# Student Version

| Section A – Program/Course details | | | |
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| **Qualification code:** | ICT50615 | **Qualification title:** | Diploma of Website Development |
| **Unit code:** | (6D)  ICTWEB516  CUAGRD505 | **Unit title:** | (Web Design Trends)  Research and apply emerging web technology trends  Design and manipulate complex layouts |
| **Department name:** | BDIT, Computer and Information Technology | **CRN number:** |  |

| Section B – Assessment task details | | | |
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| **Assessment number:** | 2 of 3 | **Semester/Year:** | 2/2020 |
| **Due date:** | 20-Nov-20 | **Duration of assessment:** | 6 sessions |
| **Assessment method** | Project/Report/Portfolio | **Assessment task results** | Ungraded result (S/NS) |
| Other: |

| Section C – Instructions to students |
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| **Task instructions:** |
| Learners are required to create website/app that uses new web technology. You are required to create a dynamic website that must be written using JavaScript UI library React JS, JavaScript, Bootstrap framework, HTML5, CSS3 and Server.  This project has been divided into 7 parts. Each part must be completed to a satisfactory standard in order for a learner to be found competent.  The 7 parts are as follows:  Part 1 - Project overview / Brief Part 2 - Analyse design needs, Develop and refine layout ideas Part 3 - Written components  Part 4 - Create the Layout and evaluate the design work for the website Part 5 – Data interaction Part 6 – Testing and browser compatibility Part 7 – Evaluate the design and Finalise the technical aspects of the project  See support document for further 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 satisfactory in this task. - You may resubmit this task if not successful within the enrolment period as per Holmesglen conducting  assessment procedure. - The learner may use the internet for research. - The following technologies must be utilised; HTML5, CSS3, JavaScript, Bootstrap & JavaScript/jQuery. - 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; Brackets.io or 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.  - You may resubmit this task if not successful within the enrolment period as per Holmesglen conducting  assessment procedure. - 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 will have the opportunity to resubmit if any part of the assessment is deemed unsatisfactory (one resubmit allowed per task). - 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 decide with your assessor within one week of commencing this assessment. - The learner may use the internet research answers for this assessment. | |
| **Equipment/resources students must supply:** | **Equipment/resources to be provided by the RTO:** |
| Computer Internet Connection  Bootstrap JavaScript React JS HTML5 CSS3 Database | Computer Internet Connection  Code Editor Browsers Bootstrap JavaScript React JS HTML5 CSS3 Database |

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| Section E – Marking Sheet - Student Answer Sheet | | | |
| **Student ID:** |  | **Student name:** |  |
| **Unit code:** | (6D)  ICTWEB516  CUAGRD505 | **Unit title:** | (Web Design Trends)  Research and apply emerging web technology trends  Design and manipulate complex layouts |
| **Date:** |  | | |

**Lesson reference:** [**Session 1**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 2**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

**[Session 3](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)**

[**Session 4**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 5**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 6**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 7**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 8**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 9**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 10**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 11**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 12**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 13**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 14**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

[**Session 15**](https://holmesglen.brightspace.com/d2l/le/content/252845/Home)

