

# **BCRITW**

#### README.md

#### **BCRITW**

Best Cooking Recommender In The World.

Just a **Prolog** project for the college.

#### Introduction

In this CLI-Based program, you are supposed to tell it what are the ingredients you have (by answering yes/no questions), and it'll recommend you some meals to cook with these ingredients.

Good Look!

### Requirements

SWI-Prolog

#### How To Run

Type the following on your terminal:

- cd <project-folder-path>
- swipl main.pl

(do not forget to replace ct-folder-path> with the actual path)

Then type run. to run the program.

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## main.pl

```
1 :- include('meals.pl').
2
3 run :-
4    print_welcome,
5    meals(Meals),
6    check_meals(Meals),
7    exit.
```

## **BCRITW**

```
9
   print welcome :-
       write('****************************, nl,
10
                        B-C-R-I-T-W
                                            *'), nl,
11
       write('***********************, nl,
12
13
       nl.
14
15
   check_meals([]) :-
       write('You cannot cook anything else!'), nl,
16
17
       nl.
   check meals([H|T]) :-
18
       check meal(H),
19
20
       check meals(T).
21
   check_meal([MealName, Ingredients]) :-
22
23
       check ingredients(Ingredients),
24
       write('* You can cook '), write(MealName), write(' *'), nl,
25
26
       nl,
27
       ask to complete.
28
29
   check_meal(_). % it will always return `true`, even if
    `check ingredients` returns `false`.
30
31
   check_ingredients([]).
32
   check_ingredients([H|T]) :-
33
       check ingredient(H)
34
       check ingredients(T).
35
   check ingredient(Ingredient) :-
36
37
       ves(Ingredient) -> true ;
       no(Ingredient) -> fail ;
38
39
       ask about(Ingredient).
40
   ask_about(Ingredient) :-
41
42
       write('Do you have '), write(Ingredient), write('? [y/n]: '),
       read(Reply),
43
44
       (
           (Reply == y; Reply == yes) -> assert(yes(Ingredient)), true ;
45
           (Reply == n; Reply == no) -> assert(no(Ingredient)), fail;
46
           write('Invalid answer! (write \'yes.\' or \'no.\')'), nl,
47
           ask about(Ingredient)
48
49
       ).
50
51 ask_to_complete :-
```

# **BCRITW**

```
write('* Do you want to complete? [y/n]: '),
52
53
       read(Reply),
54
           (Reply == y; Reply == yes) -> true ;
55
56
           (Reply == n; Reply == no) -> exit;
57
           write('Invalid answer! (write \'yes.\' or \'no.\')'), nl,
58
           ask to complete
59
       ).
60
   :- dynamic yes/1, no/1.
61
62
63
   undo :-
       retract(yes(_)),
64
65
       fail.
66
   undo :-
       retract(no( )),
67
68
       fail.
69
   undo.
70
   exit :-
71
72
       undo,
73
       nl,
       write('**************************, nl,
74
       write('* Thanks For Using This App *'), nl,
75
       write('************************'), nl,
76
77
       nl.
78
       halt.
```

## meals.pl

```
1
   meals([
       ['Labania', ['Yogurt', 'Rice', 'Meat', 'Spices', 'Garlic', 'Egges']],
2
3
       ['Kebbah', ['Spices', 'Meat', 'Onion', 'Bulgur']],
       ['Bamia', ['Spices', 'Meat', 'Tomato Souce', 'Okra', 'Bread']],
4
       ['Safargeliah', ['Spices', 'Meat', 'Tomato Souce', 'Quince']],
5
       ['Mehshi', ['Spices', 'Meat', 'Vegetables', 'Rice']],
6
       ['Mulukhiyah', ['Spices', 'Meat', 'Garlic', 'Mulukhiyah Leaves']],
7
       ['Fasolia', ['Spices', 'Meat', 'Tomato Souce', 'Garlic', 'Beans']],
8
       ['Mjadarah', ['Onion', 'Rice', 'Lentil']],
10
       ['Spaghetti', ['Spices', 'Tomato Souce', 'Vegetables',
   'Macaroni']],
       ['Yabraq', ['Spices', 'Meat', 'Garlic', 'Rice', 'Grape Leaves']],
11
       ['Orman-Blaban', ['Spices', 'Meat', 'Butter', 'Yogurt', 'Corn
12
   Starch', 'Egges']]
13
  1).
```