Assignment Cover Sheet



* The information on this coversheet will be included in Turnitin’s similarity analysis; however, your lecturers are aware of this and will disregard it.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Student Details** | | | | | | | | | | | |
| **Student Number** | 1 | 0 | 4 | 6 | 4 | 8 | 9 | | 1 |  | |
| **Family Name** | Feroze | | | | | | | **Given Name** | | | Umair Mohamed |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Unit Details** | | | | | | | | | | | |
| **Unit Code** | CSI 2441 | | | **Unit Title** | | Applications Development | | | | | |
| **Name of Lecturer** | | | Dr. Naeem Janjua | | | | **Due Date** | | | 2019-09-16 | |
| **Topic of Assignment** | | | Assignment 01 | | **Group or Tutorial (if applicable)** | | | Individual | | | |
| **Course** | | Bachelor of Computer Science (U65) | | | | | | | **Campus** | | ACBT |
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| **Manual Submission** | | | | |
| If handing in an assignment in a paper or other physical form, sign here to indicate that you have read this form, filled it in completely and that you certify as above. | | | | |
| Signature |  | Date | 2019-09-16 | ***Office Use Only*** |
| **Electronic Submission** | | | |
| **OR,** if submitting this paper electronically as per instructions for the unit, place an ‘X’ in the box below to indicate that you have read this form and filled it in completely and that you certify as above. Please include this page with your submission. Any responses to this submission will be sent to your ECU email address. | | | |
| Agreement | select check box | Date |  |
| For procedures and penalties on late assignments please refer to the [University Admission, Enrolment and Academic Progress](http://intranet.ecu.edu.au/__data/assets/pdf_file/0005/378320/Admission-Enrolment-and-Academic-Rules.pdf)  [Rules](http://intranet.ecu.edu.au/__data/assets/pdf_file/0005/378320/Admission-Enrolment-and-Academic-Rules.pdf) - rule 24, and the ECU Course and Unit Delivery and Assessment Policy | | | | |

# Introduction

This assignment is to grant the opportunity to students to learn the languages PHP and ASP. NET and familiarize with it. Provided in this assignment is an HTML form that has already been given by ECU as a startup, and the necessary validation has to be done as per the business logic being elaborated in the assignment task sheet.

The Business Logic are as to be processed as follows:

* No blank fields should be accepted
* Unit Code should be 07 characters of length
* Credit Points can contain only 15 or 20 as value
* Year/Semester contains only 03 digits
* Marks is a numeric field that lies within a range from 0 to 100
* Student ID is a numeric field which is 08 characters in length
* Any subject is failed 03 times, then the student in “Excluded from Course”
* If student has completed more than 66% of a course and
  + If single unit with marks between 40 and 45, then “Supplementary Pass Granted!”
  + If single unit with marks between 45 and 49, then “Conceded Pass Granted!”

On completion of the correct implementation of this business logic, an additional task is to be completed, which is to modify the HTML form layout. This modification is completed and a word document regarding the necessary changes was required to be submitted. This Report will guide you through the changes that have been made to the HTML document and valid justifications to the respective changes that have been made on the HTML document.

# Changes Made and Justification

## Center the “Course Progress Analyzer” and the table

This change was brought about to improve the appearance and made it easier on the eyes to view the form and the topic instead of having to look towards the left side of the screen.

## Changing the Border of the whole table

This change was brought about to highlight and contrast the table from the completed web page and draw attention towards the table.

## Removing and Organizing the First name, Surname, Student, Course Type from Table

This change was brought about to differentiate the student details apart from the unit details. This draws attention towards what the user is looking for easily. Student details were added as labels.

## Course Type Details Edited

This change was brought about due to the difficulties I faced when writing codes in PHP and C#. Thus I had to use “if“ functions to identify the values for the course type. Therefore, in the HTML form, instead of numbers being used for the values, the names of the course types were replaced. This improves the Writeability and consistency of the code.

## Headings for Unit and Student Details

Within the main table border, I separated the Student Details from the Unit Details to bring to the user a clear separation and understanding of what information he is going to submit.

## Separating Unit Details into another Table

Unit details that include Unit Code, Credit Points, Year/Semester and Marks were left to remain in the same table as previously. But this table will be positioned such that it lies below the Unit Details Heading that differentiates clearly the student and unit details. Further the border of the table was also changed to improve on the contrasting between the main table and the units table.

## Required Fields

This change was brought about and implemented to the Student Details so that the user would not miss to enter the necessary details and would keep all necessary field non-empty.

## Credit Points Dropdown Box

This change was brought about to ensure that the user does not enter any other incorrect value. As the requirement states that the credit points must be either 15 or 20, a drop-down box was introduced to all 30 credit points fields so that the user may make only one of the given choices. Thus, the programmer may also need not perform extra validation on this form.

## Font – Times New Roman

This was a necessary change that was made to make the reading easier. This improves readability of the form and brings ease to the eyes of the reader. The “Italics” for the Unit Code Details were removed too.

## Input Fields – Color

The color of all the input fields were changed to a slighter grey color to highlight that it is an input field.

## Conclusion

The above changes were made to bring about positive changes amongst its users. Also, looking from the point of view of the programmer, it makes coding easier to handle as most of the minor validations are already being performed in the form itself. To implement these changes, research and self-study were handy. I have used CSS, to simplify my HTML codes that saves time and lines of code instead of having to replicate certain statements over and over again.