 1: Job registration

```
File Edit Selection Find View Goto Tools Project Preferences Help
q2.php x std_db_jobs.php x job_db_app.php x job_db_eligibility.php x std_db_timeslots.php x job_register.php x job_db_schedule.php x
9 <h1 class="login-title">Job registration</h1>
10 <input type="text" class="login-input" name="company_name" placeholder="Company Name" required />
11 <input type="text" class="login-input" name="profile_name" placeholder="Profile Name" required />
12 <input type="text" class="login-input" name="job_details" placeholder="Job Details" />
13 <input type="date" class="login-input" name="application_deadline" placeholder="Application deadline" required />
14 <input type="number" class="login-input" name="ctc" placeholder="CTC" required />
15 <input type="password" class="login-input" name="passwd" placeholder="Password" required />
16 <input type="submit" name="sub" value="Register" class="login-button" />
17 <p class="link"><a href="job_login.php">Click to Login</a></p>
18 </form>
19 </body>
20 </html>
21
22 <?php
23 require('db.php');
24
25 if(isset($_POST['sub']))
26 {
27     $company_name = $_POST['company_name'];
28     $profile_name = $_POST['profile_name'];
29     $job_details = $_POST['job_details'];
30     $application_deadline = $_POST['application_deadline'];
31     $ctc = $_POST['ctc'];
32     $passwd = $_POST['passwd'];
33
34     $sql = "INSERT INTO plcmportal.jobs(company_name, profile_name, job_details, application_deadline, ctc, password) VALUES
35           (:company_name, :profile_name, :job_details, :application_deadline, :ctc, :passwd)";
36     $stmt = $conn->prepare($sql);
37     $res = $stmt->execute(
38         array(
39             ':company_name' => $company_name,
40             ':profile_name' => $profile_name,
41             ':job_details' => $job_details,
42             ':application_deadline' => $application_deadline,
43             ':ctc' => $ctc,
44             ':passwd' => $passwd
45         )
46     );
47 }
```

Figure 2: Job registration (Code)

Student Signup

localhost/Labs%20MAS18%20DBMS/Project/Source%20code/std\_signup.php

### Student registration

Roll Number

First Name

Middle Name

Last Name

Email Address

UG college

PG college

Choose program: MSc MnC

10th percentage

12th percentage

Figure 3: Student Registration

```

File Edit Selection Find View Goto Tools Project Preferences Help
q2.pl std_db_jobs.php x job_db_app.php x job_db_eligibility.php x std_db_timeslots.php x std_login.php x std_signup.php x db.php x job_db_schedule.php x login.php x
33 <input type="password" class="login-input" name="passwd" placeholder="Password" required/>
34 <input type="submit" name="submit" value="Register" class="login-button" />
35 <p class="link"><a href="std_login.php">Click to Login</a></p>
36 </form>
37 </body>
38 </html>
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40
41 <?php
42     require('db.php');
43
44     if(isset($_POST['submit']))
45     {
46         $rollno = $_POST['rollno'];
47         $fname = $_POST['fname'];
48         $mname = $_POST['mname'];
49         $lname = $_POST['lname'];
50         $email = $_POST['email'];
51         $ug_college = $_POST['ug_college'];
52         $pg_college = $_POST['pg_college'];
53         $prog_name = $_POST['prog_name'];
54         $tenth_per = $_POST['tenth_per'];
55         $twelveth_per = $_POST['twelveth_per'];
56         $ugcpi = $_POST['ugcpi'];
57         if(strlen($_POST['pgcpi']))
58             $pgcpi = $_POST['pgcpi'];
59         else
60             $pgcpi = -1;
61         if(strlen($_POST['phdcpi']))
62             $phdcpi = $_POST['phdcpi'];
63         else
64             $phdcpi = -1;
65         $passwd = $_POST['passwd'];
66
67         $sql = "INSERT INTO plcmportal.student(rollno, fname, mname, lname, email, ug_college, pg_college, prog_name, tenth_per,
68             twelveth_per, ug_cpi, pg_cpi, phd_cpi, passwd) VALUES(:rollno, :fname, :mname, :lname, :email, :ug_college, :pg_college,
             :prog_name, :tenth_per, :twelveth_per, :ugcpi, :pgcpi, :phdcpi, :passwd)";
69         $stmt = $conn->prepare($sql);

```

Figure 4: Student Registration (Code)

Figure 5: Student Login

Now company will be able to make different programs eligible with various cpi and percentage criterias. If not specified, those will be considered as no such criterias.

