

**<Recipe Finder>
Test Plan
<COP4331, Fall, 2013>**

Modification history:

Version	Date	Who	Comment
v0.0	08/15/00	G. H. Walton	Template
v1.0	09/13/13	M. Bald	Initial entry of Introduction and Description of Test Environment
v1.1	09/14/13	M. Bald, J. Barnett	Updated Introduction and Description of Test Environment sections. Initial entry of Stopping Criteria and Test Cases
v1.2	09/19/13	M. Bald	Added test cases 5 thru 13
v1.3	09/23/13	M. Bald	Added test cases 14 thru 20
v1.4	9/24/13	J. Barnett	Formatting

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SECTION 1: Introduction

- The software test should include a comprehensive list of all possible scenarios involving a user interacting with the application
 - At the very minimum, it should test all scenarios where an error is possible (other than end-user errors).
- In addition to these scenarios, we should design tests that involve scenarios involving “strange” user interactions. This may lead to more test-case scenarios being formulated as the program design becomes more concrete.

Reference Documents:

- Concept of Operations **<include link here>**
- Project Plan **<include link here>**
- SRS **<include link here>**
- **<any other relevant documents; include full reference information or link>**

SECTION 2: Description of Test Environment

- Software will be a Windows Platform Application.
- The testing environment will be on a Windows OS, which is the only platform supported by our software
- We will test on various Windows based machines
 - The slowest machine it will be tested on will have a 2.33Ghz Dual Core Processor, 1GB RAM, and Windows 7. (Unless a slower machine becomes available)
- Main testers will be Matthew Bald and Josh Barnett
- Secondary testers will be Rachel Kinner, Vincenzo Marconi, Brian McCormick, Ronald Hyatt.
- Several people unaffiliated with the program production will assist with new-user testing.

SECTION 3: Stopping Criteria

- In the event of finding an error:
 - We will not stop testing each time we find an error, but rather:
 - Log the error and move on, unless it prevents us from proceeding to our other tests. In that case, testing ceases and all error logs are posted to the repository.
 - If the error is in an isolated case, where we can still run other tests, we will log the error and proceed through our other tests.
 - In the case of a minor error, such as a typo or cosmetic flaw, the tester will fix the

error. However, if the error is related to a sensitive section of the software, we will send the error to the programming team.

- If we have run through all of our test cases without error, we can conclude that the product is ready for delivery
- We define “good enough to deliver” as having no known bugs after running all of our test cases
 - However, if we are close to the product delivery deadline, and there is an error with a well-defined workaround or the error is purely cosmetic, we will still consider the software “good enough to deliver”.

SECTION 4: Description of Individual Test Cases

- Test 0:
 - Objective: To ensure that all recipes are in the database
 - Test description: Run a search with no checkboxes selected
 - Test conditions: No modes selected
 - Expected results: All recipe results should be displayed on the results screen
- Test 1:
 - Objective: To ensure that all checkboxes are selectable
 - Test description: Run a search with all checkboxes selected
 - Test conditions: Run in quick and easy, intermediate, and chef modes
 - Expected results: No results will be displayed with a message prompting the user that there were no results
- Test 2:
 - Objective: Test application installation
 - Test description: Download the executable file and run the program
 - Test conditions: N/A
 - Expected results: Application will open
- Test 3:
 - Objective: Test application close option
 - Test description: Run the program and close the program
 - Test conditions: N/A
 - Expected results: The program will exit
- Test 4:
 - Objective: Test application minimize option
 - Test description: Run the program and click the minimize button
 - Test conditions: N/A
 - Expected results: The program will minimize
- Test 5:
 - Objective: Test application maximize option
 - Test description: Run the program and click the maximize button
 - Test conditions: N/A

