

Test Report

WAD 2 PRACTICAL COURSEWORK: REPORT FOR RESTAURANT
WEB APPLICATION

NOWAKOWSKI, ARTUR PIOTR
S2125864

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1. Testing brief.

This document contains Functional Testing of fully responsive web application that works on a wide variety of devices and screen sizes/resolutions. Such testing was conducted for the following elements:

1. Navigation bar.
2. Footer.
3. Landing page/Homepage.
4. Menu page.
5. About us page.
6. Staff sign in/ sign out.
7. Add new dish.
8. Remove dish.
9. Update menu.

To determine whether the actual outcome matches or is like the expected outcome, each of these elements is tested thoroughly. These elements are divided into nine separate tables that provide information such as:

- Use cases are used to identify the elements to be tested.
- Actions are considered the steps required to accomplish an outcome.
- Expected result means an outcome which should be successful.
- Actual results are the outcomes of testing based on use cases.
- Evidence is the presentation of the actual result.
- Passed column will display the result of a use case test.

2. Test cases.

2.1. Navigation bar

Table 1 Navigation bar testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
1.1	Navigation bar (Not Authorized access) - Displays	http://localhost:3000/	Navigation bar displays only Home, Menu, and About us.	The same as expected result.	Look at FIGURE 1 NAVIGATION BAR (NOT AUTHORIZED ACCESS).	Y
1.2	Navigation bar (Authorized access) - Displays	Click on the “Staff” link located in the footer and sign in using following details, username: staff and password: staff123	Navigation bar displays Home, Menu, About us, Add dish, Remove dish, Update the menu, and Sign out.	The same as expected result.	Look at FIGURE 2 NAVIGATION BAR (AUTHORIZED ACCESS).	Y
1.3	Navigation bar - Home	Click “Home”.	Homepage loads.	The same as expected result.	Result is the same as on figures mentioned above.	Y
1.4	Navigation bar – Menu	Click “Menu”.	Menu page loads.	The same as expected result.	Look at FIGURE 3 NAVIGATION BAR - MENU.	Y
1.5	Navigation bar – About us	Click “About us”.	About us page loads.	The same as expected result.	Look at FIGURE 4 NAVIGATION BAR - ABOUT US.	Y
1.6	Navigation bar (Authorized access) – Add dish	Click “Add dish” as an authorized user.	Add new dish page loads.	The same as expected result.	Look at FIGURE 5 NAVIGATION BAR - ADD DISH.	Y
1.7	Navigation bar (Authorized access) – Remove dish	Click “Remove dish” as an authorized user.	Remove dish page loads.	The same as expected result.	Look at FIGURE 6 NAVIGATION BAR - REMOVE DISH.	Y
1.8	Navigation bar (Authorized access) – Update the menu	Click “Update the menu” as an authorized user.	Update the menu page loads.	The same as expected result.	Look at FIGURE 7 NAVIGATION BAR - UPDATE MENU.	Y

1.9	Navigation bar (Authorized access) – Sign out	Click “Sign out” as an authorized user.	Homepage loads and user is signed out. Therefore, loses authorized access.	The same as expected result.	Result is the same as on FIGURE 1 NAVIGATION BAR (NOT AUTHORIZED ACCESS).	Y
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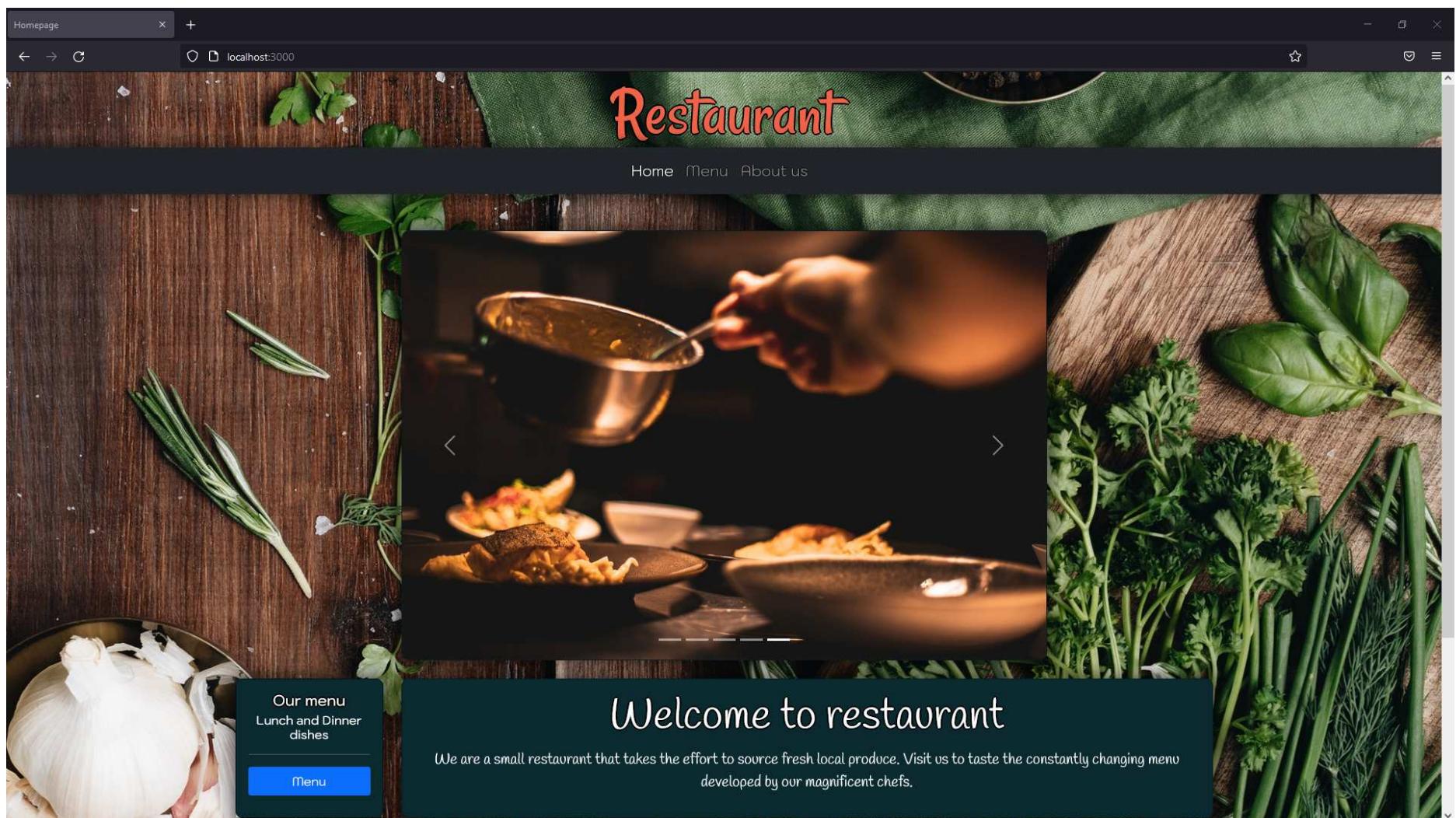


Figure 1 Navigation bar (Not authorized access)

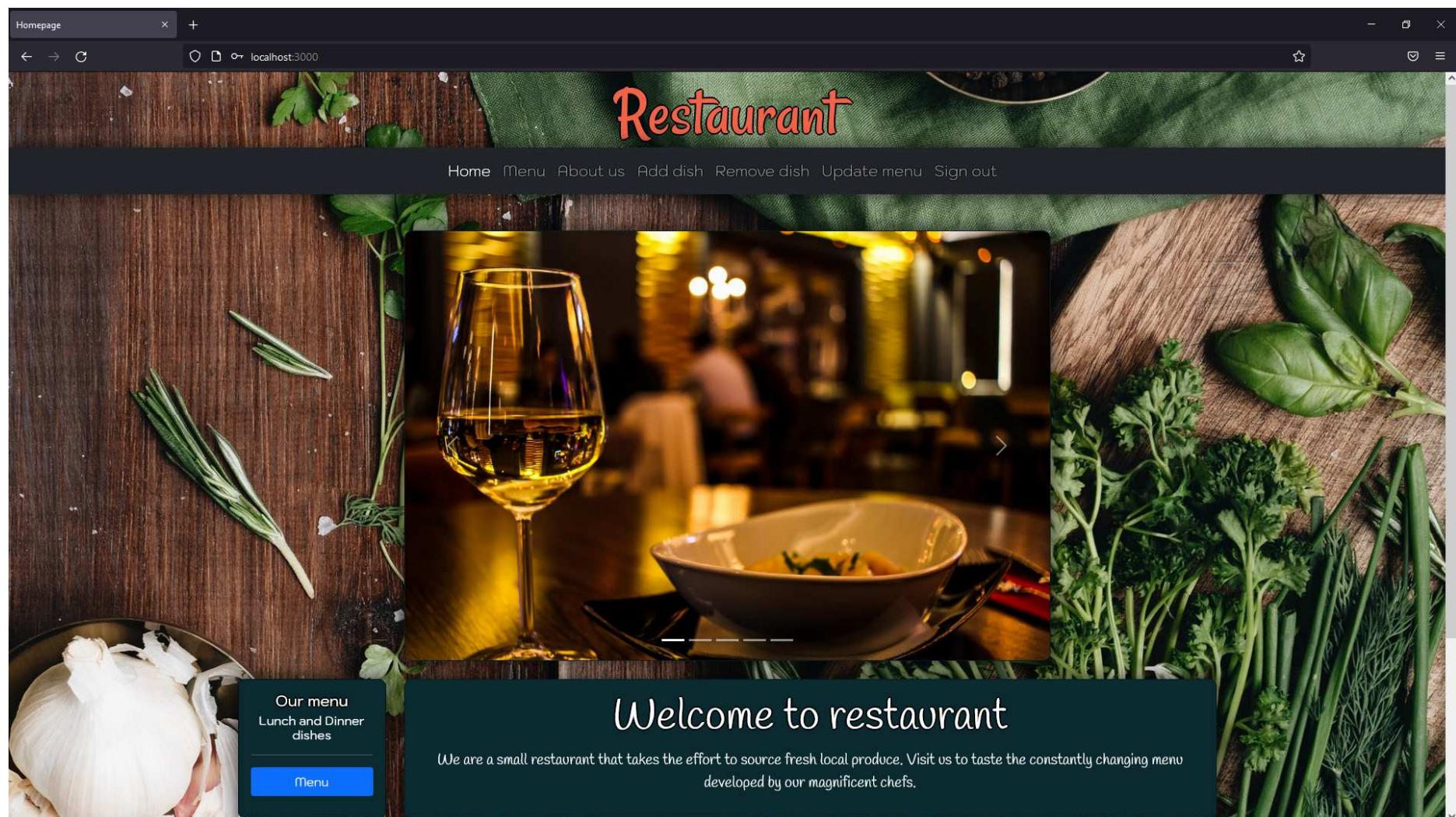


Figure 2 Navigation bar (Authorized access)

