Program Name goes here

Link to github Repository: (N/A)

Links to trello board / project management tools:<u>https://trello.com/invite/b/5QYamlel/ATTIc6979de20083e48b037</u> <u>a0b80196811e3B885A198/91896-assesment</u>

You MUST provide evidence showing how the problem has been decomposed, how the components have been developed and trialled, and of how they have been assembled and tested to create a final, working outcome.

Relevant Implications

The functionality of the burger ordering code refers to how well it performs its intended tasks, providing a smooth and guided process for users to make selections and complete their order. The code addresses functionality by ensuring each step such as choosing burger sizes, toppings, and payment methods is clear and easy to follow. Input validation ensures that users make correct choices, preventing mistakes like invalid sizes or improperly formatted phone numbers. Additionally, the code effectively calculates and communicates costs, offering a seamless and error-free ordering experience from start to finish.

Functionality is how something works and the specific tasks it can perform, such as features in a program, tool, or system that make it useful for users. It's essentially what something is capable of doing based on its design.

Relevant Implications

The code's aesthetics are highlighted by its clean, organized look with well-formatted menus and engaging images. This design creates a visually appealing and user-friendly burger ordering interface. Rather than using typical loading bars, the creative images add a fun and unique touch, making the interface more enjoyable and attractive to use. This is important to my code as it can appeal to people of all ages and all over the world, as I have not put any images that will offend anybody.

The code's usability is shown through its clear messages, effective error recovery, and easy navigation. It lets users customize their burger orders, select payment options, and review their choices. The straightforward design ensures a smooth, hassle-free experience for everyone. This important as without error recovery the website would be unusable and users would not be able ively order a burger.

Learn about the history of Burger Haven? (y/n or yes/no): *no thanks* Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): maybe Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): *no* no problem

Relevant implications evidence

Learn about the history of Whanau Pizzeria? (y/n or yes/no): nope Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n']

Learn about the history of Whanau Pizzeria? (y/n or yes/no): gup Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n']

Learn about the history of Whanau Pizzeria? (y/n or yes/no): please Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n']

Learn about the history of Whanau Pizzeria? (y/n or yes/no): y

Confirm order? (y/n or yes/no): sure Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): *i guess* Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): yess Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): yes

please wait system processing...

----- Review of Burger Haven ------

Aesthetics

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Topping choice

za 1...

Choose a size (s/m/l or small/medium/large): 1 Choose a topping (1-17) or type 'd' for done: 1 Cheese sauce added. Total topping cost: \$1.50 Choose a topping (1-17) or type 'd' for done: 2 Pesto sauce added. Total topping cost: \$3.00 Choose a topping (1-17) or type 'd' for done: 3 Marinara added. Total topping cost: \$3.00 Choose a topping (1-17) or type 'd' for done: 4 Barbeque added. Total topping cost: \$4.50 Choose a topping (1-17) or type 'd' for done: 5 Mozzarella Cheese added. Total topping cost: \$6.00 Choose a topping (1-17) or type 'd' for done: 6 Ground beef added. Total topping cost: \$9.50 Choose a topping (1-17) or type 'd' for done: 7 Smoked ham added. Total topping cost: \$13.00 Choose a topping (1-17) or type 'd' for done: 8 Pepperoni added. Total topping cost: \$16.50 Choose a topping (1-17) or type 'd' for done: 9 Onion added. Total topping cost: \$18.50 Choose a topping (1-17) or type 'd' for done: 10 Olives added. Total topping cost: \$20.50 Choose a topping (1-17) or type 'd' for done: 11 Spinach added. Total topping cost: \$22.50 Choose a topping (1-17) or type 'd' for done: 12 Spring Onion added. Total topping cost: \$23.50 Choose a topping (1-17) or type 'd' for done: 13 Premium Italian Sausage added. Total topping cost: \$29. Choose a topping (1-17) or type 'd' for done: 14 Smoked Bacon added. Total topping cost: \$32.50 Choose a topping (1-17) or type 'd' for done: 15 Slow cooked lamb added. Total topping cost: \$38.00 Choose a topping (1-17) or type 'd' for done: 16 Camembert cheese added. Total topping cost: \$41.50 Choose a topping (1-17) or type 'd' for done: 17 Capsicum added. Total topping cost: \$46.00 Choose a topping (1-17) or type 'd' for done: 18 Enter a number between 1 and 17 or 'd' for done. Choose a topping (1-17) or type 'd' for done:

E.

