

# Homework 13 Main

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## My Contributions this week

- **Improving the design of the quiz MCQ questions** - I created boxes containing the image and the name of the ingredients in the question as well as the options. I also added a yellow highlight to the options when we hover over them. I also improved the buttons like "Next Question" and "View Recipe" by having a yellow background.
- **Variable position of question mark** - Earlier, the question was such that the last image (the one after the = sign) was hard coded as the question mark (missing) image which needs to be guessed. I made the question more flexible by adding a new variable in the data structure to allow the missing ingredient to be in any position.
- **Regulating navigation using the back button / reload** - Earlier, it was possible to reload or go back using the back button in the browser to repeatedly answer the same question, which should not be allowed. To address this problem, Kiran and I added a nocache decorator in flask to prevent this. To store the answers for already answered questions, I created a new variable in the data structure called "selected" to keep track of the option which has been selected (if it was answered).
- **Improving UI of the end page** - The buttons on the end page were improved and an image was added below the score.
- **Cleaning up code** - Wrote the code more efficiently with loops in js, separated the style formats by keeping them in a separate css file, worked with quiz questions data stored in a separate json file rather than creating it in the python code.

**Question 1**

0%



+



=

**Options**

Tartufata



E' Alici



Vongole



Buro

Above: Hover functionality, improved UI

**Question 4**

50%



+



+



=



Carbonara

**Options**

Butter



Black Pepper

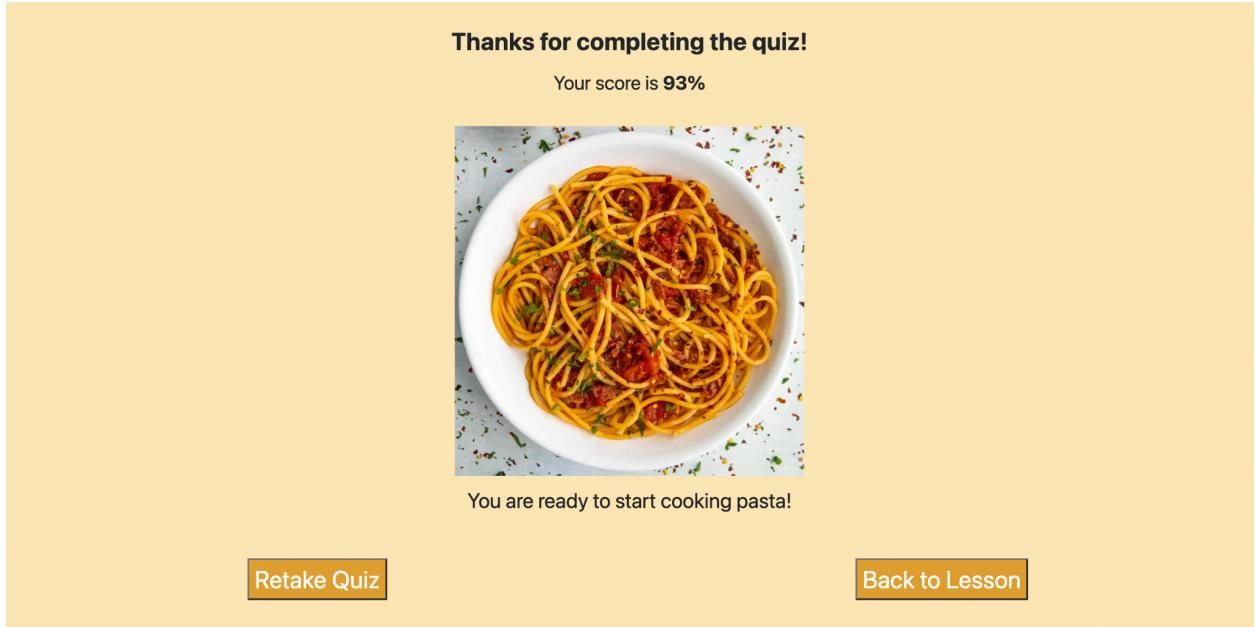


Tomatoes



Eggs

Above: variable position of missing item.