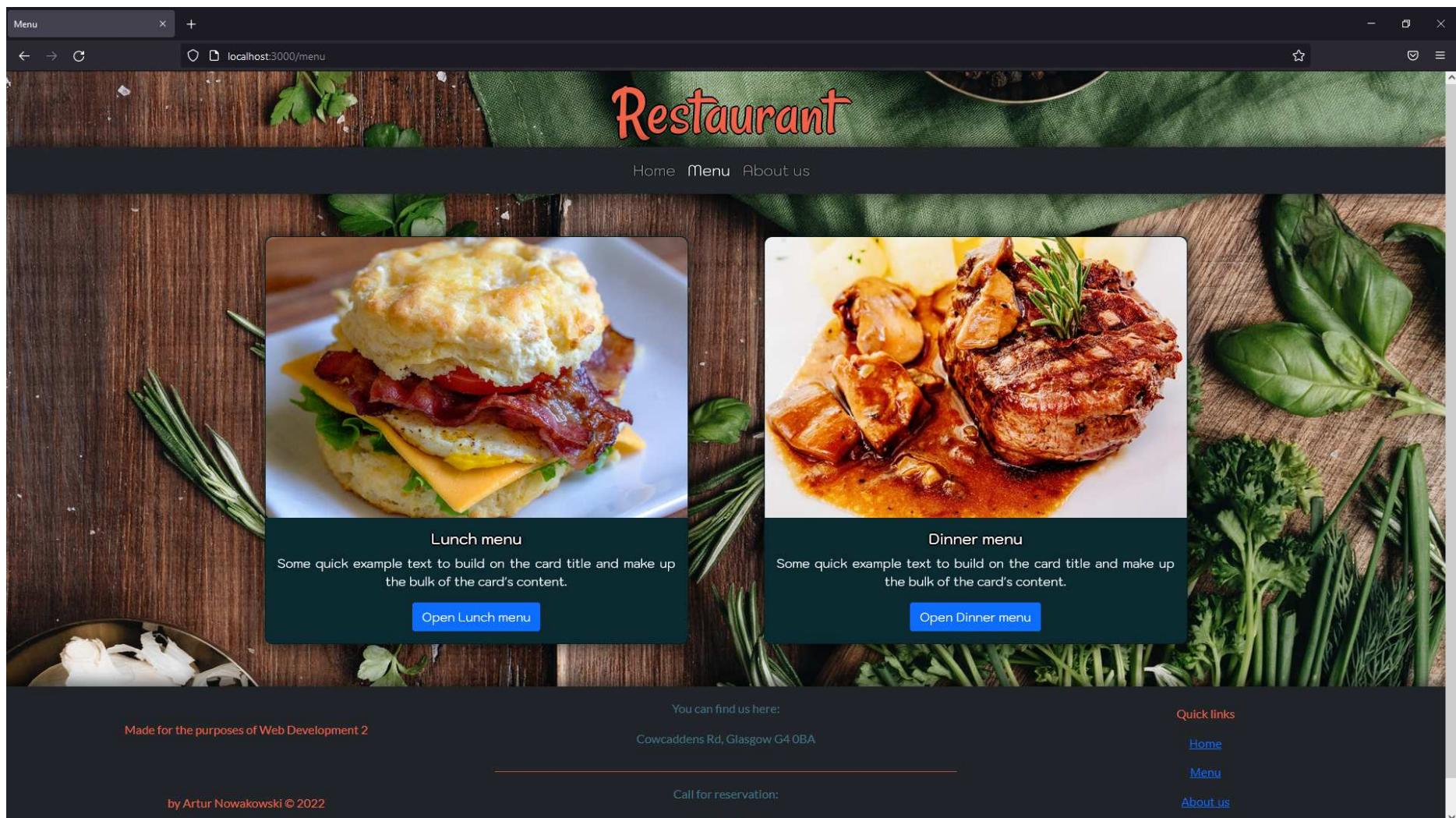


Figure 3 Navigation bar - Menu

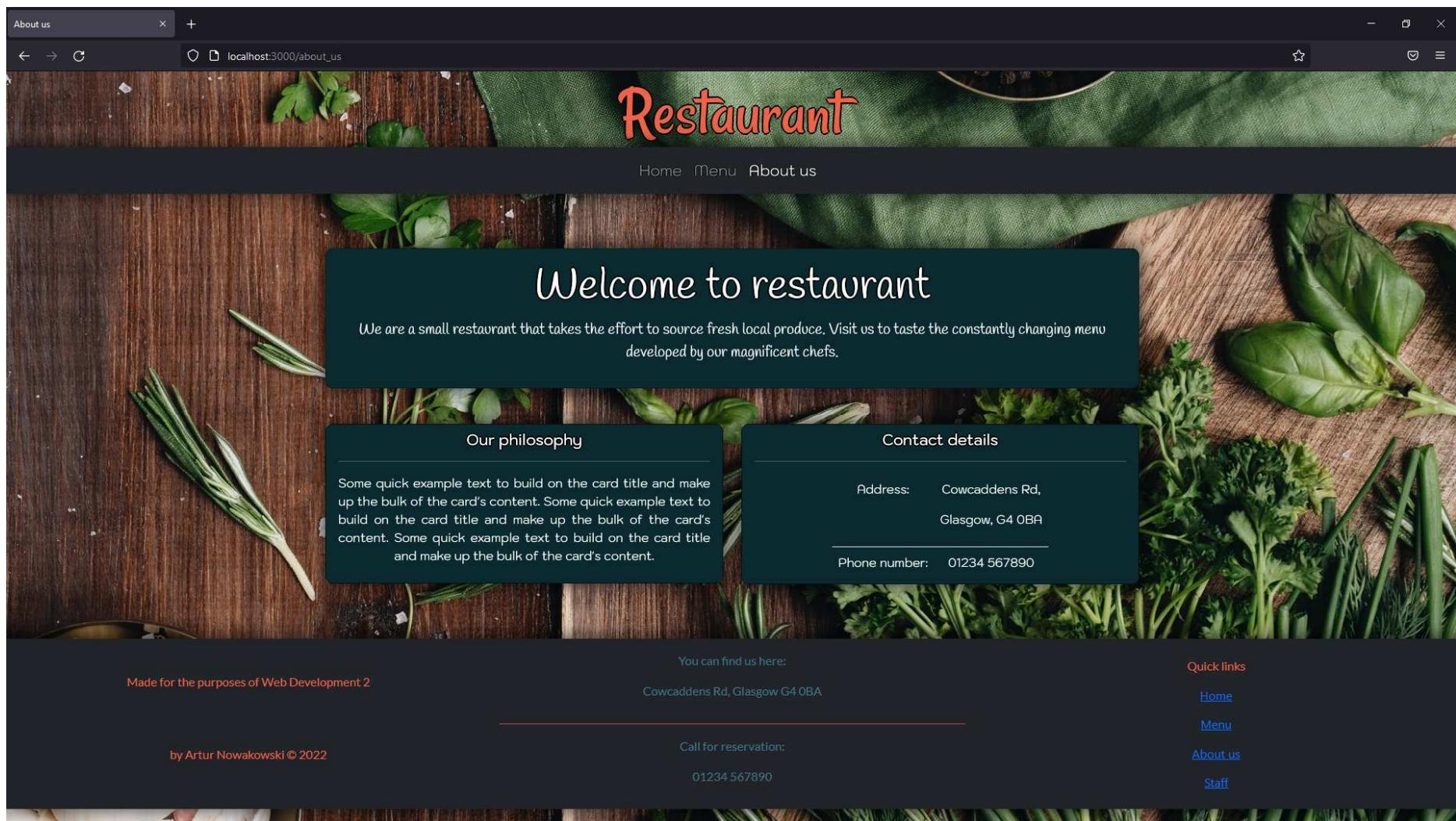


Figure 4 Navigation bar - About us

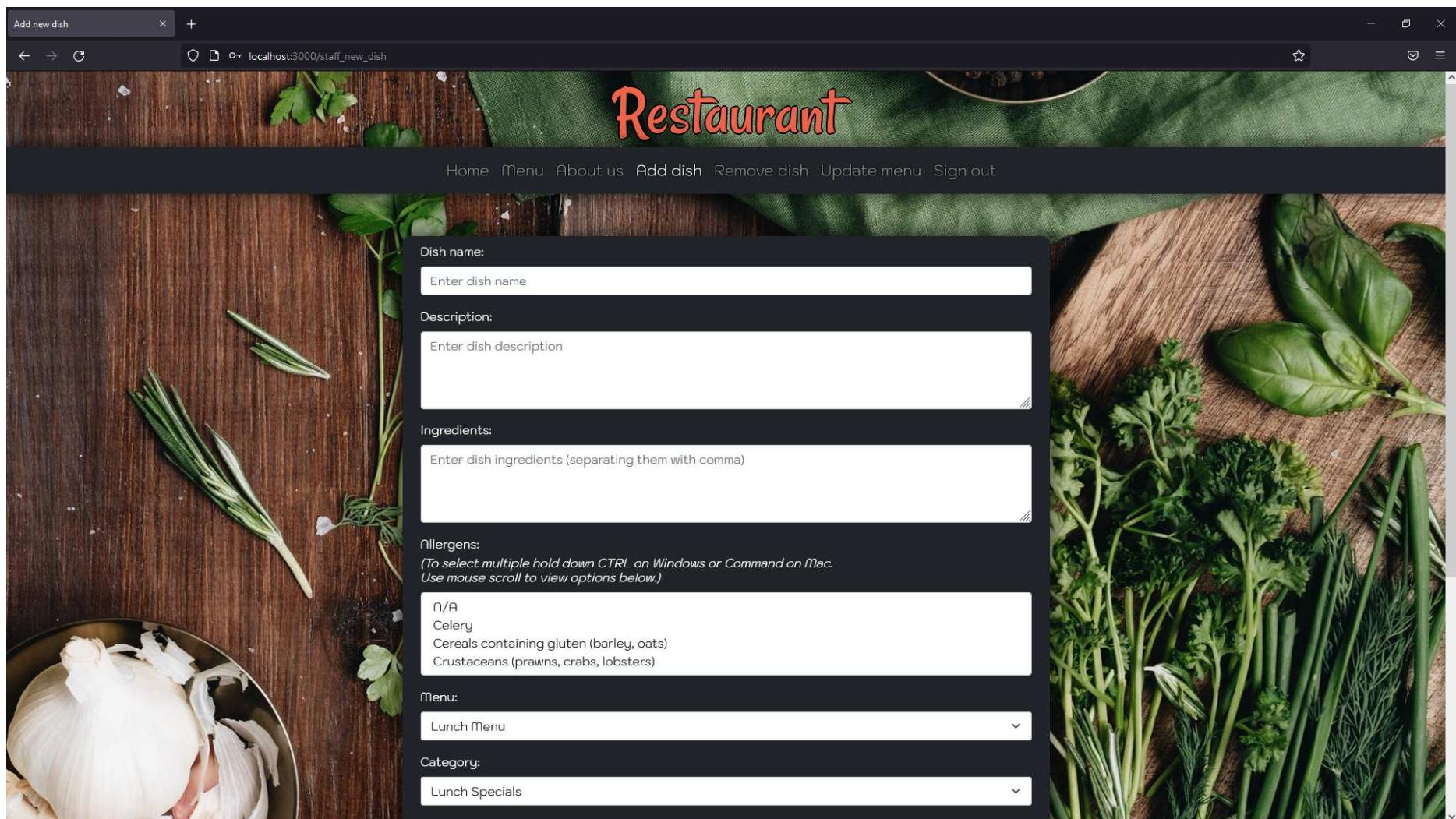


Figure 5 Navigation bar - Add dish

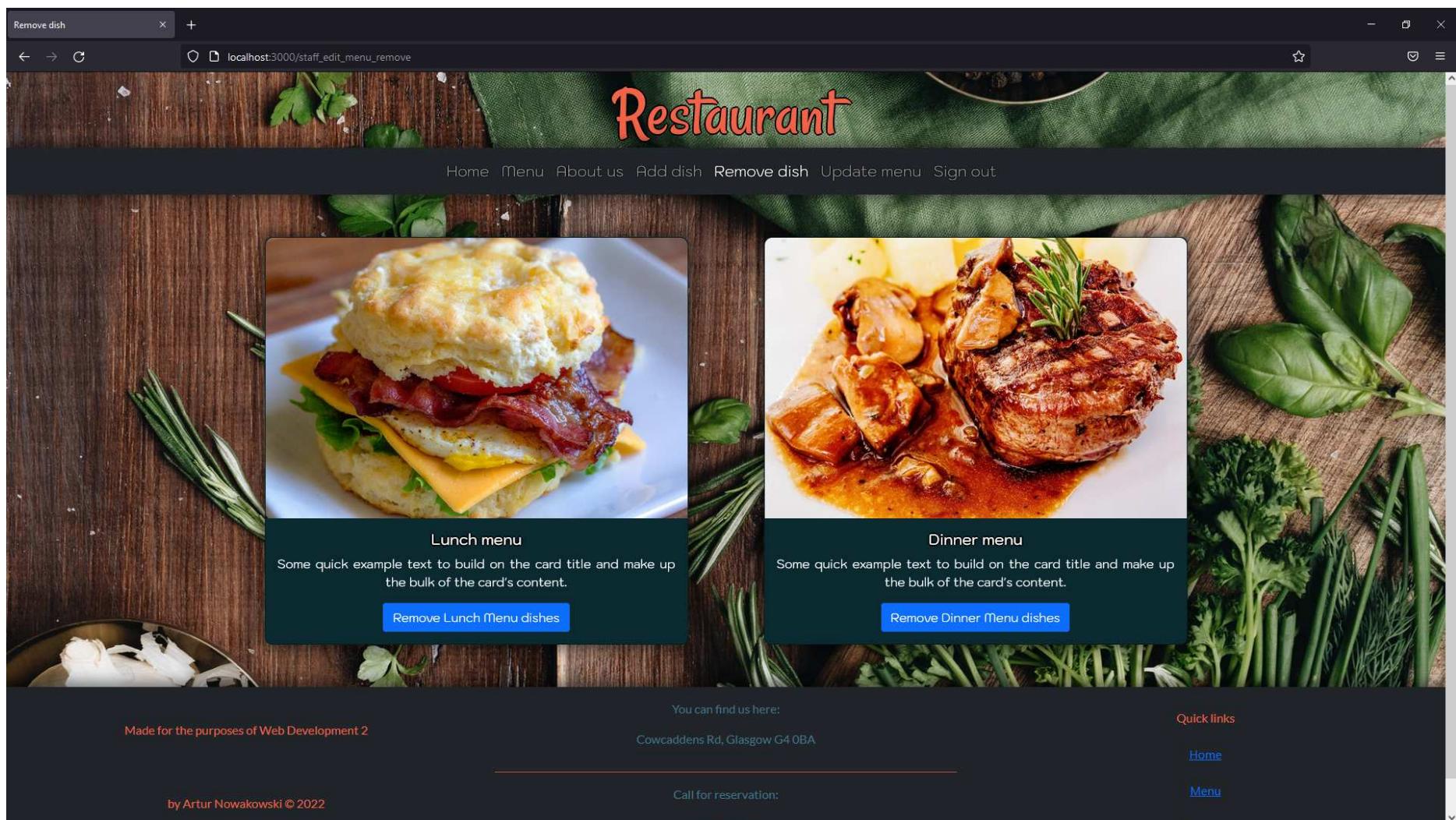


Figure 6 Navigation bar - Remove dish

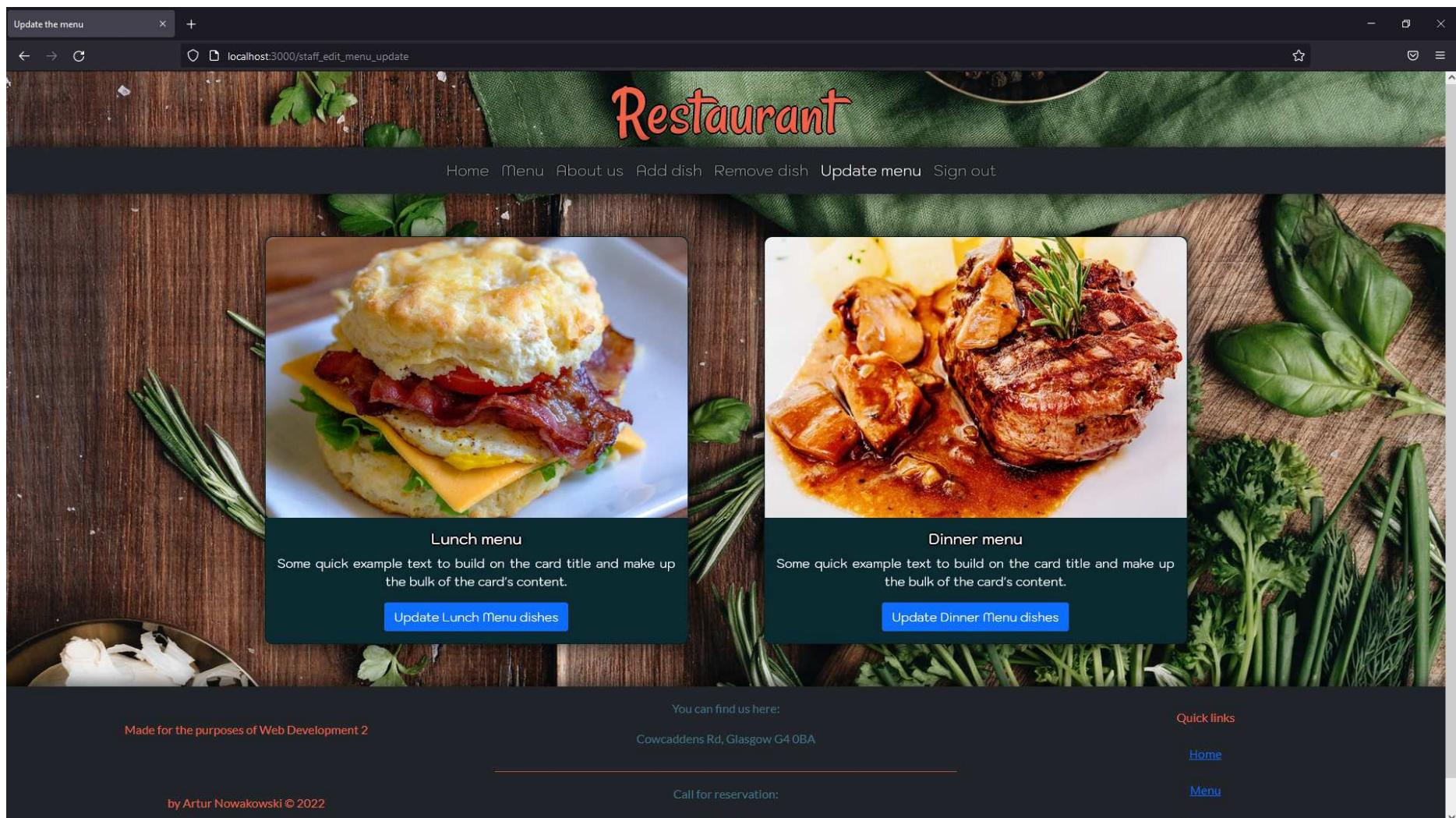


Figure 7 Navigation bar - Update menu

2.2. Footer.

Table 2 Footer testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
2.1	Footer - Displays	http://localhost:3000/	Footer is being displayed.	The same as expected result.	Look at FIGURE 8 FOOTER.	Y
2.2	Footer (Navigation) - Home	Click "Home".	Homepage loads.	The same as expected result.	Result is the same as FIGURE 1 NAVIGATION BAR (NOT AUTHORIZED ACCESS).	Y
2.3	Footer (Navigation) - Menu	Click "Menu".	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
2.4	Footer (Navigation) – About us	Click "About us".	About us page loads.	The same as expected result.	Result is the same as FIGURE 4 NAVIGATION BAR - ABOUT US.	Y
2.5	Footer (Navigation) - Staff	Click "Staff".	Staff sign in page loads.	The same as expected result.	Look at FIGURE 9 FOOTER - STAFF.	Y