Component 1 (Trello screenshot) "Added delivery or pick-up options and fixed errors."

Testing	÷← …	Completed	→← …		Plan	→← …	Order delivery or pick up? (d/p or delivery/pick up): pick up
+ Add a card	G	place @ 1			Create a list of availa This will include inter	ble toppings: esting burgers	0ur address is: 123 Burger Lane, Burger City 45678. Enter vour name: <i>Bob</i>
		c Welcome to th uld you like to order delivery or p asseenter 'delivery' or 'pick up: uld you like to order delivery or p ir address is:	e Whanau Pizzeria> ick up: sid ick up: pick up		how a list of available corresponding numb	burgers with ers.	Enter your phone number: 0988663 Enter your address: bob lane 78
		o Ramganuz Road, Nount Raunganui 3 • you soon! asks the user delivery <i>■ @</i> 3	or pick up		Allow the user to sele entering the correspondence number or name. Pro- to finish the selection	ect burgers by onding vide an option process.	See you soon! Order delivery or pick up? (d/p or delivery/pick up): <i>delivery</i> \$5 surcharge for delivery.
- Al	-	Would you like to see the a Please enter 'yes' or 'no' Would you like to see the a < Menu	menu? asd menu? yes >		choose burger: A fun burger to the selecte	ction to add a d list.	Enter your name: Bob Enter your phone number: 098765 Enter your address: bob Jape 12
		Pizza Sauces: - Cheese sauce: \$1.50 - Pesto sauce: \$1.50 - Marinara: Free			Handle invalid inputs + Add a card	(e.g., entering	See you soon!
Server aller	- D	+ Add a card	0	Introdu	ction con	pleted	d
	Completed	en lane ande an ten het hereineld. ener ande, som en de hereineld van en ene hereine inder eine ander hereine an ener hereinelte an ingehet en ers minde hereinegeniste	 ★ ••• An and Addition and a second sec	Welcome to Burger H Our burgers are cra We also support our Order with us at Ba	Haven, where we be afted from 100% An r vegan friends by urger Haven, where	lieve that grea gus beef, ensur offering a del quality and in	reat taste starts with the best ingredients! suring a juicy, flavorful experience that's all-natural and free from artificial additives. delicious selection of plant-based options, so everyone can enjoy a satisfying meal. inclusivity come together for the ultimate burger experience!
istory of the burger	introduces t place	he history of the bu	urger	< Welcome to Bun Learn about the him	rger Haven> story of Burger Ha	ven? (y/n or ye	yes/no):
a to the Whenau Pizzeria ry or pick up: ord ac up: ry or pick up: sick up: ganui 3116. livery or pick up	Nid you like to order case enter 'delivery vid you like to order r address is: 5 Maunganuk Road, Mov e you soon!	Melcome to the Whanau Pizzer dellwery or pick up: 050 of hjack up: dellwery or pick up: nick up int Maunganui 3110. er delivery or pick up	14 •••) D	< Welcome to Burger Haven> Learn about the history of Burger Haven? (y/n or yes/no): <i>no</i> no problem			
				Order	delivery	or pick	ck up? (d/p or delivery/pick up):

introduces the h place

Maunganui Road, Mount Ma

asks the user del

■ @ 3

Component final (Trello screenshot)





I ensured that my program adhered to my original plan, incorporating several, though not all, of the toppings listed on my Trello board.

No max amount of burgers,

prices being 8-10\$ + size cost



Confirm order? (y/n or yes/no): yes please Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): y

\$5 surcharge for delivery. Enter your name: monty Enter your phone number: a Phone number must be at least 5 digits long and contain only numbers. Enter your phone number: 123 Phone number must be at least 5 digits long and contain only numbers. Enter your phone number: 12345

Fixed human errors such as typos and accidental inputs to provide users with a more seamless and smooth experience in my burger selection program Confirm order? (y/n or yes/no): sure Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): i guess Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): yess Enter a valid response from ['y', 'n', 'yes', 'no'] Confirm order? (y/n or yes/no): yes

Enter your name: 1 Enter a valid name (letters only). Enter your name: *monk1ey* Enter a valid name (letters only). Enter your name: *Bob*

Order another burger? (y/n or yes/no): n Choose payment method (c for cash, cr for credit):credit card Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):50 cash and 50 card Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):cash



Learn about the history of Burger Haven? (y/n or yes/no): im not sure Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): *ok fine* Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): yes

Welcome to Burger Haven, where we serve the best burgers in town with a rich history of culinary excellence. Established in the heart of the city in the early 2000s, Burger Haven was founded by culinary enthusiast Jack Thompson who envisioned a place where everyone could enjoy high-quality, delicious burgers made from fresh, locally sourced ingredients. Over the years, Burger Haven has become a beloved local spot, known for its commitment to flavor, quality, and exceptional service.

