



Qualification national code and title	ICT50220 Diploma of Information Technology (Front-End Web Development)
Unit/s national code/s and title/s	ICTWEB517 Create web-based programs ICTPRG546 Validate application designs against specifications

ProjectAssessment 2: Project – Build web page using components

Assessment type (☑):

- ☐ Questioning (Oral/Written)
☐ Practical Demonstration
☐ 3rd Party Report
☒ Other – Project/Portfolio *(please specify)*

Assessment Resources:

Access to Blackboard Cluster – Web application Development
 IDE - VSCode or Editor - Notepad++.
 Zip file “One Ring Rentals.zip”

Assessment Instructions:

Assessment Time

See Learning Plan for details. This is Assessment 2: Project – build web page using components

Assessment Due Date

See Learning Assessment Plan

Unit Elements

ICTWEB517 Create web-based programs.
 Element 1. Prepare to create web application

ICTPRG546 Validate application designs against specifications
 Element 1. Evaluate software requirement specifications
 Element 2. Create proof of concept prototype
 Element 3. Evaluate software design
 Element 4. Evaluate the testing requirements

Assessment Instructions

Develop a web page using React components using Class Activities, the Next.js tutorial and references from W3schools. Complete the exercises for this assessment. The React files will demonstrate understanding of OOP and application state;
 All skills must be demonstrated to achieve a satisfactory result;
 Please submit using through blackboard submission box;
 Ensure you have used the required template for your assessment;



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Assessment Instrument:

Assessment Description:

In this assessment you will be demonstrating your ability to apply object-oriented language skills using the relevant industry standard targeted language (e.g., OO in JavaScript React). The React components are developed through class sessions.

Assessment Method:

You are to complete a series of tasks to build a web-based components using an object-oriented programming language: These tasks will be informed by your design and requirements for the SPA using React components from the Next.js tutorial & Class Activities. Other components can be used from other developers.

Your web-based components are to use:

1. Relevant Language syntax, and basic OO principles
 - In this case you will be using React
2. Use in code documentation standards.
 - Standard commenting for JavaScript and React
3. Create, use and document testing of code.
 - For testing use the Developer tools in a browser. React plugin can used to demonstrate development. Screenshot should be included as part of demonstrating testing your code

Assessment Instructions:

1. Develop the “**One Ring Rentals**” site (Shown in Appendix A attached at the end of this document) with simple JavaScript/React components for the UI. Use the ones from the tutorial or create your own.
2. Identify sections that contain multiple items (e.g., lists, grids, sections with multiple elements) that can be converted into React components.
3. **For each HTML page in the site, create a unique React component.** The unique component should encapsulate an area containing multiple items.
4. Ensure that each component is self-contained and follows React best practices (e.g., proper use of props, state management if needed, clean and readable code).
5. Identify or create one element or section that can be reused across all pages (e.g., a header, footer, navigation menu).
6. Create a React component for this common section.
7. **Integrate the common component into each of the website pages.**
8. Test each React component individually to ensure it renders correctly and behaves as expected.
9. Test the integration of the common component with the unique components to ensure there are no conflicts.



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10. Verify that the components maintain the same functionality and appearance as the original HTML pages.
11. All tasks must be completed to the required standard to meet assessment requirements. In class materials and out of class tutorials are used to build the base application using React components.

This will allow you to create your own classes and methods to develop the base interface from the React library.

Screenshot a series of tests that show debugging your code. Example – W3Validator, JSHint, Developer tools breakpoint, React Developer Tools extension for browser must be included in your submission

All skills must be demonstrated to achieve a satisfactory result.

Please submit your Web page via Assignment uploads in the appropriate Blackboard Shell, with a compressed file (prefer .zip) or a URL link to your GitHub Repository.



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Assessment # and title	Assessment 2: Assessment 2: Project – build web page using components		
Lecturer name			
Student name			
Student ID number			
Telephone contact number		Email:	
By completing and submitting this signed form to my lecturer, I am stating that: <ul style="list-style-type: none"> a. The attached submission is completely my own work. b. I have correctly cited all sources of information used in this work (if required) c. I have kept a copy of this assessment (where practicable) d. I understand a copy of my assessment will be kept by the NMTAFE for their records. e. I understand my assessment may be selected for use in the NMTAFE's validation and audit process to ensure student assessment meets requirements 			
Student Signature		Date	

Assessor please note: Where verbal clarification has been sought from a student to gather additional assessment evidence from an assessment item, question/s and response/s must be recorded, signed, and dated by the assessor, against the relevant assessment item/s.

