



Final term Exam (FA-18)

Program Name BSCS

Course Code CSSE3143

Course Name Web Application Development

Course Instructors

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Time Allowed **180 mints**

Total marks available 100

Academic Honesty Policy Academic dishonesty will not be tolerated. Academic dishonesty includes cheating, plagiarism (copying) or any other attempt to gain an academic advantage in a dishonest or unfair manner.

Instructions (Designing a *Pak Army* Application)

You need to develop *Pak Army application* which can accept applicants data in the given text area and filter out eligible candidate's list having valid information according to the army selection criteria and display in a table below so that eligible candidate can apply to proceed. A zip file which contains the content of the Web Application is provided to you. This zip file contains "**index.php**", "**apply.php**" and "**data.txt**", a "css" folder with "**style.css**", "**bootstrap.css**" file inside it, a "db" folder with "**army_db.sql**" file inside it, a "img" folder and a "**screenshots**" folder with the final targeted design screenshot. All your code should be added to "index.php" and "apply.php" file. You **shouldn't remove, add, or move any file or folder**.

Submission

Compress all the files into a zip file and submit it to the "final-term" folder submission directory on LMS.

Army Eligibility Conditions To Apply

	<i>Rules</i>	<i>Matches</i>	<i>Non-Matches</i>
<i>name</i>	<ul style="list-style-type: none"> Should contain only capital letter alphabets Single space, dot(.) and dash(-) can come in between and space can come after dot too. Consecutive Spaces or dashes not allowed. Space, dot or dash in the start or end not allowed. 	<ul style="list-style-type: none"> JUNAID AHMED SAMI-UR-REHMAN M. USMAN M.SHOAIB 	<ul style="list-style-type: none"> HAFIZA-.ANAM @@LIA TABASUM ASRA..KHALIL HAMMAD MUB33N
<i>reg#</i>	<ul style="list-style-type: none"> Only UCP BSCS registration numbers are allowed. Spaces or dashes are not allowed. 	<ul style="list-style-type: none"> L1S16BSCS4502 L1S16BSCS0084 L1F16BSCS0548 	<ul style="list-style-type: none"> L2D12MSCS0001 L1-F12-BBIT-9909 L1 F17 BSCS 9989
<i>cgpa</i>	<ul style="list-style-type: none"> Cgpa must be greater than 2.5 and less than or equals to 4.0 Up to two digits are allowed after the decimal. 	<ul style="list-style-type: none"> 3.9 2.59 4.0 3 	<ul style="list-style-type: none"> 2.1 3. 3.888 9 .35 3,5
<i>dob</i>	<ul style="list-style-type: none"> Date of birth must be in the format dd/mm/yyyy Year of birth must be from 1989 to 1999 	<ul style="list-style-type: none"> 03/09/1996 24/9/1990 30/12/1999 	<ul style="list-style-type: none"> 3/9/2000 3/10/1980 40/9/1996 20/13/1994
<i>height</i>	<ul style="list-style-type: none"> Height must be between 5 feet 3 inches to 7 feet 	<ul style="list-style-type: none"> 5^3 6^12 6 7^0 	<ul style="list-style-type: none"> 5^2 7^1 6^

Question 01

1. After copying all text from **data.txt** and pasting it in the given text-area on index.php file, you need to submit and receive that data on the server-side on the same file. (5)
2. Write a regular expression to filter the eligible candidates according to above-mentioned criteria. (5x6=30)
 - Name
 - Reg
 - Cgpa
 - Dob
 - Height

Hint:

Paste all data from data.txt on <https://regex101.com/> and write the regex

There are **only 12 eligible candidates** with valid given data of 40 students

REGULAR EXPRESSION: `\d+\s` 12 matches, 9361 steps (~17ms)