Enter your address: Address cannot be blank. Enter your address:

Not_blank function working

Ordering burger 1... Choose a size (s/m/l or small/medium/large): l Choose a burger (1-18) or type 'd' for done: 0

Enter a number between 1 and 18 or 'd' for done. Choose a burger (1-18) or type 'd' for done: 1 Classic Beef Burger added. Total burger cost: \$8.00 Choose a burger (1-18) or type 'd' for done: 18 Mediterranean Burger added. Total burger cost: \$18.00 Choose a burger (1-18) or type 'd' for done: 19 Enter a number between 1 and 18 or 'd' for done.



Making things mo	ore efficient (1) 🔍 🗌		Without dictiona	iry
<pre>Version 1 pizza version if topping_choice == "1": topping_name = "Cheese sauce" cost = 1.50 elif topping_choice == "2": topping_name = "Pesto sauce" cost = 1.50 elif topping_choice == "3": topping_name = "Marinara" cost = 0.0 # Marinara is free elif topping_choice == "4": topping_name = "Barbeque" cost = 1.50 elif topping_choice == "5": topping_name = "Mozarella Cheese" cost = 1.50 elif topping_choice == "6": topping_name = "Ground beef" cost = 3.50 elif topping_choice == "7": topping_name = "Ground beef" cost = 3.50 elif topping_choice == "8": topping_name = "Smoked ham" cost = 3.50 elif topping_choice == "9": topping_name = "Pepperoni" cost = 3.50 elif topping_name = "0nion" cost = 2.00 elif topping_choice == "10":</pre>	<pre>With diction Version 2 version 2 version 2 version 2 version 4 ' "name": "Classic Beef Burger", "cost": 8.00}, ' ' "name": "Cheeseburger", "cost": 9.00}, ' ' "name": "B&Q Burger", "cost": 9.00}, ' ' "name": "B&Q Burger", "cost": 9.00}, ' ' "name": "Fish Burger", "cost": 9.00}, ' ' "name": "Bioy Burger", "cost": 9.00}, ' ' "name": "Bioy Burger", "cost": 9.00}, '' ''name": "Bioy Burger", "cost": 9.00}, '' ''name": "Bioy Burger", "cost": 9.00}, '' ''name": "Teriyaki Burger", "cost": 9.50}, '' ''name": "Bio Chicken Burger", "cost": 9.50}, '' ''''''''''''''''''''''''''''''''''</pre>	If 1: Classic Beef Burger 2: Cheeseburger 3: Bacon Burger 4: BBQ Burger 5: Veggie Burger 6: Chicken Burger 7: Fish Burger 8: Mushroom Burger 10: Deluxe Burger 10: Deluxe Burger 11: Hawaiian Burger 12: Teriyaki Burger 13: Jalapeno Burger 14: BBQ Chicken Burger 15: Veggie Deluxe Burger 16: Blue Cheese Burger 17: Southwest Burger 18: Mediterranean Burger	It 1: Classic Beef Burger 2: Cheeseburger 3: Bacon Burger 4: BBQ Burger 5: Veggie Burger 6: Chicken Burger 7: Fish Burger 8: Mushroom Burger 10: Deluxe Burger 10: Deluxe Burger 11: Hawaiian Burger 12: Teriyaki Burger 13: Jalapeno Burger 14: BBQ Chicken Burger 15: Veggie Deluxe Burger 15: Veggie Deluxe Burger 16: Blue Cheese Burger 17: Southwest Burger 18: Mediterranean Burger \$10.00 \$ 9.50 \$10.00	tem Cost \$ 8.00 \$ 8.50 \$ 9.00 \$ 9.50 \$ 8.50 \$ 9.00 \$ 9.50 \$ 10.00 \$ 9.50 \$ 10.00 \$ 9.50 \$ 9.00 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50 \$ 9.50
<pre>topping_name = "Olives" cost = 2.00 elif topping_choice == "11": topping_name = "Spinach" cost = 2.00 elif topping_choice == "12": topping_name = "Spring Onion" cost = 1.00 elif topping_choice == "13": topping_name = "Premium Italian Sausage" cost = 5.50</pre>	By converting my burger I've significantly reduce not only makes the code the program's readability	selection tool in ced the amount of more efficient bu ty and ease of nav	to a dictionary, code needed. This t also improves rigation.	s

ST.

