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Test Plan, Test Design Specifications and Test Cases
Version 1

CENG 408
Innovative System Design and Development II

**SUMMER TRAINING
INFORMATION SYSTEM**

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1. INTRODUCTION

1.1 Version Control

Version No	Description of Changes	Date
1.0	First Version	May 5, 2020

1.2 Overview

Recommendation system of Cookhub will be tested for the recommended recipes are consistent to the users taste.

1.3 Scope

This document encapsulates the test plan of the use cases, test design specifications and the test cases correspond to test plan.

1.4 Terminology

Acronym	Definition
A.I.	Artificial Intelligence

Acronym	Definition
U.I.	User Interface

2. FEATURES TO BE TESTED

This section lists and gives a brief description of all the major features to be tested. For each major feature there will be a Test Design Specification added at the end of this document.

2.1 Artificial Intelligence (AI)

Artificial intelligence is used in Cookhub recommendations of recipes hence recommended data will be coherent.

2.2 User Interface (UI)

This part includes the test cases and test plan of user interface. User interface includes home page, search screen that divides to three, virtual fridge.

3. FEATURES NOT TO BE TESTED

The database will not be tested. The database includes all recipes and tags that is connected to the artificial intelligence.

4. ITEM PASS/FAIL CRITERIA

4.1 Exit Criteria

- 100% of the test cases are executed
- 90% of the test cases passed
- All High and Medium Priority test cases passed

5. REFERENCES

- [1] <https://github.com/CankayaUniversity/ceng-407-408-2019-2020-Cook-Hub/tree/master/Documents> , March 05, 2020

6. TEST DESIGN SPECIFICATIONS

6.1 User Interface (UI)

6.1.1 Subfeatures to be tested

6.1.1.1 Profile Image Button (UI.PIB_BTN)

User can click to image button to connect the profile page.

6.1.1.2 Recommended Food Image Buttons (UI.RFI_BTN)

User can see the ten most popular recipes. User can click any button to reach detail of that recipe.

6.1.1.3 Existing Ingredient Text Box (UI.EI_TEXT)

This text box shows existing ingredients in database.

6.1.1.4 Add Ingredient Drop Down List (UI.AI_DDL)

This drop down list shows all ingredients that can be added.

6.1.1.5 Add Ingredient Button (UI.AI_BTN)

This button adds the selected ingredient to the data base.

6.1.1.6 Search Panel (UI.SP)

User can choose from 3 different search methods which were : Search by Ingredient, Search by Tag, Search by Recipe.

6.1.1.6.1 Search by Ingredient Panel(UI.SP.SIP)

If user chooses the “Search by Ingredient”, users will encounter two search methods.

6.1.1.6.2 Enter Ingredients Button (UI.SP.SIP.EI)

If user chooses the “Enter Ingredients Button”, user will type the material name by hand. S/he will choose the materials s/he finds. Multisearch can be done here.

6.1.1.6.3 Virtual Fridge Button(UI.SP.STP.VF)

If user chooses the “Virtual Fridge Button”, drop down list will be opened below. This list shows the ingredients already exist in the refrigerator. Multisearch can be done here.

6.1.1.6.4 Search by Recipe Panel(UI.SP.SRP)

If user chooses the “Search by Recipe”, with the name of the meal s/he can reach the recipe directly.

6.1.1.6.5 Search by Tag Panel(UI.SP.STP)

If user chooses the “Search by Tag”, users will encounter an eye symbol.

6.1.1.7 Main Panel

6.1.1.7.1 Home Page Button (UI.HP_BTN)

User can click that button to connect homepage of Cookhub.

6.1.1.7.2 Search Page Button (UI.SP_BTN)

User can click that button to connect Search Page of Cookhub.

6.1.1.7.3 Virtual Fridge Page Button (UI.VF_BTN)

User can click that button to connect Virtual Fridge page of Cookhub.

6.1.1.7.4 Shopping List Page Button (UI.SL_BTN)

User can click that button to connect Shopping List page of Cookhub.

6.1.1.7.5 Favourites Page Button (UI.FP_BTN)

User can click that button to connect Favourites Page of Cookhub.

6.1.2 Test Cases

TC ID	Requirements	Priority	Scenario Description
UI.PIB_BTN.01	3.2	M	Click to image button to connect the profile page.
UI.RFI_BTN.01	3.2	H	Click any button to reach detail of recommended recipe.
UI.EI_TEXT.01	3.2	H	Program should shows the existing ingredients in database.
UI.AI_DDL.01	3.2	H	Drop down list shows all ingredients that can be added.
UI.AI_BTN.01	3.2	H	Button adds the selected ingredient to the data base

TC ID	Requirements	Priority	Scenario Description
UL.SP.SIP.01	3.2	H	If user chooses the “Search by Ingredient”, users will encounter two search methods
UL.SP.SIP.EI.01	3.2	H	If user chooses the “Enter Ingredients Button”, user will type the material name by hand. S/he will choose the materials s/he finds. Multisearch can be done here.
UL.SP.STP.VF.01	3.2	H	If user chooses the “Virtual Fridge Button”, drop down list will be opened below. This list shows the ingredients already exist in the refrigerator. Multisearch can be done here.
UL.SP.SRP.01	3.2	H	If user chooses the “Search by Recipe”, with the name of the meal s/he can reach the recipe directly.

