ISCG 6421 GUI Programming

Assignment 1 Progress Log

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| Date & Time: | 8:00 pm 11th March 2019 |
| Name of current version of project: | N/A |
| Task(s) undertaken: | Create new project for assignment.  Complete interface for main menu.  Complete the data module form and the database connection. |
| Source(s) of solution(s): | Followed instructions in Assignment 1 Preparation worksheet 1 and adapted them and the code for the NorthIslandRacing database. |
| Problems encountered: | None. |
| Progress made: | Created new project for assignment.  Interface for main menu is now completed.  Data Module created and the database connection.  Project runs and displays for main menu/ |
| Name of new version of project: | Assignment1\_on\_110320 |
| Time Taken: | 90 minutes |

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| Date & Time | 2:00 pm 13th March 2020 |
| Name of current version of project: | Assignment1\_on\_110320 |
| Task(s) undertaken: | Task 2: Race course Maintenance   * Display the race courses’ names in a list. * Allows the user to navigate between race courses in the list. * Display a selected race course’s details (race course id, name, street address, suburb, city, and phone number) in a read-only format. * If the user clicks on the **Add Race course** button, then   + The **Previous**, **Next**, **Return**, **Update Race course** and **Delete Race course** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Race course** and **Cancel** buttons) allowing the user to enter values for the new race course’s name, street address, suburb, city, and phone number.   + If the user enters valid data for all fields and clicks on the **Save Race course** button, then a new Race course record is saved in the database and the message “Race course added successfully” is displayed.   + If the user clicks on the **Cancel** button then panel should disappear, the **Previous**, **Next**, **Return**, **Update Race course** and **Delete Race course** buttons are enabled and the list should reappear. * If the user clicks on the **Update Race course** button, then   + The **Previous**, **Next**, **Return**, **Add Race course** and **Delete Race course** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Changes** and **Cancel** buttons) allowing the user to change the values for the race course’s name, street address, suburb, city, or phone number.   + If the user makes valid changes to any of the allowable fields and clicks on the **Save Changes** button, then the race course record is updated in the database and the message “Race course updated successfully” is displayed.   + If the user clicks on the **Cancel** button then the panel should disappear, the **Previous**, **Next**, **Return**, **Add Race course** and **Delete Race course** buttons should be enabled and the list should reappear. * If the user clicks on the **Delete Race course** button and the selected race course has no meetings, then the user is asked to confirm the deletion – if the user confirms the deletion then the race course is deleted from the database and the message “Race course deleted successfully” is displayed. * If the user clicks on the **Delete Race course** button and the selected race course has meetings, then the error message “ ” is displayed.   If the user clicks on the **Return** button, then focus is returned to the Main Menu. |
| Source(s) of solution(s): | Using the assignment preparation worksheet 1 and following it step by step to achieve the final output of form. Learning how items work from reading articles in stackoverflow |
| Problems encountered: | Attempt to delete meeting with an existing meeting was not working, as the meeting form hasn’t been completed, and realising that this issue would apply to all forms except the reports form and the enter horses into races form. |
| Progress made: | Created the Race course form and made sure that all the necessary requirements were completed.  All buttons panels were added. |
| Name of new version of project: | Assignment1\_on\_130320 |
| Time Taken: | 120 minutes |

