

## Criterion B: Design

<b><u>Recipes Methodology</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
Recipe_ID	AutoNumber	Yes	Unique number assigned to Recipes listed	Primary Key
Recipe_Name	Short Text	Yes	Name of the Recipe listed	-
Procedure	Long Text	Yes	A step by step procedure of how to make the recipe	-
Cooking_time	Short Text	No	Estimated time it will take for the mentioned recipe to cook	-
Date_added	Date/Time	No	The date when the Recipe was added to the database	-
Prep_time	Short Text	No	Estimated time it will take for the mentioned recipe to Prepare	-
Serves	Number	No	The number of servings the recipe is to provide	-
Cuisine_ID	Number(lookup)	No	Complete list of all Cuisine ID	Foreign Key from 'Cuisine'
Category_ID	Number(lookup)	No	Complete list of all Cuisine ID	Foreign Key from 'Category'

<b><u>Categories</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
Category_ID	AutoNumber	Yes	Unique number assigned to Category listed	Primary Key
Category_Name	Short Text	Yes	Name of the Categories listed	-
Category_Description	Short Text	No	Description of the category listed	-

<b><u>Cuisine</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
Cuisine_ID	AutoNumber	Yes	Unique number assigned to Cuisine listed	Primary Key
Country	Short Text	Yes	Name of the Cuisine listed	-
Continent	Short Text	No	The name of the continent from which the listed cuisine originated	-

<b><u>Ingredients</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
Ingredients_ID	AutoNumber	Yes	Unique number assigned to Ingredients listed	Primary Key

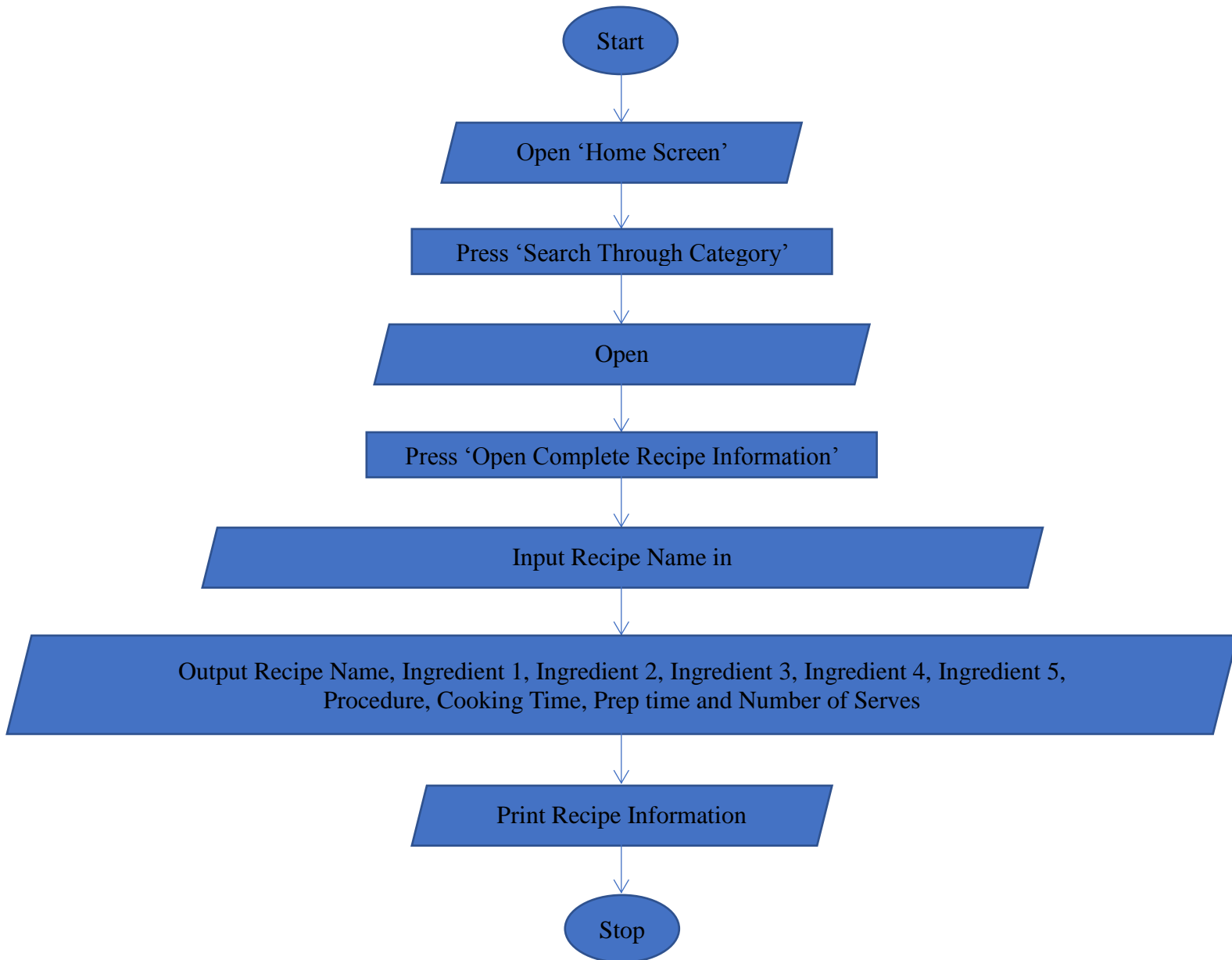
Ingredient_Name	Short Text	Yes	Name of the Ingredient listed	-
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<b><u>Recipe Information</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
ID	AutoNumber	Yes	Unique number assigned to ID listed	Primary Key
Recipe_Name	Short Text	Yes	Name of the Recipe listed	-
Ingredient_1	Number(lookup)	Yes	An ingredient of the listed recipe	Foreign Key from 'Ingredients'
Ingredient_2	Number(lookup)	Yes	An ingredient of the listed recipe	Foreign Key from 'Ingredients'
Ingredient_3	Number(lookup)	Yes	An ingredient of the listed recipe	Foreign Key from 'Ingredients'
Ingredient_4	Number(lookup)	Yes	An ingredient of the listed recipe	Foreign Key from 'Ingredients'
Ingredient_5	Number(lookup)	Yes	An ingredient of the listed recipe	Foreign Key from 'Ingredients'