- Expected results: The program will maximize
- Test 6:
 - Objective: Test GUI tabs
 - Test description: Click all tabs in the program
 - Test conditions: N/A
 - Expected results: The tabs function properly
- Test 7:
 - Objective: Test every combination of checkboxes
 - Test description: To test if results are found for each combination
 - Test conditions: N/A
 - Expected results: All combinations return some result, even a “no recipe found” result
- Test 8:
 - Objective: Confirm that quick and easy mode functions properly
 - Test description: Check the quick and easy mode checkbox and no other checkboxes
 - Test conditions: N/A
 - Expected results: No recipes involving a preparation and cook-time greater than 10-15 minutes will be shown.
- Test 9:
 - Objective: Confirm that intermediate mode functions properly
 - Test description: Check the intermediate mode checkbox and no other checkboxes
 - Test conditions: N/A
 - Expected results: No recipes involving a preparation and cook-time greater than 30 minutes will be shown.
- Test 10:
 - Objective: Confirm that chef mode functions properly
 - Test description: Check the chef mode checkbox and no other checkboxes
 - Test conditions: N/A
 - Expected results: All recipes will be shown
- Test 11:
 - Objective: Confirm that all recipe links send the user to the correct recipe
 - Test description: Check no boxes to return every recipe. Individually test each recipe link
 - Test conditions: N/A
 - Expected results: All recipe results will link to the correct recipe
- Test 12:
 - Objective: To test vegetarian mode and the system handles a zero recipe result properly
 - Test description: Run a search in vegetarian mode with a meat ingredient selected
 - Test conditions: Run in intermediate, quick and easy, and chef modes

- Expected results: There should be 0 search results and a message prompting the user there were no results
- Test 13:
 - Objective: To test that the no-nut safety feature is functioning
 - Description: Run a search with no nuts and a nut ingredient selected
 - Test conditions: run in intermediate, quick and easy, and chef modes
 - Test expectations: There should be no results and a message prompting the user there were no results
- Test 14:
 - Objective: To test that the no-dairy safety feature is functioning
 - Test description: Run a search with no dairy and dairy ingredient selected
 - Test conditions: Run in intermediate, quick and easy, and chef modes
 - Test expectations: There should be no results and a message prompting the user there were no results
- Test 15:
 - Objective: To test the no-gluten safety feature
 - Description: Run a search with no gluten mode and an ingredient containing gluten selected
 - Conditions: Run in intermediate, quick and easy, and chef modes
 - Expectations: There should be no results and a message prompting the user there were no results
- Test 16:
 - Objective: To test the no-egg safety feature
 - Description: Run a search with no egg mode and egg ingredient selected
 - Conditions: Run in intermediate, quick and easy, and chef modes
 - Expectations: There should be no results and a message prompting the user there were no results
- Test 17:
 - Objective: Test the no-wheat safety feature
 - Description: Run a search with no wheat mode and a wheat ingredient selected
 - Conditions: Run in intermediate, quick and easy, and chef modes
 - Expectations: There should be no results and a message prompting the user there were no results
- Test 18:
 - Objective: Test the no-fish safety feature
 - Description: Run a search with no fish mode and a fish ingredient selected
 - Conditions: Run in intermediate, quick and easy, and chef modes
 - Expectations: There should be no results and a message prompting the user there were no results
- Test 19:
 - Objective: Test the no-shellfish safety feature
 - Description: Run a search with no shellfish mode and a shellfish ingredient selected

- Conditions: Run in intermediate, quick and easy, and chef modes
Expectations: There should be no results and a message prompting the user there were no results
- Test 20:
 - Objective: Test the no-soy safety feature
 - Description: Run a search with no soy mode and a soy ingredient selected
 - Conditions: Run in intermediate, quick and easy, and chef modes
Expectations: There should be no results and a message prompting the user there were no results

Template created by G. Walton (GWalton@mail.ucf.edu) on March 28, 1999 and last modified on August 15, 2000.

This page last modified by <Josh Barnett> (<jbarnett@knights.ucf.edu>) on <9/24/13>