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| Date & Time: | 2:00 pm 18th March 2020 |
| Name of current version of project: | Assignment1\_on\_130320 |
| Task(s) undertaken: | Task 3: Owner Maintenance   * Display the owners’ names in a list. * Allows the user to navigate between owners in the list. * Display a selected owner’s details (owner id, last name, first name, street address, suburb, city, email address, and phone number in a read-only format. * If the user clicks on the **Add Owner** button, then   + The **Previous**, **Next**, **Return**, **Update Owner** and **Delete Owner** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Owner** and **Cancel** buttons) allowing the user to enter values for the new owner’s last name, first name, street address, suburb, city, email address, and phone number.   + If the user enters valid data for all fields and clicks on the **Save Owner** button, then a new owner record is saved in the database and the message “Owner added successfully” is displayed.   + If the user clicks on the **Cancel** button then panel should disappear, the **Previous**, **Next**, **Return**, **Update Owner** and **Delete Owner** buttons are enabled and the list should reappear. * If the user clicks on the **Update Owner** button, then   + The **Previous**, **Next**, **Return**, **Add Owner** and **Delete Owner** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Changes** and **Cancel** buttons) allowing the user to change the values for the owner’s last name, first name, street address, suburb, city, email address, or phone number.   + If the user makes valid changes to any of the allowable fields and clicks on the **Save Changes** button, then the owner record is updated in the database and the message “Owner updated successfully” is displayed.   + If the user clicks on the **Cancel** button then the panel should disappear, the **Previous**, **Next**, **Return**, **Add Owner** and **Delete Owner** buttons should be enabled and the list should reappear. * If the user clicks on the **Delete Owner** button and the selected owner has no horses, then the user is asked to confirm the deletion – if the user confirms the deletion then the owner is deleted from the database and the message “Owner deleted successfully” is displayed. * If the user clicks on the **Delete Owner** button and the selected owner has at least one horse, then the error message “You may only delete owners who have no horses” is displayed. * If the user clicks on the **Return** button, then focus is returned to the Main Menu. |
| Source(s) of solution(s): | Using the assignment preparation worksheet 1 and following it step by step to achieve the final output of form. |
| Problems encountered: |  |
| Progress made: | Created the Owner form and made sure that all the necessary requirements were completed.  All buttons panels were added. |
| Name of new version of project: | Assignment1\_on\_180320 |
| Time Taken: | 140 minutes |

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| Date & Time: | 9:30 pm 23th March 2020 |
| Name of current version of project: | Assignment1\_on\_180320 |
| Task(s) undertaken: | Task 4: Race Maintenance   * Display the race ids in a list. * Allows the user to navigate between races in the list. * Display a selected race’s details (race id, race name, meeting id, meeting name, race time, status, and capacity) in a read-only format. * If the user clicks on the **Add Race** button, then   + The **Previous**, **Next**, **Return**, **Update Race, Delete Race, Mark Race as Finished**, and **Mark Race as Completed** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Race** and **Cancel** buttons) allowing the user to enter values for the new race’s name, meeting (using combo boxes), race time, status (using a combo box), and capacity (using a number picker).   + If the user enters valid data for all fields and clicks on the **Save Race** button, then a new race record is saved in the database and the message “Race added successfully” is displayed.   + If the user clicks on the **Cancel** button then the panel should disappear, the **Previous**, **Next**, **Return**, **Update Race**, **Delete Race, Mark Race as Finished**, and **Mark Race as Completed** buttons are enabled and the list should reappear. * If the user clicks on the **Update Race** button, then   + The **Previous**, **Next**, **Return**, **Add Race**, **Delete Race, Mark Race as Finished**, and **Mark Race as Completed** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Changes** and **Cancel** buttons) allowing the user to change the value for the race’s name, time and capacity (using a number picker.   + If the user makes valid changes to any of the allowable fields and clicks on the **Save Changes** button, then the race record is updated in the database and the message “Race updated successfully” is displayed.   + If the user clicks on the **Cancel** button then panel should disappear, the **Previous**, **Next**, **Return**, **Add Race**, **Delete Race, Mark Race as Finished**, and **Mark Race as Completed** buttons are enabled and the list should reappear. * If the user clicks on the **Delete Race** button and the selected race has no entries, then the user is asked to confirm the deletion – if the user confirms the deletion then the race record is deleted from the database and the message “Race deleted successfully” is displayed. * If the user clicks on the **Delete Race** button and the selected race has entries, then the error message “You may only delete a race that has no entries” is displayed. * If the user clicks on the **Mark Race as Finished** button and the selected race has a status of ‘Scheduled’ then the race’s status is changed to ‘Finished’ in the database, and the message “Race marked as finished” is displayed. * If the user clicks on the **Mark Race as Finished** button and the selected race does not have a status of ‘Scheduled’, then the error message “Only scheduled races can be marked as finished” is displayed. * If the user clicks on the **Mark Race as Completed** button and the selected race has a status of ‘Finished’ then the race’s status is changed to ‘Completed’ in the database, all entries linked to the race are deleted and the message “Race marked as completed” is displayed. * If the user clicks on the **Mark Race as Completed** button and the selected race does not have a status of ‘Finished’, then the error message “Only finished races can be marked as completed” is displayed. * If the user clicks on the **Return** button, then focus is returned to the Main Menu. |
| Source(s) of solution(s): | Using the assignment preparation worksheets and following it step by step to achieve the final output of form. |
| Problems encountered: | Retrieving values from combo box and setting date and time fields. Eventually solved all of the issues.  Getting value from using foreign key. |
| Progress made: | Created the Race form and made sure that all the necessary requirements were completed.  All buttons panels were added. |
| Name of new version of project: | Assignment1\_on\_230320 |
| Time Taken: | 90 minutes |

