## **Unit and Integration Test Plans**

TheCouchPotato.com: An E-commerce Platform for Comfort Items

| Test Tools |
| --- |
| JUnit (for unit tests), Mockito |
| Postman |

| COMPONENT TESTING |
| --- |

| COMPONENT: | | | Product Management | | | | | | | |  | Name of Developer: | | | | | | | | | Chris Markel | | | | | | | |  |
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| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | All product management functionalities are working as expected. This includes add product, update product, delete product, and search product. | | | | | | | | | | |
|  |  | | |  | | | | | | | | |  | | | | |  | | | | | | | | | | |
| Date - | | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | The system responds within acceptable time limits. | | | | | | | | | | |
| Date - | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Project Name- | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Date- | | | | | | | 9/19/2023 | | | | | | | | | | | |

| COMPONENT: | | | User Management | | | | | | | |  | Name of Developer: | | | | | | | | | Chris Markel | | | | | | | |  |
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| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | All user management functionalities are working as expected. This includes user registration, user login, and user role functions (admin and user) | | | | | | | | | | |
|  |  | | |  | | | | | | | | |  | | | | |  | | | | | | | | | | |
| Date - | | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | The system responds within acceptable time limits. | | | | | | | | | | |
| Date - | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | |
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| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Project Name- | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Date- | | | | | | | 9/19/2023 | | | | | | | | | | | |

| COMPONENT: | | | Cart Management | | | | | | | |  | Name of Developer: | | | | | | | | | Chris Markel | | | | | | | |  |
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| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | All cart management functionalities are working as expected. This includes add product to cart, update product quantity in cart, remove product from cart, and checkout. | | | | | | | | | | |
|  |  | | |  | | | | | | | | |  | | | | |  | | | | | | | | | | |
| Date - | | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Date - | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | |
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|  |  | | |  | |  |  |  |  | Project Name- | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Date- | | | | | | | 9/19/2023 | | | | | | | | | | | |
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| COMPONENT: | | | Search Functionality | | | | | | | |  | Name of Developer: | | | | | | | | | Chris Markel | | | | | | | |  |
|  |  | | |  |  | |  |  |  | | | | |  |  |  | | | | | | | |  |  |  | | | | | |  |
|  |  | | |  |  | |  |  |  | | | | |  | Name of Reviewer: | | | | | | | Chris Markel | | | | | | |  | |
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| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | All search functionalities are working as expected. This includes searching for a product by keyword. | | | | | | | | | | |
|  |  | | |  | | | | | | | | |  | | | | |  | | | | | | | | | | |
| Date - | | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | The system responds within acceptable time limits. | | | | | | | | | | |
| Date - | | 9/19/2023 | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Project Name- | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Date- | | | | | | | 9/19/2023 | | | | | | | | | | | |

| COMPONENT: | | | Category Management | | | | | | | |  | Name of Developer: | | | | | | | | | Chris Markel | | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  | | |  |  | |  |  |  | | | | |  | Name of Reviewer: | | | | | | | Chris Markel | | | | | | |  | |
|  |  | | |  |  | |  |  |  | | | | |  |  |  | | | |  | | | | |  |  |  | |
| Component Test Checklist | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | Pass | | |  | | | | | | | | | Reviewed by Developer | | | | | | Comments | | | | | | | | | |
| Functionality | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | All category management functions are working as expected.. This includes add category and delete category. | | | | | | | | | | |
|  |  | | |  | | | | | | | | |  | | | | |  | | | | | | | | | | |
| Date - | | | 9/30/2023 | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✓ | | |  | | | | | | | | | Chris Markel | | | | | The system responds within acceptable time limits. | | | | | | | | | | |
| Date - | | 10/1/2023 | | | | | | | | | | | | | | | | | | | | |
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| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Project Name- | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | | |
|  |  | | |  | |  |  |  |  | Date- | | | | | | | 10/1/2023 | | | | | | | | | | | |