Company Dashboard

localhost/Labs%20MA518%20DBMS/Project/Source%20code/job\_db\_eligibility.php

Com1 : SDE Students Applications Eligibility Schedule Log Out

## Insert program

Choose program:

MSc MnC

Enter 10th percentage criteria :

Enter 12th percentage criteria :

Enter UG percentage criteria :

Enter PG percentage criteria :

Enter PhD percentage criteria :

Submit

Figure 6: Make program eligible

Company Dashboard

localhost/Labs%20MA518%20DBMS/Project/Source%20code/job\_db\_eligibility.php

Enter PG percentage criteria :

Enter PhD percentage criteria :

Submit

### Eligible programs with criterias

Program	10th per criteria	12th per criteria	UG cpi criteria	PG cpi criteria	PhD cpi criteria
BTech CSE	0	0	0	0	0
BTech MnC	90	90	8	8	8
MSc MnC	60	60	0	0	0
MTech CSE	0	0	0	0	0

Figure 7: Eligible programs

```

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160 $tenth_per_crt = 0;
161 if(strlen($_POST['twelveth_per_crt']))
162     $twelveth_per_crt = $_POST['twelveth_per_crt'];
163 else
164     $twelveth_per_crt = 0;
165 if(strlen($_POST['ug_cpi_crt']))
166     $ug_cpi_crt = $_POST['ug_cpi_crt'];
167 else
168     $ug_cpi_crt = 0;
169 if(strlen($_POST['pg_cpi_crt']))
170     $pg_cpi_crt = $_POST['pg_cpi_crt'];
171 else
172     $pg_cpi_crt = 0;
173 if(strlen($_POST['phd_cpi_crt']))
174     $phd_cpi_crt = $_POST['phd_cpi_crt'];
175 else
176     $phd_cpi_crt = 0;
177
178
179 $sql = "INSERT INTO plcmportal.eligible(company_name, profile_name, prog_name, tenth_per_crt, twelveth_per_crt, ug_cpi_crt,
pg_cpi_crt, phd_cpi_crt) VALUES (:company_name, :profile_name, :prog_name, :tenth_per_crt, :twelveth_per_crt,
:ug_cpi_crt, :pg_cpi_crt, :phd_cpi_crt)";
180 $stmt = $conn->prepare($sql);
181 $res = $stmt->execute(
182     array(
183         ':company_name' => $_SESSION['company_name'],
184         ':profile_name' => $_SESSION['profile_name'],
185         ':prog_name' => $prog_name,
186         ':tenth_per_crt' => $tenth_per_crt,
187         ':twelveth_per_crt' => $twelveth_per_crt,
188         ':ug_cpi_crt' => $ug_cpi_crt,
189         ':pg_cpi_crt' => $pg_cpi_crt,
190         ':phd_cpi_crt' => $phd_cpi_crt
191     )
192 );
193 header("Location:job_db_eligibility.php");
194 }
195
196 if(isset($_POST['logout']))

