# Student Version

| Section A – Course details | | | |
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| **Qualification code:** | ICT40120 | **Qualification title:** | ICT40120 Certificate IV in Information Technology (Web Development) |
| **Subject Code:**  **Unit code:** | ICTWEB527   ICTWEB441  ICTPRG437  ICTPRG302 | **Subject Title:**  **Unit title:** | (JavaScript)  Research and apply emerging web technology trends  Produce basic client-side script  Build a user interface  Apply introductory programming techniques |
| **Department name:** | BDIT, Computing & Information Technology | **CRN number:** | Enter CRN number |

| Section B – Assessment task details | | | |
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| **Assessment number:** | 2 of 2 | **Semester/Year:** | 1&2/2022 |
| **Due date:** | Ongoing | **Duration of assessment:** | Ongoing |
| **Assessment method** | Project/Report/Portfolio | **Assessment task results** | Ungraded result   (Satisfactory or Unsatisfactory) |
| Other: Click here to enter text. |

| Section C – Instructions to students |
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| **Task instructions:** |
| This assessment task requires learners to build a front-end JavaScript Application, using JavaScript and JavaScript libraries. The purpose and the features of the application are completely up to the learner. The scripts used to develop the Application will need to demonstrate object orientated programming techniques. The teacher will be playing the role of the client for this assessment task. The website the learner developers may be about or for any topic, company or community of the learner’s choice, as long as the website meets the requirements outlined in this project.  This assessment has been divided into 5 key parts:  Part 1 - Research and Planning  Part 2 - Develop Part 3 - Testing Part 4 - Documentation  Part 5 – Hand Over and Sign Off  You are required to correctly provide/answer all questions/tasks as per instructions and assessment criteria to a satisfactory level for each question/task of this assessment to be given a satisfactory result by the assessor. If this is not achieved on the first attempt, then an opportunity to resubmit is allowed.  REFER TO SUPPORTING DOCUMENTS FOR DETAILED INSTRUCTIONS |

| Section D – Conditions for assessment | |
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| **Conditions:**  Student to complete and attach Assessment Submission Cover Sheet to the completed Assessment Task.  - This assessment is to be completed individually.  - You must meet all criteria listed in the marking guide to be marked satisfactory in this task.  - You may resubmit this task if not successful within the enrolment period as per Holmesglen conducting  assessment procedure.  - You will have the opportunity to resubmit if any part of the assessment is deemed unsatisfactory (one resubmit allowed per task).  - The learner may use the internet for research.  - You are expected to dedicate time to developing this assessment task both in and out of the classroom.  - Development tools should include but are not limited to: Visual Studio Code, Chrome or Fire Fox  (You have access to these tools in labs or they can be downloaded).  - You must submit; All required working files, documentation and any other assets that you feel may be required in a zipped file.  - This Assessment task must be uploaded to Brightspace along with a complete and signed coversheet.  - This is an individual task. However, you are required to get information, feedback and ideas from your assessor, peers and industry to help complete the assessment planning guide.  - It is expected all documents will be completed and submitted electronically but if this is not possible, make alternative arrangements for submitting the documents with your assessor.  - You can appeal an assessment decision according to the Holmesglen Assessment Complaints and Appeals Procedure.  - If you feel you require special allowance or adjustment to this task, please discuss with your assessor within one week of commencing this assessment. | |
| **Equipment/resources students must supply:** | **Equipment/resources to be provided by the RTO:** |
| For a learner prefers to study remotely, the following must be available:  Computer - Macs/ PCs (with a minimum specification of at least 8GB of Ram and CPU i5 or i7 chip), 2Ghz or faster  Access to internet connection (ADSL or cable connection desirable)  Headphone  Camera  Microsoft Word  GitHub  IDE (vsCode)  Figma  Visual Studio Code: https://code.visualstudio.com/  Bootstrap: http://getbootstrap.com/  WinZip or an equivalent compression utility  Recommended Web Browser: Google Chrome | Computer - Macs/ PCs (with a minimum specification of at least 8GB of Ram and CPU i5 or i7 chip), 2Ghz or faster  Access to internet connection (ADSL or cable connection desirable)  Headphone  Camera  Microsoft Word  GitHub  IDE (vsCode)  Figma  Visual Studio Code: https://code.visualstudio.com/  Bootstrap: http://getbootstrap.com/  WinZip or an equivalent compression utility  Recommended Web Browser: Google Chrome |