| **UNIT TESTING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Project:** | CST-452 The Couch Potato Web App | | | | | | | | | | |  | **Name of Developer:** | | | | | | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | | | | |  |  |  | | | | | | |  |
|  |  |  |  | |  | |  | | |  | | | | |  | | | | **Name of Reviewer:** | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | |  | | | |  |  |  | | | | | | |
| **Unit Test Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Functionality** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Find user by ID | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that the user registration process captures all necessary details, validates the input, and stores the user data securely. | | | | | | | | |
|  | ✔ | Find user by username | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that users can log in with correct credentials, and incorrect credentials are handled appropriately without revealing sensitive information. | | | | | | | | |
|  | ✔ | Save user to database | | | | | | | | | | | | Chris Markel | | | | | | | | Check if new products can be added with all required details and that they appear correctly in the product listings. | | | | | | | | |
|  | ✔ | Fetch user from database by username | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure admin can fetch user from database. | | | | | | | | |
|  | ✔ | Fetch user from database by email | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure admin can fetch user from database. | | | | | | | | |
|  | ✔ | Test invalid user ID | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure admin can check for invalid user ID. | | | | | | | | |
|  | ✔ | Test invalid username | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure admin can check for invalid username. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | | 10/1/2023 | | | | | | | | | | | | |
| **Other Validations** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Boundary Condition Testing | | | | | | | | | | | | Chris Markel | | | | | | | | Validate the system's behavior at boundary conditions, such as maximum input lengths or limit values. | | | | | | | | |
|  | ✔ | Null and Empty Data Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Check how the system handles null or empty inputs without crashing or behaving unexpectedly. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | 10/1/2023 | | | | | | | | | | | | | |
| **Processing** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Data Processing Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that data processing, like calculations and transformations, are done correctly. | | | | | | | | |
|  | ✔ | Data Retrieval Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Check if the system can retrieve data from the database or other sources accurately and quickly. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | 9/20/2023 | | | | | | | | | | | | | | |
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| **Code QA Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Format and Style** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Consistent Indentation | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure consistent indentation throughout the code for readability. | | | | | | | | |
|  | ✔ | Variable Naming | | | | | | | | | | | | Chris Markel | | | | | | | | Check if variable names are descriptive and follow a consistent naming convention. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | |  | | | | | | | | | | | | | | |
| **Coding Standards and Practices ( General I)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Error Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that potential errors or exceptions are handled gracefully. | | | | | | | | |
|  | ✔ | Modularity | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that the code is modular and each module or function performs a single responsibility. | | | | | | | | |
|  | ✔ | Dependencies | | | | | | | | | | | | Chris Markel | | | | | | | | Check if all dependencies are necessary and up to date. | | | | | | | | |
| **Performance (if applicable)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✔ |  | N/A | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | 9/24/2023 | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Project Name- | | | | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Date- | | | | | | | | | | 9/24/2023 | | | | | | | | | | |

| **UNIT TESTING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Project:** | CST-452 The Couch Potato Web App | | | | | | | | | | |  | **Name of Developer:** | | | | | | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | | | | |  |  |  | | | | | | |  |
|  |  |  |  | |  | |  | | |  | | | | |  | | | | **Name of Reviewer:** | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | |  | | | |  |  |  | | | | | | |
| **Unit Test Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Functionality** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Add Category by name | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that the admin can add a category that can be persisted to a database. | | | | | | | | |
|  | ✔ | Delete Category by Category ID | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that the admin can delete a category that can be removed from a database. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | | 10/1/2023 | | | | | | | | | | | | |
| **Other Validations** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Boundary Condition Testing | | | | | | | | | | | | Chris Markel | | | | | | | | Validate the system's behavior at boundary conditions, such as maximum input lengths or limit values. | | | | | | | | |
|  | ✔ | Null and Empty Data Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Check how the system handles null or empty inputs without crashing or behaving unexpectedly. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | 10/1/2023 | | | | | | | | | | | | | |
| **Processing** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Data Processing Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that data processing, like calculations and transformations, are done correctly. | | | | | | | | |
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| **Code QA Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Format and Style** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Consistent Indentation | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure consistent indentation throughout the code for readability. | | | | | | | | |
|  | ✔ | Variable Naming | | | | | | | | | | | | Chris Markel | | | | | | | | Check if variable names are descriptive and follow a consistent naming convention. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | |  | | | | | | | | | | | | | | |
| **Coding Standards and Practices ( General I)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Error Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that potential errors or exceptions are handled gracefully. | | | | | | | | |
|  | ✔ | Modularity | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that the code is modular and each module or function performs a single responsibility. | | | | | | | | |
|  | ✔ | Dependencies | | | | | | | | | | | | Chris Markel | | | | | | | | Check if all dependencies are necessary and up to date. | | | | | | | | |
| **Performance (if applicable)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✔ |  | N/A | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | 10/1/2023 | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Project Name- | | | | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Date- | | | | | | | | | | 10/1/2023 | | | | | | | | | | |

