PANGASINAN STATE UNIVERSITY
College of Computing
Information Technology Department
Urdaneta Campus

PORTFOLIO IN ELECTIVE 4

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By:
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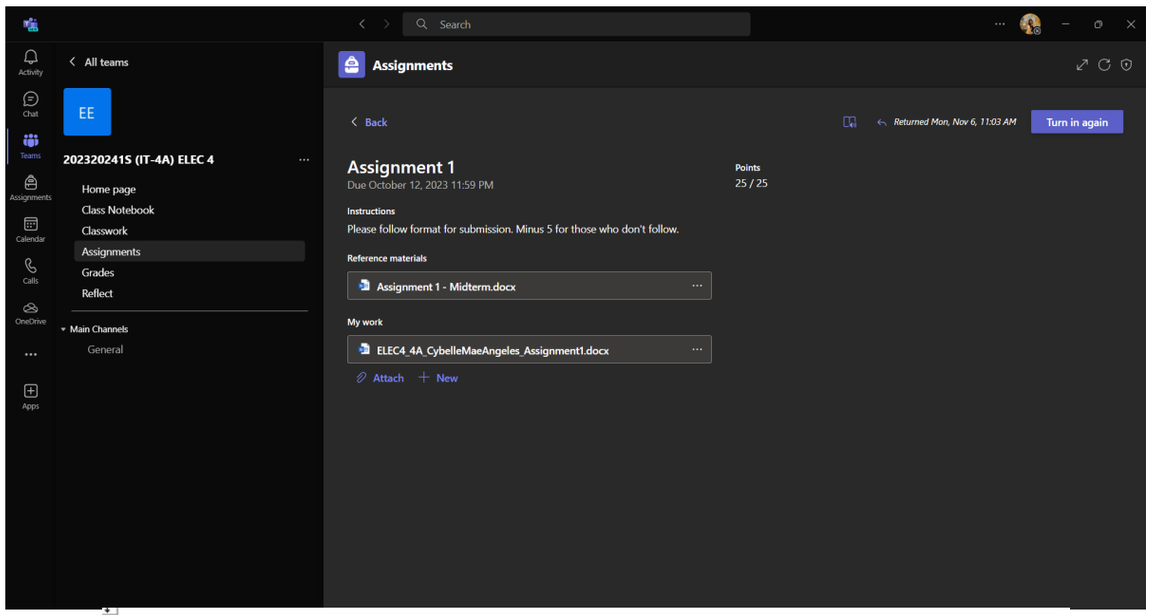
Submitted To:
SIR MARK DENVER P. ADORA, MIT

JANUARY 09, 2024

TABLE OF CONTENTS

I	Assignment 1	25/25
II	Laboratory Quiz 1	/25
III	Written Quiz 1	/25
IV	Midterm Written Exam	/50
V	Midterm Laboratory Exam	/40
VI	Activity 1 Finals	15/20
VII	Activity 2 Finals	/20
VIII	Final Written Exam	/40
IX	End-Term-Requirement/Final Exam	80/100

ASSIGNMENT 1



Pangasinan State University
Urdaneta City Campus

Assignment 1
Elective 4 (Special Topics on Web and Mobile 2)

Name: Cybelle Mae V. Angeles	Date: October 5, 2023 / Deadline: October 12, 2023
	Points: 25

Instructions:

1. Create a function to calculate the `mean` of a list of numbers.
   - Return `mean`
2. Create a function to calculate the `median` of a list of numbers.
   - Return `median`
3. Create a main function to get user input, calculate mean and median, and display results
   - Ask positive integer inputs separated by spaces.
   - Split the given input.
   - Calculate the mean and median of the input
   - Display the elements of the list, the mean, the median

```
def calculate_mean(numbers):
    mean = sum(numbers) / len(numbers) if len(numbers) > 0 else 0

    return mean


def calculate_median(numbers):
    list_length = len(numbers)
    sorted_numbers = sorted(numbers)


    if list_length % 2 == 0:
        median = (sorted_numbers[list_length // 2 - 1] + sorted_numbers[list_length // 2])
/ 2
    else:
        median = sorted_numbers[list_length // 2]


    return median


def main_function():

        user_input = input("Enter a positive integers separated by spaces: ")
        numbers = [int(split_element) for split_element in user_input.split()]

        mean = calculate_mean(numbers)
        median = calculate_median(numbers)
        print(f"Elements of the list: {numbers}")
        print(f"Mean: {mean}")
        print(f"Median: {median}")

main_function()
```

Output....