Making things more efficient (2)

lime wait
time.sleep(1)

Loading bar simulation
time.sleep(1)
loading_steps = [
 "

......

for step in loading_steps: print(step) time.sleep(1)

•].

Introduce extreme inefficiencies
for step in loading_steps:
 time.steep(1) # Wait 1 second before printing the loading step
 print(step)
 print("Displayed loading step...")
 time.steep(1) # Additional wait after printing the step
 for _ in range(5): # Inner loop to waste time
 time.steep(1) # Unnecessarily long delay after each step
 print("Wasting time...")

simulation with extreme inefficien

time.sleep(5) # Unnecessary long wait before starting the loading bar

please wait system processing...



print("Processing...") # Redundant processing messag
time.sleep(1) # Unneeded wait for processing

Adding a huge wait at the end of the loading bar me.sleep(30) # Excessive wait after the loading bar int("Waited 30 seconds after loading bar...")

Example of how to call the review section __name__ == "__main__": time.sleep(10) # Long wait before calling the rev

time.sleep(10) # Long wait before calling the review section print("Waited 10 seconds before entering review section...") print("Preparing to enter review section...") # Redundant message time cloce(). # Extension to calling the cavity function

Dose the same thing just more efficient!

----- Review of Burger Haven ------

Pandas!

import pandas as pd

ef display_menu(): menu_data = {

"Item": ["1: Classic Beef Burger", "2: Cheeseburger", "3: Bacon Burger", "4 "5: Veggie Burger", "6: Chicken Burger", "7: Fish Burger", "8: Mus "9: Spicy Burger", "10: Deluxe Burger", "11: Hawaiian Burger", "12 "13: Jalapeno Burger", "14: BBQ Chicken Burger", "15: Veggie Delux "17: Southwest Burger", "18: Mediterranean Burger"

"Cost":

"8.00", "8.50", "9.00", "9.50", "8.50", "9.00", "9.50", "8.50", "9.00", "10.00", "9.50", "10.00", "9.00", "9.50", "9.00", "10.00", "9.50", "10.00"

df_menu = pd.DataFrame(menu_data)

```
print("<------>")
print(df_menu.to_string(index=False, formatters={'Item': '{:<30}'.format, 'Cost': '${:>5}'.format}))
print("\nNote: Please only enter one item at a time.")
print("\n|Small | Medium | Large |")
print(" | $5 | $7 | $9 |")
print(" |-----|------|")
```

With pandas

Before (pizza version)

Using `pandas` will make it easier to add new features to my pizza program, like sales. It would be able to handle new data smoothly and helps analyze and manage it efficiently. Compared to the old version

print("Using pandas in Python makes working with data faster and easier. It provides a special table-like structure called a DataFrame that handles large amounts of data more efficiently. With pandas, my program can quickly sort, and analyze the data, as well as create charts like my menu. It simplifies many tasks that would be more complicated and time-consuming with just basic Python code such as print.")

Testing and additions (1)

Resolved issues in the cash and credit payment system.

Choose payment method (c for cash, cr for credit):cash

Order Summary: Name: Bob Phone Number: 09090123 Address: Bob 87 road Total Cost: \$17.00 Payment Method: Cash Burger 1 - Size: Large (\$9) Burgers: - Classic Beef Burger: \$8.0 Total for this burger: \$17.00 Confirm order? (y/n or yes/no):

> Added a burger history option to the start of the program

Choose payment method (c for cash, cr for credit):cas Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):cash

Added a price total receipt feature at the end of the order process with name phone number and address Order Summary: Name: Bob Phone Number: 123456 Address: 89 Bob road lane Total Cost: \$77.00 Payment Method: Cash Burger 1 - Size: Small (\$5) Burgers: - Classic Beef Burger: \$8.0 - Mediterranean Burger: \$10.0 Total for this burger: \$23.00 Burger 2 - Size: Large (\$9) Burgers: - Cheeseburger: \$8.5 - BBQ Burger: \$9.5 - Veggie Burger: \$8.5 - Chicken Burger: \$9.0 - Fish Burger: \$9.5