```

On master in Project, Line 52, Column 61

master (74) Tab Size: 4 PHP

Figure 8: Make programs eligible code(1)

```

File Edit Selection Find View Goto Tools Project Preferences Help
q2.pl std_db_jobs.php x job_db_app.php x job_db_eligibility.php x std_db_timeslots.php x std_login.php x std_signup.php x db.php x job_db_schedule.php x login.php x
98 <br>
99
100
101 <div class="dtable">
102     <h1> Eligible programs with criterias</h1>
103     <br>
104     <table class="table">
105         <thead>
106             <th scope="col"> Program </th>
107             <th scope="col"> 10th per criterias</th>
108             <th scope="col"> 12th per criterias</th>
109             <th scope="col"> UG cpi criterias</th>
110             <th scope="col"> PG cpi criterias</th>
111             <th scope="col"> PhD cpi criterias</th>
112         </thead>
113         <tbody>
114
115         <?php
116             require('db.php');
117             $sql = "SELECT * FROM plcmportal.eligible WHERE eligible.profile_name='".$_SESSION['profile_name']."' AND
eligible.company_name='".$_SESSION['company_name']."'";
118
119             $stmt = $conn->query($sql);
120
121             while ($row=$stmt->fetch(PDO::FETCH_ASSOC)) {
122                 echo "<tr><td>";
123                 echo $row['prog_name'];
124                 echo "</td><td>";
125                 echo $row['tenth_per_crt'];
126                 echo "</td><td>";
127                 echo $row['twelveth_per_crt'];
128                 echo "</td><td>";
129                 echo $row['ug_cpi_crt'];
130                 echo "</td><td>";
131                 echo $row['pg_cpi_crt'];
132                 echo "</td><td>";
133                 echo $row['phd_cpi_crt'];
134                 echo "</td></tr>";
135
136             }
137         </?php>
138     </tbody>
139 </table>
140 </div>

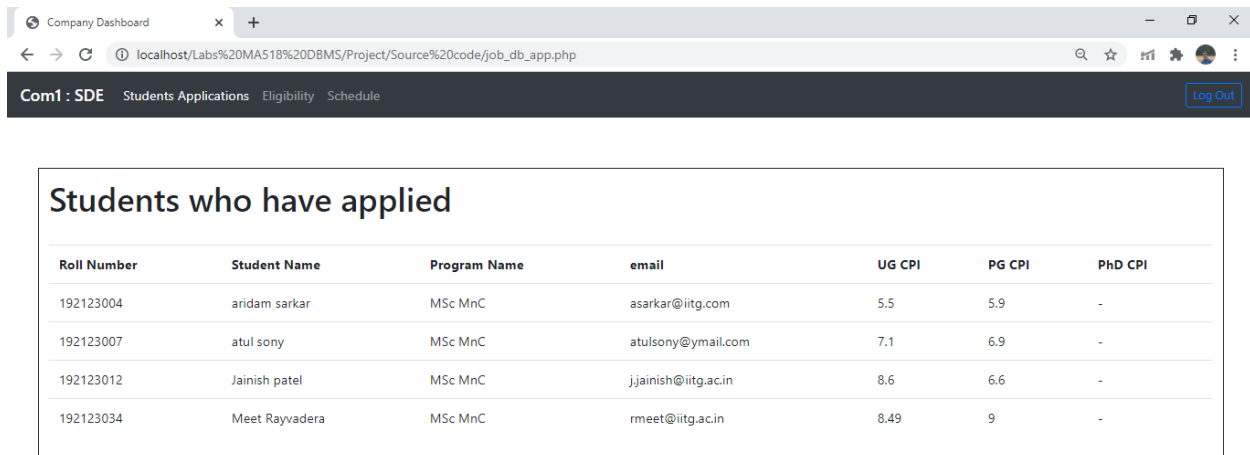
```

On master in Project, Line 52, Column 61

master (74) Tab Size: 4 PHP

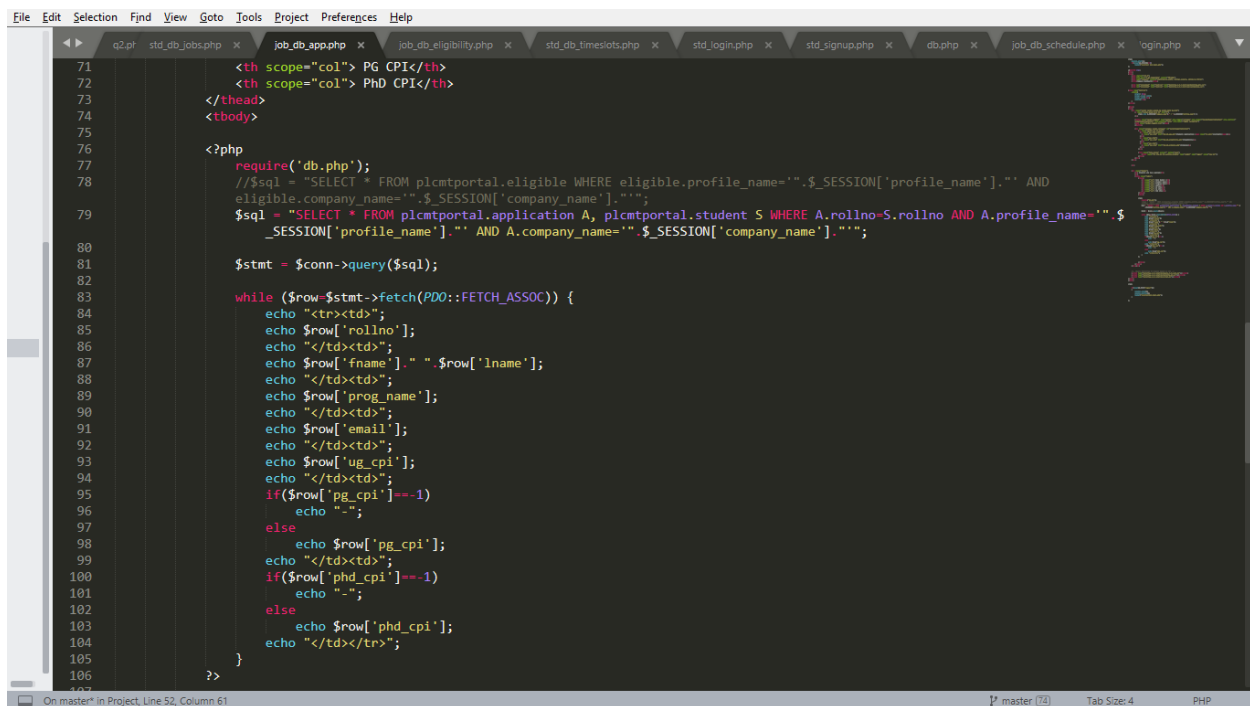
Figure 9: Make programs eligible (Code 2)