| **UNIT TESTING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project:** | CST-452 The Couch Potato Web App | | | | | | | | | | |  | **Name of Developer:** | | | | | | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | | | | |  |  |  | | | | | | |  |
|  |  |  |  | |  | |  | | |  | | | | |  | | | | **Name of Reviewer:** | | | | | | Chris Markel | | | | | | |  | |
|  |  |  |  | |  | |  | | |  | | | | |  | | | |  |  | | |  | | | |  |  |  | | | | | | |
| **Unit Test Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Functionality** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | User Registration Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that the user registration process captures all necessary details, validates the input, and stores the user data securely. | | | | | | | | |
|  | ✔ | User Login Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that users can log in with correct credentials, and incorrect credentials are handled appropriately without revealing sensitive information. | | | | | | | | |
|  | ✔ | Product Addition Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Check if new products can be added with all required details and that they appear correctly in the product listings. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | | 9/19/2023 | | | | | | | | | | | | |
| **Other Validations** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✕ | Boundary Condition Testing | | | | | | | | | | | | Chris Markel | | | | | | | | Validate the system's behavior at boundary conditions, such as maximum input lengths or limit values. | | | | | | | | |
|  | ✕ | Null and Empty Data Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Check how the system handles null or empty inputs without crashing or behaving unexpectedly. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | | 9/20/2023 | | | | | | | | | | | | | |
| **Processing** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Data Processing Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that data processing, like calculations and transformations, are done correctly. | | | | | | | | |
|  | ✔ | Data Retrieval Logic | | | | | | | | | | | | Chris Markel | | | | | | | | Check if the system can retrieve data from the database or other sources accurately and quickly. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | 9/20/2023 | | | | | | | | | | | | | | |
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| **Code QA Checklist** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N/A** | **Pass** |  | | | | | | | | | | | | **Reviewed by Developer** | | | | | | | | **Comments** | | | | | | | | |
| **Format and Style** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✔ | Consistent Indentation | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure consistent indentation throughout the code for readability. | | | | | | | | |
|  | ✔ | Variable Naming | | | | | | | | | | | | Chris Markel | | | | | | | | Check if variable names are descriptive and follow a consistent naming convention. | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | |  | | | | | | | | | | | | | | |
| **Coding Standards and Practices ( General I)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | ✕ | Error Handling | | | | | | | | | | | | Chris Markel | | | | | | | | Ensure that potential errors or exceptions are handled gracefully. | | | | | | | | |
|  | ✔ | Modularity | | | | | | | | | | | | Chris Markel | | | | | | | | Validate that the code is modular and each module or function performs a single responsibility. | | | | | | | | |
|  | ✔ | Dependencies | | | | | | | | | | | | Chris Markel | | | | | | | | Check if all dependencies are necessary and up to date. | | | | | | | | |
| **Performance (if applicable)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✔ |  | N/A | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | |
|  |  | | | | | | | | Date - | | | | | | | 9/19/2023 | | | | | | | | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Project Name- | | | | | | | | | | CST-452 The Couch Potato Web App | | | | | | | | | | |
|  |  |  |  |  | |  | |  | | | Date- | | | | | | | | | | 9/19/2023 | | | | | | | | | | |