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UI.SP.STP.01	3.2	H	If user chooses the “Search by Tag”, users will encounter an eye symbol.
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TC ID	Requirements	Priority	Scenario Description
UI.HP_BTN	3.2	H	User can click that button to connect homepage of Cookhub.
UI.SP_BTN	3.2	H	User can click that button to connect Search Page of Cookhub.
UI.VF_BTN	3.2	H	User can click that button to connect Virtual Fridge page of Cookhub.
UI.SL_BTN	3.2	H	User can click that button to connect Shopping List page of Cookhub.
UI.FP_BTN	3.2	H	User can click that button to connect Favourites Page of Cookhub.

7. Detailed Test Cases

7.1 UI.PIB_BTN.01

TC_ID	UI.PIB_BTN.01
Purpose	Click to image button to connect the profile page.
Requirements	3.2
Priority	High.
Estimated Time Needed	Less than 1 minute
Dependency	User should be registered.
Setup	An admin user should be created.
Procedure	[A01] Go to home page.
	[A02] Click to “Image” button.
	[V01] Observe that user’s profile page.
	-
	-
	-
Cleanup	Go back to previous page (Home Page).

7.2 UI.RFI_BTN.01

TC_ID	UI.RFI_BTN.01
Purpose	Click any button to reach detail of that recommended recipes.
Requirements	3.2
Priority	High.
Estimated Time Needed	45 sec.
Dependency	User should chose tags.
Setup	User should chose some tags for find a recipe.
Procedure	[A01] Chose any attributes from tag list for define the food.
	[A02] Click a food image from recommendations (results of elimination by tag filtering)
	[V01] Observe that the detail of recipe.
	-
	-
	-
Cleanup	Exit from the page.

7.3 UI.EI.TEXT.01

TC_ID	UI.EI.TEXT.01
Purpose	See the existing ingredients in database.
Requirements	3.2
Priority	High
Estimated Time Needed	1 minute
Dependency	Ingredients successfully added in database.
Setup	Find the ingredients from database.
Procedure	[A01] Go to virtual fridge page.
	[V01] Observe that the added ingredients is successfully opened and appears
Cleanup	Exit

7.4 UI_AI_DDL.01

TC_ID	UI_AI_DDL.01
Purpose	See the drop down list shows all ingredients that can be added.
Requirements	3.2
Priority	High
Estimated Time Needed	1 minute
Dependency	Ingredients successfully added in database.
Setup	Find the ingredients from database.
Procedure	[A01] Go to virtual fridge page.
	[A02] Click the drop down list
	[V01] Observe that the added ingredients is successfully opened and appears
Cleanup	Exit

7.5 UI.AI_BTN.01

TC_ID	UI.AI_BTN.01
Purpose	Button adds the selected ingredient to the data base
Requirements	3.2

Priority	High
Estimated Time Needed	1 minute
Dependency	UI_AI_DDL.01 and UI.EI.TEXT.01 test cases should pass.
Setup	Select the ingredients from drop down list.
Procedure	[A01] Go to virtual fridge page.
	[A02] Click the drop down list
	[A03] Select the ingredients
	[A04] Click the Add Ingredient button
	[V01] Observe that the selected ingredients is successfully added to database
Cleanup	Exit

7.6 UI.SP.SIP.01

TC_ID	UI.SP.SIP.01
Purpose	Search food by selecting ingredients
Requirements	3.2
Priority	High
Estimated Time Needed	Less than 1 minute
Dependency	Ingredients successfully added in database.
Setup	Click Search Page (magnifying glass image) button
Procedure	[A01] Go to search page.
	[A02] Select Search by Ingredient.
	[A03] Select the ingredients
	[A04] Click the search button
	[V01] Observe that the recipes appears according to selecting ingredients.
	-
Cleanup	Exit

7.7 UI.SP.SIP.EI.01

TC_ID	UI.SP.SIP.EI.01
Purpose	The user can select the ingredients that s/he wants by entering manually.
Requirements	3.2
Priority	High

Estimated Time Needed	30 sec.
Dependency	The ingredients that the user searches for must be in the database.
Setup	Click “Enter Ingredients” button.
Procedure	[A01] Click Search by Ingredient Page.
	[V01] Observe that two search methods on this page.
	[A02] Click “Enter Ingredients” button.
	[A03] Type any ingredients by hand.
	[A04] If they exist, chose them by clicking.
	[A05] Click Search button.
Cleanup	Go to the previous page.

