## ID607001: Introductory Application Development Concepts

## Practical: Node.js REST API Testing Research Assessment Rubric

|               | 10-9  | 8-7  | 6-5  | 4-0  |
|---------------|---|--|--|--|
| Functionality | API tests demonstrate comprehensive & robust coverage on the following: | API tests demonstrate clear & detailed coverage on the following:      | API tests demonstrate coverage on the following:                       | API tests does not, or does not fully demonstrate coverage on the following: |
|               | Written using Mocha & Chai.   | Written using Mocha & Chai.  | Written using Mocha & Chai.  | Written using Mocha & Chai.  |
|               | CRUD (create, read, update & delete) operations.                        | CRUD (create, read, update & delete) operations.                       | CRUD (create, read, update & delete) operations.                       | <ul> <li>CRUD (create, read, update &amp; delete) operations.</li> </ul>     |
|               | Authentication.   | Authentication.  | Authentication.  | Authentication.  |
|               | Validation rules.   | <ul> <li>Validation rules.</li> </ul>                                  | <ul> <li>Validation rules.</li> </ul>                                  | <ul> <li>Validation rules.</li> </ul>  |
|               | <ul> <li>Query parameters.</li> </ul>                                   | <ul> <li>Query parameters.</li> </ul>                                  | <ul> <li>Query parameters.</li> </ul>                                  | <ul> <li>Query parameters.</li> </ul>  |
|               | Status codes.   | Status codes.  | <ul> <li>Status codes.</li> </ul>                                      | Status codes.  |
|               | <ul> <li>The shape of the data.</li> </ul>                              | <ul> <li>The shape of the data.</li> </ul>                             | <ul> <li>The shape of the data.</li> </ul>                             | <ul> <li>The shape of the data.</li> </ul>                                   |
|               | <ul> <li>Code coverage using nyc.</li> </ul>                            | <ul> <li>Code coverage using nyc.</li> </ul>                           | <ul> <li>Code coverage using nyc.</li> </ul>                           | <ul> <li>Code coverage using nyc.</li> </ul>                                 |
|               | API tests thoroughly demonstrate code elegance on the following:        | API tests clearly demonstrate code elegance on the following:          | API tests demonstrate code elegance on the following:                  | API tests do not or do not fully demonstrate code elegance on the following: |
|               | Intermediate variables, idiomatic                                       | Intermediate variables, idiomatic                                      | Intermediate variables, idiomatic                                      | Intermediate variables, idiomatic  |
|               | control flow, data structures & in-                                     | control flow, data structures & in-                                    | control flow, data structures & in-                                    | control flow, data structures & in-  |
| Elegance      | built functions, & sufficient   | built functions, & sufficient  | built functions, & sufficient  | built functions, & sufficient  |
|               | modularity.   | modularity.  | modularity.  | modularity.  |
|               | <ul> <li>Functions &amp; variables are named appropriately.</li> </ul>  | <ul> <li>Functions &amp; variables are named appropriately.</li> </ul> | <ul> <li>Functions &amp; variables are named appropriately.</li> </ul> | <ul> <li>Functions &amp; variables are named appropriately.</li> </ul>       |
|               | File header comments.   | File header comments.  | File header comments.  | File header comments.  |
| Code          | <ul> <li>Formatted code using Prettier.</li> </ul>                      | <ul> <li>Formatted code using Prettier.</li> </ul>                     | <ul> <li>Formatted code using Prettier.</li> </ul>                     | <ul> <li>Formatted code using Prettier.</li> </ul>                           |
| Ŏ             | Prettier & nyc installed as dev   | <ul> <li>Prettier &amp; nyc installed as dev</li> </ul>                | <ul> <li>Prettier &amp; nyc installed as dev</li> </ul>                | <ul> <li>Prettier &amp; nyc installed as dev</li> </ul>                      |
| 0             | dependencies.   | dependencies.  | dependencies.  | dependencies.  |
|               | <ul> <li>No dead or unused code.</li> </ul>                             | <ul> <li>No dead or unused code.</li> </ul>                            | <ul> <li>No dead or unused code.</li> </ul>                            | <ul> <li>No dead or unused code.</li> </ul>                                  |
|               | <ul> <li>Database configured for testing</li> </ul>                     | <ul> <li>Database configured for testing</li> </ul>                    | <ul> <li>Database configured for testing</li> </ul>                    | <ul> <li>Database configured for testing</li> </ul>                          |
|               | environment.  | environment.   | environment.   | environment.   |
|               | <ul> <li>Environment variables stored.</li> </ul>                       | <ul> <li>Environment variables stored.</li> </ul>                      | <ul> <li>Environment variables stored.</li> </ul>                      | <ul> <li>Environment variables stored.</li> </ul>                            |

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Version 1, Semester One, 2022

| <b>a</b> \ | README file contains thorough evidence of     | README file contains clear evidence of how  | README file contains evidence of how to      | README file does not or does not fully        |
|------------|---|---|--|---|
| 8          | how to setup the environment for              | to setup the environment for development &  | setup the environment for development &      | contain evidence of how to setup the          |
| Usage      | development & run the API tests.              | run the API tests.                          | run the API tests.                           | environment for development & run the API     |
|            |   |   |  | tests.  |
| & Git      | Comprehensive use of Markdown syntax,         | Substantial use of Markdown syntax, i.e.,   | Use of Markdown syntax, i.e., headings, bold |   |
|            | i.e., headings, bold text & code blocks.      | headings, bold text & code blocks.          | text & code blocks.                          | Does not or does not fully demonstrate use    |
| _          |   |   |  | of Markdown syntax, i.e., headings, bold text |
| tion       | Thorough spelling & grammar correctness.      | Clear spelling & grammar correctness.       | Spelling & grammar correctness.              | & code blocks.                                |
| <b>∃</b>   |   |   |  |   |
| ntat       | Git commit messages are comprehensively       | Git commit messages are clearly formatted & | Git commit messages are formatted & reflect  | Does not or does fully demonstrate spelling   |
| <u> </u>   | formatted & reflect the functionality changes | reflect the functionality changes in        | the functionality changes in detail.         | & grammar correctness.                        |
| ⊑          | in succinct detail.                           | substantial detail.                         |  |   |
| ರ          |   |   |  | Git commit messages are not or are not fully  |
| 8          |   |   |  | formatted & do not or do not reflect the      |
|            |   |   |  | functionality changes.                        |

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Practical: Node.js REST API Testing Research Marking Cover Sheet

| Name:                 |  |
|-----------------------|--|
| Date:                 |  |
| Learner ID:           |  |
| Assessor's Name:      |  |
| Assessor's Signature: |  |

| Criteria                  | Out Of | Weighting | Final Result |
|---------------------------|--------|-----------|--------------|
| Functionality             | 10     | 60        |              |
| Code Elegance             | 10     | 30        |              |
| Documentation & Git Usage | 10     | 10        |              |
| Final Result              |        |           | /100         |

This assessment is worth 20% of the final mark for the Introductory Application Development Concepts course.

| _     | _     | _ |   |
|-------|-------|---|---|
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**Functionality:** 

**Code Elegance:** 

**Documentation & Git Usage:** 

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