**Portfolio task**

| **Criteria for assessment** | | **Satisfactory** | | **Comment** |
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| **Yes** | **No** |
| **The following has been submitted for assessment:** | | | | |
| Assessment Documentation  Part 1 - Project overview / Brief | |  |  |  |
| Assessment Documentation / Working Files Part 2 - Analyse design needs, Develop and refine layout ideas | |  |  |  |
| Assessment Documentation  Part 3 - Written components | |  |  |  |
| Assessment Documentation/Working Files Part 4 - Create the Layout and evaluate the design work for the website | |  |  |  |
| Assessment Documentation/Working Files Part 5 - Data interaction | |  |  |  |
| Assessment Documentation/Working Files Part 6 - Testing and browser compatibility | |  |  |  |
| Assessment Documentation/Working Files Part 7 - Evaluate the design and Finalise the technical aspects of the project | |  |  |  |
| **Marking criteria:** Assessment Documentation Part 1 - Project overview / Brief: Criteria below relate to the project requirements in Part 1 | | | | |
| 1. | The area and services have both been identified from project overview / brief and recorded in Part 1 |  |  |  |
| 2. | After reading the brief the learner has identified 3 of the core needs of the project and has listed them in Part 1 |  |  |  |
| 3. | Based on the project brief the learner has identified the appropriate web technology to meet the needs of the web application and also identified 2 browsers that the project must support |  |  |  |
| 4. | The mark-up, styling, development environment and development tools have been specified and align with the project requirements outlined in the project brief. |  |  |  |
| 5. | Learner has evaluated and select approaches based on their potential to meet the communication need and has also identified how the systems they will be utilizing will impact the development process. |  |  |  |
| 6. | Based on the opportunities and constraints offered by different technologies, learner incorporated at least 1 dynamic feature in the project |  |  |  |
| 7. | The learner has analysed the design needs based on the design brief and consultation with the client. |  |  |  |
| 8. | At least 1 layout design that meets the project requirements outlined in the brief has been developed and recorded in Part 1. |  |  |  |
| 9. | Learner evaluate legal, ethical and contractual information pertinent to the project. |  |  |  |
| 10. | Learner presented visual representation of design ideas for approval and feedback |  |  |  |
| **Marking criteria:**  Assessment Documentation / Working Files Part 2 - Analyse design needs, Develop and refine layout ideas  Learner assess the different elements and incorporated the same into the overall layout | | | | |
| 1. | Web Page have been structured using React JS, Bootstrap, HTML5 and CSS. |  |  |  |
| 2. | React Components, Properties, Events has been incorporated in the project |  |  |  |
| 3. | The form has all the required elements described in the project |  |  |  |
| 4. | Learner incorporated communication objectives with effective integration of texts and visuals with the help of Delete, Edit and Update elements in the form. |  |  |  |
| 5. | Form has to connect to the Server to save the data. |  |  |  |
| 6. | Whenever the form is loaded, it has to display all the information from the database |  |  |  |
| 7. | Bootstrap components have to be incorporated in the form |  |  |  |
| 8. | Web application meets the requirements outlined in the project brief. |  |  |  |
| **Marking criteria:**  Assessment Documentation Part 3 - Written components | | | | |
| 1. | Learner has identified the relevant resources and conduct research to inform layout ideas.  And also identified the framework that is used in the project |  |  |  |
| 2. | Identified the advantage of using the framework in the project |  |  |  |
| 3. | Identified the React JS components used in the project |  |  |  |
| 4. | Learner identified and resolved technical problems and applied design skills to the project to achieve desired outcomes. |  |  |  |
| **Marking criteria:**  Assessment Documentation / Working Files Part 4 - Create the Layout and evaluate the design work for the website | | | | |
| 1. | Learner created and set up the document using the appropriate software for example using JavaScript Library |  |  |  |
| 2. | Learner created and refined ideas and options for the layout through the use of an extended range of tools and features |  |  |  |
| 3. | Applied desired skills to achieve the desired outcomes by working with creative and technical processes together |  |  |  |
| 4. | Critique the layout from functional and aesthetic perspectives in the context of design objective.  Learner created the layout for the website using react components and Bootstrap framework |  |  |  |
| **Marking criteria:**  Assessment Documentation / Working Files Part 5 - Data interaction | | | | |
| 1. | Learner incorporated the following elements to the project to connect to the Firebase Server:   * Add * Update * Delete   Learner can now Add / Read the information from the firebase server to the React Application |  |  |  |

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| **Marking criteria:**  Assessment Documentation / Working Files Part 6 - Testing and browser compatibility | | | | |
| 1. | Learner entered all the information in the form |  |  |  |
| 2. | Learner checked whether the same information is available in the server. |  |  |  |
| 3. | Access the webpage from three different browsers and ensure webpage is compatible with the browsers and work the same in three browsers. |  |  |  |

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| **Marking criteria:**  Assessment Documentation / Working Files Part 7 - Evaluate the design and Finalise the technical aspects of the project | | | | |
| 1. | Learner evaluate the specification of the design brief and meet all the project requirements identified in part 1 |  |  |  |
| 2. | Learner implement the project according to its requirements explained in part1. Learner developed appropriate file formats for output and appropriate color management profiles. |  |  |  |
| 3. | Learner received feedback from the trainer to finalize the project |  |  |  |

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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. | | |
| **Submission or observation date:** |  | |
| **Student signature**  For electronic submissions: By typing your name in the student signature field, you are accepting the above declaration. | **Sanjith Padmadas Das** | |

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

**Supporting document**

# Web Design Trends – Documentation

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| **Unit code**: | (6D)  ICTWEB516  CUAGRD505 | **Unit title:** | (Web Design Trends)  Research and apply emerging web technology trends  Design and manipulate complex layouts |
| **Student ID:** |  | **Student name:** |  |