Total for this burger: \$54.00



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Error recovery



More testing and additions

if user_response in shortcuts:
 return shortcuts[user_response]
elif user_response in valid_ans:
 return user_response

Learn about the history of Whanau Pizzeria? (y/n or yes/no): asdasd

Learn about the history of Whanau Pizzeria? (y/n or yes/no):

user_response = input(question).strip().lower()
if user_response in shortcuts:
 return shortcuts[user_response]
elif user_response in valid_ans:
 return user_response
print(f"Enter a valid response from {valid_ans}") # Error message

after

Before

Adding this line of code enhances user guidance by clearly listing all possible input options, making it easier for users to understand what they can enter.

Learn about the history of Burger Haven? (y/n or yes/no): 1 Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no):



cash_credit(question): valid_responses = {"c": "cash", "cr": "credit"} while True: response = input(question).lower() if response in valid_responses: return valid_responses[response] elif response in ["cash", "credit"]: return response print("Please choose a valid payment method: 'c' or 'cash' for cash' }

Choose payment method (c for cash, cr for credit):cred

Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):*credit*

Choose payment method (c for cash, cr for credit):ca

Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit Choose payment method (c for cash, cr for credit):cash

def cash_credit(question): valid_responses = {"c": "cash", "cr": "credit"} while True: response = input(question).lower() if response in valid_responses: return valid_responses[response] elif response in ["cash", "credit"]: return response print("Please choose a valid payment method: 'c' or 'cash' for cash, 'c; }
}

Order delivery or pick up? (d/p or delivery/pick up): d

\$5 surcharge for delivery.

Enter your name: Bob

Enter your phone number: 020a987

Phone number must be at least 5 digits long and contain only numbers.

Enter your phone number: 0203987

Enter your address: 78 Bob lane

See you soon!

Enhanced the code by incorporating additional detail options and included a burger image at the beginning

Testing Testing that all toppings work

Ordering burger 1...

Choose a size (s/m/l or small/medium/large): small and large Enter a valid response from ['s', 'small', 'm', 'medium', 'l', 'large'] Choose a size (s/m/l or small/medium/large): small Choose a burger (1-18) or type 'd' for done: 0 Enter a number between 1 and 18 or 'd' for done. Choose a burger (1-18) or type 'd' for done: 1 Classic Beef Burger added. Total burger cost: \$8.00 Choose a burger (1-18) or type 'd' for done: 18 Mediterranean Burger added. Total burger cost: \$18.00 Choose a burger (1-18) or type 'd' for done: 19 Enter a number between 1 and 18 or 'd' for done. Choose a burger (1-18) or type 'd' for done: 19 --- Welcome to Burger Haven --->

Learn about the history of Burger Haven? (y/n or yes/no): *no way* Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): i guess sure Enter a valid response from ['y', 'n', 'yes', 'no']

Learn about the history of Burger Haven? (y/n or yes/no): yes

#Youtube link for full code run test#

https://youtu.be/1ZH-gCTfhvM

Order another burger? (y/n or yes/no): n Choose payment method (c for cash, cr for credit):credit card Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):50 cash and 50 card Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for credit. Choose payment method (c for cash, cr for credit):cash



User guidance



Learn about the history of Burger Haven? (y/n or yes/no): y

Welcome to Burger Haven, where we serve the best burgers in town with a rich history of culinary excellence. Established in the heart of the city in the early 2000s, Burger Haven was founded by culinary enthusiast Jack Thompson who envisioned a place where everyone could enjoy high-quality, delicious burgers made from fresh, locally sourced ingredients. Over the years, Burger Haven has become a beloved local spot, known for its commitment to flavor, quality, and exceptional service.

rder delivery or pick up? (d/p or delivery/pick up):

Single-letter responses are allowed as it is more efficient

Other comments

This allows the code to interpret the input as numerical values rather than symbols, enabling it to correctly recognize numbers ranging from 1 to 17.