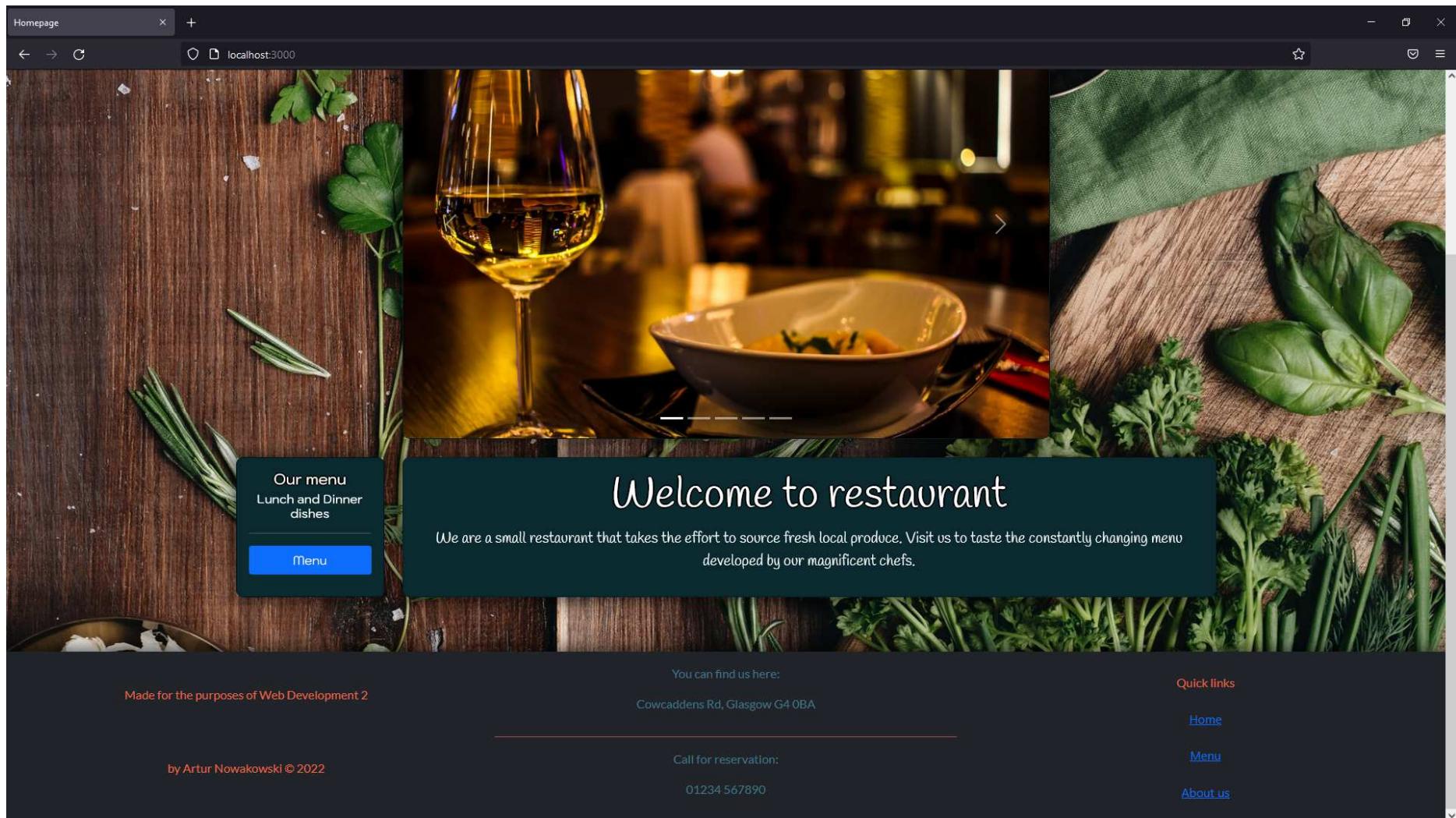


Figure 8 Footer

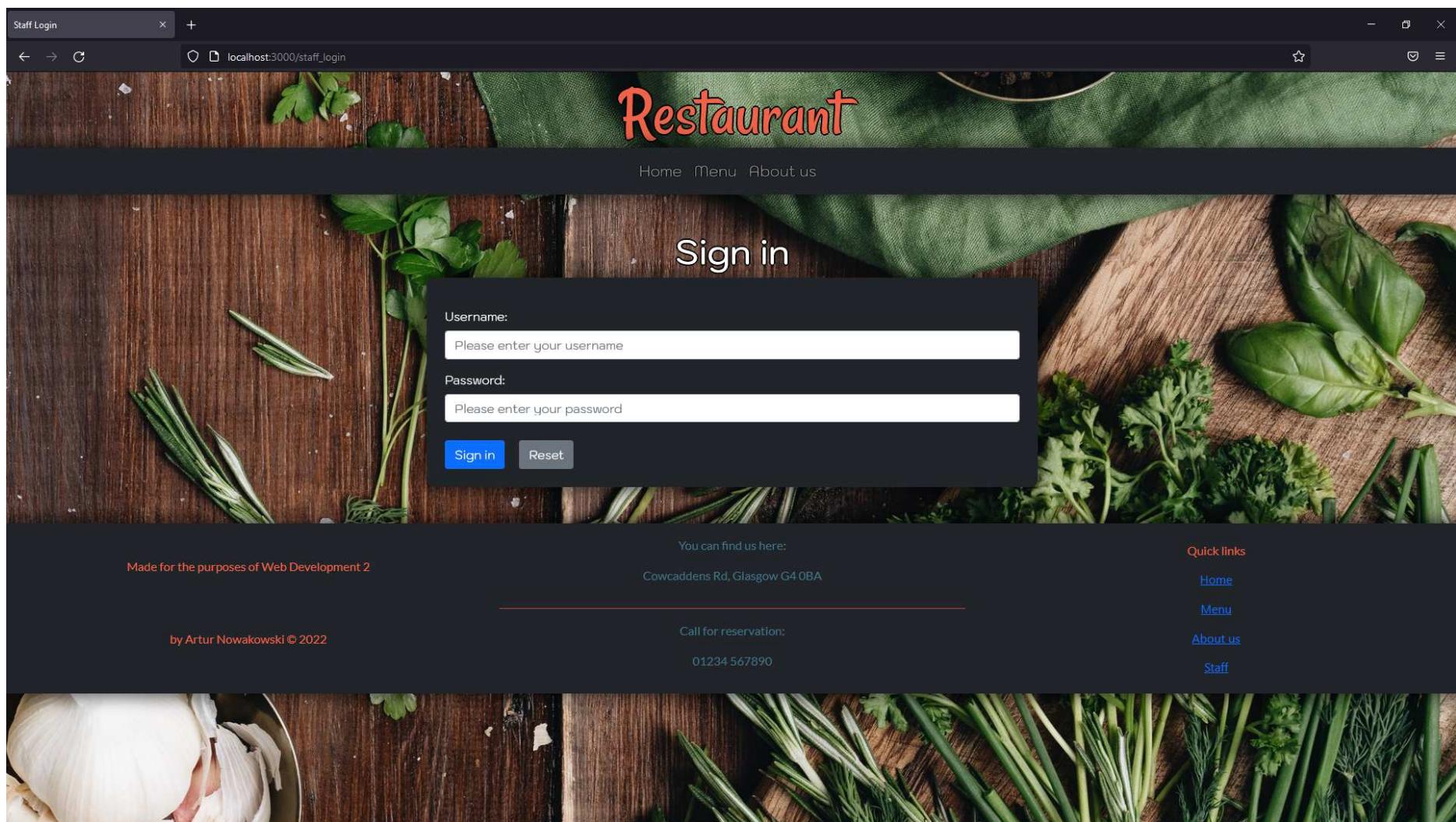


Figure 9 Footer - Staff

2.3. Landing page/Homepage.

Table 3 Landing page/Homepage testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
3.1	Landing page/Homepage - Displays	http://localhost:3000/	Landing page loads and displays working carousel with images, Check our menu card, and Welcome to restaurant element.	The same as expected result.	Result is the same as FIGURE 1 NAVIGATION BAR (NOT AUTHORIZED ACCESS).	Y
3.2	Landing page/Homepage – Menu button	Click “Menu” button on the Check our menu card.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR – MENU.	Y

2.4. Menu page.

Table 4 Menu page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
4.1	Menu page - Displays	Click "Menu" on the navigation bar or go to http://localhost:3000/menu .	Menu page displays two cards that represent Lunch and Dinner menus.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.2	Menu page – Open Lunch menu button	Click "Open Lunch menu" button.	Lunch menu page loads and displays Go back button and four cards that represent Lunch Specials, Sandwiches, Salads, and Beverages.	The same as expected result.	Look at FIGURE 10 MENU – OPEN LUNCH MENU BUTTON.	Y
4.3	Menu page (lunch) – Go back button	Click "Go back" button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.4	Menu page (lunch) – Lunch specials card	Click "Lunch specials" link.	Lunch specials page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 11 MENU (LUNCH) - LUNCH SPECIALS.	Y
4.5	Menu page (lunch) – Lunch specials page Go back button	Click "Go back" button.	Lunch menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.6	Menu page (lunch) – Sandwiches card	Click "Sandwiches" link.	Sandwiches page loads and displays Go back button along with a table	The same as expected result.	Look at FIGURE 12 MENU (LUNCH) - SANDWICHES.	Y

			with available dishes. Provides information like dish name, description, ingredients, allergens, and price.			
4.7	Menu page (lunch) – Sandwiches page Go back button	Click “Go back” button.	Lunch menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.8	Menu page (lunch) – Salad’s card	Click “Salads” link.	Salad’s page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 13 MENU (LUNCH) - SALAD.	Y
4.9	Menu page (lunch) – Salad’s page Go back button	Click “Go back” button.	Lunch menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.10	Menu page (lunch) – Beverage’s card	Click “Beverages” link.	Beverage’s page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 14 MENU (LUNCH) - BEVERAGES.	Y
4.11	Menu page (lunch) – Beverage’s page Go back button	Click “Go back” button.	Lunch menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.12	Menu page – Open Dinner menu button	Click “Open Dinner menu” button.	Dinner menu page loads and displays Go back button and five cards that	The same as expected result.	Look at FIGURE 15 MENU – OPEN DINNER MENU BUTTON.	Y

			represent Appetizers, Sides, Main Course, Desserts, and Beverages.			
4.13	Menu page (dinner) – Appetizers card	Click “Appetizers” link.	Appetizers page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 16 MENU (DINNER) - APPETIZERS.	Y
4.14	Menu page (dinner) – Appetizers page Go back button	Click “Go back” button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.15	Menu page (dinner) – Sides card	Click “Sides” link.	Sides page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 17 MENU (DINNER) - SIDES.	Y
4.15	Menu page (dinner) – Sides page Go back button	Click “Go back” button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.16	Menu page (dinner) – Main Course card	Click “Main Course” link.	Main Course page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 18 MENU (DINNER) - MAIN COURSE.	Y

4.17	Menu page (dinner) – Main Course page Go back button	Click “Go back” button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.18	Menu page (dinner) – Dessert’s card	Click “Desserts” link.	Dessert’s page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 19 MENU (DINNER) - DESSERTS.	Y
4.19	Menu page (dinner) – Dessert’s page Go back button	Click “Go back” button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y
4.20	Menu page (dinner) – Beverage’s card	Click “Beverages” link.	Beverage’s page loads and displays Go back button along with a table with available dishes. Provides information like dish name, description, ingredients, allergens, and price.	The same as expected result.	Look at FIGURE 20 MENU (DINNER) - BEVERAGES.	Y
4.21	Menu page (dinner) – Beverage’s page Go back button	Click “Go back” button.	Menu page loads.	The same as expected result.	Result is the same as FIGURE 3 NAVIGATION BAR - MENU.	Y