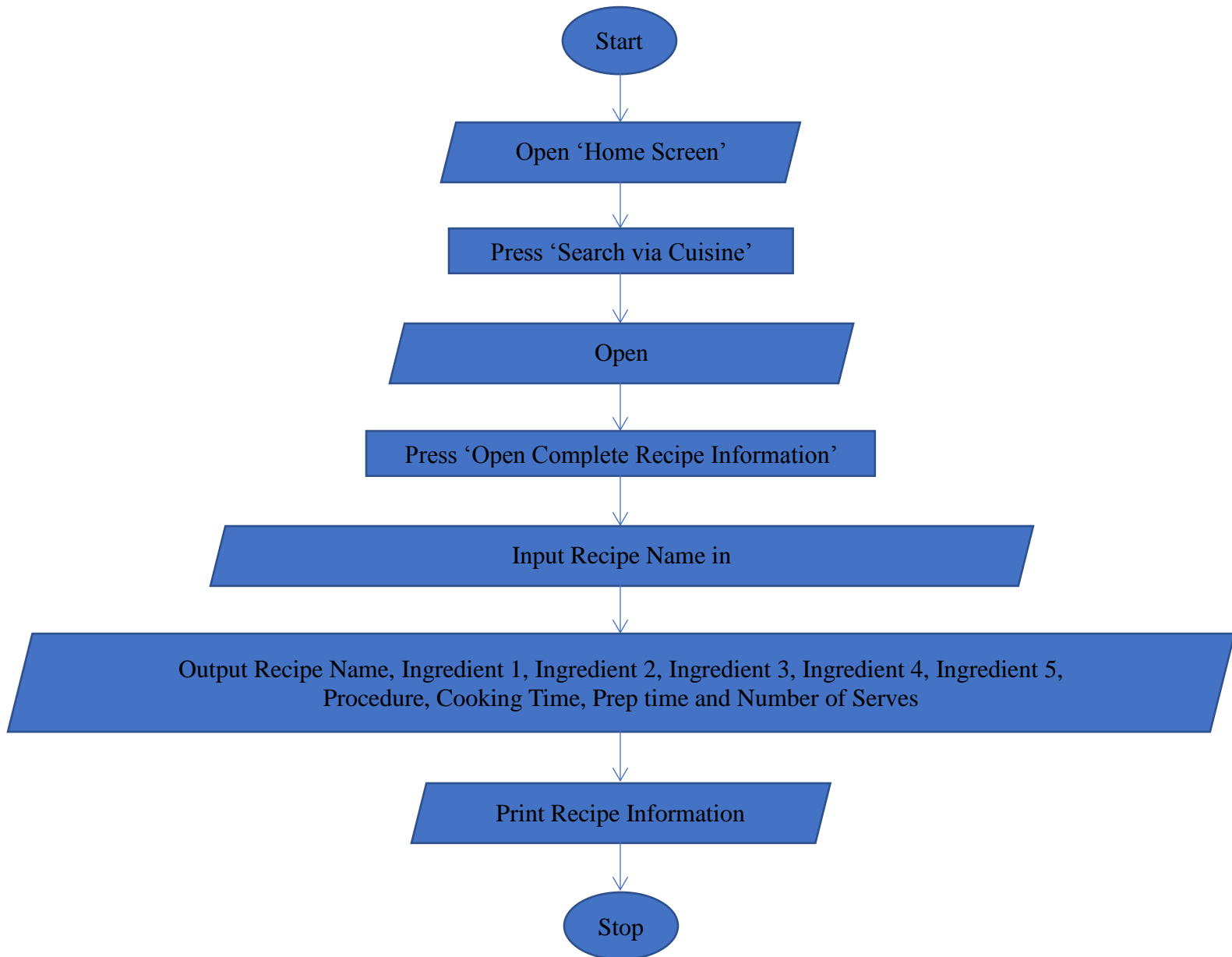
<b><u>Ingredients of Recipes</u></b>				
<b>Field Name</b>	<b>Data Type</b>	<b>Required?</b>	<b>Description</b>	<b>Other Information</b>
ID	AutoNumber	Yes	Unique number assigned to ID listed	Primary Key
Recipe_Name	Short Text	Yes	Name of the Recipe listed	-
Ingredient_1	Number(lookup)	Yes	Complete list of required ingredients	Foreign Key from 'Ingredients'
Ingredient_2	Number(lookup)	Yes	Complete list of required ingredients	Foreign Key from 'Ingredients'
Ingredient_3	Number(lookup)	Yes	Complete list of required ingredients	Foreign Key from 'Ingredients'
Ingredient_4	Number(lookup)	Yes	Complete list of required ingredients	Foreign Key from 'Ingredients'
Ingredient_5	Number(lookup)	Yes	Complete list of required ingredients	Foreign Key from 'Ingredients'