toppings_menu = {

"1": {"name": "Cheese sauce", "cost": 1.50}, "2": {"name": "Pesto sauce", "cost": 1.50}, "3": {"name": "Marinara", "cost": 0.0}, "4": {"name": "Barbeque", "cost": 1.50}, "5": {"name": "Barbeque", "cost": 1.50}, "5": {"name": "Mozzarella Cheese", "cost": 1.50}, "6": {"name": "Ground beef", "cost": 3.50}, "7": {"name": "Ground beef", "cost": 3.50}, "8": {"name": "Boked ham", "cost": 3.50}, "8": {"name": "Peperoni", "cost": 3.50}, "9": {"name": "Onion", "cost": 2.00}, "10": {"name": "Olives", "cost": 2.00}, "11": {"name": "Spinach", "cost": 2.00}, "12": {"name": "Spinach", "cost": 1.00}, "12": {"name": "Sping Onion", "cost": 1.00}, "13": {"name": "Spring Onion", "cost": 3.50}, "14": {"name": "Smoked Bacon", "cost": 5.50}, "15": {"name": "Slow cooked lamb", "cost": 5.50}, "16": {"name": "Camembert cheese", "cost": 3.50}, "17": {"name": "Capsicum", "cost": 4.50}

1: {"name": "Classic Beef Burger", "cost": 8.00}, 2: {"name": "Cheeseburger", "cost": 8.50}, 3: {"name": "Bacon Burger", "cost": 9.00}, 4: {"name": "BBQ Burger", "cost": 9.50}, 5: {"name": "Veggie Burger", "cost": 8.50}, 6: {"name": "Chicken Burger", "cost": 9.00}, 7: {"name": "Fish Burger", "cost": 9.50}, 8: {"name": "Mushroom Burger", "cost": 8.50}, 9: {"name": "Spicy Burger". "cost": 9.00}. 10: {"name": "Deluxe Burger", "cost": 10.00}, 11: {"name": "Hawaiian Burger", "cost": 9.50}, 12: {"name": "Teriyaki Burger", "cost": 10.00}, 13: {"name": "Jalapeno Burger", "cost": 9.00}, 14: {"name": "BBQ Chicken Burger", "cost": 9.50}, 16: {"name": "Blue Cheese Burger", "cost": 9.50}, 17: {"name": "Southwest Burger", "cost": 9.50}, 18: {"name": "Mediterranean Burger", "cost": 10.00}

Trello functions

functions

tring_checker(question, valid_ans): Prompts the user to enter a string response and checks if it matches a valid option from valid_ans. It supports shortcuts (first letter of each valid option).

history(): Prints a brief history of "Whanau Pizzeria" to the user.

order_pizza - used for the ordering of the pizza and the

order_multiple_pizzas(size_option, size_prices, toppings_menu): Allows the user to order multiple pizzas in sequence, summarizing each pizza and its cost. Returns a detailed order summary and the total cost for all pizzas.

get_size_cost(size_option, size_prices): Prompts the user to choose a pizza size and returns the selected size along with its corresponding cost.

Component 1 - Test Plan (?and screenshot)

Test Case	Expected Values	
Pick up or p - string checker	Our address is: 565 Maunganui Road, Mount Maunganui 3116. See you soon!	Would you like to order delivery or pick up: pick Our address is: 565 Maunganui Road, Mount Maunganui 3116. See you soon!
Delivery or d	There will be a 10\$ surcharge for delivery Enter your name:	Would you like to order delivery or pick up: delivery There will be a 10\$ surcharge for delivery Enter your name:
reajsd	Enter a valid response from ['delivery', 'pick up'] Would you like to order delivery or pick up:	Dream delivery or pick up? (d/p or delivery/pick up): pick up; 'd', 'pr] Enter a wild response from ['d', 'p', 'estlvery', 'pick up', 'd', 'pr] Dream delivery or pick up' (d/p or estlvery)(pick up): flic up er if Enter a wild response from ['d', 'p', 'estlvery', 'pick up', 'd', 'pr] Dream delivery or pick up' (d/p or estlvery)(pick up): d', 'pr] Oreen delivery or pick up' (d/p or estlvery)(pick up): d', 'pr] Oreen delivery or pick up' (d/p or estlvery)(pick up): d', 'pr] Oreen delivery or pick up' (d/p or estlvery) S10 surcharge for delivery. Enter your address: 20 bob lone See you soon!