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| Date & Time: | 10:00 pm 29th March 2020 |
| Name of current version of project: | Assignment1\_on\_230320 |
| Task(s) undertaken: | Task 5: Horse Maintenance   * Display the horses’ names in a list. * Allows the user to navigate between horses in the list. * Display a selected horse’s details (horse id, name, owner id, owner last name, owner first name, status, and date of birth) in a read-only format. * If the user clicks on the **Add Horse** button, then   + The **Previous**, **Next**, **Return**, **Update Horse** and **Delete Horse** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Horse** and **Cancel** buttons) allowing the user to enter values for the new horse’s name, owner id (using combo boxes), gender (using a combo box), and date of birth (using a date picker).   + If the user enters valid data for all fields and clicks on the **Save Horse** button, then a new horse record is saved in the database and the message “Horse added successfully” is displayed.   + If the user clicks on the **Cancel** button then panel should disappear, the **Previous**, **Next**, **Return**, **Update Horse** and **Delete Horse** buttons are enabled and the list should reappear. * If the user clicks on the **Update Horse** button, then   + The **Previous**, **Next**, **Return**, **Add Horse** and **Delete Horse** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Changes** and **Cancel** buttons) allowing the user to change the values for the horse’s name, date of birth (using a date picker), and gender (using a combo box).   + If the user makes valid changes to any of the allowable fields and clicks on the **Save Changes** button, then the horse record is updated in the database and the message “Horse updated successfully” is displayed.   + If the user clicks on the **Cancel** button then the panel should disappear, the **Previous**, **Next**, **Return**, **Add Horse** and **Delete Horse** buttons should be enabled and the list should reappear. * If the user clicks on the **Delete Horse** button and the selected horse has no entries, then the user is asked to confirm the deletion – if the user confirms the deletion then the horse is deleted from the database and the message “Horse deleted successfully” is displayed. * If the user clicks on the **Delete Horse** button and the selected horse has entries, then the error message “You may only delete horses that have no entries” is displayed. * If the user clicks on the **Return** button, then focus is returned to the Main Menu.   Task 6: Meeting Maintenance   * Display the meetings’ names in a list. * Allows the user to navigate between meetings in the list. * Display a selected meeting’s details (meeting id, meeting name, status, capacity, meeting date, race course id, and race course name) in a read-only format. * If the user clicks on the **Add Meeting** button, then   + The **Previous**, **Next**, **Return**, **Update Meeting** and **Delete Meeting** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Meeting** and **Cancel** buttons) allowing the user to enter values for the new meeting’s name, status (using a combo box), capacity (using a number picker), meeting date (using a date picker), and race course id (using combo boxes).   + If the user enters valid data for all fields and clicks on the **Save Meeting** button, then a new meeting record is saved in the database and the message “Meeting added successfully” is displayed.   + If the user clicks on the **Cancel** button then panel should disappear, the **Previous**, **Next**, **Return**, **Update Meeting** and **Delete Meeting** buttons are enabled and the list should reappear. * If the user clicks on the **Update Meeting** button, then   + The **Previous**, **Next**, **Return**, **Add Meeting** and **Delete Meeting** buttons are disabled and the list should disappear.   + A panel should appear (showing **Save Changes** and **Cancel** buttons) allowing the user to change the values for the meeting’s name, status (using a combo box), capacity (using a number picker), and meeting date (using a date picker).   + If the user makes valid changes to any of the allowable fields (meeting name, capacity, meeting date, and status) and clicks on the **Save Changes** button, then the meeting record is updated in the database and the message “Meeting updated successfully” is displayed.   + If the user clicks on the **Cancel** button then the panel should disappear, the **Previous**, **Next**, **Return**, **Add Meeting** and **Delete Meeting** buttons should be enabled and the list should reappear. * If the user clicks on the **Delete Meeting** button and the selected meeting has no races, then the user is asked to confirm the deletion – if the user confirms the deletion then the meeting is deleted from the database and the message “Meeting deleted successfully” is displayed. * If the user clicks on the **Delete Meeting** button and the selected meeting has races, then the error message “You may only delete meetings that have no races” is displayed. * If the user clicks on the **Return** button, then focus is returned to the Main Menu. |
| Source(s) of solution(s): | Using the assignment preparation worksheets and following it step by step to achieve the final output of form. |
| Problems encountered: |  |
| Progress made: | Created the Horse form and Meeting and made sure that all the necessary requirements were completed.  All buttons panels were added. |
| Name of new version of project: | Assignment1\_on\_290320 |
| Time Taken: | Around 3 hours |