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| Section E – Marking Sheet - Student Answer Sheet | | | |
| **Subject Code:**  **Unit code**: | (W3)  ICTWEB527   ICTWEB441  ICTPRG437  ICTPRG302 | **Subject Title:**  **Unit title:** | (JavaScript)  Research and apply emerging web technology trends  Produce basic client-side script  Build a user interface  Apply introductory programming techniques |

| **Criteria for assessment** | | **Satisfactory** | | **Comment** |
| --- | --- | --- | --- | --- |
| **Yes** | **No** |
| **Marking criteria:** Part 1 - Research and Planning Assessment Documentation/Working files | | | | |
| 1. | The learners has met with the client and discussed and clarified the project requirements outlined in the brief. | ☐ | ☐ |  |
| 2. | All the design specifications, programming languages, programming standards, development tools and guidelines have been identified according to task requirements. | ☐ | ☐ |  |
| 3. | All dynamic features that will need to be developed and incorporated in the final project have been documented. | ☐ | ☐ |  |
| 4. | The programming documentation requirements have been identified. | ☐ | ☐ |  |
| 5. | The learner has built a prototype UI using the tools and technologies identified in Part 1. |  |  |  |
| 6. | The learner has identified all organisation guidelines outlined in the brief. | ☐ | ☐ |  |
| 7. | The learner has researched and reviewed the benefits and risks of at least 2 new developments in web technologies and presented their findings. | ☐ | ☐ |  |
| 8. | The learners has identified a new web technology that meets the needs of the web application. | ☐ | ☐ |  |
| 9. | Legislative and organisational requirements and standards applicable to implementation of the new technology has been identified. | ☐ | ☐ |  |
| 10. | The learner has discussed and confirmed selection of the new web technology with their client. | ☐ | ☐ |  |
| 11. | The learner has reviewed the prototype with the client and edited as required. | ☐ | ☐ |  |
| **Marking criteria:**  Part 2 - Develop Assessment Documentation/Working files | | | | |
| 1. | A wireframe that defines the UI actions and events that the user can perform has been created. | ☐ | ☐ |  |
| 2. | The UI and flow of the content has been developed. | ☐ | ☐ |  |
| 3. | UI components have been developed and they align with the task requirements. | ☐ | ☐ |  |
| 4. | A UI that meets all of the required functionality and organisational requirements has been developed. | ☐ | ☐ |  |
| 5. | HTML documents utilise standard accessibility features. | ☐ | ☐ |  |
| 6. | Scripts have been developed and meet the document requirements outlined in the brief. | ☐ | ☐ |  |
| 7. | Basic language syntax rules have been followed. | ☐ | ☐ |  |
| 8. | Code that uses language data types, operators and expressions has been developed. | ☐ | ☐ |  |
| 9. | Variables and variable scope has been utilised to develop scripts. | ☐ | ☐ |  |
| 10 | Library functions have been used to build dynamic features. | ☐ | ☐ |  |
| 11. | Code has been commented using short and clear statements the clarify the code. | ☐ | ☐ |  |
| 12. | Language syntax in sequence, selection and iteration constructs has been utilised. | ☐ | ☐ |  |
| 13. | Expressions in selection and iteration constructs using logical operators have been utilised. | ☐ | ☐ |  |
| 14. | Algorithms that use sequence, selection and iteration constructs have been developed. | ☐ | ☐ |  |
| 15. | The learner has created and used data structures to organise and structure data. | ☐ | ☐ |  |
| 16. | The application can read and write data to a text file. | ☐ | ☐ |  |
| 17. | String manipulation is being utilised. | ☐ | ☐ |  |
| 18. | Code has been developed that utilises a new emerging web technology. | ☐ | ☐ |  |
| 19. | The code that has been implemented, aligns with the organisational procedures outlined in the brief. | ☐ | ☐ |  |
| **Marking criteria:**  Part 3 - Testing  Assessment Documentation/Working files | | | | |
| 1. | The web documents have been tested in the required target browsers and render as expected. | ☐ | ☐ |  |
| 2. | Scripts have been tested against the cyber security procedures and protocols and scripts are secure and bug free. | ☐ | ☐ |  |
| 3. | The overall functionality of the UI has been tested and results align with the requirements. | ☐ | ☐ |  |
| 4. | Complete documentation has been submitted to required personnel for approval. | ☐ | ☐ |  |
| 5. | The leaner has examined variable contents and use debugging techniques to detect and correct errors. | ☐ | ☐ |  |
| 6. | The learner has reviewed test results and discussed findings with client. | ☐ | ☐ |  |
| 7. | The learner has sought feedback from client and amended code as required. | ☐ | ☐ |  |
| **Marking criteria:**  Part 4 - Documentation  Assessment Documentation/Working files | | | | |
| 1. | Git has been used to document work performed. | ☐ | ☐ |  |
| 2. | The learner has documented their findings on a new emerging web technology. | ☐ | ☐ |  |
| 3. | All code has been documented according to the requirements outlined in the brief. | ☐ | ☐ |  |
| **Marking criteria:**  Part 5 – Hand Over and Sign Off Assessment Documentation/Working files | | | | |
| 1. | The leaner has designed an algorithm which aligns with the standards and expectations outlined in the brief. | ☐ | ☐ |  |
| 2. | The application meets the program and initial specification outlined in the brief. | ☐ | ☐ |  |
| 3. | The learner has presented the application to the client for approval. | ☐ | ☐ |  |
| 4. | The learner has obtained feedback and sign off from the client. | ☐ | ☐ |  |
| 5. | The learner has taken responsibility for planning, sequencing and prioritising tasks and own workload. | ☐ | ☐ |  |
| 6. | During this project the learner optimised their IDE and dev tools to improve personal productivity. | ☐ | ☐ |  |

