Test Plan

for

Brew Day!

Version 1.0 approved

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Contents

Revision History

Name	Date	Reason For Changes	Version
Zhenghao Wu, Anqin Zha, Renjie Deng and Ruichao Zhong	2019-05-06	The First Version of test plan	1.0

1. Objectives

1.1 Modules under test

<Identify the modules or system under test.>
The module under test is recommend recipe of the program "Brew Day!"

1.2 References

<Give the file name of the document that is referred in this plan >
Z. H. Wu, et al., "Software Requirements Specification for Brew Day! Version 5.0" Apr. 2nd, 2019.

2. Testing levels and methods

2.1 Testing levels

<Describe if this is unit testing, integration testing, system testing or regression testing>
This test is system testing for the system "recommend recipes" of the program "Brew Day!"

2.2 Testing methods

<Describe the methods that are used in the testing: equivalence class testing, and/or boundary value testing and/or statement/branch/path testing, or load testing>
The testing methods will be black-box testing, testers will adapt equivalence class testing to test the system.

3. Test cases

<Describe what tests you have designed for this project. In this workshop, please give the test cases and some setting for testing here>

Test ID	Test case description	Expected result
1	Click the "recommend" button, there is no recipe in the database.	Cannot start "recommend recipe" function.
2	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is larger than 0 and less than volume of equipment, then select the recipe 1 and click "Brew" button.	Successfully brew according to the recipe 1 and generate a brew record in the database.
3	Click the "recommend" button, there is at least one recipe in the database and the ingredient	The system will pop out an error window.

	is enough, the batch size is less or equal than 0, then select the recipe 1 and click "Brew" button.	
4	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is larger than the volume of equipment, then select the recipe 1 and click "Brew" button.	The system will pop out a warning to tell user to modify the batch size.
5	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is larger than 0 and less than volume of equipment, then select the recipe 2 and click "Brew" button.	Successfully brew according to the recipe 2 and generate a brew record in the database.
6	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is less or equal than 0, then select the recipe 2 and click "Brew" button.	The system will pop out an error window.
7	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is larger than the volume of equipment, then select the recipe 2 and click "Brew" button.	The system will pop out a warning to tell user to modify the batch size.
8	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is larger than 0 and less than volume of equipment, then select the recipe 1 and click "Brew" button.	The system will generate a shopping list for missing ingredients of recipe 1.
9	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is less or equal to 0, then select the recipe 1 and click "Brew" button.	The system will pop out an error window.
10	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is larger than the volume of equipment, then select the recipe 1 and click "Brew" button.	The system will pop out a warning to tell user to modify the batch size.
11	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is larger than 0 and less than volume of equipment, then select the recipe 2 and click "Brew" button.	The system will generate a shopping list for missing ingredients of recipe 2.
12	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is less or equal to 0, then select the recipe 2 and click "Brew" button.	The system will pop out an error window.
13	Click the "recommend" button, there is at least one recipe in the database but the recipe is not enough, the batch size is larger than the volume of equipment, then select the recipe 2 and click "Brew" button.	The system will pop out a warning to tell user to modify the batch size.

14	Click the "recommend" button, there is at least one recipe in the database and the ingredient is enough, the batch size is larger than 0 and less than volume of equipment, click "Brew" button without a selection.	The system will pop out a warning to tell user to select a recipe.