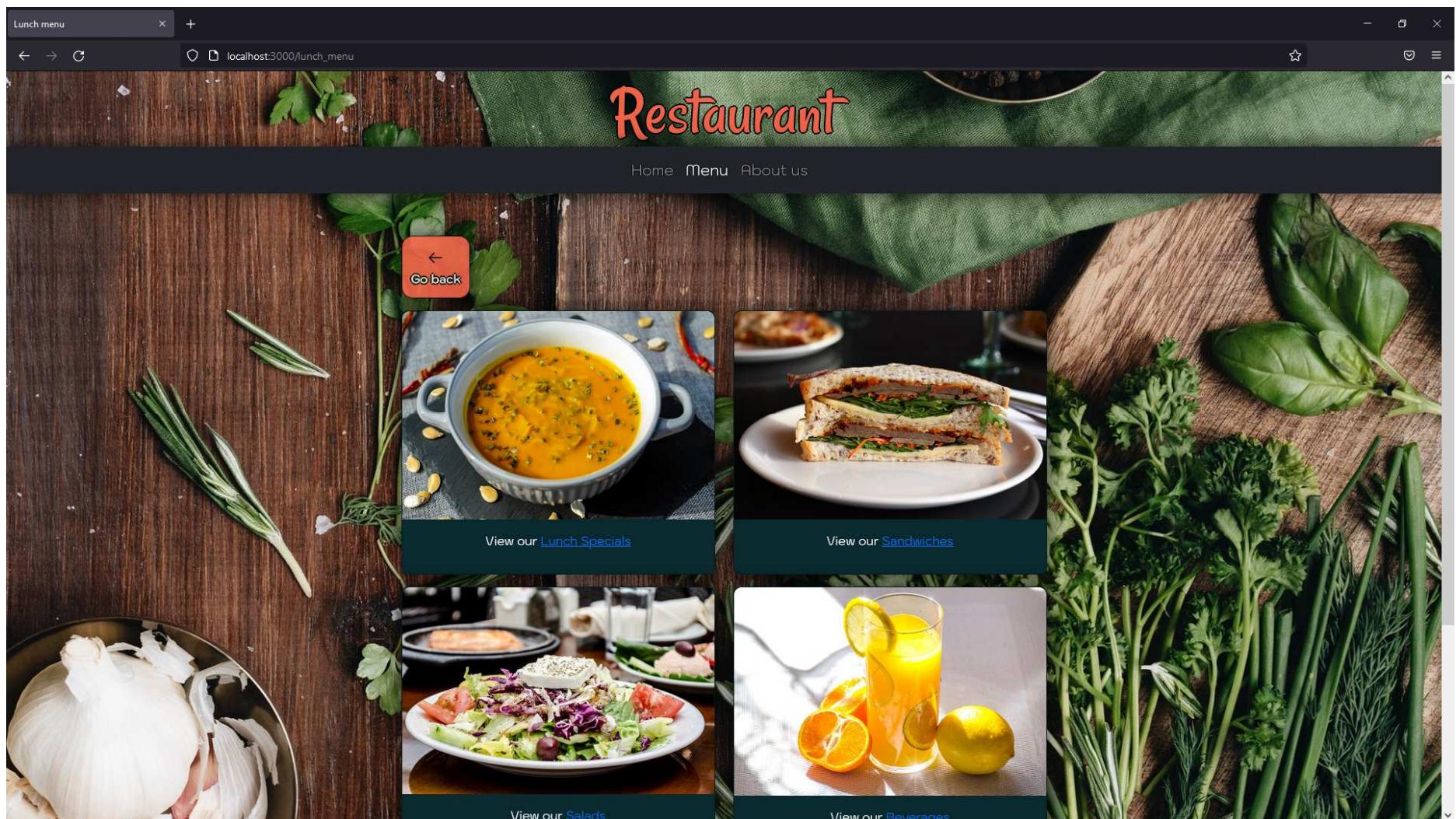


Figure 10 Menu – Open lunch menu button

Lunch menu - Lunch specials + ×

localhost:3000/lunch_menu/lunch_specials

Home Menu About us

Go back

Lunch specials

Dish name:	Description:	Ingredients:	Allergens:	Price:
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	Milk	£5.5
Lentil soup	Filling veggie soup made on a ham stock.	Ham stock, lentils, carrots, leeks, parsley to serve	n/a	£2
Lentil soup (vegan)	Filling veggie soup that is suitable for vegans	Vegetable stock, lentils, carrots, leeks, parsley to serve	n/a	£2

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Figure 11 Menu (lunch) - Lunch specials

Lunch menu - Sandwiches + ×

localhost:3000/lunch_menu/lunch_sandwiches

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← Go back

Sandwiches

Dish name:	Description:	Ingredients:	Allergens:	Price:
Bacon roll	Pan fried bacon inside of a toasted buttered roll	Roll, bacon rashers, butter	Cereals containing gluten (barley, oats), Milk	£2.5
Ham and cheese toastie	Grilled cheese sandwich with ham	Sourdough loaf or white bread, butter, ham, cheese	Cereals containing gluten (barley, oats), Milk	£2.5
Tuna melt	Grilled cheese sandwich with a tuna salad filling	Sourdough loaf or white bread, butter, cheddar, filling(tuna, mayonaise, dill pickles, red onion, mustard, salt, black pepper)	Cereals containing gluten (barley, oats), Fish, Milk, Mustard	£3.25

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Figure 12 Menu (lunch) - Sandwiches

The screenshot shows a web browser window displaying a restaurant's lunch menu for salads. The menu is presented in a table format with columns for Dish name, Description, Ingredients, Allergens, and Price. The background of the page features a wooden surface with various fresh vegetables like basil, parsley, and chives.

Dish name:	Description:	Ingredients:	Allergens:	Price:
Caesar salad	Romaine lettuce with croutons, chicken cubes, and dressing	Romaine lettuce, chicken, caesar dressing(lemon juice, anchovy paste, mustard, mayonnaise, parmesan cheese, salt, pepper), croutons	Eggs, Fish, Mustard	£4.25
Greek Salad	Fresh salad vegetables with feta cheese and a light dressing	Tomatoes, cucumbers, olives, feta cheese, onions, dressing(olive oil, salt, pepper, oregano)	Milk	£2.5
Tuna salad	Creamy and crispy comfort food classic	Tuna, mayonnaise, dill pickles, red onion, mustard, salt, black pepper	Egg, Fish, Mustard	£3

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Salads

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Figure 13 Menu (lunch) - Salads

Lunch menu - Beverages x +

localhost:3000/lunch_menu/lunch_beverages

Home Menu About us

Go back

Beverages

Dish name:	Description:	Ingredients:	Allergens:	Price:
Coffee	Arabica coffee served with a few sugar cubes and cream or milk on the side	Arabica coffee beans, sugar, cream or milk	N/A	£2.5
Orange juice	Orange juice served in a glass	Orange juice	N/A	£1.75
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	N/A	£2.5

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Figure 14 Menu (lunch) - Beverages

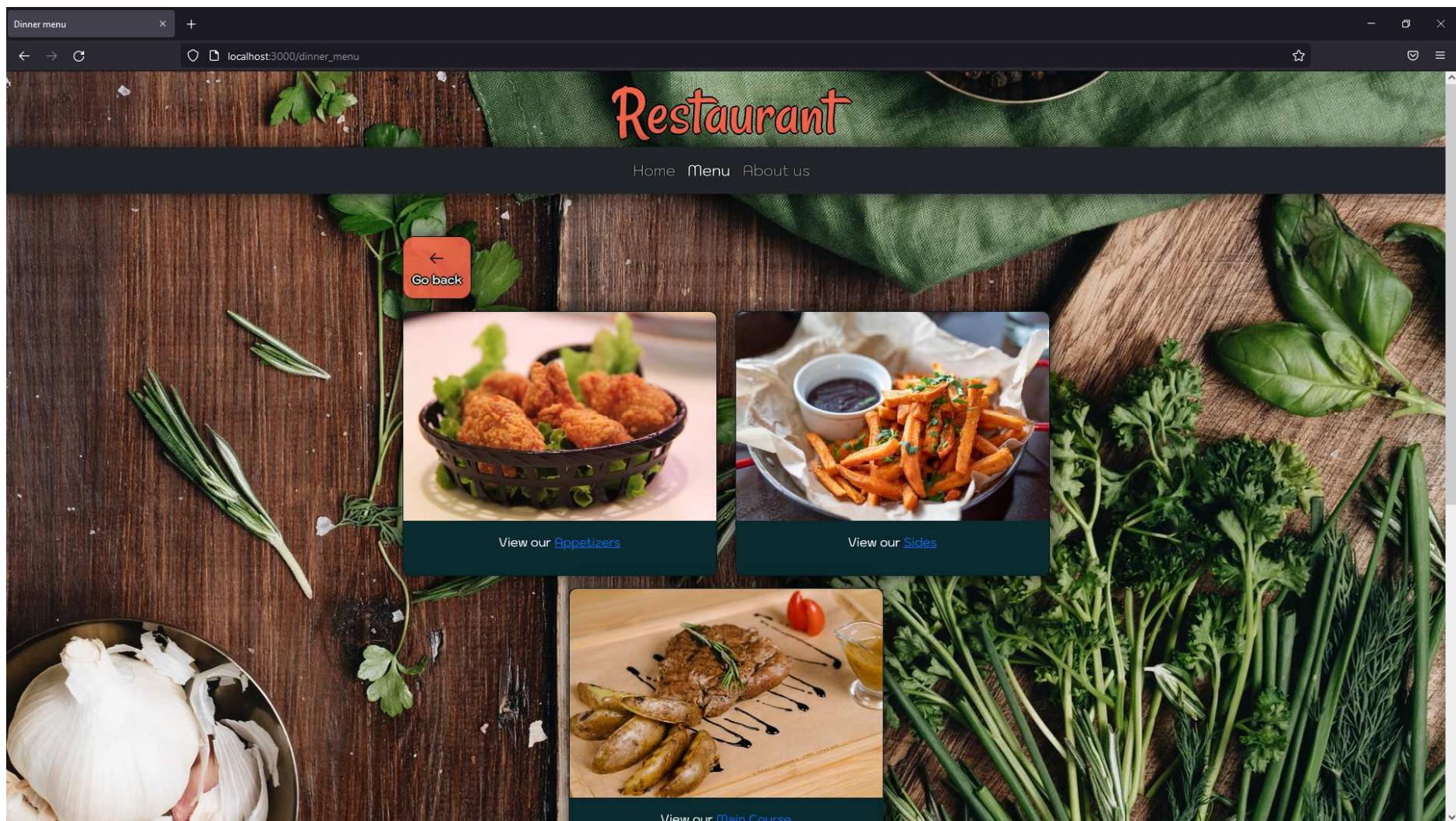


Figure 15 Menu – Open dinner menu button

The screenshot shows a web browser displaying a restaurant's dinner menu. The title bar reads "Dinner menu - Appetizers". The main header features the word "Restaurant" in a stylized red font. Below the header, there is a navigation bar with links to "Home", "Menu", and "About us". A "Go back" button is located in the top-left corner of the content area. The main content is titled "Appetizers" and displays a table with three rows of menu items. The table has columns for "Dish name:", "Description:", "Ingredients:", "Allergens:", and "Price:". The items listed are Chicken Strips, Chicken wings, and Sausage roll.