**Assessment Submission Cover Sheet (VET)**

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| **Student declaration** | |
| By submitting this assessment task and signing the below, I acknowledge and agree that:   1. This completed assessment task is my own work. 2. I understand the serious nature of plagiarism and I am aware of the penalties that exist for breaching this. 3. I have kept a copy of this assessment task. 4. The assessor may provide a copy of this assessment task to another member of the Institute for validation and/or benchmarking purposes. | |
| **Student ID:** |  |
| **Student name:** |  |
| **Submission or observation date:** |  |
| **Student signature**  For electronic submissions: By typing your name in the student signature field, you are accepting the above declaration. |  |

| Assessment Results and Feedback to Student | | | | | | |
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| **Assessment Task Result:** | | | | **Satisfactory** | | **Not Satisfactory** |
| **☐** | | **☐** |
| **Assessor’s Feedback:** | | | | | | |
|  | | | | | | |
| **Resubmission allowed:** | **Yes ☐** | **No ☐** | **Resubmission due date:** | |  | |
| **Assessor name:** | Sruthy Korembith | | | | | |
| **Assessor signature:** |  | | | | | |
| **Date assessed:** |  | | | | | |

**Supporting document**

# Portfolio Instructions

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| **Subject Code:**  **Unit code**: | ICTWEB527   ICTWEB441  ICTPRG437  ICTPRG302 | **Subject Title:**  **Unit title:** | (JavaScript)  Research and apply emerging web technology trends  Produce basic client-side script  Build a user interface  Apply introductory programming techniques |