## Flow Charts of Functions

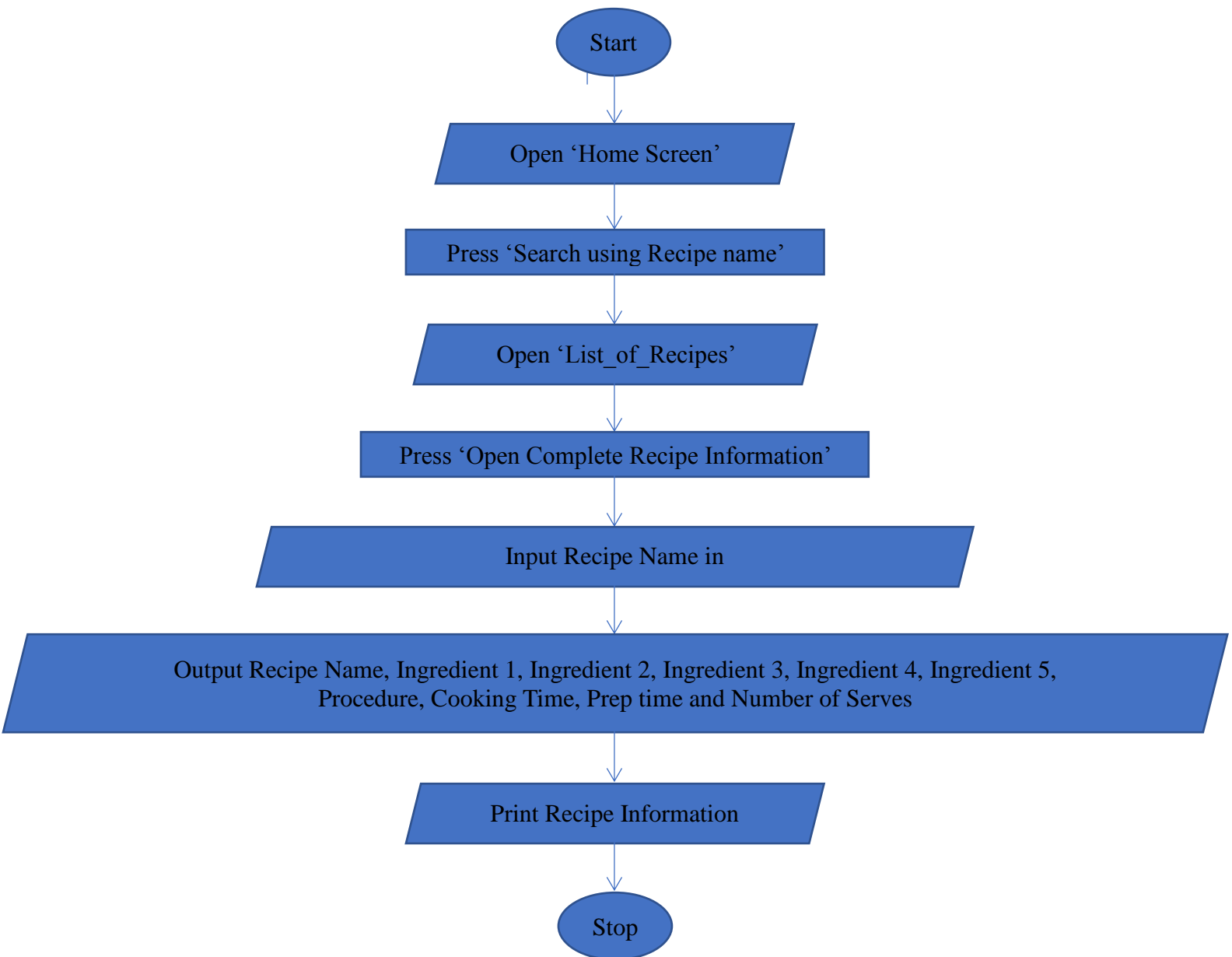
### 1. Searching Recipe Information Through Categories