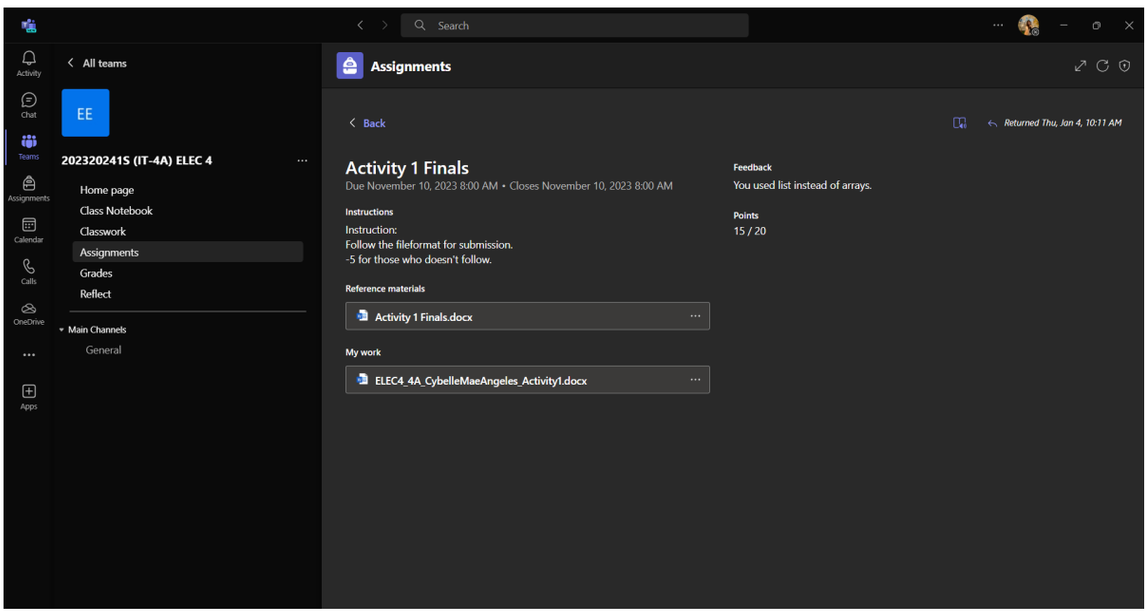
Enter a positive integers separated by spaces: 1 2 3 4 5

Elements of the list: [1, 2, 3, 4, 5]

Mean: 3.0

Median: 3

ACTIVITY 1 FINALS



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Activity 1
Elective 4 (Special Topics on Web and Mobile 2)

Name: Cybelle Mae V. Angeles	Date: November 9, 2023
	Points: 20

Write a program that do the following:

Task 1: Create an array `arrayOfScores`
Task 2: Create a function `askValues` which accepts only positive values terminated by 0 then add it to the array.
Task 3: Call the function `askValues`
Task 4: Iterate each array items and check the following
a) value is between or equal to 75-80 - print the value and "Grade: 3.00"
b) value is between or equal to 81 - 85 - print the value and "Grade: 2.50"
c) value is between or equal to 86 - 90- print the value and "Grade: 2.00"
d) value is between or equal to 91- 95- print the value and "Grade: 1.50"
e) value is between or equal to 96 - 100- print the value and "Grade: 1.00"
f) value is less than 75 - print the value and "Failed"
--Value greater than 75 is added to a list (Referring to `arrayOfScores`)
Task 5: Iterate the list to get the average. Print all the elements of the list and display the average.

```
arrayOfScores = []


def askValues():
    while True:
        value = float(input("Enter a positive values only (terminate with 0): "))
        if value == 0:
            break
        elif value < 0:
            print("Please enter a positive value.")
        else:
            arrayOfScores.append(value)



askValues()



for score in arrayOfScores:
    if 75 <= score <= 80:
        print(f"Value: {score}, Grade: 3.00")
    elif 81 <= score <= 85:
        print(f"Value: {score}, Grade: 2.50")
    elif 86 <= score <= 90:
        print(f"Value: {score}, Grade: 2.00")
    elif 91 <= score <= 95:
        print(f"Value: {score}, Grade: 1.50")
    elif 96 <= score <= 100:
        print(f"Value: {score}, Grade: 1.00")
    else:
        print(f"Value: {score}, Failed")



passing_scores = [score for score in arrayOfScores if score > 75]
print(f"\nList of passing scores: {passing_scores}")

average = sum(passing_scores) / len(passing_scores) if passing_scores else 0
print(f"Average of Passed Scores: {average:.2f}")
```

Output....

