



# Meal Decider



T1A3 - Terminal Application

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# Code logic

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1 from datetime import datetime
2 import json
3 import random
4 from colorama import init
5 init()
6
7 # Definitions
8
9 # Date and time and display format
10 today = datetime.today()
11 now = datetime.now()
12 hour = now.hour
13 date = today.strftime("%A %B %d, %Y")
14 time = now.strftime("%H:%M %p")
15
16 # Side dish questions and outputs
17 agree = '\033[34m""\nHere is a side dish to go with your meal!\n""\033[39m'
18 disagree = '\033[35m""\nNo problems, bon Apetit! Buen Provecho and Enjoy your meal!\n""\033[39m'
19 wish = '\033[35m""Bon Apetit! Buen Provecho! Enjoy your meal!\n""\033[39m'
20 herbivore = "Vegetarian"
21 veg = ('\033[33m""\nOK here is a mouthwatering (herbivore) meal:\n""\033[39m')
22 meat = ('\033[33m""\nOK here is a succulent meal:\n""\033[39m')
23 proteins = "\n\n - Beef\n - Lamb\n - Chicken\n - Seafood\n\n"
24 protein_option = ''
25 side_dish = ''
26 diet = ''
27 random_choice = ''
28
29 # Greetings
30 morning = ('\033[33m""\nGood morning! Today is {date}. The time is {time}. \nIt's breakfast time! Let's find a delicious meal to eat!\n""\033[39m')
31 afternoon = ('\033[33m""\nGood afternoon! Today is {date}. The time is {time}. \nIt's lunch time! Let's find a delicious meal to eat!\n""\033[39m')
32 evening = ('\033[33m""\nGood evening! Today is {date}. The time is {time}. \nIt's dinner time! Let's find a delicious meal to eat!\n""\033[39m')
33
34 # Opening and reading json file
35 with open('meals.json', 'r') as openfile:
36     json_object = json.load(openfile)["meals"]
37

```

- Imported modules
- Date and time format
- Output definitions
- Time of day greetings
- Opening and reading JSON

- 
- Declaring the functions
  - Conditional code for opening greeting

```
38 # Functions
39 def side_disagree(disagree):
40     print(disagree)
41
42 def side_agree(agree):
43     print(agree)
44
45 def bon_apetit(wish):
46     print(wish)
47
48 def morning_greeting(morning):
49     print("{}".format(morning))
50
51 def afternoon_greeting(afternoon):
52     print("{}".format(afternoon))
53
54 def evening_greeting(evening):
55     print("{}".format(evening))
56
57 def random_meal():
58     return random.choice(json_object)
59
60 def order_up_veg(veg):
61     print("{}".format(veg))
62
63 def order_up_meat(meat):
64     print("{}".format(meat))
65
66 # Conditional greeting based on the current time
67 if hour < 12:
68     morning_greeting(morning)
69 elif hour < 18:
70     afternoon_greeting(afternoon)
71 else:
72     evening_greeting(evening)
73
```

```

74 # Random meal selection question and conditionals
75 while True:
76     random_choice = input('\033[31m"\nWould you like me to choose a random meal for you? (yes/no): '\033[39m').lower()
77     if random_choice in ('yes', 'no'):
78         break
79     if random_choice == 'yes':
80         print('\033[36m"\nYour randomly selected meal is: '\033[39m'+ random_meal()["mealName"])
81     while True:
82         go_on = input('\033[31m"\nWould you like to continue choosing a meal? (yes/no): '\033[39m').lower()
83         if go_on in ('yes', 'no'):
84             break
85     if go_on == 'yes':
86
87 # Vegetarian meals
88     while True:
89         diet = input('\033[31m"\nDo you eat meat? (yes/no): '\033[39m').lower()
90         if diet in ('yes', 'no'):
91             break
92     elif go_on == 'no' and random_choice == 'no':
93         print('\033[33m"\nThank you, see you next time!\033[39m')
94     else:
95         bon_apetit(wish)
96
97 # Vegetarian breakfast
98 if go_on == 'yes' and diet == 'no' and hour < 12:
99     order_up_veg(veg)
100     print(json_object[0]["mealName"])
101     while True:
102         side_dish = input('\033[31m"\nWould you like a side dish to accompany your meal? (yes/no): '\033[39m').lower()
103         if side_dish in ('yes', 'no'):
104             break
105         if side_dish == 'yes' and diet == "no" and hour < 12:
106             side_agree(agree)
107             print(json_object[1]["mealName"])
108             bon_apetit(wish)
109         elif side_dish == 'no':
110             side_disagree(disagree)
111

```

- Random meal selection
- Vegetarian meals

- Vegetarian lunch
- Vegetarian dinner