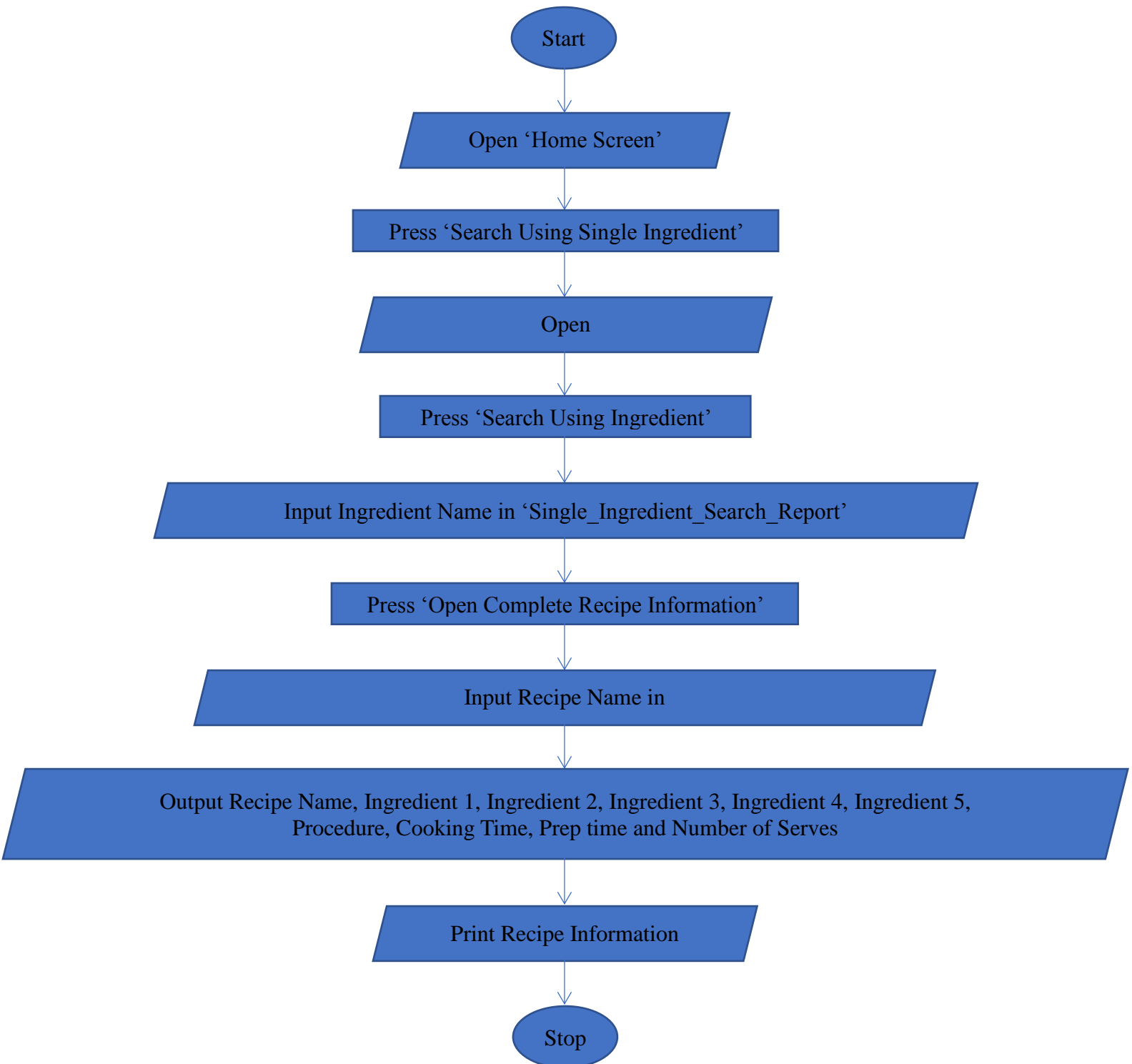
## 2. Searching Recipe Information via Cuisine



### 3. Searching Recipe Information using Name



#### 4. Searching Recipe Information Using Single Ingredient Input



## 5. Searching Recipe Information Using Multiple Ingredient Input



## System Test Plan

Test	Description	Example
Data Search Test	The queries that have been created to output corresponding information once a record is input, need to be checked to see if they perform their function properly and output the information of the record entered and no other. Additionally, another thing that needs to be seen is whether the system will output data of a record if abnormal data or extreme data is input or not.	The Query that prompts the user to input the name of the 'ingredient'. The user inputs 'Wheat' into the prompt. The system then creates a report which lists all recipes that use 'Wheat' as an ingredient. The next step of the check is to use an abnormal value. In the user prompt asking to input the name of the 'ingredient', we can check by entering 'Car'. Since this is not an ingredient, there will be no result of the search query. The final test is of extreme data, where when 'Lamb' is entered in the user prompt, the search algorithm gives no result. This is because lamb is an ingredient, but it is not in the database.
Testing Functions in User Interface Forms/Reports	Buttons on forms and reports have macros embedded within that enable them to perform a function. A test has to be run to ensure all buttons run the designated macros and perform their function properly.	On the home page, the button 'Search via Cuisine' should direct the user towards the 'Cuisine_Information_Report' by opening the report and closing the home page. Another function is to 'Print Recipe', visible on many reports, which once clicked initiates the print command to print the report.