Component 2 - Test Plan (?and screenshot)

Nould you like to confirm your order? (yes or no): yes	Vould you like to confirm your order? (yes or no): <i>yes</i> Choose a payment method (cash or credit):
Choose a payment method (cash or credit):	
Nould you like to confirm your order? (yes or no): no	Novid you like to confirm your order? (yes or no): no < Reicome to the manual Pizzeria>
Code restarts	In this order system, you will create a custom pizza. Note: All pizza bases are plain. 4 Learn about the history of Whanau Pizzeria? (y/n or yes/no):
enter a valid response from 'y', 'n']	Would you like to confirm your order? (yes or no): a enter a valid response from ['y', 'n'] Would you like to confirm your order? (yes or no):
	ves or no): yes hoose a payment method (cash or redit): /ould you like to confirm your order? ves or no): no ode restarts nter a valid response from y', 'n']

Component 3 - Test Plan (?and screenshot)

Test Case	Expected Values
not_blank(question):	Ensures that the user input is not blank. Prompts repeatedly until a non-blank response is provided.
Blank	Enter a valid response from (valid_answer)
y,n,yes,no	Prints next part of code
Learn about the history of Whanau Pizzeria? enter a valid response from ['y', 'n', 'yes' Learn about the history of Whanau Pizzeria?	<pre>(y/n or yes/no): (y/n or yes/no): enter a valid response from ['y', 'n', 'yes', 'no'] Learn about the history of Whanau Pizzeria? (y/n or yes/no): ges In the heart of New Zealand's bustling food scene, nestled Whanau Pizzeria-a cornerstone of outinary delight since its inception in the early 1990s. Founded by Italian who brought with them generations-old recipes and a passion quickly became a beloved local institution.</pre>

ong the vibrant streets of Mount Maunganui, lies

nmigrants Luca and Sofia Di Napoli, For authentic Italian cuisine, Whanau Pizzeria

Component 4 - Test Plan (?and screenshot)

UI

Test Case	Expected Values
Num_checker	Checks if the input is a number instead of a symbol
Number in non number question	Enter a valid response from (valid_answer)
P,d,pick up, delivery	Prints next part of code
Choose a topping (1-17) or t Enter a number between 1 and	ype 'd' for done: y I 17 or 'd' for done.

Test Case	Expected V	Values	Component
String checker = Yes no checker	Checks for yes	s or no or y or n	5 - Test Plan (?and
Yes or no	Moves to next	part of code	screenshot)
Something other then yes or no	Re asks quest answer	ion and gets new	
<pre>confirm_order = string_checker(question: "\nWoul</pre>	d you like to conf	irm your order? (yes or no): "	, valid_ans: ["yes", "no", "y", "n"]
Learn about the history of Whanau Pizzeria? (y/n or yes/no): nope Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n'] Learn about the history of Whanau Pizzeria? (y/n or yes/no): no way Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n'] Learn about the history of Whanau Pizzeria? (y/n or yes/no): fine Enter a valid response from ['y', 'n', 'yes', 'no', 'y', 'n'] Learn about the history of Whanau Pizzeria? (y/n or yes/no): ges In the heart of New Zealand's bustling food scene, nestled among the vibrant streets Whanau Pizzeria-a cornerstone of culinary delight since its inception in the early 1990s. Founded by Italian immigrants Luca and Sofia who brought with them generations-old recipes and a passion for authentic Italian cu quickly became a beloved local institution.	s of Mount Maunganui, lies a Di Napoli, Jisine, Whanau Pizzeria	if user_response in shortcuts return shortcuts[user_res elif user_response in valid_a return user_response print(f"enter a valid respons	:: sponse] ins: ie from {valid_ans}")

Component 6 - Test Plan (?and screenshot)

Test cash credit	Expected Values		
cash_credit(question):	Prompts the user to choose between "cash" or "credit" as a payment method. Allows for abbreviations (e.g., 'c' for cash).		
Cash or credit	Will register if user has chosen to pay with cash or credit		
Something other then cash or credit	Will ask them to put cash or credit		
Choose a payment method (cash or credit): <i>cαshh</i> Please choose a valid payment method: 'c' or 'cash' for cash, 'cr' or 'credit' for cred			
Choose a payment method (cash or) You have chosen to pay with cash.	credit): cash		

t

Component 7 - Test Plan (?and screenshot)