Company will be able to see details of students who have applied till now. (Note that student will be only able to apply if he/she is eligible).



Roll Number	Student Name	Program Name	email	UG CPI	PG CPI	PhD CPI
192123004	aridam sarkar	MSc MnC	asarkar@iitg.com	5.5	5.9	-
192123007	atul sony	MSc MnC	atulsony@gmail.com	7.1	6.9	-
192123012	Jainish patel	MSc MnC	j.jainish@iitg.ac.in	8.6	6.6	-
192123034	Meet Rayvadera	MSc MnC	rmeet@iitg.ac.in	8.49	9	-

Figure 10: Student Applications



```
71 <th scope="col"> PG CPI</th>
72 <th scope="col"> PhD CPI</th>
73 </thead>
74 <tbody>
75
76 <?php
77 require('db.php');
78 // $sql = "SELECT * FROM plcmportal.eligible WHERE eligible.profile_name='".$SESSION['profile_name']."' AND
79 // eligible.company_name='".$SESSION['company_name']."'";
79 $sql = "SELECT * FROM plcmportal.application A, plcmportal.student S WHERE A.rollno=S.rollno AND A.profile_name='".$SESSION['profile_name']."' AND A.company_name='".$SESSION['company_name']."'";
80
81 $stmt = $conn->query($sql);
82
83 while ($row=$stmt->fetch(PDO::FETCH_ASSOC)) {
84     echo "<tr><td>";
85     echo $row['rollno'];
86     echo "</td><td>";
87     echo $row['fname']." ".$row['lname'];
88     echo "</td><td>";
89     echo $row['prog_name'];
90     echo "</td><td>";
91     echo $row['email'];
92     echo "</td><td>";
93     echo $row['ug_cpi'];
94     echo "</td><td>";
95     if($row['pg_cpi']==-1)
96         echo "-";
97     else
98         echo $row['pg_cpi'];
99     echo "</td><td>";
100     if($row['phd_cpi']==-1)
101         echo "-";
102     else
103         echo $row['phd_cpi'];
104     echo "</td></tr>";
105 }
106 >>
```

Figure 11: Student Applications (Code)

Company will be able to schedule various events such as placement talks, tests and interview. This will be visible to only those students who are eligible and have applied.

Company Dashboard

localhost/Labs%20MAS18%20DBMS/Project/Source%20code/job\_db\_schedule.php

Com1 : SDE Students Applications Eligibility Schedule Log Out

## Schedule an event

Enter event purpose :

Enter start time :

Enter end time :

Links :