Above: Quiz end page

## Github Commits

A screenshot of a GitHub commit history for the repository "ben-kolber / Tree-of-Pasta". The commit is titled "HW13 final changes" and was authored by Atul Balaji 10 hours ago. It has 47 changed files with 2,066 additions and 1,597 deletions. The commit hash is bc8d737 and the commit message is 288194a51a7e9c2d1bee9a0d0dbbb88144105746. The code diff shows changes in main/Untitled.ipynb, main/questions.json, main/recipe\_ingredients.json, and main/server.py. The main/server.py diff is highlighted, showing the addition of code to load a JSON file named 'tree\_structure.json'.

```
diff --git a/main/server.py b/main/server.py
@@ -15,13 +15,18 @@
15     app = Flask(__name__)
16
17     with open('tree_structure.json') as f:
18 -         tree_structure = json.load(f)
19
20     @app.route('/')
21     def index():
22         return render_template('index.html', tree=tree_structure)
```

```

v 291 main/server.py □
... @@ -15,13 +15,18 @@
15 app = Flask(__name__)
16
17 with open('tree_structure.json') as f:
18 - tree_structure = json.load(f)
19
20 state_tracker = {
21 - 'nodes_visited': [],
22 - 'current_node': 0
23 + }
24
25
26
27 @app.route('/')
... @@ -37,41 +42,49 @@ def welcome():
37 # initialize the tree
38 @app.route('/traverse_tree', methods=['GET', 'POST'])
39 def traverse_tree():
40 -
41     package = request.get_json()
42
43     id = package['id']
44
45 -
46     return jsonify(dict(redirect=f'/render_branch/{id}'))
47
48
49 -
50 -
51
52 c = 0
53
54 def nocache(view):
... @@ -267,62 +160,60 @@ def no_cache(*args, **kwargs):
55     @nocache
56     def main():
57         global c
58         print("C: ", c)
59         if c == 0:
60             return render_template('quiz_home.html', data=data)
61         else:
62             return redirect("/question/1")
63
64     @app.route('/question/<id>')
65     @nocache
66     def question(id=0):
67         global data
68         global c
69         id = int(id)
70         for d in data:
71             if d["id"] == id:
72                 c = 1
73                 if d["type"] == "2_ingredients":
74
75                     return render_template('question.html', item=d, total=len(data))
76                 elif d["type"] == "3_ingredients":
77
78                     return render_template('question_3.html', item=d, total=len(data))
79                 elif d["type"] == "fill_the_blanks":
80
81                     return render_template('question_fill_the_gaps.html', item=d,
82 total=len(data))
83
84         return render_template('question.html', item=d, total=len(data))
85
86     @app.route('/question/update_score', methods=['GET', 'POST'])
87     def update_score():
88
89

```

```

15     app = Flask(__name__)
16
17     with open('tree_structure.json') as f:
18 +     tree_structure = json.load(f)
19 +
20 +     with open('recipe_ingredients.json') as f:
21 +         recipe_ingredients = json.load(f)
22
23     state_tracker = {
24 +     'nodes_visited': [],
25 +     'current_node': 0
26     }
27
28 +     with open('questions.json') as f:
29 +         quiz_data = json.load(f)
30
31
32     @app.route('/')
33
34     # initialize the tree
35     @app.route('/traverse_tree', methods=['GET', 'POST'])
36     def traverse_tree():
37
38         package = request.get_json()
39
40         id = package['id']
41
42
43         return jsonify(dict(redirect=f'/render_branch/{id}'))
44
45
46
47
48
49
50
51
52     c = 0
53
54     def nocache(view):
55
56         @nocache
57         def main():
58             global c
59
60             if c == 0:
61                 return render_template('quiz_home.html', data=quiz_data)
62             else:
63                 return redirect("/question/1")
64
65         @app.route('/question/<id>')
66         @nocache
67         def question(id=0):
68
69             global quiz_data
70             global c
71
72             question_id = id
73             question_data = quiz_data[question_id]
74             c = 1
75
76             if question_data["type"] == "2_ingredients":
77
78                 return render_template('question.html', item=question_data,
79 total=len(quiz_data))
79
80             elif question_data["type"] == "3_ingredients":
81
82                 return render_template('question_3.html', item=question_data,
83 total=len(quiz_data))
83
84             elif question_data["type"] == "fill_the_blanks":
85
86                 return render_template('question_fill_the_gaps.html', item=question_data,
87 total=len(quiz_data))
87
88
89         @app.route('/question/update_score', methods=['GET', 'POST'])
90         def update_score():
91
92

