**FUNCTIONAL INTEGRATION TESTS FOR CRUD UI APPLICATION FOR COFFEE BEANS APPLICATION**

## INTRODUCTION

## Purpose

This document verifies the functionality for Coffee Beans application.

## Scope

The scope of this document is limited to software integration/functional tests for crud operations within for Coffee Beans application.

## Definitions

| **Acronym** | **Description** |
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| CRUD | Create Read Update and Delete |
| URL | Uniform Resource Locator |

* 1. **Test Procedure**

### Test Setup

Please perform following steps

* Open command terminal and change to your project directory “example-app”
* Delete any existing database.sqlite file from database directory and create new by executing this command “touch database/dataset.sqlite”
* On command prompt, run command “Php artisan serve”
  + 1. **Test Steps**

| **Step No.** | **Operator Action** | **Expected Results** | **Actual Results** | **Pass / Fail** |
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| **SW\_INTEG\_1 – Test to verify Add operations for a coffee bean entry**  **Verifies SRS: SRS1, SRS2, SRS3** |

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|  | Open a browser and search for URL “127.0.0.1:8000/coffeeBeanTable” | | | |
|  | Wait for the page to be loaded on browser. | * Home Page shall be displayed * No entry shall be visible in the table * “Create a Coffee Bean Table Entry” button shall be available | * Home Page is displayed. * No entry was visible in the table * “Create a Coffee Bean Table Entry” button was available   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Click on “Create a Coffee Bean Table Entry” button. | Create Coffee Bean Table Entry page shall open and ask the user following information   * Name * Caffeine Level * Cost/lb * Bean Type * Roast * Grind * Country of Origin | Create Coffee Bean Table Entry page opened and asked the user following information   * Name * Caffeine Level * Cost/lb * Bean Type * Roast * Grind * Country of Origin   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Without filling any of the fields, click on “Submit” button | The page shall display the alert that all the fields are required | The page displayed the alert that all the fields are required  \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Fill out all the fields with following information and click on “Submit” button.   * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Redirect to home page shall happen * “Coffee Bean Table Entry created successfully” message shall be displayed * Entry with all details shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Redirect to home page happened * “Coffee Bean Table Entry created successfully” message was displayed * Entry with all details was visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
| **End of Test** | | | | |

| **Step No.** | **Operator Action** | **Expected Results** | **Actual Results** | **Pass / Fail** |
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| **SW\_INTEG\_2 – Test to verify Show operations for a coffee bean entry**  **Verifies SRS: SRS4** |

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|  | Open a browser and search for URL “127.0.0.1:8000/coffeeBeanTable” | | | |
|  | Wait for the page to be loaded on browser. | * Home Page shall be displayed * 1 entry shall be visible in the table * “Create a Coffee Bean Table Entry” button shall be available | * Home Page is displayed. * 1 entry was visible in the table * “Create a Coffee Bean Table Entry” button was available   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | On the available entry, click on “Show” button | * Coffee Bean Table Detail page shall open * Entry with all details shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Coffee Bean Table Detail page opened * Entry with all details was visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Click on “Back” button | Home Page shall be displayed | Home Page is displayed. \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
| **End of Test** | | | | |

| **Step No.** | **Operator Action** | **Expected Results** | **Actual Results** | **Pass / Fail** |
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| **SW\_INTEG\_3 – Test to verify Modify operations for a coffee bean entry**  **Verifies SRS: SRS5, SRS6, SRS7** |

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|  | Open a browser and search for URL “127.0.0.1:8000/coffeeBeanTable” | | | |
|  | Wait for the page to be loaded on browser. | * Home Page shall be displayed * 1 entry shall be visible in the table * “Create a Coffee Bean Table Entry” button shall be available | * Home Page is displayed. * 1 entry was visible in the table * “Create a Coffee Bean Table Entry” button was available   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | On the available entry, click on “Edit” button | * Edit Coffee Bean page shall open * Entry with all details shall be visible on the page * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Edit Coffee Bean page opened * Entry with all details shall be visible on the page * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 2.55 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Change the Cost/lb to 1.80 from 2.55 and click on “Update” button | * Redirect to home page shall happen * “Coffee Bean Table Entry updated successfully” message shall be displayed * Entry with all details shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Redirect to home page happened * “Coffee Bean Table Entry updated successfully” message was displayed * Entry with all details was visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | On the available entry, click on “Edit” button | * Edit Coffee Bean page shall open * Entry with all details shall be visible on the page * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Edit Coffee Bean page opened * Entry with all details shall be visible on the page * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | **Pass** / ~~Fail~~ |
|  | Remove the Name and click on “Update” button | The page shall display the alert that name field is required | The page displayed the alert that name field is required  \_\_ yes \_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Click on “Back” button to revert all the changes and to go back to home page. | * Redirect to home page shall happen * Entry with all details shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Redirect to home page happened * Entry with all details was visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_\_ yes \_\_(yes/no). | **Pass** / ~~Fail~~ |
| **End of Test** | | | | |

| **Step No.** | **Operator Action** | **Expected Results** | **Actual Results** | **Pass / Fail** |
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| **SW\_INTEG\_4 – Test to verify Delete operations for a coffee bean entry**  **Verifies SRS: SRS8, SRS9, SRS10** |