Dish name:	Description:	Ingredients:	Allergens:	Price:
Chicken Strips	Breaded and deepfried chicken strips served with dip of choice	Chicken breast, bread crumbs, eggs, salt, pepper, dip of choice	Cereals containing gluten (barley, oats), Eggs	£4.75
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	£5
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	£2.5

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Figure 16 Menu (dinner) - Appetizers

The screenshot shows a web browser window displaying a restaurant's dinner menu. The title bar reads "Dinner menu - Sides". The address bar shows the URL "localhost:3000/dinner_menu/dinner_sides". The main content area features a wooden background with fresh herbs like parsley and basil. A red header bar contains the word "Restaurant" in white. Below it, a black navigation bar includes links for "Home", "Menu", and "About us". On the left, a red button with a white arrow pointing left and the text "Go back" is visible. The main title "Sides" is centered above a table. The table has columns for "Dish name:", "Description:", "Ingredients:", "Allergens:", and "Price:". Three items are listed:

Dish name:	Description:	Ingredients:	Allergens:	Price:
Baked beans	Beans baked in tomatoe sauce	Beans, tomato paste, ketchup, chicken broth, sugar, salt, pepper, garlic powder, onion powder, cornstarch, worcestershire sauce, cornstarch	N/A	£2.5
Chips and cheese	Deepfried chips with mozzarella cheese sprinkled on top	Potatoes, mozzarella cheese, salt	Milk	£3.5
Macaroni and cheese	Pasta in a creamy cheese sauce	Pasta, butter, flour, milk, cheddar, parmesan	Cereals containing gluten (barley, oats), Eggs, Milk	£3.5

At the bottom, there are footer sections for "Made for the purposes of Web Development 2", "You can find us here: Cowcaddens Rd, Glasgow G4 0BA", "Call for reservation: 01234 567890", "Quick links Home, Menu, About us, Staff", and copyright information "by Artur Nowakowski © 2022".

Figure 17 Menu (dinner) - Sides

Dinner menu - Main Course + ×

localhost:3000/dinner_menu/dinner_main_course

Home Menu About us

Main course

Go back

Dish name:	Description:	Ingredients:	Allergens:	Price:
Chilli con carne	Spicy stew containing meat and beans	Onion, red pepper, garlic, oil, chilli powder, paprika, cumin, minced beef, beef stock, chopped tomatoes, sugar, tomato puree, kidney beans	N/A	£8.5
Spaghetti bolognese	True Italian classic – spaghetti with meaty sauce	Olive oil, onions, carrots, celery sticks, garlic, rosemary, beef mince, tomatoes, oregano, bay leaves, tomato puree, beef stock, red wine, spaghetti, parmesan	Celery, Cereals containing gluten (barley, oats), Eggs, Milk	£10
Steak and roasted potatoes	Pan fried steak with crispy roasted in duck fat potatoes	Sirloin steak, potatoes, salt, pepper, garlic granules, thyme, duck fat	N/A	£18.45

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Figure 18 Menu (dinner) - Main course

Dinner menu - Desserts

localhost:3000/dinner_menu/dinner_desserts

Restaurant

Home Menu About us

Go back

Desserts

Dish name:	Description:	Ingredients:	Allergens:	Price:
Cheesecake	Cheesecake with chocolate base	Chocolate biscuits, butter, soft cheese, double cream, icing sugar	Cereals containing gluten (barley, oats), Milk	£4
Lemon sponge cake	Citrusy sponge cake with lemon icing	Butter, sugar, eggs, lemons, flour, baking powder, greek yoghurt, icing sugar	Cereals containing gluten (barley, oats), Eggs, Milk	£4
Red velvet cake	Cake with a lovely deep maroon colour	Flour, baking soda, cocoa powder, salt, butter, sugar, oil, eggs, vanilla extract, white vinegar, red food colouring, buttermilk, cream cheese, salt	Cereals containing gluten (barley, oats), Eggs, Milk	£4

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Menu

About us

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Figure 19 Menu (dinner) - Desserts

Dinner menu - Beverages

localhost:3000/dinner_menu/dinner_beverages

Restaurant

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Go back

Beverages

Dish name:	Description:	Ingredients:	Allergens:	Price:
Coffee	Arabica coffee served with a few sugar cubes and cream or milk on the side	Arabica coffee beans, sugar, cream or milk	N/A	£2.5
Orange juice	Orange juice served in a glass	Orange juice	N/A	£1.75
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	N/A	£2.5

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Figure 20 Menu (dinner) - Beverages

2.5. About us.

Table 5 About us page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
5.1	About us page - Displays	Click “About us” on the navigation bar or go to http://localhost:3000/about_us .	About us page displays Welcome to restaurant elements along with two cards that provide philosophy of the restaurant and contact details.	The same as expected result.	Look at FIGURE 21 ABOUT US.	Y

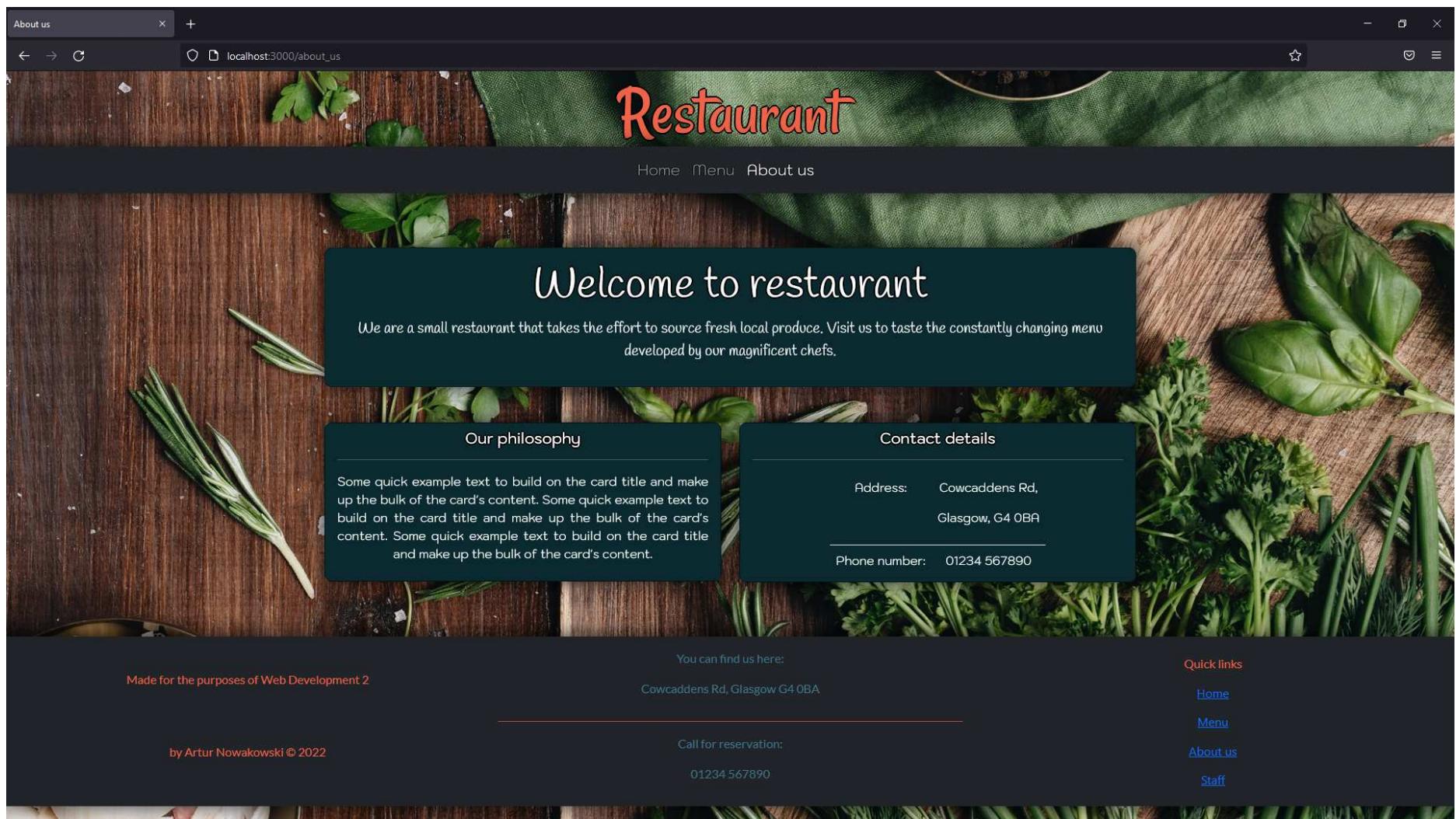


Figure 21 About us

2.6. Staff sign in.

Table 6 Staff sign in page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
6.1	Staff sign in page - Displays	Click on "Staff" link located in the footer or navigate to http://localhost:3000/staff_login .	Staff sign in page loads and displays a form.	The same as expected result.	Look at FIGURE 22 STAFF SIGN IN.	Y
6.2	Staff sign in page – Empty form submitted	Attempt to submit an empty form by clicking on "Sign in" button.	Upon submitting an empty form user should be presented with following instructions: "Please provide a username." and "Please provide a password".	The same as expected result.	Look at FIGURE 23 STAFF SIGN IN - EMPTY FORM SUBMITTED.	Y
6.3	Staff sign in page – User not found	Attempt to sign in using "Peter" as username and "Peter123" as a password.	Upon submitting a filled in form with data that is not in the database, user will be redirected to the staff sign in page and console will display "user Peter not found".	The same as expected result.	Result is the same as FIGURE 22 STAFF SIGN IN.	Y
6.4	Staff sign in page – Password not matching	Attempt to sign in using "staff" as username and "Peter123" as a password.	Upon submitting a filled in form with password that does not match with data stored in the database, user will be redirected to the staff sign in page and console	The same as expected result.	Result is the same as FIGURE 22 STAFF SIGN IN.	Y

			will display “password not matching”.			
6.5	Staff sign in page – Successful	Attempt to sign in using “staff” as username and “staff123” as a password.	Upon submitting a filled in form with data that does match with data stored in the database, user will be redirected to the Homepage and will gain authorization to access pages not available for regular users.	The same as expected result.	Result is the same as FIGURE 2 NAVIGATION BAR (AUTHORIZED ACCESS).	Y
6.6	Staff sign out	Click “Sign out” as an authorized user.	Homepage loads and user is signed out. Therefore, loses authorized access.	The same as expected result.	Result is the same as FIGURE 1 NAVIGATION BAR (NOT AUTHORIZED ACCESS).	Y

