**HDip Summer Project ITT Dublin Summer 2015**

**Analysis Document**

**Title: Cheap As Chips**

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***Description:***

A recipe Website aimed at students, with a database of cheap and nourishing recipes for those on a tight budget.

***Use Cases:***



***Use Case:***

Website User requires list of recipes by s specific ingredient.

e.g. All chicken recipes

***Id****:* UC- 1

***Description:***

e.g. Website user browses to website and searches for a list of recipes containing chicken. He enters his search query. The MVC application queries the database and returns a list of relevant recipes.

***Level:***

High

***Primary Actor:***

Website User

***Supporting Actors:***

MVC Application

Azure database

***Stakeholders and Interests:***

None

***Pre-Conditions***

Internet connection, Azure database and MVC application are running.

***Post Conditions***

***Success end condition***

User gets a web page with a list of relevant ingredients, with the option to select a particular recipe or search again.

***Failure end condition:***

No recipes found.

User should receive a relevant notification and be returned to the search screen.

***Minimal Guarantee***

User will always be returned to the home screen or the search screen

***Trigger***

User clicks “search by ingredients”

## *Main Success Scenario:*

1. Customer clicks “search by ingredient”
2. MVC application request recipe list details from the azure database
3. Azure database finds recipes and returns them to MVC
4. MVC app creates a web page using the details
5. User is presented with the page
6. User is given an option to select a particular recipe or search again or return to home page

***Alternate Scenario:***

1. Azure database finds no recipes and reports back to MVC
2. MVC app creates a web page informing user that no recipes exist
3. User is presented with the page
4. User is given an option to search again or return to home page

***Frequency:***

This is expected to be the most frequent action requested by the user.

***Assumptions:***

The user knows what ingredient he wants to cook. It must be noted that the user may also want to search in other ways, such as by recipe name e.g. chicken casserole or by ethnicity e.g. Spanish food or Indian food.

***Use Case 2***



***Use Case:***

User selects recipe from a list (see above)

***Id****:* UC 2

***Description:***

User selects a particular recipe from a list of recipes, MVC app request recipe details from the Azure database, details are returned to MVC. MVC creates a web page for the specific recipe

***Level:* High**

***Primary Actor:***

Website User

***Supporting Actors:***

MVC Application, Azure database

***Pre-Conditions:***

Internet connection, Azure database and MVC application are running.

***Success end condition:***

User gets a web page with the recipe including all instructions ingredients and images (number of images = 3) with an option to return home.

***Failure end condition:***

Recipe not found.

User should receive a relevant notification and be returned to the search screen

NB If this happens we need to investigate why the recipe was listed if it did not exist.

***Minimal Guarantee:***

User will always be returned to the home screen or the search screen

***Trigger***

User selects recipe from a list.

## *Main Success Scenario*

1. User selects a recipe from the list
2. MVC requests recipe details from Azure database
3. Azure database returns recipe details
4. MVC creates web page for that recipe
5. User gets returned recipe page

***Alternate Scenario:***

1. MVC requests recipe details from Azure database
2. Recipe does not exist
3. MVC creates web page informing user and giving the option to select again

***Frequency*:**

This will be one of the most frequent use cases

***Use Case 3:***



***Use Case*:** Add a Recipe

***Id***: UC-3

***Description:***

A registered user wants to add a recipe to the database.

User clicks “add recipe”, MVC checks is he registered and returns a form to add the recipe, user completes the form including adding images if he has them. MVC validates the recipe and adds to the database

***Level Medium Level***

Not all users will want to add recipes.

***Primary Actor:***

Registered Website User.

***Supporting Actors:***

MVC Application, Azure database

***Stakeholders and Interests:***

**Website/ Database Admin.**

It is important to maintain the integrity of the database and check everything is in the correct standardised format to enable the correct publication of the recipe.

***Pre-Conditions:***

Internet connection, Azure database and MVC application are running

***Success end condition***

User successfully adds their recipe to the database

***Failure end condition:***

Recipe not added.

User should receive a relevant notification and be returned to the original form showing his recipe with the relevant section highlighted, or the reason stated e.g. Recipe title already exists.

***NB*** If this happens we need to investigate why the recipe was listed if it did not exist.

***Minimal Guarantee***

User will always be returned to the home screen.

***Trigger***

User selects “create recipe” option

## *Main Success Scenario*

1. User selects “create recipe” option from the home or search screen
2. MVC checks if user is registered
3. MVC returns the “create recipe” page/form
4. User enters details and uploads images if they exist
5. MVC validates input and commits the recipe to the database
6. MVC returns a success message page with the options to add another recipe or return home

## *Alternate Scenario:*

User Not Registered

1. User is not registered
2. MVC returns the Register page with an appropriate message
3. User registers
4. MVC returns the “create recipe” page/form
5. User enters details and uploads images if they exist
6. MVC validates input and commits the recipe to the database
7. MVC returns a success message page with the options to add another recipe or return home

**NB**. The user may not want to register so they must have an option to return to the search or home page (which may be the same page)

***Frequency:***

It is expected that this will account for no more than 5% of the activity on the website.

*Class Diagram representing the model classes for MVC Recipe website.*



***Bibliography:***

Use case template http://www.technosolutions.com/use\_case\_template.html

All diagrams created using Microsoft Visio 2007

<https://schema.org/Recipe> invaluable source of help in creating the schema