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| Date & Time: | 11:00am 31th March 2020 |
| Name of current version of project: | Assignment1\_on\_290320 |
| Task(s) undertaken: | Task 7: Enter Horses into Races   * Display the horses’ details (horse id, name, gender, date of birth, and owner id) in a data grid view. * If the user clicks on a row in the horse data grid view, then the owner’s last and first names should be shown in read-only text boxes. * Display the races’ details (race id, race name, time, status, capacity, and meeting id) in a data grid view. * If the user clicks on a row in the race data grid view, then the race’s meeting’s name should be shown in a read-only text box. * Display the entries’ details (race id, horse id, status) of all of those horses linked to the selected race in a data grid view. * If the user selects a horse and a status and clicks on the **Add Entry** button and the status of the race is scheduled, then the entry record saved in the database and the message “Entry added successfully” is displayed. * If the user selects a horse and a status and clicks on the **Add Entry** button and the status of the race is not scheduled, then the message “Horses can only be entered to scheduled races” is displayed. * If the user clicks on the **Remove Entry** button, then the user is asked to confirm the removal – if the user confirms the removal then the entry is deleted from the database and the message “Entry removed successfully” is displayed. * If the user clicks on the **Return** button, then focus is returned to the Main Menu. |
| Source(s) of solution(s): | Using the assignment preparation worksheets and following it step by step to achieve the final output of form. |
| Problems encountered: | Setting up datagridviews and connecting them to the database. Resolved the issue in 20 mins. |
| Progress made: | Created the Enter horses into races form and made sure that all the necessary requirements were completed. |
| Name of new version of project: | Assignment1\_on\_310320 |
| Time Taken: | 1.5 hours |

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| Date & Time: | 11:45 pm 1th April 2020 |
| Name of current version of project: | Assignment1\_on\_310320 |
| Task(s) undertaken: | Task 8: Owners Report and Task 9: Meetings Report |
| Source(s) of solution(s): | Using the assignment preparation worksheets and following it step by step to achieve the final output of form. Stack Overflow. |
| Problems encountered: | Printing button did not work properly. It was printing individual pages one by one. Issue took 3 hours to resolve. |
| Progress made: | Created the Enter horses into races form and made sure that all the necessary requirements were completed. |
| Name of new version of project: | Assignment1\_on\_010420 |
| Time Taken: | 4-5 hours |

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| Date & Time: | 7:00 pm 2th April 2020 |
| Name of current version of project: | Assignment1\_on\_010420 |
| Task(s) undertaken: | Code cleaning/ start producing test cases/ review the application and scrutinise it. |
| Source(s) of solution(s): | For test cases referring to the sample template. |
| Problems encountered: |  |
| Progress made: | Make the code more readable and remove any redundant code. |
| Name of new version of project: | Assignment1 |
| Time Taken: | 75min |