```

```

  ↵ + 18 ████ main/static/question.js □
  ↪ @@ -38,15 +38,14 @@ function send_answer(item){
  38 }
  39
  40 // show next button at the bottom
  41 - function showbutton(next_item, total, is_correct){
  42     if (next_item > total){
  43         $("#nextq").append("<button type='button' class='block enabled_yellow'><a href='/end' style='color:#fff'>Submit Quiz</a></button>");
  44 -         send_correct(is_correct);
  45     }
  46     else{
  47         $("#nextq").append("<button type='button' class='block enabled_yellow'><a href='/question/"+next_item+"' style='color:#fff'>Next Question</a></button>");
  48 -         send_correct(is_correct);
  49     }
  50 }
  51
  52 // show recipe button
  ↪ @@ -77,6 +76,11 @@ function showcorrect(item){
  77 // Main
  78 $(document).ready(function(){
  79     $("#title").append(item["title"]);
  80
  81     // two ingredients
  82     if (item["type"] == "2_ingredients"){
  83
  84     @@ -118,7 +122,7 @@ $(document).ready(function(){
  118         let next_item = item["id"] + 1
  38     }
  39
  40 // show next button at the bottom
  41 + function showbutton(item, next_item, total, is_correct){
  42     if (next_item > total){
  43         $("#nextq").append("<button type='button' class='block enabled_yellow'><a href='/end' style='color:#fff'>Submit Quiz</a></button>");
  44     }
  45     else{
  46         $("#nextq").append("<button type='button' class='block enabled_yellow'><a href='/question/"+next_item+"' style='color:#fff'>Next Question</a></button>");
  47     }
  48 +     send_correct(is_correct)
  49 }
  50
  51 // show recipe button
  76 // Main
  77 $(document).ready(function(){
  78     $("#title").append(item["title"]);
  79 +     $("#progressbar").progressbar({
  80 +         value: Math.round(100*parseInt(item["id"]-1)/total)
  81 +     });
  82 +     $(".progress-label").text($(".progressbar").progressbar("value") + "%");
  83 +
  84
  85 // two ingredients
  86 if (item["type"] == "2_ingredients"){
  122     let next_item = item["id"] + 1

```

```

  ↵ + 29 ████ main/templates/quiz_end.html □
  ↪ @@ -8,11 +8,11 @@
  8 <link rel="stylesheet" href="{{url_for('static', filename='question.css')}}">
  9
 10 <script>
 11 -     let e = {{e|tojson}}
 12     let total = {{total|tojson}}
 13     $(document).ready(function(){
 14 -         let score = Math.round(100*e/total)
 15 -         $("#displayscore").html("Your score is "+score+"%")
 16     });
 17 </script>
 18
  ↪ @@ -31,15 +31,28 @@
 31     </div>
 32 </div>
 33
 34 - <div class="col-4 centered">
 35 -     <button type="button" class="block enabled_yellow"><a href="/quiz_home" style="color:#fff">Retake Quiz</a></button>
 36 - </div>
 37
 38 - <div class="col-4 centered">
 39 -     <button type="button" class="block enabled_yellow"><a href="/welcome" style="color:#fff">Back to Lesson</a></button>
 40 </div>
 41
 42
  8 <link rel="stylesheet" href="{{url_for('static', filename='question.css')}}">
  9
 10 <script>
 11 +     let s = {{s|tojson}}
 12     let total = {{total|tojson}}
 13     $(document).ready(function(){
 14 +         let score = Math.round(100*s/total)
 15 +         $("#displayscore").html("Your score is <b>"+score+"%</b>")
 16     });
 17 </script>
 18
 31     </div>
 32 </div>
 33
 34 + <br>
 35
 36 + <div class="col-6 centered">
 37 +     <div id="theme-image"></div>
 38 + </div>
 39 + <div class="col-12 centered2">
 40 +     <div>
 41 +         You are ready to start cooking pasta!
 42 +     </div>
 43     </div>
 44
 45
 46 + <br>
 47