### Events Scheduled

Purpose	Start time	End time	Links
Test 1	2020-11-28 20:00:00	2020-11-28 21:00:00	

Figure 12: Schedule an event

```

81 </div>
82 </form>
83 </div>
84
85 <br>
86
87 <div class="dtable">
88 <h1> Events Scheduled</h1>
89 <br>
90 <table class="table">
91 <thead>
92 <th scope="col"> Purpose </th>
93 <th scope="col"> Start time</th>
94 <th scope="col"> End time</th>
95 <th scope="col"> Links</th>
96 </thead>
97 <tbody>
98
99
100 <?php
101 require('db.php');
102 $sql = "SELECT * FROM plcmportal.time_slots T WHERE T.company_name='".$$_SESSION['company_name']."' AND
103 T.profile_name='".$$_SESSION['profile_name']."' ORDER BY T.start_time";
104
105 $stmt = $conn->query($sql);
106
107 while ($row=$stmt->fetch(PDO::FETCH_ASSOC)) {
108     echo "<tr><td>";
109     echo $row['purpose'];
110     echo "</td><td>";
111     echo $row['start_time'];
112     echo "</td><td>";
113     echo $row['end_time'];
114     echo "</td><td>";
115     echo $row['links'];
116     echo "</td></tr>";
117 }
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```

The screenshot shows a web browser window with a single tab titled 'Student Dashboard'. The address bar displays the URL 'localhost/Labs%20MA518%20DBMS/Project/Source%20code/std\_db\_jobs.php'. The browser's address bar includes navigation icons (back, forward, refresh) and a search icon. The page header is dark grey and contains the text 'Welcome Meet Rayvadera' followed by a link 'Eligible jobs' and a 'Time slots' link. A 'Log Out' button is located in the top right corner of the header. The main content area has a light grey background and features a section titled 'Eligible jobs' in a large, bold, black font. Below the title is a table with five columns: 'Company\_name', 'Profile\_name', 'Application Deadline', 'CTC (in LPA)', and 'Apply'. The table contains four rows of data. Each row has a 'Company\_name' (Com1, Com2, Com3, Com3), a 'Profile\_name' (SDE, Quant, Analyst, Data Science), an 'Application Deadline' (2020-12-01 00:00:00, 2020-12-02 00:00:00, 2020-12-01 00:00:00, 2020-12-03 00:00:00), a 'CTC (in LPA)' (12, 25, 11, 20), and an 'Apply' button. The 'Apply' buttons are grey with rounded corners and the text 'Applied' in a lighter grey font.

Company_name	Profile_name	Application Deadline	CTC (in LPA)	Apply
Com1	SDE	2020-12-01 00:00:00	12	Applied
Com2	Quant	2020-12-02 00:00:00	25	Applied
Com3	Analyst	2020-12-01 00:00:00	11	Apply
Com3	Data Science	2020-12-03 00:00:00	20	Applied

[illegible]

Figure 15: Eligible jobs (Code:1)