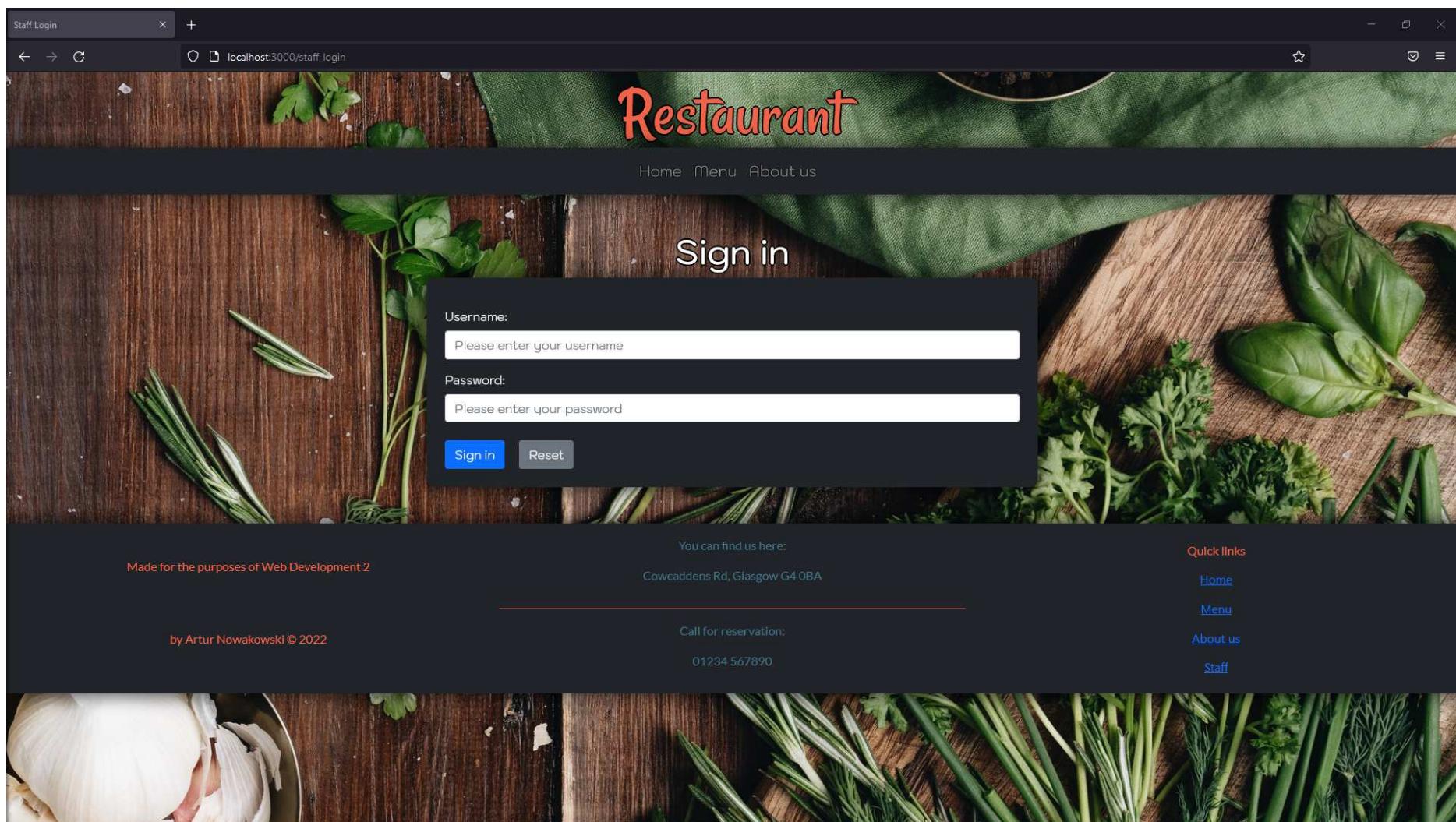


Figure 22 Staff sign in

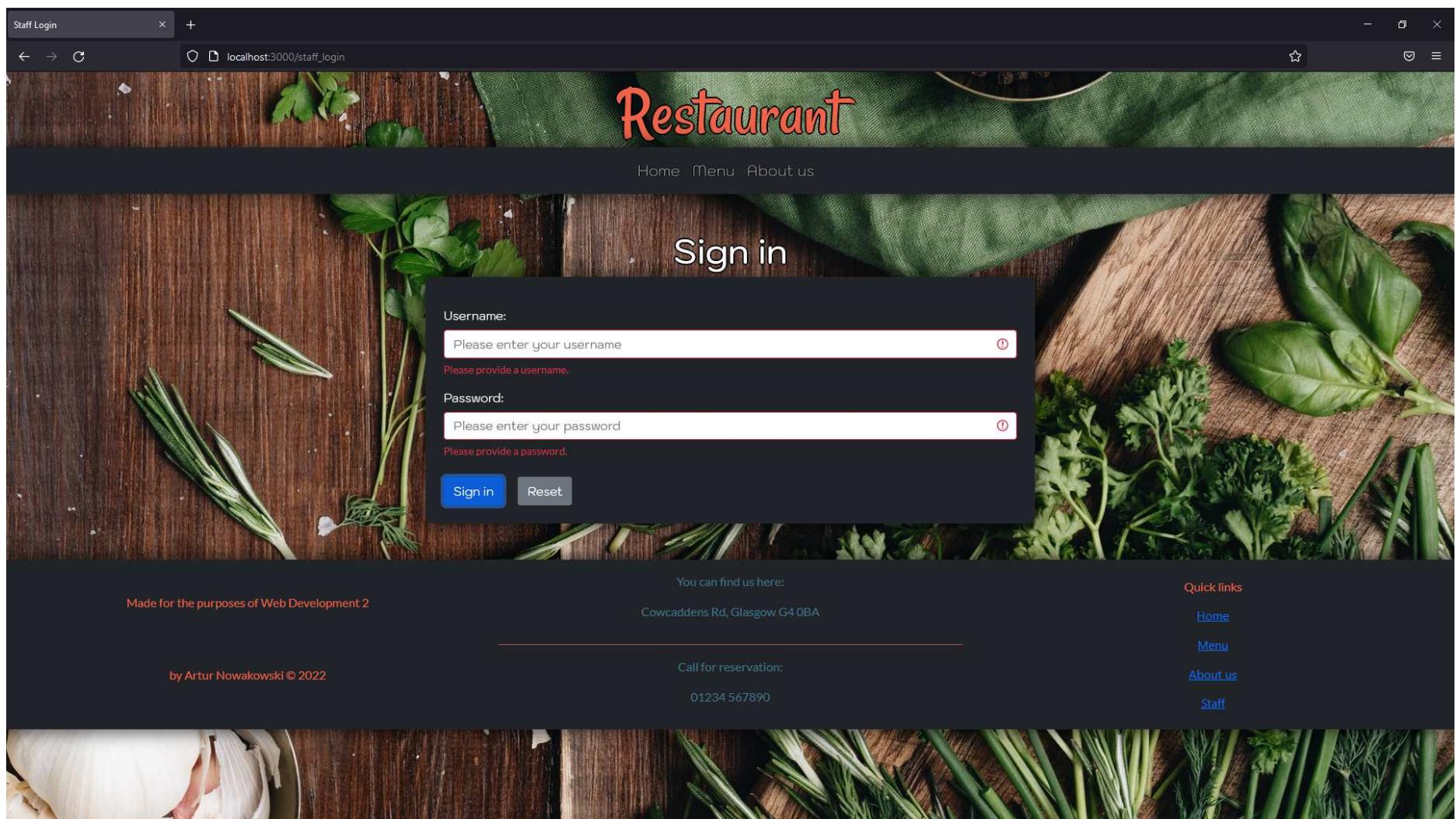


Figure 23 Staff sign in - Empty form submitted

2.7. Add new dish.

Table 7 Add new dish page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
7.1	Add new dish page - Displays	Click on “Add dish” link located in the navigation bar or navigate to http://localhost:3000/staff_new_dish .	Add new dish page displays a form that allows to insert new dish into a database.	The same as expected result.	Result is the same as FIGURE 5 NAVIGATION BAR - ADD DISH.	Y
7.2	Add new dish page – Empty form submitted	Submit an empty form by clicking on “Add new dish” button.	Upon submitting an empty form user should be presented with following instructions: “Please provide a dish name”, “Please provide dish description” etc.	The same as expected result.	Look at FIGURE 24 ADD NEW DISH - EMPTY FORM SUBMITTED.	Y
7.3	Add new dish page – Dish exists in the database	Attempt to add a new dish with name “Lentil soup” along with other information. Choose Lunch Menu and Lunch Specials, then submit the form by clicking on a “Add new dish” button.	Upon submitting “Lentil soup” dish user should be redirected to the Add new dish page and console should display “Error inserting document Lentil soup”.	The same as expected result.	Result is the same as FIGURE 5 NAVIGATION BAR - ADD DISH.	Y
7.4	Add new dish page - Successful	Attempt to add a new dish with name “Scrambled eggs” along with other information and submit the form by clicking on a “Add new dish” button.	Upon submitting “Scrambled eggs” dish user should be redirected to the Add new dish page and the dish will be inserted into the chosen database.	The same as expected result.	Result is the same as FIGURE 5 NAVIGATION BAR - ADD DISH, but the dish is inserted into the database.	Y

Add new dish

Dish name:

Enter dish name

Please provide dish name.

Description:

Enter dish description

Please provide dish description.

Ingredients:

Enter dish ingredients (separating them with comma)

Please provide dish ingredients.

Allergens:

(To select multiple hold down CTRL on Windows or Command on Mac.
Use mouse scroll to view options below.)

N/A
Celery
Cereals containing gluten (barley, oats)
Crustaceans (prawns, crabs, lobsters)

Please provide dish allergens.

Menu:

Lunch Menu

Category:

Lunch Specials

Price:

Enter price

Please provide a dish price.

Available:

Yes

No

Figure 24 Add new dish - Empty form submitted

2.8. Remove dish.

Table 8 Remove dish page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
8.1	Remove dish page - Displays	Click on "Remove dish" link located in the navigation bar or navigate to http://localhost:3000/staff_edit_menu_remove .	Remove dish page displays two cards that represent Lunch and Dinner menus.	The same as expected result.	Result is the same as FIGURE 6 NAVIGATION BAR - REMOVE DISH.	Y
8.2	Remove dish page – Remove Lunch Menu dishes button	Click on "Remove Lunch Menu dishes" button.	Remove Lunch Menu page loads and displays Go back button along with a form and a table with all dishes. Table provides information like dish name, category, and availability.	The same as expected result.	Look at FIGURE 25 REMOVE DISH - REMOVE LUNCH MENU DISHES.	Y
8.3	Remove dish page (lunch) – Go back button	Click on "Go back" button.	Remove dish page loads.	The same as expected result.	Result is the same as FIGURE 6 NAVIGATION BAR - REMOVE DISH.	Y
8.4	Remove dish page (lunch) – Empty form submitted	Attempt to submit an empty form.	Upon submitting an empty form user should be presented with following instructions: "Please provide dish name".	The same as expected result.	Look at FIGURE 26 REMOVE DISH (LUNCH) - EMPTY FORM SUBMITTED.	Y
8.5	Remove dish page (lunch) - Successful	Copy name of a dish presented in the table below and paste it into the form's input box,	Upon submitting dish name user should be redirected to updated page that has the user	The same as expected result.	Look at FIGURE 27 REMOVE DISH (LUNCH) - COFFEE REMOVED and compare it with FIGURE 25 REMOVE	Y

		then click on the "Remove dish" button.	input dish removed. Additionally, inputted dish is removed from the database.		DISH - REMOVE LUNCH MENU DISHES.	
8.6	Remove dish page – Remove Dinner Menu dishes button	Click on "Remove Dinner Menu dishes" button.	Remove Dinner Menu page loads and displays Go back button along with a form and a table with all dishes. Table provides information like dish name, category, and availability.	The same as expected result.	Look at FIGURE 28 REMOVE DISH - REMOVE DINNER MENU DISHES.	Y
8.7	Remove dish page (dinner) – Go back button	Click on "Go back" button.	Remove dish page loads.	The same as expected result.	Result is the same as FIGURE 6 NAVIGATION BAR - REMOVE DISH.	Y
8.8	Remove dish page (dinner) – Empty form submitted	Attempt to submit an empty form by clicking on the "Remove dish" button.	Upon submitting an empty form user should be presented with following instructions: "Please provide dish name".	The same as expected result.	Look at FIGURE 29 REMOVE DISH (DINNER) - EMPTY FORM SUBMITTED.	Y
8.9	Remove dish page (dinner) - Successful	Copy name of a dish presented in the table below and paste it into the form's input box, then click on the "Remove dish" button.	Upon submitting dish name user should be redirected to updated page that has the user input dish removed. Additionally, inputted dish is removed from the database.	The same as expected result.	Look at FIGURE 30 REMOVE DISH (DINNER) - CHICKEN STRIPS REMOVED and compare it with FIGURE 28 REMOVE DISH - REMOVE DINNER MENU DISHES.	Y