Test get size	Expected Values	
get_size_cost(size_option, size_prices):	Prompts the user to choose a pizza size and returns the selected size along with its corresponding cost.	
Inputs I,m,s	Adds the size of the pizza to the total	
Input other the I,m,s	Asks you to put a valid answer	
Ordering pizza 1	<pre>def get_size_cost(size_option, size_prices): size = string_checker(question: "Choose a size (s/m/l return size, size_prices[size] </pre>	or small/medium/large): ", size_option)
choose a size (s/m/l or smal	c/medium/lange): L	

Component 8 - Test Plan (?and screenshot)

Test	Expected Values
int_checker(question, low, high)	Prompts the user to enter an integer within a specified range (low to high). Returns the integer if valid or 'd' if the user indicates they are done.
Invalid input - e.g - letter, or numbers outside of 1-17	Will ask you to put a valid answer
Between 1-17 (valid input 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16, 17)	Will move onto the next part of the code
Choose a topping (1-17)	or type 'd' for done: 1
Cheese sauce added. Tota Choose a topping (1-17) Pesto sauce added. Tota Choose a topping (1-17) Slow cooked lamb added. Choose a topping (1-17) Premium Italian Sausage Choose a topping (1-17)	at topping cost: \$1.50 or type 'd' for done: 2 L topping cost: \$3.00 or type 'd' for done: 15 Total topping cost: \$8.50 or type 'd' for done: 13 added. Total topping cost: \$14.00 or type 'd' for done:

Version Control Evidence



🔁 cash_or_card_test.py 🛛 🗧



Other random additions

def int_checker(question, low, high): while True:

```
error = f"Enter a number between {low} and {high} or done"
```

to_check = input(question).lower()

if to_check == "done":
 return "done"

try:

user_response = int(to_check)

if user_response >= low and user_response <= high: return user_response

lse: print(er

except ValueError: print(error)



Burger additions

\$10 surcharge for delivery. Enter your name: monty Enter your phone number: a Enter a valid numeric phone number. Enter your phone number: 02034589 Enter your address: 238 Bob lame

Order Summary: Name: bob Phone Number: 090901 Address: 12345 bob lane Total Cost: \$17.00 Payment Method: Cash Burger 1 - Size: Large (\$9) Burgers: - Classic Beef Burger: \$8.0 Total for this burger: \$17.00 Confirm order? (y/n or yes/no): Total cost for all burgers: \$50.00 Do you want to confirm this order? (y/n or yes/no): n Would you like to place a new order? Start a new order? (y/n or yes/no): y <--- Welcome to Whanau Burger ---> In this order system, you will create a custom burger. 👄

Learn about the history of Whanau Burger? (y/n or yes/no):

```
def not_blank(question):
    error = "Enter a name."
    while True:
        user_name = input(question)
        if user_name.strip() != '':
            return user_name
        else:
            print(error)
```

Discusses how the information from planning, testing and trialling of components assisted in the development of a high-quality outcome: The

The information gathered during planning, testing, and trialling was crucial in developing a high-quality pizza selection tool.

Planning Trello provided a structured approach to the project, allowing for a clear understanding of the requirements. The organization facilitated by Trello made the project more manageable, enabling effective time management and contributing to the overall quality of the final program. By breaking down tasks into manageable components helped me stay focused and on track, ultimately leading to a more refined and comprehensive tool.

Testing played a vital role in identifying potential issues and areas for improvement. Through rigorous testing, I was able to pinpoint bugs, usability problems, and other challenges that could hinder the user experience. Each identified issue was addressed, leading to iterative improvements in the program's functionality and stability. Testing also revealed which features were most effective and which needed refinement, ensuring that the final product met the users' needs and expectations.

Discusses how the information from planning, testing and trialling of components assisted in the development of a high-quality outcome: The

Trialling allowed for real-world application and small adjustments that fine-tuned the program's performance. By trialling the tool in different scenarios, I was able to make minor tweaks that enhanced its usability and efficiency. This approach ensured that the final product was not only functional but also smooth for the user.

Another key aspect of the development process was

gathering feedback from others who tested the program. This input provided valuable insights that I might have overlooked. By incorporating feedback from users with different perspectives, I was able to make further improvements, resulting in a program that was both user-friendly and robust. The process of assessing, refining, and adjusting based on testing and trialling ultimately led to a well-developed, effective program that had significantly evolved since the first version.