TEST STRING: SWITCH TO UNIT TESTS ▶

1	JUNAID AHMED	L1F16BSCS0005	3.0	02/12/1990	7^1
2	SAMI-UR-REHMAN KHAN	L1S16BSCS0108	2..0	3/9/1994	5^8
3	M. USMAN	L1F16BSCS0339	3.0	3/9/1894	5^8
4	HAFIZA-.ANAM SHAFIQ	L1F16BSCS0525	3.0	3/9/1994	5^1
5	@@LIA TABASUM	L1F16BSCS0548	3.0	3/9/1994	5^2
6	ASRA..KHALIL	L1S16BSCS0084	3.0	3/9/1994	5^8
7	M.SHOAIB	L1F16BSAF0162	3.0	3/9/1994	7
8	FAISAL JAWAD	L1F16BSCS0013	3.5	04/2/1995	6
9	NOOR AHMAD	L1F16BSCS0054	4.0	20/2/1990	6^01
10	HAFIZ AMEER HAMZA RIZWAN BUTT	L1F16BSCS0139	2.5	03/8/1999	5^9
11	MUHAMMAD HAMMAD MUB33N	L1F16BSCS0145	3	03/9/1993	5^8
12	MUHAMMAD USAID KHAN SHERWANI	L1F16BSCS0146	2.91	3/70/1980	5^8
13	ZURAIZ AHMAD BABAR	L1F16BSCS0180	3.33	3/9/2000	5^8
14	MUHAMMAD ALI SULEHRI	L1F16BSCS0184	90	13/9/1980	5^8
15	ALI HAMZA	L1F16BSCS0195	4	3/2/1995	5^08
16	SHEHREEN FATIMA	L1F16BSCS0217	4.0	3/01/2001	5^8

- After writing a valid regex, use that regex in `preg_match_all($pattern, $data, $matches_out)`, extract groups of **name**, **reg**, **cgpa**, **dob** and **height** to iterate filtered candidates to display them in the table dynamically using PHP (15)

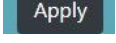
Hint:

Review examples on <https://regexone.com/references/php> to check how it works

Use `str_replace()` to replace `^` with `'` in height column to just display

Eligible Candidates List						
Name	Reg#	CGPA	Dob	Height	Actions	
FAISAL JAWAD	L1F16BSCS0013	3.5	04/2/1995	6	Apply	
NOOR AHMAD	L1F16BSCS0054	4.0	20/2/1990	6'01	Apply	
HAFIZ AMEER HAMZA RIZWAN BUTT	L1F16BSCS0139	2.5	03/8/1999	5'9	Apply	
ALI HAMZA	L1F16BSCS0195	4	3/2/1995	5'08	Apply	
YUSRA SHAHID	L1F16BSCS0409	2.99	3/12/1998	5'3	Apply	
TAHREEM FATIMA	L1F16BSCS0192	3.0	29/11/1999	5'4	Apply	
SAMAN SHAHZAD KHAN	L1F16BSCS0199	3.99	13/09/1998	5'3	Apply	
MUHAMMAD WISAAM ARIF	L1F16BSCS0248	4	01/07/1995	5'8	Apply	
HASHIR UMAR	L1F16BSCS0263	4	3/9/1994	5'07	Apply	
AZAN ARIF	L1F16BSCS0293	3	12/07/1996	5'8	Apply	
IRTAZA NADEEM	L1F16BSCS0311	3.5	3/9/1992	5'09	Apply	

Question 02

- Call **apply()** function of javascript by *onclick* event on button  against each candidate and send particular candidate's data as arguments and receive in function parameters. (10)
- Update javascript function **apply()** to make an asynchronous call to the server file **apply.php** and send the received data to the server. (10)

3. Receive the candidate's data on server file ***apply.php*** (5)
4. In ***apply.php***, Check by registration number, if the candidate is already in the database table, return "Can't Apply Twice" otherwise insert in the database and return "Applied Successfully" (7+8)

Name	Reg#	CGPA	Dob	Height	Actions
FAISAL JAWAD	L1F16BSCS0013	3.5	04/2/1995	6	Can't Apply Twice
NOOR AHMAD	L1F16BSCS0054	4.0	20/2/1990	6'01	Apply
FIZ AMEER HAMZA RIZWAN BUTT	L1F16BSCS0139	2.5	03/8/1999	5'9	Applied Successfully
ALI HAMZA	L1F16BSCS0195	4	3/2/1995	5'08	Applied Successfully

Hint:

assign the apply buttons id with some dynamic value maybe reg# to make them unique

5. After receiving the asynchronous response from the server in the javascript function, update the button's value with response text, remove class "btn-dark" and add class "btn-warning". (10)

