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| **Section 1 – General Assessment Information** | |
| **Decision Making Rules** | Every task must be completed satisfactorily to be assessed as competent in the unit.  *\* For graded units, competence must be demonstrated before a mark can be given.* |
| **Reasonable Adjustment** | Students may request reasonable adjustment for assessment tasks.  Reasonable adjustment usually involves varying:   * the processes for conducting the assessment (eg: allowing additional time, varying the venue) * the evidence gathering techniques (eg: oral rather than written questioning, use of a scribe, modifications to equipment)   However, the evidence collected must allow the student to demonstrate all requirements of the unit. |
| **Special Consideration** | Students can apply for Special Consideration where personal circumstances have adversely affected their task result or ability to undertake an assessment. A Special Consideration form can be completed prior to, but no later than 3 days after, the date of the assessment and submitted to the relevant Manager. |
| **Re-submission** *(where tasks are not satisfactorily completed)* | Assessment tasks that are not satisfactory can be resubmitted up until the end of the unit as scheduled on the Unit Outline. The timing on this may depend on the equipment required for this assessment task.  **NOTE**: Assessment tasks submitted for the first time after the end of the unit as scheduled on the Unit Outline will not be assessed and student should be told to re-enrol in the unit. |
| **Plagiarism** | There are serious penalties for plagiarism. Students must ensure that all assessments are their own work (or group work).  Please refer to <https://www.swinburne.edu.au/current-students/manage-course/exams-results-assessment/plagiarism-academic-integrity/> |

| **Section 2 – Student and Assessor Instructions** | |
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| **Conditions** | *Must be completed in class within a given three hour time limit*  *Enterprise Architect must be used to create diagrams*  *Keep this document open as the assessor will provide feedback on the open document. Changes may be made to the submission based on feedback.*  *When the assessor has completed this assessment they will sign off with a code unique to you, do not leave until this code is entered in the assessor signature section.* |
| **Task Overview and/or Description** | **Dod&Gy Movie Distribution**  Dod&Gy have started a movie selling business. They need a proof of concept to perform some CRUD on their existing database. Unit Testing will also be required  The structure of the database and current movies catalogue is included in the accompanying .sql file.  *User input:* could be from console input or sent via http/s to a RestApi  **Pre-Task:**   1. Deploy movies.sql to a DBMS 2. Create a GitHub repository for the project 3. Create C# classes to represent Movies and Actors    1. Movie class has methods       1. NumActors – returns the number of actors cast in the movie as an int       2. GetAge – returns how old the movie is from the current year as an int    2. Actor class has method       1. setFullName – sets the fullname of the actor which is the givenname and surname with a space in between 4. (optional) deploy the program to a cloud service   **Test Task:**   1. Create a test plan in Excel for the Movie class, each unit test should have at least five cases. Implement the unit tests.    1. Check that the num actors method provides the correct output.    2. Check that the GetAge method returns the correct output   **Exceptions Task**   1. Connect the database to the one found at:    * url: no.database.here.com    * username: Wally    * password: Where    * dbname: Is   Catch the resulting exception and redirect the connection to your database.  **Read Task:**   1. Read all movies from the database into a list named Movies. 2. In your program access the database and display the titles for all the movies with title that begin with the word “The” (case insensitive) 3. Access the database and display all the titles for all movies that *Luke Wilson* has been cast in 4. Using the list Movies created in step one, display the total running time of all movies   **Update Task**   1. In your program, provide a way to change a movie’s runtime found by title. New title to be obtained via user input. Change must be reflected in the DB. 2. Provide a way to change an actor’s surname and fullname, found by givenname and surname. New surname to obtained via user input. Change must be reflected in the DB.   **Create Task**   1. From user input, create a movie object. Use this object to create a new entry in the Movie table of the database 2. From user input, create an actor object. Use this object to create a new entry in the Actor table of the database 3. Provide a way to cast an actor to a movie. |
| **How the Assessment will be Conducted** | *Assessement to be completed and demoed to teacher* |
| **Submission Details** | 1. Link to GitHub repo 2. Arrange a time to demo to your teacher 3. Marking Guide - below |

| **Section 3 – Assessment Criteria (Evidence to be Provided by the Student)** |
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| All of the required evidence within the task listed below must be satisfactorily demonstrated for the task to be assessed as satisfactory.  \* For graded units, the task must be satisfactorily completed before marks will be allocated. |

***Notes for the teacher***

*List in the Required Evidence column below all aspects of the task that are required to be demonstrated by the student for satisfactory completion of the task.*

*Name: Dominic Hudson*

*Student ID: 102983679*

*Date: 3 December 2020*

*Time: 10:00am*

| **Marking Guide** | | | | |
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| **Required Evidence** | | **Satisfactory** | **Not Submitted** | **Unsatisfactory** |
| **1** | Test Task |  |  |  |
| **2** | Exceptions Task |  |  |  |
| **3** | Read Task |  |  |  |
| **4** | Update Task |  |  |  |
| **5** | Create Task |  |  |  |
| **6** | Q&A |  |  |  |

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| **4. Q&A** | | | | |
| **Required Evidence** | | | **Satisfactory** | **Not Submitted** | **Unsatisfactory** | |
| **1** | | What security issues might need to be addressed in accessing a database from an API? |  |  |  | |
|  | | SQL injection attacks, Denial of Service (DoS) attacks, Broken authentication, Sensitive data exposure by lack of encryption, Parameter tampering, Man-In-The-Middle-Attacks (MITM) |  |  |  | |
| **2** | | What sort of testing can be done to ensure that systems hosted on the internet are secure? |  |  |  | |
|  | | Monitor access control management, Check server access controls, require increased password complexity, |  |  |  | |
| **3** | | Aside from unit testing, what other forms of software testing are there? |  |  |  | |
|  | | Alpha testing, beta testing, Integration testing, system testing, sanity testing, smoke testing, interface testing, regression testing, beta/acceptance testing |  |  |  | |
| **4** | | List some concerns around data security that any organisation holding data needs to be aware of |  |  |  | |
|  | | SQL injection attacks, Denial of Service (DoS) attacks, Sensitive data exposure by lack of encryption |  |  |  | |

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| **Feedback to Student** | | | | |
| Click or tap here to enter text. | | | | |
| **Task Result** |  | **Satisfactory** |  | **Unsatisfactory** |

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|  | **Name** | **Signature** | **Date** |
| **Assessor** |  |  |  |