## Unit and Integration Test Plans

<Project Title>

The test approach is the overall test strategy that underpins the whole test plan. A test approach asks, "How are you going to test the software?" If this Test Plan is part of a larger parent project and there are other Test Plans for other parts of the overall system then the test approach should dovetail with the other test approaches. Also, consider if you are going to use established, documented test processes or procedures or if you will need to tailor tests specifically for this project. If so, then name these documents and include them in the reference section.

**Use the templates below.**

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| Test Tools |
| 1 - JUnit |
| 2 |

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| COMPONENT TESTING |

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| COMPONENT: | | | | **Product Controller** | | | | | | | |  | Name of Developer: | | | | | | | | | Vrijesh Patel | | | | | | | |  |
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| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Add Product | | Yes | | | Add new product using post request | | | | | | | | | Vrijesh | | | | | Pass | | | | | | | | | | |
| Edit | | Yes | | | Edit Product | | | | | | | | | Vrijesh | | | | | Pass | | | | | | | | | | |
| Delete | | Yes | | | Delete Product id | | | | | | | | | Vrijesh | | | | | pass | | | | | | | | | | |
| Read All | | Yes | | | Read All product | | | | | | | | | Vrijesh | | | | | Pass | | | | | | | | | | |
| Date - | | | | 8/27/23 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Date - | | | 8/27/23 | | | | | | | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | |  | |  |  |  |  | Project Name- | | | | | | | CST 452 Product Management | | | | | | | | | | | |
|  |  | | | |  | |  |  |  |  | Date- | | | | | | | 8/27/23 | | | | | | | | | | | |

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| **UNIT TESTING** | | | | | | | | | | | | | | | | | | | | | | |
| **Project:** | CST 452 Product Management | | | | |  | | **Name of Developer:** | | | | | | | | | | Vrijesh | | | | | |  | |
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| **Unit Test Checklist** | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | **Reviewed by Developer** | | | | | | **Comments** | | | | | | | |
| **Functionality** | | | | | | | | | | | | | | | | | | | | | | | |
| Test GetProduct method | Yes |  | | | | | | | | Vrijesh | | | | | | Mock the productRepository.findAll method to return a list of products.  Validate that the returned list of products matches the expected list. | | | | | | | |
| Test GetProductById Method:  . | Yes |  | | | | | | | | Vrijesh | | | | | | .Mock the productRepository.findById method to return a product for a given ID. | | | | | | | |
| Test UpdateProduct Method: | Yes |  | | | | | | | | Vrijesh | | | | | | Mock the productRepository.findById method to return an existing product for a given ID. | | | | | | | |
| Test DeleteProduct Method: | Yes |  | | | | | | | | Vrijesh | | | | | | Mock the productRepository.existsById method to return true for an existing product ID. | | | | | | | |
| Error Handling | Yes |  | | | | | | | | Vrijesh | | | | | | Ensure that methods that throw a ProductNotFoundException are tested for the correct exception behavior. | | | | | | | |
| Cross-Origin and Options Requests: | Yes |  | | | | | | | | Vrijesh | | | | | | Validate that cross-origin annotations are applied correctly using @CrossOrigin. | | | | | | | |
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| **Other Validations** | | | | | | | | | | | | | | | | | | | | | | | |
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| **Processing** | | | | | | | | | | | | | | | | | | | | | | | |
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