ISCG 6421 GUI Programming

Assignment 1 Progress Log

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| Date & Time: | 8 July 2020 – 9 July 2020 |
| Name of current version of project: | NZESportsLeagueV1 |
| Task(s) undertaken: | 1. Create a new project for the assignment.  2. Task 1: Main Menu   * Create Main Menu form * Create Data Module and set up connection to NZESL database (located in c:/Temp). * Create Arena Maintenance, Challenge Maintenance, Competitor Maintenance, Enter Competitor into Challenge, Event Maintenance, Events Report and Competitor Report forms, and create click events linking to them. * Design test case 1.1   3. Task 2: Arena Maintenance   * Connect Arena table to Arena Maintenance form * Create a list box displaying the Arena Name, which is navigable by using the Previous and Next buttons. * Create read only text boxes displaying Arena’s details, and associated labels. * Create panel for adding a new Arena. * Create AddArena\_Click, SaveArena\_Click, and CancelAddArena\_Click methods. * Create data validation rules for SaveArena\_Click method. * Design test cases 2.1, 2.6 and 2.7 |
| Source(s) of solution(s): | Followed instructions from the Assignment 1 Preparation Worksheet 1, adapted for the NZESL database.  Problem 1: Requested help on Discord    Problem 2: <https://docs.microsoft.com/en-us/visualstudio/data-tools/query-datasets?view=vs-2019>    <https://www.csharp-examples.net/dataview-rowfilter/>  <https://docs.microsoft.com/en-us/dotnet/api/system.data.datatable.select?view=netcore-3.1> |
| Problem(s) encountered: | Problem 1: I have no idea how to do task 2.4, specifically how to disable the buttons, and make the list disappear and make a new panel appear.  Problem 2: I need to access the database to see if the Arena Name and Street Address already exist before adding them to the database. |
| Progress made: | 1. Created a new project for the assignment.  2. Task 1: Main Menu   * Created Main Menu form, put all group boxes and buttons on the form. * Created Data Module and set up connection to NZESL database. * Created Arena Maintenance, Challenge Maintenance, Competitor Maintenance, Enter Competitor into Challenge, Event Maintenance, Events Report and Competitor Report forms and created click events linking to them. * Designed test case 1.1   3. Task 2: Arena Maintenance   * Connected Arena table to Arena Maintenance form, * Created a list box displaying the Arena Name, which is navigable by using the Previous and Next buttons. * Created read only text boxes displaying Arena’s details, and associated labels. * Created panel for adding a new Arena, with labels and associated text and combo boxes. * Created AddArena\_Click, SaveArena\_Click, and CancelAddArena\_Click methods to show and hide the new panel and other elements, and save the new Arena to the database. * Designed test cases 2.1, 2.6 and 2.7 * Created a validation rule for SaveArena\_Click method to ensure that all fields are filled in. I’m still stuck on the duplicate data rules. |
| Name of new version of project: | NZESportsLeagueV1 |
| Time Taken: | 14.5 hours |

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| Date & Time: | 17th August 2020 – 24th August 2020 |
| Name of current version of project: | NZESportsLeagueV1 |
| Task(s) undertaken: | Task 2: Arena Maintenance   * Create Update Arena panel * Create UpdateArena\_Click, SaveChanges\_Click, and CancelUpdateArena\_Click methods. * Create DeleteArena\_Click method * Design test cases 2.2, 2.3, 2.4, 2.5, 2.8 and 2.9   Task 3: Challenge Maintenance   * Display start time with time only in 24 hour format   Task 4: Competitor Maintenance   * Create DeleteCompetitor\_Click method |
| Source(s) of solution(s): | * Followed instructions from the Assignment 1 Preparation Worksheet 1, adapted for the NZESL database. * Had one on one meeting with my lecturer (Jesse) via Zoom and discord discussion * Problem 2 is actually outside the scope of the assignment, I just need to make sure that there are number s in the number fields etc      * Problem 5: Jesse advised that the drop down box should actually be a date/time picker.   Problem 4: <https://stackoverflow.com/questions/392098/how-to-make-combobox-in-winforms-readonly/498357#:~:text=Just%20change%20the%20DropDownStyle%20to,completely%20readonly%20and%20vice%20versa.> |
| Problem(s) encountered: | Problem 3: Displaying ONLY the time in the start time field. I know I have to convert it to HH:mm    Problem 4: Make combo box read only in Challenge Maintenance Form.  Problem 5: In the Challenge Maintenance form, a drop down box is used for the start time field in the Update Challenge panel.  Problem 6: Combo box for City in Arena Maintenance form – I need to both lock the values (user can’t enter their own), and reset the values in the add and update panels. |
| Progress made: |  |
| Name of new version of project: |  |
| Time Taken: | 14hrs |

