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| **Qualification details** |  | | |
| **Training Package code and title:** | ICT Information and Communications Technology Training Package | | |
| **National Qualification Code & Title:** | ICT50718 Diploma of Software Development | **State code:** | BEG8 |

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| **Student Name** | Poorav Sharma | | |
| **Student Declaration** | I declare that the evidence submitted is my own work:  ………………………………………….. | | |
| **Assessor Name** | Andrew Samway | | |
| **Date Due** | Session 19 | **Date Received** | Session 8 |
| **Unit of Competency** | | | |
| **National Code & Title** | ICTSAD502 Model data processes | **State code:** | AUU64 |
| **National Code & Title** | ICTSAD501 Model data objects | **State code:** | AUW10 |
| **Assessment Tool** | **Assessment 3**- Project |  | |
| **Demonstration Tasks** | **Objective:** To demonstrate your ability to gather requirements and show advanced skills in databases you will document and deliver a project using some of the techniques you have used during this Semester. You may have been tasked by CITEMS to develop an NRL ladder site. |
| **Reasonable adjustment in the assessment process:** | In some circumstances, adjustments to assessments may be made for you. If you require support for literacy and numeracy issues; support for hearing, sight or mobility issues; change to assessment times/venues; use of special or adaptive technology; considerations relating to age, gender and cultural beliefs; format of assessment materials; or presence of a scribe you need to inform your lecturer. | | |
| **Criteria Assessed** | ICTSAD502 and ICTSAD501 | | |
| **Instructions to Student** | 1. In order to meet the criteria, you will need to complete all parts of this project. 2. This assessment must be done during class or at home. 3. You may be required to explain or demonstrate your understanding of any component of this assessment. 4. All work must be submitted by the end of session 19 unless previously negotiated 5. If you have any questions, please see your assessor. 6. The assessment is OPEN BOOK. You may use the Internet and weekly labs as a reference | | |
| **INFORMATION FOR ASSESSORS** | **Lecturer instructions**  This assessment involves various programming tasks, ensure that all aspects of the task are completed.   * All tasks are individual * The assessment is open book * Students may use the Internet as a reference   Use the marking checklist in conjunction with the marking guide and answer guide when assessing the students.  **Resource Requirements**  CITE classroom, as per the “Assessment Conditions” in the mapping  Access to the Internet for research  Access to the Intranet for Blackboard | | |

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| **Duration of Training/location and group details** | | | |
| **Date** | **2022 Semester 1** | **Session Times:** | **Thornlie** |
| **Thornlie** |
| **Murdoch**  Start date: 1/02/2021  End date: 24/06/2021 | **Murdoch**  Thursday 8:30 ~ 11:30 |
| **Rockingham**  Start date: 1/02/2021  End date: 24/06/2021 | **Rockingham**  Friday 9:00 ~ 12:00 |
| **Location** | **Thornlie**: 10F82  **Murdoch**: T108  **Rockingham**: RHF36 | | |
| **Group Details** | Diploma | | |
| **Mode of delivery** | Face to face | | |
| **Individual study requirements** | Students are required to do self-study (total 60 hours) for this cluster in their own extra time outside of class time. This is a recommendation and could vary per campus. | | |
| **Course Custodian contact information** | Andrew.Samway@smtafe.wa.edu.au | | |
| **Demonstration Tasks** | **Background:**  You have been hired as the new programmer by CITEMS to produce a website and database for the company, this program will be fully documented and tested.  With this project you are coming up with a database to show your range of skills and abilities to your new boss.  You have been provided with a mixture of csv’s and websites that showcase what the client has asked for.  **Software Specifications/Requirements**  With this project you should gather requirements from the client (your lecturer), you will then analyse and review these specifications. You will adhere to coding standards (for this the **organisational documentation** is found <https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/inside-a-program/coding-conventions>), ensure proper commenting , include screenshots of debugging in a document, and have a test table with screenshots .You will need to identify which information repositories and organizational documents you have used (e.g. Blackboard) as part of your specification  **Implementation**  **Question 1** – You need to create a document that outlines what you are planning to make that comprises the following: -   1. What entities are you using?   The entities I am using are Players, Teams ladder entity.   1. What are you basing/sourcing your information on/from?   I am basing my information from the information from the following NRL website  <https://www.nrl.com/ladder/?competition=111&round=15&season=2022>  <https://www.nrl.com/clubs/brisbane-broncos/>  <https://www.nrl.com/players/nrl-premiership/broncos/corey-oates/>   1. What are the relationships between the entities?   The ladder contains teams. The teams are ranked based on their score and performance. Each teams contains many players. The players’ performance determines how much score the teams get. This score determines the position of the team in the ladder ranking.   1. What attributes are you using? 2. What data types are those attributes?   Ladder:  Position- INT  TeamName- VARCHAR  Played- INT  Wins- INT  Lost- INT  Points- INT  Teams:  TeamName - VARCHAR  Founded- INT  Members- INT  Points Scored- INT  Points Conceded- INT  Players:  PlayerID - INT  Name- VARCHAR  PlayerNumber- INT  Attack – INT  Scoring – INT  Defending - INT  Passing – INT  TeamName- VARCHAR  **Question 2** –   * Create an ERD * Create data model      * Create a fully normalised database * Must have at least three tables * Validate with client (your lecturer) * Must have client (your lecturer) sign off   **Question 3** – Implement your solution   * Must have tables * Must match ERD * Must have ladder * Must have at least one team page * Must have at least one player page * Must have a GUI * Must adhere to coding standards | | |

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| **Materials and Equipment** | Students will need a USB drive to save their work on. |
| **Skills being assessed** | ICTSAD502 and ICTSAD501 |

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| **Assessment Decision** | ☐ Satisfactory | ☐ Not Yet Satisfactory | |
| **Assessor Signature** |  | **Date** | Click here to enter a date. |
| **Feedback to student** | | | |
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| **Feedback from student** | | | |
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| **Student signature** |  | **Date** |  |