```
File Edit Selection Find View Goto Tools Project Preferences Help
q2.php x std_db_jobs.php x job_db_app.php x job_db_eligibility.php x std_db_timeslots.php x std_login.php x std_signup.php x db.php x job_db_schedule.php x x
124 </body>
125 </html>
126
127 <?php
128
129 for($i=1; $i<sizeof($memo); $i++)
130 {
131     $sstr = "sub".$i;
132     if(isset($_POST[$sstr]))
133     {
134         $rollno = $_SESSION['rollno'];
135         $prog_name = $_SESSION['prog_name'];
136         $company_name = $memo[$i][1];
137         $profile_name = $memo[$i][2];
138
139         $sql = "INSERT INTO plcmportal.application(rollno,prog_name,company_name,profile_name,statas) VALUES (:rollno,
140 :prog_name, :company_name, :profile_name, :statas)";
141 $stmt = $conn->prepare($sql);
142 $stmt->execute(
143     array(
144         ':rollno'=>$rollno,
145         ':prog_name'=>$prog_name,
146         ':company_name'=>$company_name,
147         ':profile_name'=>$profile_name,
148         ':statas'=>"Applied"
149     )
150 );
151 header('Location:std_db_jobs.php');
152 }
153
154 if(isset($_POST['logout']))
155 {
156     session_unset();
157     session_destroy();
158     header("Location:std_login.php");
159 }
160
161
```

Figure 16: Eligible jobs (Code 2)

After more than 0 applications, student will be able to see *customized* time slot of event scheduled by company for which student has applied.

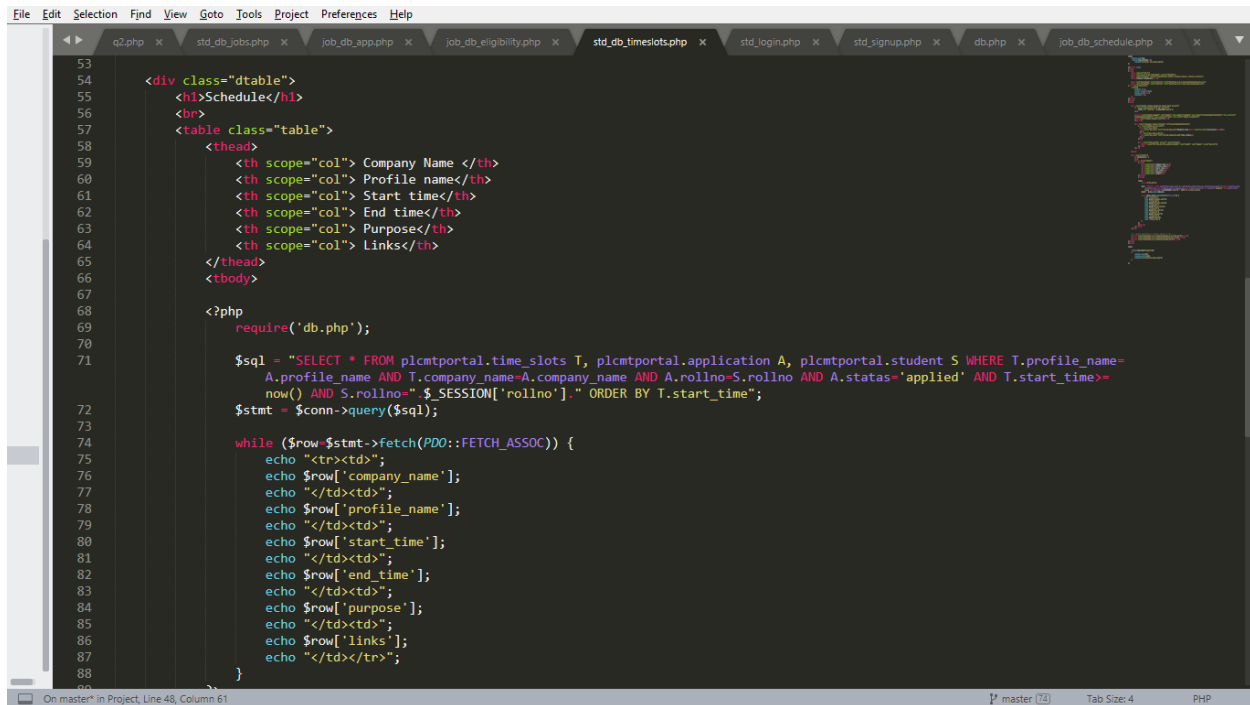
Student Dashboard x +

localhost/Labs%20MA518%20DBMS/Project/Source%20code/std\_db\_timeslots.php

Welcome Meet Rayvadera Eligible jobs Time slots Log Out

Schedule					
Company Name	Profile name	Start time	End time	Purpose	Links
Com2	Quant	2020-12-03 15:00:00	2020-12-03 17:00:00	Placement Talk	
Com2	Quant	2020-12-03 17:00:00	2020-12-03 20:00:00	Test 1	
Com3	Data Science	2020-12-15 18:00:00	2020-12-15 19:00:00	Placement Talk	
Com3	Data Science	2020-12-16 14:00:00	2020-12-16 15:00:00	Test 1	

Figure 17: Customized time slot



```
53
54 <div class="dtable">
55 <h1>Schedule</h1>
56 <br>
57 <table class="table">
58 <thead>
59 <th scope="col"> Company Name </th>
60 <th scope="col"> Profile name</th>
61 <th scope="col"> Start time</th>
62 <th scope="col"> End time</th>
63 <th scope="col"> Purpose</th>
64 <th scope="col"> Links</th>
65 </thead>
66 <tbody>
67
68 <?php
69 require('db.php');
70
71 $sql = "SELECT * FROM plcmportal.time_slots T, plcmportal.application A, plcmportal.student S WHERE T.profile_name=
A.profile_name AND T.company_name=A.company_name AND A.rollno=S.rollno AND A.status='applied' AND T.start_time>=
now() AND S.rollno='".$$_SESSION['rollno']."' ORDER BY T.start_time";
72 $stmt = $conn->query($sql);
73
74 while ($row=$stmt->fetch(PDO::FETCH_ASSOC)) {
75 echo "<tr><td>";
76 echo $row['company_name'];
77 echo "</td><td>";
78 echo $row['profile_name'];
79 echo "</td><td>";
80 echo $row['start_time'];
81 echo "</td><td>";
82 echo $row['end_time'];
83 echo "</td><td>";
84 echo $row['purpose'];
85 echo "</td><td>";
86 echo $row['links'];
87 echo "</td></tr>";
88
89 }
```

Figure 18: Student time slots Code

Overall, most of the basic functionalities are covered which was the goal. We have made it as much simple as we can to make it easy-to-use for users and at the same time, we made sure that it serves the purpose.

Division of labor: All PHP part was done by Meet and User interface was designed by Jainish. Whole system was designed and simplified by both of us.