```

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Major changes

atul Atul Balaji committed yesterday

Showing 8 changed files with 222 additions and 583 deletions.

main/server.py

```
@@ -170,18 +170,18 @@ def render_branch(id):  
    "image_1": "https://drive.google.com/uc?  
    export=view&id=1AqD662k1RxPj0wR6atTBem0Vph0FE5x",  
    "image_2": "https://drive.google.com/uc?  
    export=view&id=1sws6UHJ1rlrdtkibUQEdFGUfZlc_g_dU",  
    "image_3": "https://drive.google.com/uc?  
    export=view&id=1Uakpm5329KhBnN1E1mUV4UymHovG8-",  
    "image_res": "https://drive.google.com/uc?export=view&id=1kufAn-  
    bkk8521l1ufzeALb9067EAKkD5",  
    "text_1": "Carbonara",  
    "text_2": "Eggs",  
    "text_3": "Tomatoes",  
    "text_res": "Amatriciana",  
    "operator1": "-",  
    "operator2": "+",  
    "options": ["Tartufata", "Aglio E Olio", "Amatriciana", "Vongole"],  
    "option_images": ["https://drive.google.com/uc?  
    export=view&id=1ANGFXIcV7JUh1DnhEcK1Su-J0IR2HSG",  
    "image_1": "https://drive.google.com/uc?  
    export=view&id=1AqD662k1RxPj0wR6atTBem0Vph0FE5x",  
    "image_2": "https://drive.google.com/uc?  
    export=view&id=1sws6UHJ1rlrdtkibUQEdFGUfZlc_g_dU",  
    "image_3": "https://drive.google.com/uc?  
    export=view&id=1Uakpm5329KhBnN1E1mUV4UymHovG8-",  
    "image_4": "https://drive.google.com/uc?export=view&id=1kufAn-  
    bkk8521l1ufzeALb9067EAKkD5",  
    "text_1": "Carbonara",  
    "text_2": "Eggs",  
    "text_3": "Tomatoes",  
    "text_4": "Amatriciana",  
    "operators": ["-", "+"],  
    "options": ["Tartufata", "Aglio E Olio", "Amatriciana", "Vongole"],  
    "option_images": ["https://drive.google.com/uc?  
    export=view&id=1ANGFXIcV7JUh1DnhEcK1Su-J0IR2HSG",
```