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| **Project Brief** Read through the brief below take note of the needs and requirements outlined in the brief. |
| This assessment task requires learners to build a front end JavaScript Application, using JavaScript and JavaScript libraries. The purpose and the features of the application are completely up to the learner. The scripts used to develop the Application will need to demonstrate object orientated programming techniques. The teacher will be playing the role of the client for this assessment task. The website the learner developers may be about or for any topic, company or community of the learner’s choice, as long as the website meets the requirements outlined in this project.  This assessment has been divided into 5 key parts:  Part 1 - Research and Planning  Part 2 - Develop Part 3 - Testing Part 4 - Documentation  Part 5 – Hand Over and Sign Off  **Design Specification & Guidelines**   * The application must contain at least 2 pages. * A contact/information page must be included. * The application must contain dynamic features that the user can interact with. * Two new emerging web technology such as JavaScript Libraries must be researched and considered for integration into the application. * One of the two new emerging web technologies must be integrated into the application. * The design must be on trend and intuitive. * Appropriate error messages should be displayed to the user. * The application must collect and use user input, such as form elements. * This data must be validated. * The application should connect to, and pull data from, at least one API. * The API data must be displayed to the user. * The application must comply with essential W3C accessibility requirements. * You will need to consider how the new web technology is impacted by legislation requirements.  E.g. Does the manner in which personal details are handled comply with privacy legislation? E.g. Does the website comply with accessibility requirements? * It may be worth considering how animation could be used to bring the UI to life and improve the UX.   **Programming standards and maintainability**   * A config file must be used to store common data that is used across the site which is subject to change. E.g. The URL of a database or data file. * A GIT repository should be used. Any major changes should be commented and committed to the GIT. * OOP programming principles must be utilised. * All code should be commented clearly. **Classes and Scripts** A descriptive overview should be provided for each class and script as a comment at the top of the file. Details about any parent classes should be documented at the top of the file. **Members** The purpose of each member should be documented as a comment. **Methods** The purpose of each method should be documented as a comment. **Parameters** The purpose of each parameter should be documented as a comment.   **Technical requirements**   * Mark-up Language - HTML5 * Styling Language - CSS * Programming language - JavaScript * IDE such as Visual Studio Code * A responsive framework such as Bootstrap * One new emerging web technology such as a new JavaScript Library   **Organisational cyber security procedures and protocols**   * Sensitive or personal user data must not be sent via GET. * API keys must not be stored in the client side app. * Secure Transfer protocols must be used. E.g. FTPs * Any Libraries or Frameworks used must have solid community support and regularly updated. * Implement Content Security Policy for scripts. https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy https://code.tutsplus.com/articles/client-side-security-best-practices--net-35677 |

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| **Part 1 - Research and Planning** Based on the information you have gathered from the brief complete the following:Assessment Documentation | | | | | | | | | |
| Before you commence the assessment organise a time to meet with the client to discuss and review the user requirements outlined in the brief. | | | | | | | | | |
| **Checklist (To be completed by the learner’s facilitator)** | | | | | | | **Yes** | | **No** |
| 1. The learner has met with the client and discussed and clarified the user requirements outlined in the brief. | | | | | | |  | |  |
| **Assessor Name** | *Sruthy Korembith* | **Assessor Signature** | *Signature* | | **Date** | | |  | |
| 1. List the following design specifications, programming languages, programming standards, development tools and guidelines that you have identified from the project brief | | | **Design:**   * Must contain at least 2 pages * Must have dynamic features * Dynamic features must be able to be interacted with * Contact/Information page to be included * Error messages should be displayed to the user * Design must be on trend and intuitive * Data pulled from an API must be displayed to the user * The design must adhere to W3C accessibility standards   **Programming:**   * HTML, CSS, and JavaScript languages are required * Two emerging JavaScript libraries should be researched * One of the JS Libraries should be used * Your code should be well commented and documented * OOP principles should be followed   **Tools:**   * Visual Studio Code to be used as the IDE * Browser Dev tools to be used for debugging | | | | | | |
| 1. List and explain all the dynamic features that will need to be incorporated into the project. | | | * API data will be pulled for BoredAPI and displayed to the user * This will suggest activities to do laid out in a card format * Users can control the specific categories of the suggestions and how many cards are generated. Errors will be displayed to the user if not selected * Users can hover over cards for an animation to expand the card, making it larger | | | | | | |
| 1. List the programming documentation requirements. | | | * All code should be commented clearly. **Classes and Scripts** A descriptive overview should be provided for each class and script as a comment at the top of the file. Details about any parent classes should be documented at the top of the file. **Members** The purpose of each member should be documented as a comment. **Methods** The purpose of each method should be documented as a comment. **Parameters** The purpose of each parameter should be documented as a comment. | | | | | | |
| **Build a Prototype and Review the design with client**  It is now time to begin the construction of your prototype. Ensure that the prototype meets the requirements outlines in the brief. Remember that you will need to incorporate a new web technology into your prototype.  **Preparing for Prototype Review**  You will need to organise a time with your facilitator/client to observe review your wireframe concept design. You will need to review your conceptual design with the client. Seek feedback from the client and responded to the feedback. Make sure you are prepared with the following information.   * Aware of all the organizational guidelines outlined in the brief * Research and reviewed 2 new web technologies and are ready to present your findings. These new technologies must align with the requirements for the project. * Ensure you have settled on one of the new technologies and incorporated it into the prototype * You will need to identify any organisational requirements(See project brief) and legislation requirements that are applicable to implementing this new technology | | | | | | | | | |
| **Checklist (To be completed by the learner’s facilitator)** | | | **Yes** | | | **No** | | | |
| 1. The learner has built a prototype UI using the tools and technologies identified in Part 1. | | |  | | |  | | | |
| 1. The learner has identified all organisation guidelines outlines in the brief. | | |  | | |  | | | |
| 1. The learner has researched and reviewed the benefits and risks of at least 2 new developments in web technologies and presented their findings. | | |  | | |  | | | |
| 1. The learners has identified a new web technology that meets the needs of the web application. | | |  | | |  | | | |
| 1. Legislative and organisational requirements and standards applicable to implementation of the new technology has been identified. | | |  | | |  | | | |
| 1. The learner has discussed and confirmed selection of the new web technology with their client. | | |  | | |  | | | |
| 1. The learner has reviewed the prototype with the client and edited as required. | | |  | | |  | | | |
| **Assessor Name** | *Sruthy Korembith* | **Assessor Signature** | *Signature* | **Date** | | |  | | |