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| Date & Time: | 25th August 2020 |
| Name of current version of project: | NZESportsLeagueV1 |
| Task(s) undertaken: |  |
| Source(s) of solution(s): |  |
| Problem(s) encountered: | Problem: when I try and create relationships between the tables, and then run the program, I get this error. |
| Progress made: |  |
| Name of new version of project: |  |
| Time Taken: |  |

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| Date & Time: | 29th August 2020 |
| Name of current version of project: |  |
| Task(s) undertaken: | Task 6:   * Display the competitor’s details (competitor id, username, first name, last name, gender, date of birth, and email) in a data grid view. * Display the challenges’ details (challenge id, challenge name, time, status, capacity, and event id) in a data grid view. |
| Source(s) of solution(s): | Problem – how to do a confirmation window before deleting an entry  <https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.messagebox.show?view=netcore-3.1#System_Windows_Forms_MessageBox_Show_System_String_>  <https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.messageboxbuttons?view=netcore-3.1> |
| Problem(s) encountered: | Problem – Enter Competitor into Challenge - Start Time needs to be formatted properly |
| Progress made: |  |
| Name of new version of project: |  |
| Time Taken: |  |

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| Date & Time: | 30th August 2020 |
| Name of current version of project: |  |
| Task(s) undertaken: | Task 7: Competitor Report  * This must allow the user to print (on a print form) a report called ‘Competitors’ that shows, for each Competitor with challenge entries, the Competitor ID, Username, first name, last name, gender, date of birth, email, challenge ID, challenge name, start time. One Competitor per page. Please note that Crystal Report is NOT to be used for this task and the report is to be produced using Master-Detail relationships in conjunction with ‘for-each’ loops. Please find below the logic that produces a display version this report – this logic needs to be adapted for producing the printed report:  Task 8: Event Report  * This must allow the user to print (on a print form) a report called ‘Events’ that shows, for each event, event ID, event name, arena name and address, event date, and the details (challenge id, challenge name, and start time) of each of the event’s challenges. One event per page. Please note that Crystal Report is NOT to be used for this task and the report is to be produced using Master-Detail relationships in conjunction with ‘for-each’ loops. Please find below the logic that produces a display version this report – this logic needs to be adapted for producing the printed report: |
| Source(s) of solution(s): | Filters <https://www.csharp-examples.net/dataview-rowfilter/> |
| Problem(s) encountered: | Problem: I don’t need to filter out any variables, but I need a filter statement for my competitorsForPrint definition.    Both my reports say that the document does not contain any pages |
| Progress made: |  |
| Name of new version of project: |  |
| Time Taken: |  |

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| Date & Time: | 1st September 2020 – 3rd September 2020 |
| Name of current version of project: |  |
| Task(s) undertaken: | General code tidy up  Challenge Screen – start time fields |
| Source(s) of solution(s): | Asked Jesse if I could change the field type to a DateTimePicker and he said yes. This is easier to work with.  Also, <https://www.c-sharpcorner.com/blogs/date-and-time-format-in-c-sharp-programming1>  Just changed from storing the time in the “value” attribute, to “text” when displaying it, but keeping the value attribute for updates and adds. |
| Problem(s) encountered: | Getting the Start Time fields into a 24 hour format  I get an exception range, which I think relates to the dates in the start time column in the database – as in, there aren’t any, just the times, so it is defaulting to “01/01/0001” which is out of the min-max value range for the dates. And the minimum cannot be changed. |
| Progress made: | I’ve gotten everything working, except for the reports.  I haven’t got the logic right and its still repeating some lines, but this is as far as I can go… |
| Name of new version of project: |  |
| Time Taken: | 20 hours |