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| **Project Brief** Read thought the brief below take note of the needs and requirements outlined in the brief. (Learners do not need to complete any tasks for Part 1. Leaners simple need read and understand the requirements of the brief.) |
| **Introduction**  Your client wants to create website/app that uses new web technology. You are required to create a dynamic website that must be written using JavaScript UI library React JS, JavaScript, Bootstrap framework, HTML5, CSS3 and Server.  **Project requirements**   * Use JavaScript UI library – React JS to develop the Web Application * Import the necessary React modules using the command window * Import JQUERY using the command ‘npm’ * Use JavaScript Syntax Extension * Create a simple form using the React Component * Use Bootstrap framework for the layout * Connect the Web Application to the Server by implementing the coding in React Component * Use HTML5, CSS3 for the design * Page Layout must be responsive   The web app must include the following as a minimum:   * The website must be built using JavaScript UI Library- React JS, HTML5, Bootstrap Framework, JavaScript and CSS. * Your site must have the following features:   + General Registration Form   + At least 2 internal webpages * Use the **Firebase** database to store the information. * Debugging testing and documentation of code. |

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| **Part 1 - Project overview / Brief:**  **Based on the information you have gathered from the brief complete the following:** | |
| 1. The area and services have both been identified from project overview / brief and recorded in Part 1 | ***The purpose of this website is to create a hotel booking system. The modules included in this project are***   1. ***User Registration*** 2. ***User Login (Token based authentication)*** 3. ***Authenticated user can*** 4. ***Create Room*** 5. ***Update Room*** 6. ***Delete Room***   ***All the user data has been stored into the firebase database.*** |
| 2. After reading the brief the learner has identified 3 of the core needs of the project and has listed them in Part 1 | *e.g. What are the elements that need to be included in the web application using React JS* |
| 3 Based on the project brief the learner has identified the appropriate web technology to meet the needs of the web application and also identified 2 browsers that the project must support | ***The web technology used in this projects are***   1. ***React (Redux)*** 2. ***Bootstrap*** 3. ***HTML, CSS, SASS*** 4. ***JavaScript, JQuery*** 5. ***Express server*** 6. ***Firebase database***   ***Platform: Internet Browser support: Google Chrome, Microsoft Edge, and Firefox et.*** |
| 4. The mark-up, styling, development environment and development tools have been specified and align with the project requirements outlined in the project brief. | ***The development environment includes:-***   1. ***React (Redux)*** 2. ***Bootstrap*** 3. ***HTML, CSS, SASS*** 4. ***JavaScript , JQuery*** 5. ***Express server*** 6. ***Firebase database*** 7. ***Visual Studio Code Editor***   ***Platform: Internet Browser support: Google Chrome, Microsoft Edge, and Firefox et.*** |
| 5. Learner has evaluated and select approaches based on their potential to meet the communication need and has also identified how the systems they will be utilizing will impact the development process. | *The interface design of this website is fully responsive. So that the interface can be viewed on multiple types of browsers , devices like Mobile, Tablet, Desktop etc.*  *This website is tested with these various screen sizes*   1. 1366×768 2) 1440×900 3) 1536×864 4) 2560×1440   5) 1680×1050 6) 1920×1080 7) 1280×720 8) 1280×800  9) 360×640 10) 1600×900 |
| 6. Based on the opportunities and constraints offered by different technologies, learner incorporated at least 1 dynamic feature in the project | *All the user inputs (forms) are validated using client side (React) and also from the server side as well. Once all the inputs are validated, user data is stored into the firebase database.*  *Image upload feature is provided.*  *Email sending feature is also added.* |
| 7. **The learner has analysed the design needs based on the design brief and consultation with the client**. | *e.g. Basic Help documentation* |
| 1. At least 1 layout design that meets the project requirements outlined in the brief has been developed and recorded in Part 1. | ***Please refer the attached doc (UI Screen shot and Endpoints) for more wireframe design*** |
| 1. Learner evaluate legal, ethical and contractual information pertinent to the project. | *Yes* |
| 1. Learner presented visual representation of design ideas for approval and feedback | *Yes* |
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| **Approval and Feedback** Once you have identified the project requirements obtain approval from your clients representative. | | | | | | |
| Before moving forward learners will need to organize a meeting with their facilitator to obtain approval and feedback before moving on. The following check list is to be complete by the facilitator. | | | | | | |
| **Checklist (To be completed by the learner’s facilitator)** | | | | | **Yes** | **No** |
| 1. The learner has demonstrated a clear understanding of the client’s business and core project needs. | | | | |  |  |
| 1. The learner has a clear understanding of the target platform and technical requirements. | | | | |  |  |
| 1. The learner has Investigate the system environment for the final product and determined how this may impact the user interface. | | | | |  |  |
| 1. The learner has determined necessary dynamic functionality and documentation required. | | | | |  |  |
| 1. The user interface style aligns with the organization requirements. | | | | |  |  |
| **Assessor Name** | *Amberle Seidl* | **Assessor Signature** | *Insert Signature* | **Date** | *Insert Date* | |