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|  | Open a browser and search for URL “127.0.0.1:8000/coffeeBeanTable” | | | |
|  | Wait for the page to be loaded on browser. | * Home Page shall be displayed * 1 entry shall be visible in the table * “Create a Coffee Bean Table Entry” button shall be available | * Home Page is displayed. * 1 entry was visible in the table * “Create a Coffee Bean Table Entry” button was available   \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Click on “Create a Coffee Bean Table Entry” button. | Create Coffee Bean Table Entry page shall open and ask the user following information   * Name * Caffeine Level * Cost/lb * Bean Type * Roast * Grind * Country of Origin | Create Coffee Bean Table Entry page opened and ask the user following information   * Name * Caffeine Level * Cost/lb * Bean Type * Roast * Grind   Country of Origin  \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Fill out all the fields with following information and click on “Submit” button.   * Name: Death Wish * Caffeine Level: high * Cost/lb: 0.87 * Bean Type: Robusta * Roast: french * Grind: whole-bean * Country of Origin: France | * Redirect to home page shall happen * “Coffee Bean Table Entry created successfully” message shall be displayed * Entry with all details shall be visible in the table * Id: 2 * Name: Death Wish * Caffeine Level: high * Cost/lb: 0.87 * Bean Type: Robusta * Roast: french * Grind: whole-bean * Country of Origin: France | * Redirect to home page happened * “Coffee Bean Table Entry created successfully” message was displayed * Entry with all details was visible in the table * Id: 2 * Name: Death Wish * Caffeine Level: high * Cost/lb: 0.87 * Bean Type: Robusta * Roast: french * Grind: whole-bean * Country of Origin: France   \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | On the available second entry, click on “Delete” button | Confirmation popup on top shall appear with message “Do you really want to delete a Coffee Bean Table entry?” | Confirmation popup on top appeared with message “Do you really want to delete a Coffee Bean Table entry?”  \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | On Confirmation popup, click “OK” button | The second entry shall be deleted from the table and “Coffee Bean Table entry deleted successfully” message shall be displayed | The second entry was deleted from the table and “Coffee Bean Table entry deleted successfully” message was displayed  \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Look the table entries. | * Home page shall be visible * 1 entry shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy | * Home page was visible * Home page shall be visible * 1 entry shall be visible in the table * Id: 1 * Name: Lavazza * Caffeine Level: medium * Cost/lb: 1.80 * Bean Type: Arabica * Roast: medium * Grind: fine * Country of Origin: Italy   \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
| **End of Test** | | | | |

| **Step No.** | **Operator Action** | **Expected Results** | **Actual Results** | **Pass / Fail** |
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| **SW\_INTEG\_5 – Test to verify Pagination functionality for a coffee bean table**  **Verifies SRS: SRS11** |

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|  | Open a browser and search for URL “127.0.0.1:8000/coffeeBeanTable” | | | |
|  | Wait for the page to be loaded on browser. | * Home Page shall be displayed * 1 entry shall be visible in the table * “Create a Coffee Bean Table Entry” button shall be available | * Home Page is displayed. * 1 entry was visible in the table * “Create a Coffee Bean Table Entry” button was available   \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Repeat steps in SW\_INTEG\_1 to add 7 more entries in the table. | | | |
|  | Look the table entries. | * Home page shall be visible * Total 6 entries shall be visible in the first page of the table * Pagination control shall be visible in the bottom of the table. | * Home page was visible * Total 6 entries were visible in the first page of the table * Pagination control was visible in the bottom of the table. \_\_yes\_\_(yes/no). | **Pass** / ~~Fail~~ |
|  | Click on Page “2” on pagination control. | Remaining 2 entries shall be visible in the second page of the table | Remaining 2 entries were visible in the second page of the table  \_yes\_\_\_(yes/no). | **Pass** / ~~Fail~~ |
| **End of Test** | | | | |

### Test Results

| **TEST STEPS** | **PASS / FAIL** |
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| **SW\_INTEG\_1** | **PASS** / ~~FAIL~~ |
| **SW\_INTEG\_2** | **PASS** / ~~FAIL~~ |
| **SW\_INTEG\_3** | **PASS** / ~~FAIL~~ |
| **SW\_INTEG\_4** | **PASS** / ~~FAIL~~ |
| **SW\_INTEG\_5** | **PASS** / ~~FAIL~~ |