```
112 # Vegetarian lunch
113 elif diet == 'no' and hour < 18:
114     order_up_veg(veg)
115     print(json_object[2]["mealName"])
116     while True:
117         side_dish = input('\033[31m"\nWould you like a side dish to accompany your meal? (yes/no): "\033[39m').lower()
118         if side_dish in ('yes', 'no'):
119             break
120     if side_dish == 'yes' and diet == "no" and hour < 18:
121         side_agree(agree)
122         print(json_object[3]["mealName"])
123         bon_apetit(wish)
124     elif side_dish == 'no' and hour < 18:
125         side_disagree(disagree)
126
127 # Vegetarian dinner
128 elif diet == 'no' and hour > 18:
129     order_up_veg(veg)
130     print(json_object[12]["mealName"])
131     while True:
132         side_dish = input('\033[31m"\nWould you like a side dish to accompany your meal? (yes/no): "\033[39m').lower()
133         if side_dish in ('yes', 'no'):
134             break
135     if side_dish == 'yes' and diet == "no" and hour > 18:
136         side_agree(agree)
137         print(json_object[13]["mealName"])
138         bon_apetit(wish)
139     elif side_dish == 'no' and hour > 18:
140         side_disagree(disagree)
```

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141
142 # Protein meals
143 if diet == 'yes':
144     while True:
145         protein_option = input('\033[32m'\nOK let's find you a delicious meal.\nChoose from the following protein options: {proteins}''\033[39m').lower()
146         if protein_option in ('beef', 'lamb', 'chicken', 'seafood'):
147             break
148
149 # Beef lunch
150 if protein_option == "beef" and hour < 18:
151     order_up_meat(meat)
152     print(json_object[4]["mealName"])
153     while True:
154         side_dish = input('\033[31m'\nWould you like a side dish to accompany your meal? (yes/no): ''\033[39m').lower()
155         if side_dish in ('yes', 'no'):
156             break
157     if side_dish == "yes" and protein_option == 'beef' and hour < 18:
158         side_agree(agree)
159         print(json_object[5]["mealName"])
160         bon_apetit(wish)
161     elif side_dish == "no" and protein_option == 'beef':
162         side_disagree(disagree)
163
164 # Beef dinner
165 elif protein_option == "beef" and hour > 18:
166     order_up_meat(meat)
167     print(json_object[14]["mealName"])
168     while True:
169         side_dish = input('\033[31m'\nWould you like a side dish to accompany your meal? (yes/no): ''\033[39m').lower()
170         if side_dish in ('yes', 'no'):
171             break
172     if side_dish == 'yes' and protein_option == "beef" and hour > 18:
173         side_agree(agree)
174         print(json_object[15]["mealName"])
175         bon_apetit(wish)
176     elif side_dish == 'no' and protein_option == "beef":
177         side_disagree(disagree)
178

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179 # Lamb lunch
180 elif protein_option == "lamb" and hour < 18:
181     order_up_meat(meat)
182     print(json_object[6]["mealName"])
183     while True:
184         side_dish = input('\033[31m"\nWould you like a side dish to accompany your meal? (yes/no): "'\033[39m').lower()
185         if side_dish in ('yes', 'no'):
186             break
187     if side_dish == 'yes' and protein_option == "lamb" and hour < 18:
188         side_agree(agree)
189         print(json_object[7]["mealName"])
190         bon_apetit(wish)
191     elif side_dish == 'no' and protein_option == "lamb":
192         side_disagree(disagree)
193
194 # Lamb dinner
195 elif protein_option == "lamb" and hour > 18:
196     order_up_meat(meat)
197     print(json_object[16]["mealName"])
198     while True:
199         side_dish = input('\033[31m"\nWould you like a side dish to accompany your meal? (yes/no): "'\033[39m').lower()
200         if side_dish in ('yes', 'no'):
201             break
202     if side_dish == 'yes' and protein_option == "lamb" and hour > 18:
203         side_agree(agree)
204         print(json_object[17]["mealName"])
205         bon_apetit(wish)
206     elif side_dish == 'no' and protein_option == "lamb":
207         side_disagree(disagree)

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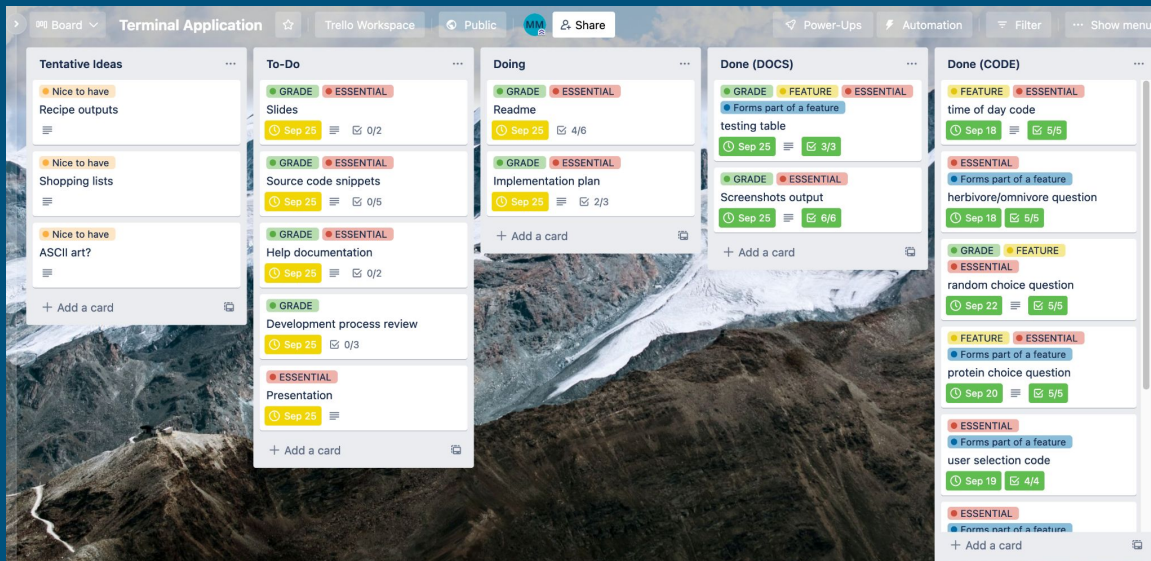
208
209 # Chicken lunch
210 elif protein_option == "chicken" and hour < 18:
211     order_up_meat(meat)
212     print(json_object[8]["mealName"])
213     while True:
214         side_dish = input('\033[31m""\nWould you like a side dish to accompany your meal? (yes/no): ""\033[39m').lower()
215         if side_dish in ('yes', 'no'):
216             break
217     if side_dish == 'yes' and protein_option == "chicken" and hour < 18:
218         side_agree(agree)
219         print(json_object[9]["mealName"])
220         bon_apetit(wish)
221     elif side_dish == 'no' and protein_option == "chicken":
222         side_disagree(disagree)
223
224 # Chicken dinner
225 elif protein_option == "chicken" and hour > 18:
226     order_up_meat(meat)
227     print(json_object[18]["mealName"])
228     while True:
229         side_dish = input('\033[31m""\nWould you like a side dish to accompany your meal? (yes/no): ""\033[39m').lower()
230         if side_dish in ('yes', 'no'):
231             break
232     if side_dish == 'yes' and protein_option == "chicken" and hour > 18:
233         side_agree(agree)
234         print(json_object[19]["mealName"])
235         bon_apetit(wish)
236     elif side_dish == 'no' and protein_option == "chicken":
237         side_disagree(disagree)

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238
239 # Seafood lunch
240 elif protein_option == "seafood" and hour < 18:
241     order_up_meat(meat)
242     print(json_object[10]["mealName"])
243     while True:
244         side_dish = input('\033[31m""\nWould you like a side dish to accompany your meal? (yes/no): "'\033[39m').lower()
245         if side_dish in ('yes', 'no'):
246             break
247         if side_dish == 'yes' and protein_option == "seafood" and hour < 18:
248             side_agree(agree)
249             print(json_object[11]["mealName"])
250             bon_apetit(wish)
251         elif side_dish == 'no' and protein_option == "seafood":
252             side_disagree(disagree)
253
254 # Seafood dinner
255 elif protein_option == "seafood" and hour > 18:
256     order_up_meat(meat)
257     print(json_object[20]["mealName"])
258     while True:
259         side_dish = input('\033[31m""\nWould you like a side dish to accompany your meal? (yes/no): "'\033[39m').lower()
260         if side_dish in ('yes', 'no'):
261             break
262         if side_dish == 'yes' and protein_option == "seafood" and hour > 18:
263             side_agree(agree)
264             print(json_object[21]["mealName"])
265             bon_apetit(wish)
266         elif side_dish == 'no' and protein_option == "seafood":
267             side_disagree(disagree)
268
```

Walkthrough of  
the application  
working in real  
time

# Development



- Trello kanban boards
- Break down each step
- Prioritise tasks
- Sydney support hub
- Keep head down!

# Challenges

- Putting everything into practice!
- Learning about JSON and how to implement it and use it
- Working within time constraints towards a deadline
- Impostor syndrome!

# Enjoyables

- Seeing code DO something
- Increasing my ability to think abstractly
- Realising I know more than I thought I did
- Conquering impostor syndrome!