main/static/question.css

```
@@ -0,0 +1,130 @@  
 1 + .viewtitle {  
 2 +   display: inline-block;  
 3 +   font-weight: bold;  
 4 +   font-size: 28px;  
 5 +   padding-top: 20px;  
 6 + }  
 7 +  
 8 + .image{  
 9 +   padding-top: 5px;  
10 +  margin-top: 20px;  
11 +  background-color: rgb(237, 237, 237);  
12 +  border: 1px solid grey;  
13 +  border-radius: 5px;  
14 + }  
15 +  
16 + .image3ing {  
17 +   padding-top: 5px;  
18 +  margin-top: 20px;  
19 +  padding-left: 5px;  
20 +  padding-right: 5px;  
21 +  background-color: rgb(237, 237, 237);  
22 +  border: 1px solid grey;  
23 +  border-radius: 5px;  
24 + }  
25 +  
26 + .viewoptions {  
27 +   display: inline-block;  
28 +   font-weight: bold;  
29 +   font-size: 20px;  
30 +   padding-top: 20px;  
31 + }  
32 +  
33 + .wrong {
```

```
diff --git a/main/static/question.js b/main/static/question.js
@@ -1,3 +1,4 @@
 1  function send_correct(is_correct) {
 2    $.ajax({
 3      type: "POST",
 4 @@ -17,43 +18,48 @@ function send_correct(is_correct) {
 5    });
 6  }
 7
 8  function showbutton(next_item, total, is_correct){
 9    if (next_item > total){
10      $("#nextq").append("<button type='button' class='block'><a href='/end'>Submit Quiz</a></button>");
11      send_correct(is_correct);
12    }
13    else{
14      $("#nextq").append("<button type='button' class='block'><a href='/question/"+next_item+">Next Question</a></button>");
15      send_correct(is_correct);
16    }
17  }
18
19  function showrecipe(item){
20    $("#recipebutton").click(function(){
21      let url = "/render_branch/"+item["recipe_id"]
22      window.open(url,'_blank')
23    });
24  }
25
26  function showcorrect(item){
27    $("#imageres").removeClass("qmark").addClass("image").html("");
28
29  }
30
31  function showrecipe(item){
32    $("#recipebutton").click(function(){
33      let url = "/render_branch/"+item["recipe_id"]
34      window.open(url,'_blank')
35    });
36  }
37
38  function showcorrect(item){
39    $("#imageres").removeClass("qmark").addClass("image").html("");
40
41  + // display correct answer
42  function showcorrect(item){
```

```
diff --git a/main/templates/question.html b/main/templates/question.html
@@ -5,108 +5,13 @@
 5  {{ super() }}
 6
 7  <script type="text/javascript" src="{{ url_for('static', filename = 'question.js') }}></script>
 8
 9  <script>
10    let item = {{item|tojson}}
11    let total = {{total|tojson}}
12  </script>
13
14  - <style>
15  -
16  -   .viewtitle {
17  -     display: inline-block;
18  -     font-weight: bold;
19  -     font-size: 28px;
20  -     padding-top: 20px;
21  -   }
22  -
23  -   .image{
24  -     padding-top: 5px;
25  -     margin-top: 20px;
26  -     background-color: rgb(237, 237, 237);
27  -     border: 1px solid grey;
28  -     border-radius: 5px;
29  -   }
30  -
31  -   .qmark {
32  -     /* margin-top: 20px; */
33  -     padding-top: 5px;
34  -     margin-top: 20px;
35  -     background-color: rgb(237, 237, 237);
36  -     border: 1px solid grey;
```

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Nocache atul Atul Balaji authored and Atul Balaji committed 20 hours ago 1 parent 654f64b commit bc8d737372bf8ba640fdff4ca4d4fad5a17a634f

Showing 2 changed files with 121 additions and 32 deletions.

main/server.py

```
@@ -1,12 +1,16 @@
1 import flask
2 import json
3 import ast
4 import random
5
6 from flask import Flask
7 from flask import render_template
8 from flask import Response, request, jsonify
9 from flask import url_for
10
11 app = Flask(__name__)
12
@@ -748,19 +752,36 @@
def render_branch(id):
```

Browse files

main/static/question.js

```
@@ -18,6 +18,25 @@
18     });
19 }
20
21 + function send_correct(is_correct) {
22 +     $.ajax({
23 +         type: "POST",
24 +         url: "store_answer",
25 +         dataType : "json",
26 +         contentType: "application/json; charset=utf-8",
27 +         data: JSON.stringify(item),
28 +         success: function (response) {
29 +             console.log("success");
30 +         },
31 +         error: function(request, status, error){
32 +             console.log("Error");
33 +             console.log(request)
34 +             console.log(status)
35 +             console.log(error)
36 +         }
37 +     });
38 +
39 +
40 // show next button at the bottom
41 function showbutton(next_item, total, is_correct){
42     if (next_item > total){
43
@@ -100,35 +119,68 @@
$document.ready(function(){
100     let is_correct = {"correct": 0}
101
102     // what to do when an option is selected
103 -     $.each([1,2,3,4],function(index,value){
104 -         $("#option"+value).click(function(){
105 -             item["selected"] = index
106 -
119     let is_correct = {"correct": 0}
120
121     // what to do when an option is selected
122 +     if (item["selected"] == -1){
123 +         $.each([1,2,3,4],function(index,value){
124 +             $("#option"+value).click(function(){
125 +                 item["selected"] = index
```