Enter a positive values only (terminate with 0): 79

Enter a positive values only (terminate with 0): 84

Enter a positive values only (terminate with 0): 88

Enter a positive values only (terminate with 0): 93

Enter a positive values only (terminate with 0): 100

Enter a positive values only (terminate with 0): 74

Enter a positive values only (terminate with 0): 0

Value: 79.0, Grade: 3.00

Value: 84.0, Grade: 2.50

Value: 88.0, Grade: 2.00

Value: 93.0, Grade: 1.50

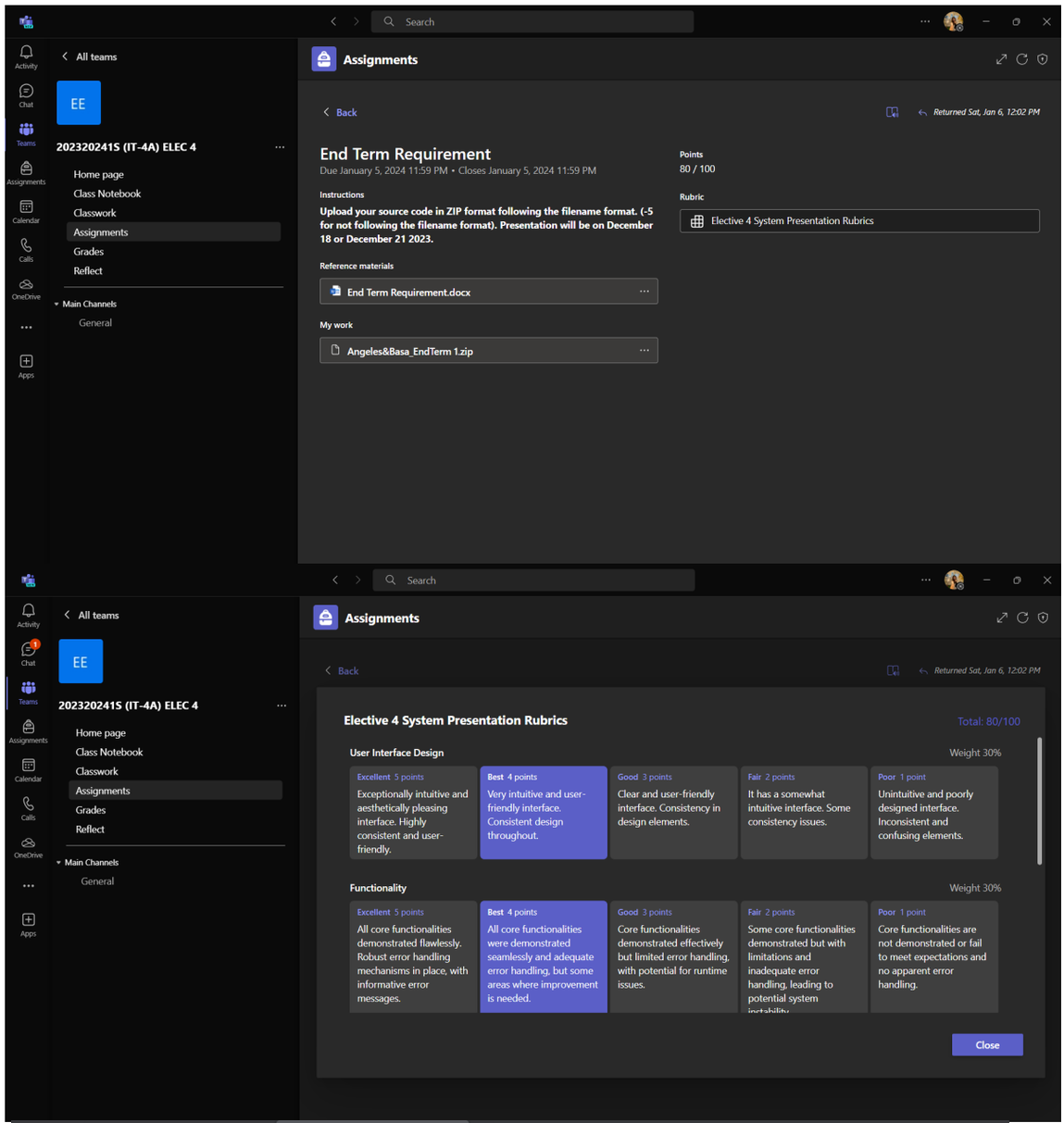
Value: 100.0, Grade: 1.00

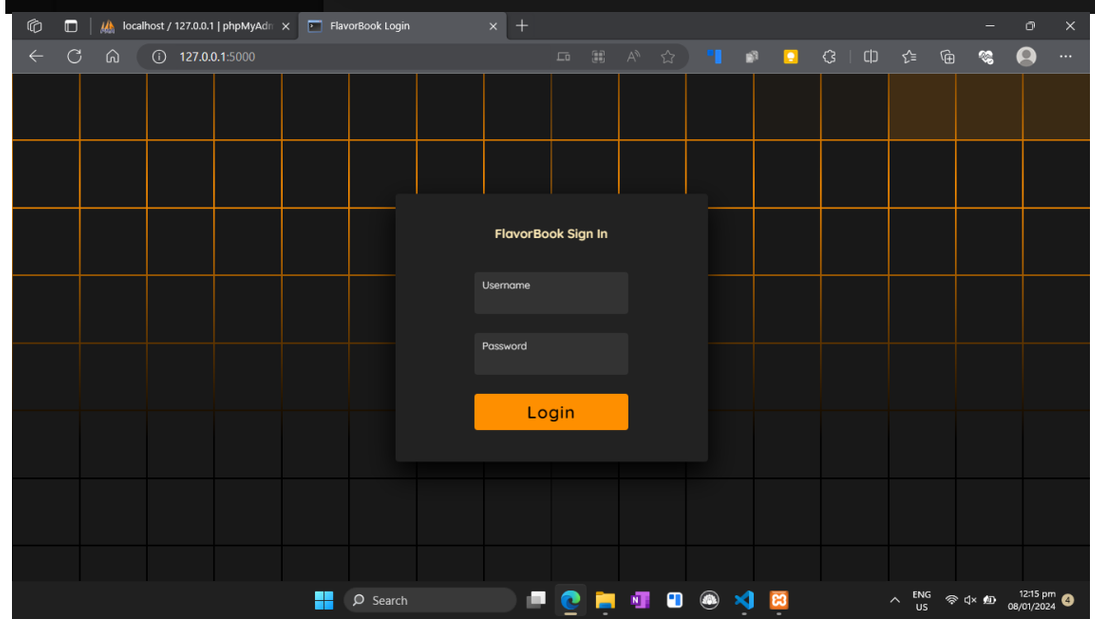
Value: 74.0, Failed

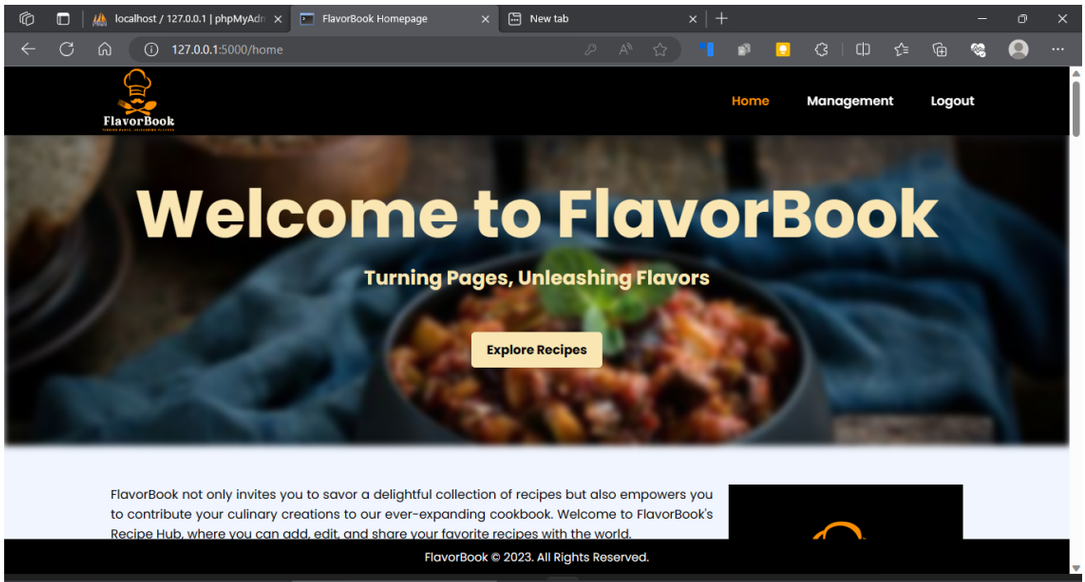
List of passing scores: [79.0, 84.0, 88.0, 93.0, 100.0]