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| **Part 2 - Develop**Working Files/Written Documentation | | |
| It is now time to build the frontend of your web application using front-end framework  **Ensure that you develop all of the features outlined in the brief.**  ***Below is a list of specific criteria you will need to ensure your application includes.*** *Mark each as yes once you have ensured you have included these features.* | | |
| 1. Develop at least one wireframe layout design for the website UI that meets the client’s requirements outlined in the brief. Ensure that the wireframe is annotated. **Your wireframe will need to include your interactive feature:** - *E.g. Form Validation  - E.g. Inputs the user can interact with and a description of what they do* Make sure you document and annotate these features on the wireframe. (Explain how they work. You may need to develop more than one wireframe to cover these requirements) | | |
|  | | |
| **Develop the application**  Now that you have developed a prototype and designed a wireframe for the layout, you will need to build the final application. Ensure you complete each of the following. ***Insert Yes once a criteria has been completed*** | | |
|  | **Yes** | **No** |
| 1. The UI and flow of the content has been developed. | Yes |  |
| 1. UI components have been developed and they align with the task requirements. | Yes |  |
| 1. A UI that meets all of the required functionality and organisational requirements has been developed. | Yes |  |
| 1. HTML documents utilise standard accessibility features. | Yes |  |
| 1. Scripts have been developed and meet the document requirements outlined in the brief. | Yes |  |
| 1. Basic language syntax rules have been followed. | Yes |  |
| 1. Code that uses language data types, operators and expressions has been developed. | Yes |  |
| 1. Variables and variable scope has been utilised to develop scripts. | Yes |  |
| 1. Library functions have been used to build dynamic features. | Yes |  |
| 1. Code has been commented using short and clear statements the clarify the code. | Yes |  |
| 1. Language syntax in sequence, selection and iteration constructs has been utilised. | Yes |  |
| 1. Expressions in selection and iteration constructs using logical operators have been utilised. | Yes |  |
| 1. Algorithms that use sequence, selection and iteration constructs have been developed. | Yes |  |
| 1. The learner has created and used data structures to organise and structure data. | Yes |  |
| 1. The application can read and write data to a text file. | Yes (write only) |  |
| 1. String manipulation is being utilised. | Yes |  |
| 1. Code has been developed that utilises a new emerging web technology. | Yes |  |
| 1. The code that has been implemented aligns with the organisational procedures outlined in the brief. | Yes |  |

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| **Part 3 - Testing**Assessment Documentation/Working files | | |
| 1. Test your web application in two popular browsers and ensure they render as expected. Record screenshots of the results below. | | |
| ***Browser 1 Screenshot*** *insert screenshot here* | ***Browser 2 Screenshot*** *insert screenshot here* | |
| Mark the following as complete once they have been completed. | **Complete** | **Not Complete** |
| 1. Test your scripts against the **cyber security procedures and protocols** and ensure they are secure and bug free. | *Complete* |  |
| 1. Test the functionality of the UI and ensure that it aligns with the requirements. | *Complete* |  |