7.8 UI.SP.STP.VF.01

TC_ID	UI.SP.STP.VF.01
Purpose	This page shows the ingredients already exist in the refrigerator.
Requirements	3.2
Priority	High
Estimated Time Needed	1 minute
Dependency	Successful connection between databases that named “Virtual Fridge” at background.
Setup	Click “Virtual Fridge” button.
Procedure	[A01] Click Search by Ingredient Page.
	[V01] Observe that two search methods on this page.
	[A02] Click “Virtual Fridge” button.
	[V02] Observe that a drop down list that shows ingredients already exist in refrigerator.
	[A03] Chose ingredients.
	[V03] Observe that recipe recommendations that include these ingredients.
Cleanup	Go to the previous page.

7.9 UI.SP.SRP.01

TC_ID	UI.SP.SRP.01
Purpose	User can search a recipe with the name of the meal s/he can reach directly.
Requirements	3.2
Priority	High

Estimated Time Needed	30 sec.
Dependency	The recipe the user searched for should be in the database.
Setup	Click “Search by Recipe” button.
Procedure	[A01] Click Search Page.
	[A02] Select “Search by Recipe” page.
	[A03] Type a recipe name by hand.
	[A04] If it is exist, chose it by clicking.
	[V01] Observe that recipe details.
	-
Cleanup	Exit

7.10 UI.SP.STP.01

TC_ID	UI.SP.STP.01
Purpose	It makes it easier for the user to find recipes in the desired features.
Requirements	3.2
Priority	High
Estimated Time Needed	1 minute
Dependency	The recipe the user searched for should be in the database.
Setup	Click “Search by Tag” button.
Procedure	[A01] Select “Search by Tag” page.
	[A02] Click “Enter Tag” button.
	[V01] Observe that a text box to enter a tag by hand.
	[A03] Click “Eye” icon to see all tags.
	[A04] Click “Search” button.
	[V02] Observe that recipe recommendations that include these tags.
Cleanup	Exit

7.11 UI.HP_BTN.01

TC_ID	UI.HP_BTN.01
Purpose	Click that button to connect homepage.
Requirements	3.2
Priority	High

Estimated Time Needed	20 sec
Dependency	
Setup	Click “Home Page” button (house icon)
Procedure	[A01] Select “Home Page” button.
	[V01] Observe that a profile picture and top ten recipe recommendations.
	-
	-
	-
Cleanup	Select another page button from main panel.

7.12 UI.SP_BTN.01

TC_ID	UI.SP_BTN.01
Purpose	Click that button to connect Search Page.
Requirements	3.2
Priority	High
Estimated Time Needed	20 sec
Dependency	
Setup	Click “Search” button (magnifying glass icon)
Procedure	[A01] Select “Search Page” button.
	[V01] Observe that three searching methods.
	-
	-
	-
Cleanup	After selecting a search method, a new page will be opened.

7.13 UI.VF_BTN.01

TC_ID	UI.VF_BTN.01
Purpose	Click that button to connect Virtual Fridge Page.
Requirements	3.2
Priority	High

Estimated Time Needed	20 sec
Dependency	
Setup	Click “Virtual Fridge” button (box icon)
Procedure	[A01] Select “Virtual Fridge” button.
	[V01] Observe that a list that contains existing ingredients and a button to add new ingredients to fridge.
	-
Cleanup	Select another page button from main panel.

7.14 UI.SL_BTN.01

TC_ID	UI.SL_BTN.01
Purpose	Click that button to connect Shopping List Page.
Requirements	3.2
Priority	High
Estimated Time Needed	20 sec
Dependency	
Setup	Click “Shopping List” button (supermarket trolley icon)
Procedure	[A01] Select “Shopping List” button.
	[V01] Observe that a check list that contains missing ingredients.
	[A02] Click “Add Ingredients” button to add missing ingredients of recipe.
	[A03] Click “Apply the Virtual Fridge” to complete shopping list and confirm new virtual fridge with purchased materials.
	[A03] Click “Delete Shopping List” to complete process or to quit.
	-
Cleanup	Exit

7.15 UI.FP_BTN.01

TC_ID	UI.FP_BTN.01
Purpose	Click that button to connect Favorite Recipes Page.

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Requirements	3.2
Priority	High
Estimated Time Needed	20 sec
Dependency	User must have already cook the recipe or s/he chose the recipes as favorite to cook it later..
Setup	User should create a tab that contains a list of favorite recipes.
Procedure	[A01] Click “Create a Tab” button (User can rename this tab later).
	[A02] Add recipes that have already cooked ones (or designed to cook later) to list as favorites.
	[V01] Observes that a favorite recipes list.
	-
Cleanup	Select another page button from main panel.