Average of Passed Scores: 88.80

END-TERM-REQUIREMENT/FINAL EXAM






localhost / 127.0.0.1 | phpMyAdn
FlavorBook Homepage
New tab
127.0.0.1:5000/home
FlavorBook
Home
Management
Logout
Welcome to FlavorBook
Turning Pages, Unleashing Flavors
Explore Recipes
FlavorBook not only invites you to savor a delightful collection of recipes but also empowers you to contribute your culinary creations to our ever-expanding cookbook. Welcome to FlavorBook's Recipe Hub, where you can add, edit, and share your favorite recipes with the world.
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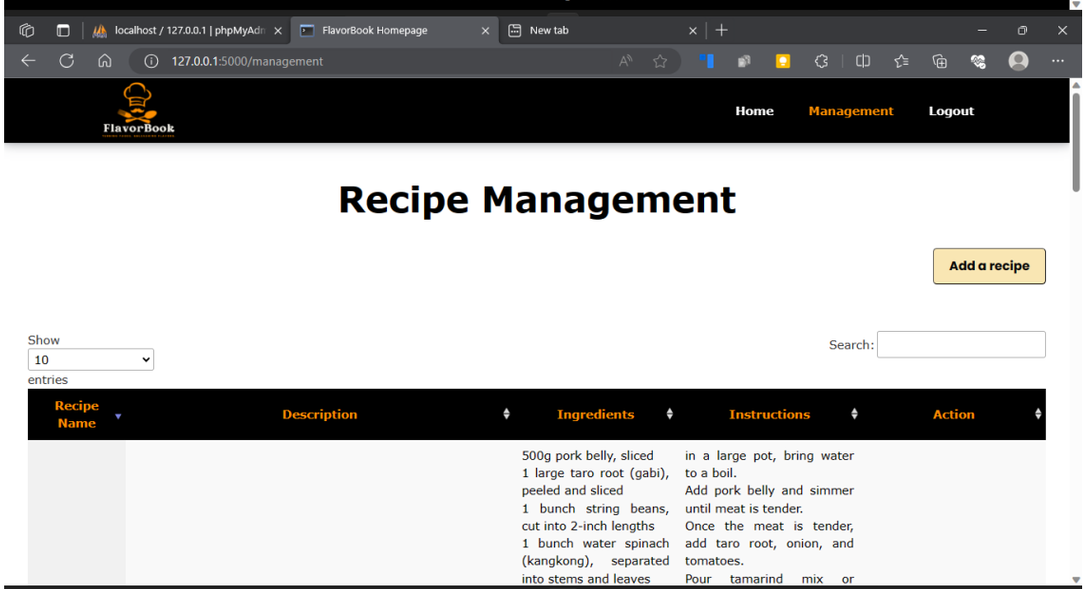
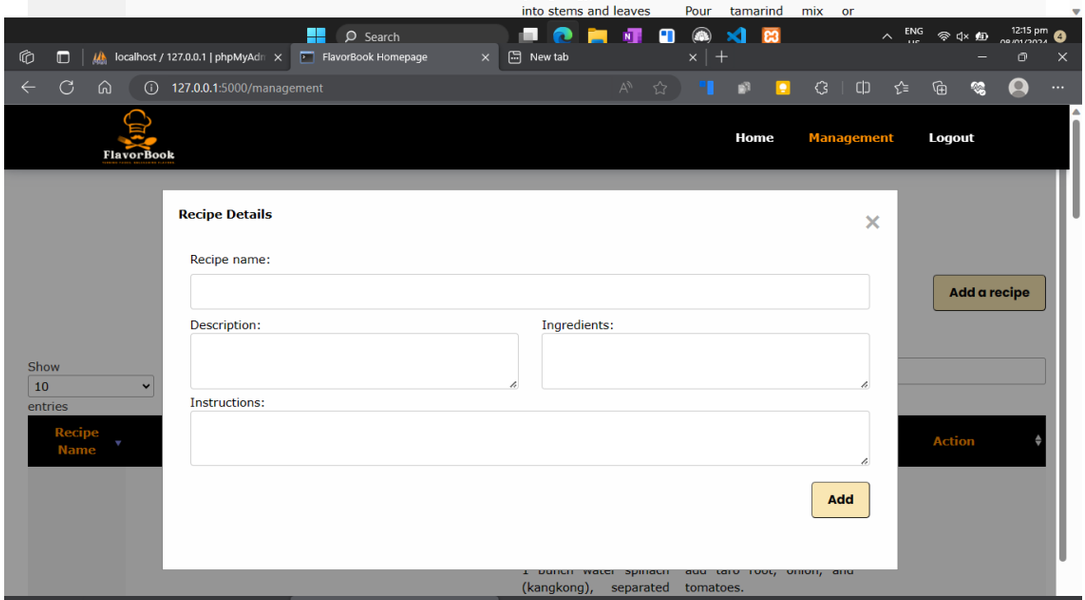
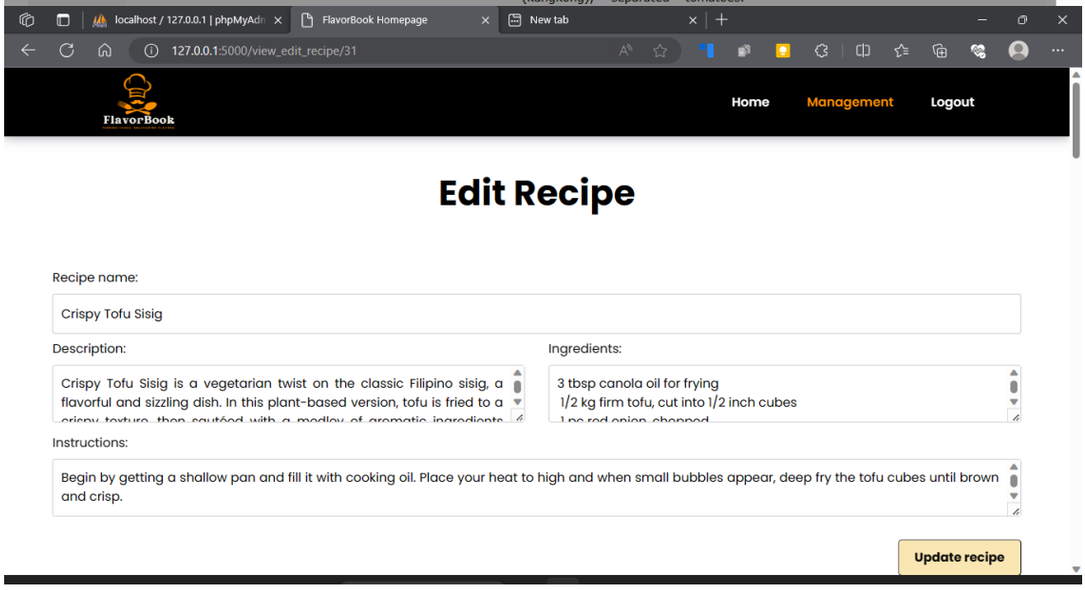