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| **Debug the code** You will need to organise with your facilitator to observe you debug your code and demonstrate the following skills on two separate occasions.  Assessment Documentation | | | | | | | | | |
| **Skills to be observed during this task to the required standard.** Checklist (To be completed by the learner’s facilitator)The following tasks are to be completed in relation to the brief for this project. Each of the skills must be observed on two separate occasions. These may occur on the same day. | | | | | **Date 1** | | | **Date 2** | |
|  | | |  | |
| **Satisfactory** | | | **Satisfactory** | |
| **Yes** | **No** | | **Yes** | **No** |
| 1. The learner has used debugging tools to identify errors. | | | | |  |  | |  |  |
| 1. The leaner has examined variable contents and use debugging techniques to detect and correct errors. | | | | |  |  | |  |  |
| **Assessor Name** | *Sruthy Korembith* | **Assessor Signature** | *Signature* | **Date** | | |  | | |

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| **Testing**Assessment Documentation/Working files | | | |
| With your application now built its time to test your code. Develop two tests for your application. Once you have designed your tests run the test and record the results. | | | |
| **Brief description of test performed** | **Result Description** | **Result** | |
| **Pass** | **Fail** |
| *Test the feedback submit function and ensure it submits the correct data to the data file as expected.* | *Data is submitted as expected to the data file* |  |  |
| *Test that the data loads for each speaker by crosschecking it with the data in the data file.* | *Data loads correctly and as expected* |  |  |

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| **Discuss Test Finding** You will need to organise with your facilitator to discuss your tests and test findings  Assessment Documentation | | | | | | | | | |
| **Skills to be observed during this task to the required standard.** Checklist (To be completed by the learner’s facilitator) | | | | | **Date 1** | | | **Date 2** | |
|  | | |  | |
| **Satisfactory** | | | **Satisfactory** | |
| **Yes** | **No** | | **Yes** | **No** |
| 6.The learner has reviewed test results and discussed findings with client. | | | | |  |  | |  |  |
| 7.The learner has sought feedback from client and amended code as required. | | | | |  |  | |  |  |
| **Assessor Name** | *Sruthy Korembith* | **Assessor Signature** | *Signature* | **Date** | | |  | | |

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| **Part 4 - Documentation**Assessment Documentation/Working Files | |
| It is now time document your project.  **Ensure that you develop all of the features outlined in the brief.** | |
| 1. Ensure GIT has been used to backup and document revisions and changes. | *Record GIT repository address here* |
| 1. Evaluate the effectiveness of your selected new emerging web technology (Minimum 1 Paragraph) **Some questions to consider:**   *Did a certain client side library or module meet your needs or would you choose an alternative next time? What modules work well, what modules proved difficult to implement? Would you change the way you structured the application or components?* | *Evaluate Here* |
| 1. Use comments and documentation tools to document at least two scripts. Ensure that the comments meet the tools documentation standards.  **Classes and Scripts** A descriptive overview should be provided for each class and script as a comment at the top of the file. Details about any parent classes should be documented at the top of the file. **Members** The purpose of each member should be documented as a comment. **Methods** The purpose of each method should be documented as a comment. **Parameters** The purpose of each parameter should be documented as a comment. | *Record the name and location of the documented files here* |

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| **Part 5 – Hand Over and Sign Off** Assessment Documentation/ Working Files | | | | | | | | | |
| **Final Approval and Hand Over**  You will need to organise a time with your to review your final solution for the project and obtain feedback. You will need to present and explain your code and program structure. | | | | | | | | | |
| **Skills to be observed during this task to the required standard.** Checklist (To be completed by the learner’s facilitator)The following tasks are to be completed in relation to the brief for this project. Each of the skills must be observed on at least one occasion. | | | | | **Date 1** | | | **Date 2** | |
|  | | |  | |
| **Satisfactory** | | | **Satisfactory** | |
| **Yes** | **No** | | **Yes** | **No** |
| 1. The leaner has designed an algorithm that aligns with the standards and expectations outlined in the brief. | | | | |  |  | |  |  |
| 1. The application meets the program and initial specifications outlined in the brief. | | | | |  |  | |  |  |
| 1. The learner has presented the application to the client for approval. | | | | |  |  | |  |  |
| 1. The learner has obtained feedback and sign off from the client. | | | | |  |  | |  |  |
| 1. The learner has taken responsibility for planning, sequencing and prioritising tasks and own workload. | | | | |  |  | |  |  |
| 1. During this project the learner optimised their IDE and dev tools to improve personal productivity. | | | | |  |  | |  |  |
| **Assessor Name** | *Sruthy Korembith* | **Assessor Signature** | *Signature* | **Date** | | |  | | |