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| **Part 2 - Analyse design needs, Develop and refine layout ideas**  **Assessment Documentation / Working Files** | |
| 1. Web Page have been structured using React JS, Bootstrap, HTML5 and CSS. | *provide project working files* |
| 1. React Components, Properties, Events has been incorporated in the project | *provide project working files* |
| 1. The form has all the required elements described in the project | *provide project working files* |
| 1. Learner incorporated communication objectives with effective integration of texts and visuals with the help of Delete, Edit and Update elements in the form. | *provide project working files* |
| 1. Form has to connect to the Server to save the data. | *provide project working files* |
| 1. Whenever the form is loaded, it has to display all the information from the database | *provide project working files* |
| 1. Bootstrap components have to be incorporated in the form | *provide project working files* |
| 1. Web application meets the requirements outlined in the project brief. | *provide project working files* |

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| Assessment Documentation / Working Files Part 3 - Written Components | |
| 1. Learner has identified the relevant resources and conduct research to inform layout ideas.   And also identified the framework that is used in the project | *Yes* |
| 1. Identified the advantage of using the framework in the project | ***React***   1. *Code Reusability (Reusable components)* 2. *Virtual DOM (Faster rendering)* 3. *Comes with helpful Developer Tools* 4. *Boosts productivity and facilitates further maintenance* 5. *SEO friendly* |
| 1. Identified the React JS components used in the project | *List the React Components used in the Web Application*   1. *Create Room (class based component)* 2. *Edit Room (class based component)* 3. *Room (Single, Multiple display) Class based Component* 4. *Footer (functional component)* 5. *Login (class component)* 6. *Register( class component)* 7. *NavbarHeader (class component)* 8. *About (functional component)* |
| 1. Learner identified and resolved technical problems and applied design skills to the project to achieve desired outcomes. | *Insert a screenshot of*  *the*  *Web Page* |

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| **Assessment Documentation / Working Files Part 4 -** Create the Layout and evaluate the design work for the website | |
| 1. Learner created and set up the document using the appropriate software for example using JavaScript Library | *Provide Screen shots of UI, Provide coding*    *Please refer the attached doc (UI Screen shot and Endpoints) for more Screen Shots* |
| 1. Learner created and refined ideas and options for the layout through the use of an extended range of tools and features | *Completed Yes* |
| 1. Applied desired skills to achieve the desired outcomes by working with creative and technical processes together | *Completed Yes* |
| 1. Critique the layout from functional and aesthetic perspectives in the context of design objective.   Learner created the layout for the website using react components and Bootstrap framework | *Provide screen shots of the web page, Provide coding*    *Please refer the attached doc (UI Screen shot and Endpoints) for more Screen Shots* |

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| **Assessment Documentation / Working Files Part 5 - Data interaction** | |
| 1. Incorporate the following elements to the project to connect to the Firebase Server:  * Add * Update * Delete   Learner can now Add / Read the information from the firebase server | ***Completed Yes*** |

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| **Assessment Documentation / Working Files Part 6 - Testing and browser compatibility**  **Test in different browsers** | |
| 1. Learner entered all the information in the form | *Provide screen shots of the information entered in the form*    *Please refer the attached doc (UI Screen shot and Endpoints) for more Screen Shots* |
| 1. Learner checked whether the same information is available in the server. | *Provide the screen shots of the database*      *Please refer the attached doc (UI Screen shot and Endpoints) for more Screen Shots* |
| 1. Access the webpage from three different browsers and ensure webpage is compatible with the browsers and work the same in three browsers. | *Completed Yes*  *Tested on Google Chrome, Mocrosoft Edge, Firefox* |
| 1. Learner entered all the information in the form | *Provide screen shots of the information entered in the form*    *Please refer the attached doc (UI Screen shot and Endpoints) for more Screen Shots* |

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| Assessment Documentation / Working Files Part 7 - Evaluate the design and Finalise the technical aspects of the project |

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| 1. Learner evaluate the specification of the design brief and meet all the project requirements identified in part 1 | *Completed Yes* |
| 1. Learner implement the project according to its requirements explained in part1. Learner developed appropriate file formats for output and appropriate colour management profiles | *Completed Yes* |
| 1. Learner received feedback from the trainer to finalize the project | *Completed Yes* |