# Criteria B

### Record of Tasks

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| Task No. | Planned Action | Planned Outcome | Time Estimated | Target Completion Date | Criterion |
| 1 | Find IA outline and client | Approval of outline and client | 10 minutes | 15/Oct/20 | A |
| 2 | Interview with Client | Transcribe interview | 15 minutes | 20/Oct/20 | A |
| 3 | Written introduction of Clients problem | Identify needs of new system for the Client to aid in planning and design | 1 day | 23/Oct/20 | A |
| 4 | Contact client with brief overview of system | Refine client requirements based on feedback | 30 minutes | 24/Oct/20 | A |
| 5 | Written description of proposed solution with justification and features planned for product | Approval from client, adhering to requirements | 1 day | 25/Oct/20 | A |
| 6 | Create success criteria and discuss with client | To attain qualitative and quantitative indicators of achievement with respect to proposed solution as a means to understand functions of system | 1 day | 26/Oct/20 | A |
| 7 | Create Decomposition and Use Case diagrams | Provide a basic outline of program broken down into basic substituents as a framework for UML diagrams later | 1 hour | 30/Oct/20 | B |
| 8 | Create UML Diagrams | To aid in the development of the system, develops understanding of relationships between classes (aggregation, inheritance etc.) | 1 day | 1/Nov/20 | B |
| 9 | Write relevant algorithms in pseudocode and flowcharts for validation | Sorting/Searching algorithms specific to use case (using relevant variables) | 1 day | 4/Nov/20 | B |
| 10 | Data Dictionary/Test Plan | Test plan for validating variety of variables, once identified, create a data dictionary | 2 Days | 6/Nov/20 | B |
| 11 | Retrieve test data | Retrieve and modify test data provided by client and format as required | 1 hour | 7/Nov/20 | C |
| 11 | Create necessary classes | Create the Player, Coach, ranking, sorting classes  Encapsulate variables | 15 minutes | 8/Nov/20 | C |
| 12 | Implement relationships between classes | Introduce any necessary relationships such as dependencies, aggregation, composition etc. | 1 hour | 10/Nov/20 | C |
| 13 | Code ranking algorithm | Code the algorithm including the binomial distribution based on the statistics deemed necessary by the client | 3 days | 15/Nov/20 | C |
| 14 | Research and find any relevant java plugins/libraries needed for inputs | External libraries needed to read and write test data file along with any libraries to aid in the sorting of data (e.g Collections) | 2 hours | 17/Nov/20 | C |
| 15 | Code coach input | Code the implementation of the coach significance input into a specific CSV column | 1 day | 20/Nov/20 | C |
| 16 | Code extraction method | Retrieve the csv data and store the data into an ArrayList as player object which can be accessed through the index of the ArrayList | 3 hours | 29/Nov/20 | C |
| 17 | Code any relevant toString methods | At clients request for readability, create toString methods for different use cases for improved readability and accessibility purposes | 1 hour | 5/Dec/20 | C |
| 18 | Implement a save method | To ensure that all edited data is saved upon restarting the application, a save method needs to be implemented so the coach significance does have to be entered every time the program starts | 3 hours | 6/Dec/20 | C |
| 19 | Implement validation methods | Any inputs and processes within the code must be validated to prevent any issues later on during the ranking of players. Mainly will include integer validation as well as string validation for names and position | 1 day | 7/Dec/20 | C |
| 20 | Implement sorting/searching methods to sort using ArrayList of players | The client should be able to sort by ranking of players, positions and search by name to increase efficiency and improve usability of the product. | 1 day | 10/Dec/20 | C |
| 21 | Create command line interface | Make a simple CLI using switch case statements for client to use the product. Choices must also be validated | 1 hour | 11/Dec/20 | C |
| 22 | Call/implement relevant code to the CLI | Call specific methods/classes into the switch case to access the functions. | 2 hours | 15/Dec/20 | C |
| 23 | Test product | Check validation during data input, formatting, output and save functionality in the test data csv | 30 mins | 18/Dec/20 | C |
| 24 | Record functionality of product | Showcase product for functionality, error management, validation etc. | 1 day | 21/Dec/20 | D |
| 25 | Interview client for additional feedback | Gain insight into client opinion on product and make any relevant changes to system as required within reason | 1 day | 29/Dec/20 | E |
| 26 | Implement toString changes | Client requested different outputs of certain use case, change to appropriate format as requested. | 1 hour | 30/Dec/20 | C |
| 27 | Client feedback based on success criteria | Insight into the perspective of client based on its effectiveness, usability, functionality as intended and how well the system addressed the success criteria. | 2 days | 15/Jan/21 | E |
| 28 | Write modifications and improvements based on client feedback | Analyse client feedback, identify modifications or improvements/new features potentially added to extend the product functionality | 1 day | 17/Jan/21 | E |
| 29 | Write evaluation (including personal improvements possible) | Formulate and write ideas of new features which would benefit the client as well as general improvements to usability and functionality | 1 day | 19/Jan/21 | E |
| 30 | General recommendations from client | Evaluate effectiveness and suggest any new ideas to expand code functionality | 1 day | 21/Jan/21 | E |
| 31 | Submit | | | 4/Feb/21 |  |