A chocolate bar with a cherry logo

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Cherry Chocolate

Bachelor of Science in Software Design with Artificial Intelligence Cloud Computing

**Web Development 3.1**

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27/10/2023

# Introduction

The focus of the 2023 Web Development 3 project was the creation of an engaging Single Web Page Application (SPA) centered on user experience. The project prioritized meticulously structured architecture. It aimed to highlight the integration of RESTful web services and robust CRUD functionalities specifically tested using Postman.

# User Stories

1. As an admin I want to CREATE chocolate bar into database to add more to database.
2. As an admin I want to READ ALL chocolate bars from database to see how many there are.
3. As an admin I want to READ ONE chocolate bars table data.
4. As an admin I want to UPDATE chocolate bar to add more to database.
5. As an admin I want to DELETE chocolate bar data to add more to database.
6. As an admin I want to CREATE user data to add more to the database.
7. As an admin I want to READ ALL from users table data to see how many there are.
8. As an admin I want to READ ONE user table data to see how many there are.
9. As an admin I want to UPDATE users table data from database to data accurate.
10. As an admin I want to DELETE user bar data from database to add more to database.

# Testing

|  |  |
| --- | --- |
| User Story | As an admin I want to CREATE chocolate bar into database to add more to database. |
| Test ID | 1 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set POST request 2. 2. Enter URL <http://localhost/chocolateSprint/api/cbtable>   {      "name": "Created Raspberry Chocolate",      "price": 1.99,      "chocolate\_type": "Dark",      "taste": "Raspberry",      "sugar\_percent": 5.0,      "description": "New Raspberry taste dark chocolate"  }   1. 3. Press send |
| Then | HTTP status response 200. Message ID Successfully added. |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to READ ALL chocolate bars from database to see how many there are. |
| Test ID | 2 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL <http://localhost/chocolateSprint/api/cbtable> 3. 3. Press send |
| Then | All chocolate bar table data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to READ ONE chocolate bars from database to see how many there are. |
| Test ID | 3 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to UPDATE chocolate bar to add more to database. |
| Test ID | 4 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to DELETE chocolate bar data to add more to database. |
| Test ID | 5 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to CREATE user data to add more to the database. |
| Test ID | 6 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

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|  |  |
| --- | --- |
| User Story | As an admin I want to READ ALL from users table data to see how many there are. |
| Test ID | 7 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

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|  |  |
| --- | --- |
| User Story | As an admin I want to READ ONE user table data to see how many there are. |
| Test ID | 8 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

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|  |  |
| --- | --- |
| User Story | As an admin I want to UPDATE users table data from database to data accurate. |
| Test ID | 9 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |
| --- | --- |
| User Story | As an admin I want to DELETE user bar data from database to add more to database. |
| Test ID | 10 |
| Description | Using valid URL |
| Given | 1. The Application, Server and Database Server is running  2. Postman REST Client Opened |
| When | 1. 1. Set GET request 2. 2. Enter URL http://localhost/chocolateSprint/api/cbtable/11 3. 3. Press send |
| Then | ID 11 chocolate bar data displayed |
| Test Status | PASSED |

A screenshot of a computer

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|  |  |  |
| --- | --- | --- |
| Test Type | Number Passed | Number Failed |
| Manual | 10 | 0 |

Sample Bug Report

There are currently no known existing bugs in this project.

# Summary

The project represents a successful implementation and testing of CRUD functionalities for manipulating chocolate bar and user data within a database.

The comprehensive testing using Postman verified the project's efficiency in meeting the specified user stories and contributed towards delivering a dependable Single Web Page Application.

This endeavor served as a practical learning experience, offering insights into real-world application development, and emphasizing the critical role of rigorous testing in ensuring software reliability.