localhost / 127.0.0.1 | phpMyAdn
FlavorBook Homepage
New tab
127.0.0.1:5000/management
FlavorBook
Home
Management
Logout
Recipe Management
Add a recipe
Show
10
entries
Search:
Recipe Name
Description
Ingredients
Instructions
Action
500g pork belly, sliced
1 large taro root (gabi), peeled and sliced
1 bunch string beans, cut into 2-inch lengths
1 bunch water spinach (kangkong), separated into stems and leaves
in a large pot, bring water to a boil.
Add pork belly and simmer until meat is tender.
Once the meat is tender, add taro root, onion, and tomatoes.
Pour tamarind mix or


localhost / 127.0.0.1 | phpMyAdn
FlavorBook Homepage
New tab
127.0.0.1:5000/management
FlavorBook
Home
Management
Logout
Recipe Details
Recipe name:
Description:
Ingredients:
Instructions:
Add
Add a recipe
Show
10
entries
Recipe Name
Action
(kangkong), separated
tomatoes.


localhost / 127.0.0.1 | phpMyAdn
FlavorBook Homepage
New tab
127.0.0.1:5000/view_edit_recipe/31
FlavorBook
Home
Management
Logout
Edit Recipe
Recipe name:
Crispy Tofu Sisig
Description:
Crispy Tofu Sisig is a vegetarian twist on the classic Filipino sisig, a flavorful and sizzling dish. In this plant-based version, tofu is fried to a
Ingredients:
3 tbsp canola oil for frying
1/2 kg firm tofu, cut into 1/2 inch cubes
Instructions:
Begin by getting a shallow pan and fill it with cooking oil. Place your heat to high and when small bubbles appear, deep fry the tofu cubes until brown and crisp.
Update recipe