Submission 1 ☐ **Assessment Result Satisfactory / Not Yet Satisfactory** (please circle) **Date:** _____

To satisfy requirements for this assessment, you need to complete the following:

No.	Complete the task by following these steps	D or NYD
1	Apply basic language syntax and layout using JavaScript React	<input type="checkbox"/>
2	Apply basic object-oriented principles of React library	<input type="checkbox"/>
3	Debug the code using the IDE or debugging tool for syntax errors	<input type="checkbox"/>
4	Include comments throughout the code for documentation	<input type="checkbox"/>
5	Provide code testing screenshots for test conducted	<input type="checkbox"/>
6	For each HTML page in the site, created a unique React component containing multiple items.	<input type="checkbox"/>
7	Integrate the common component into each of the website pages.	<input type="checkbox"/>
8	Upload completed pages with the components	<input type="checkbox"/>



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Submission 2 ☐ **Assessment Result Satisfactory / Not Yet Satisfactory** *(please circle)* **Date:** _____

To satisfy requirements for this assessment, you need to complete the following:

Student Feedback

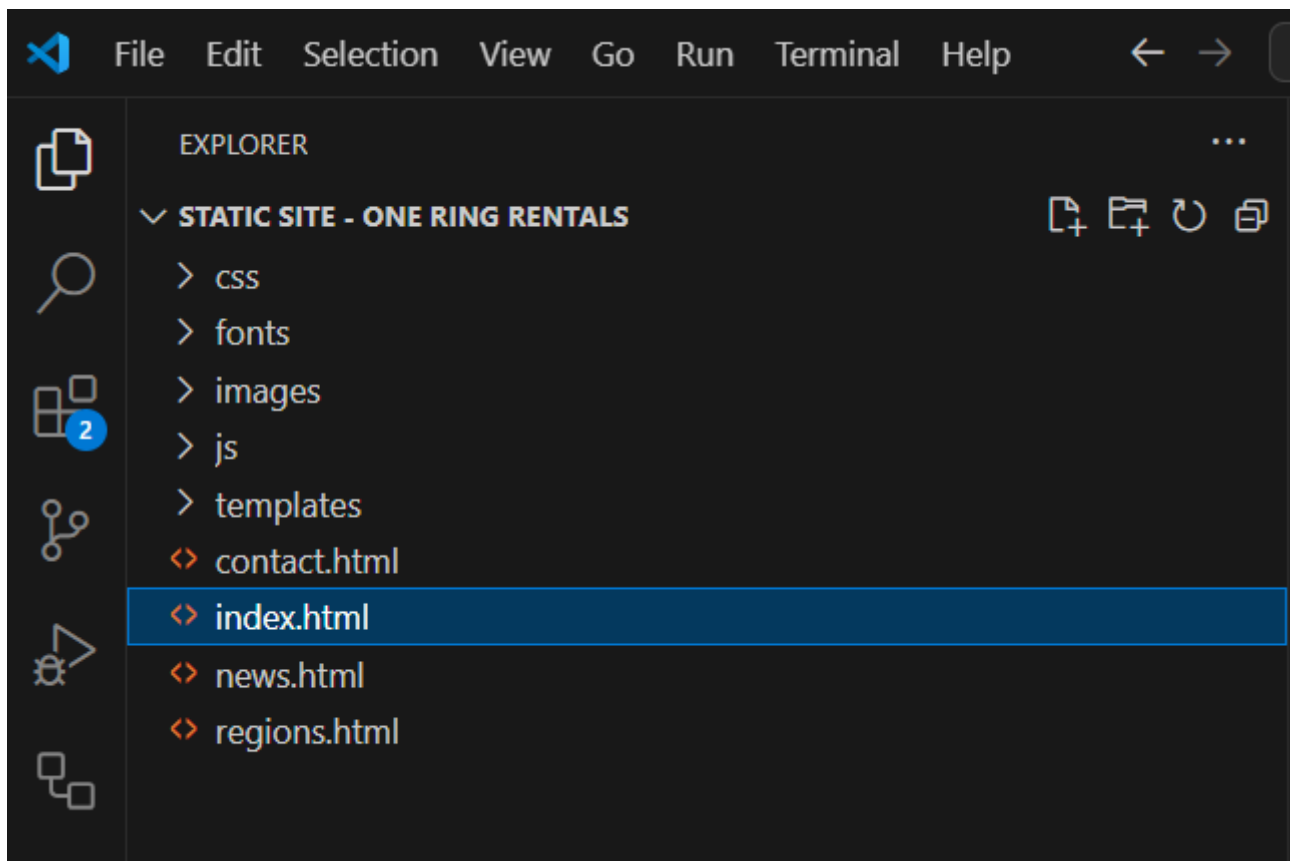
Lecturer Signature: _____ **Student Signature:** _____



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Appendix A

Screen shot of contents of “One Ring Rentals.zip” file.



Showing “**One Ring Rentals**” pages to add your components to.



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