The screenshot shows a web browser window with the title "Remove Lunch Menu Dish". The URL in the address bar is "localhost:3000/staff_lunch_menu_remove". The main content area features a background image of various fresh herbs and vegetables. At the top, there's a navigation bar with links: Home, Menu, About us, Add dish, Remove dish, Update menu, and Sign out. A red button labeled "Go back" is visible on the left. In the center, a modal dialog is open with the title "Remove dish". It contains a text input field labeled "Dish name:" with the placeholder "Enter dish name". Below the input are two buttons: a blue "Remove dish" button and a grey "Reset" button. The main table below the modal lists six items:

Dish name:	Description:	Ingredients:	Allergens:	Price:
Coffee	Arabica coffee served with a few sugar cubes and cream or milk on the side	Arabica coffee beans, sugar, cream or milk	N/A	£2.5
Orange juice	Orange juice served in a glass	Orange juice	N/A	£1.75
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	N/A	£2.5
Apple juice	Apple juice served in a glass	Apple juice	N/A	£1.75
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	Milk	£5.5

Figure 25 Remove dish - Remove lunch menu dishes

Remove Lunch Menu Dish x +

localhost:3000/staff_lunch_menu_remove

Restaurant

Home Menu About us Add dish Remove dish Update menu Sign out

Lunch Menu

Remove dish

Dish name:

Enter dish name

Please provide dish name.

Remove dish Reset

Dish name:	Description:	Ingredients:	Allergens:	Price:
Coffee	Arabica coffee served with a few sugar cubes and cream or milk on the side	Arabica coffee beans, sugar, cream or milk	n/a	£2.5
Orange juice	Orange juice served in a glass	Orange juice	n/a	£1.75
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	n/a	£2.5
Apple juice	Apple juice served in a glass	Apple juice	n/a	£1.75
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	Milk	£5.5

Figure 26 Remove dish (lunch) - Empty form submitted

The screenshot shows a web browser window with the title "Remove Lunch Menu Dish". The URL in the address bar is "localhost:3000/staff_lunch_menu_remove". The main content area has a header "Restaurant" with a green cloth and herbs in the background. Below the header is a navigation bar with links: Home, Menu, About us, Add dish, Remove dish, Update menu, and Sign out. The main content is titled "Lunch Menu" and displays a table of menu items. A modal window titled "Remove dish" is overlaid on the table, containing a text input field "Dish name:" with placeholder "Enter dish name", and two buttons: "Remove dish" (blue) and "Reset" (grey). The table has columns: Dish name, Description, Ingredients, Allergens, and Price. The data is as follows:

Dish name:	Description:	Ingredients:	Allergens:	Price:
Orange juice	Orange juice served in a glass	Orange juice	N/A	£1.75
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	N/A	£2.5
Apple juice	Apple juice served in a glass	Apple juice	N/A	£1.75
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	Milk	£5.5
Bacon and sour cream jacket potato	asd	asd	N/A	£1.25
Lentil soup	Filling veggie soup made on a ham stock	Ham stock, lentils, carrots, leeks, parsley to serve	N/A	£2

Figure 27 Remove dish (lunch) - Coffee removed

Dinner Menu

Remove dish

Dish name:	Description:	Ingredients:	Allergens:	Price:
Chicken Strips	Breaded and deepfried chicken strips served with dip of choice	Chicken breast, bread crumbs, eggs, salt, pepper, dip of choice	Cereals containing gluten (barley, oats), Eggs	£4.75
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	£5
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	£2.5
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	£3.5
Coffee	Arabica coffee served with a few sugar cubes and cream	Arabica coffee beans, sugar, cream or milk	N/A	£2.5

Figure 28 Remove dish - Remove dinner menu dishes

Dinner Menu

Remove dish

Dish name:

Enter dish name

Please provide dish name.

Remove dish Reset

Dish name:	Description:	Ingredients:	Allergens:	Price:
Chicken Strips	Breaded and deepfried chicken strips served with dip of choice	Chicken breast, bread crumbs, eggs, salt, pepper, dip of choice	Cereals containing gluten (barley, oats), Eggs	£4.75
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	£5
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	£2.5
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	£3.5
	Arabica coffee served with a	Arabica coffee beans, sugar		

Figure 29 Remove dish (dinner) - Empty form submitted

Dinner Menu

Remove dish

Dish name:

Enter dish name

Remove dish Reset

Dish name:	Description:	Ingredients:	Allergens:	Price:
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	£5
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	£2.5
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	£3.5
Coffee	Arabica coffee served with a few sugar cubes and cream or milk on the side	Arabica coffee beans, sugar, cream or milk	N/A	£2.5
Orange juice	Orange juice served in a glass	Orange juice	N/A	£1.75

Figure 30 Remove dish (dinner) - Chicken strips removed

2.9. Update menu.

Table 9 Update menu page testing

Test ID	Test Case	Action	Expected result	Actual result	Evidence	Passed Y/N
9.1	Update menu page - Displays	Click on “Update menu” link located in the navigation bar or navigate to http://localhost:3000/staff_edit_menu_update .	Edit the menu page displays two cards that represent Lunch and Dinner menus.	The same as expected result.	Result is the same as FIGURE 7 NAVIGATION BAR - UPDATE MENU.	Y
9.2	Update menu page – Update Lunch Menu dishes button	Click on “Update Lunch Menu dishes” button.	Update Lunch Menu dish page loads and displays Go back button along with a form and a table with all dishes. Table provides information like dish name, category, and availability.	The same as expected result.	Look at FIGURE 31 UPDATE MENU - UPDATE LUNCH MENU DISHES.	Y
9.3	Update menu page (lunch) - Go back button	Click on “Go back” button.	Update the menu page loads.	The same as expected result.	Result is the same as FIGURE 7 NAVIGATION BAR - UPDATE MENU.	Y
9.4	Update menu page (lunch) – Empty form submitted (choose dish form)	Attempt to submit an empty form by clicking on “Edit dish” button.	Upon submitting an empty form user should be presented with following instructions: “Please provide dish name”.	The same as expected result.	Look at FIGURE 32 UPDATE MENU (LUNCH) - EMPTY FORM SUBMITTED.	Y
9.5	Update menu page (lunch) – Successful (choose dish form)	Copy name of a dish presented in the table below and paste it into the form’s input box,	Upon submitting dish name user should be presented with a new form that is filled in with	The same as expected result.	Look at FIGURE 33 UPDATE MENU (LUNCH) - ORANGE JUICE.	Y

		then click on the “Remove dish” button.	data retrieved from the database.			
9.6	Update menu page (lunch) – Successful (edit chosen dish form)	Edit form input boxes and submit the changes by clicking on “Update dish” button.	Upon submitting edited dish form user is redirected to the Edit Lunch Menu dish page, where recently edited dish is updated. Additionally, changes are reflected in the database.	The same as expected result.	Look at FIGURE 34 UPDATE MENU (LUNCH) - ORANGE JUICE EDITED and compare it with FIGURE 31 UPDATE MENU - UPDATE LUNCH MENU DISHES.	Y
9.7	Update menu page – Update Dinner Menu dishes button	Click on “Update Dinner Menu dishes” button.	Update Dinner Menu dish page loads and displays Go back button along with a form and a table with all dishes. Table provides information like dish name, category, and availability.	The same as expected result.	Look at FIGURE 35 UPDATE MENU - UPDATE DINNER MENU DISHES.	Y
9.8	Update menu page (dinner) - Go back button	Click on “Go back” button.	Update the menu page loads.	The same as expected result.	Result is the same as FIGURE 7 NAVIGATION BAR - UPDATE MENU.	Y
9.9	Update menu page (dinner) – Empty form submitted (choose dish form)	Attempt to submit an empty form by clicking on “Edit dish” button.	Upon submitting an empty form user should be presented with following instructions: “Please provide dish name”.	The same as expected result.	Look at FIGURE 36 UPDATE MENU (DINNER) - EMPTY FORM SUBMITTED.	Y
9.10	Update menu page (dinner) – Successful (choose dish form)	Copy name of a dish presented in the table below and paste it into the form’s input box, then click on the “Remove dish” button.	Upon submitting dish name user should be presented with a new form that is filled in with data retrieved from the database.	The same as expected result.	Look at FIGURE 37 UPDATE MENU (DINNER) - CHICKEN WINGS.	Y

9.11	Update the menu page (dinner) – Successful (edit chosen dish form)	Edit form input boxes and submit the changes by clicking on “Update dish” button.	Upon submitting edited dish form user is redirected to the Edit Dinner Menu dish page, where recently edited dish is updated. Additionally, changes are reflected in the database.	The same as expected result.	Look at FIGURE 38 UPDATE MENU (DINNER) - CHICKEN WINGS EDITED and compare it with FIGURE 35 UPDATE MENU - UPDATE DINNER MENU DISHES.	Y
------	--	---	--	------------------------------	--	---

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Orange juice	Orange juice served in a glass	Orange juice	n/a	beverages	1.75	yes
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	n/a	beverages	2.5	yes
Apple juice	Apple juice served in a glass	Apple juice	n/a	beverages	1.75	no
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	milk	lunch specials	5.5	yes

Figure 31 Update menu - Update lunch menu dishes

Home Menu About us Add dish Remove dish Update menu Sign out

Lunch Menu

Edit dish

Dish name:

Enter dish name

Please provide dish name.

Edit dish Reset

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Orange juice	Orange juice served in a glass	Orange juice	n/a	beverages	1.75	yes
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	n/a	beverages	2.5	yes
Apple juice	Apple juice served in a glass	Apple juice	n/a	beverages	1.75	no
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers and fresh	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	milk	lunch specials	5.5	yes

Figure 32 Update menu (lunch) - Empty form submitted

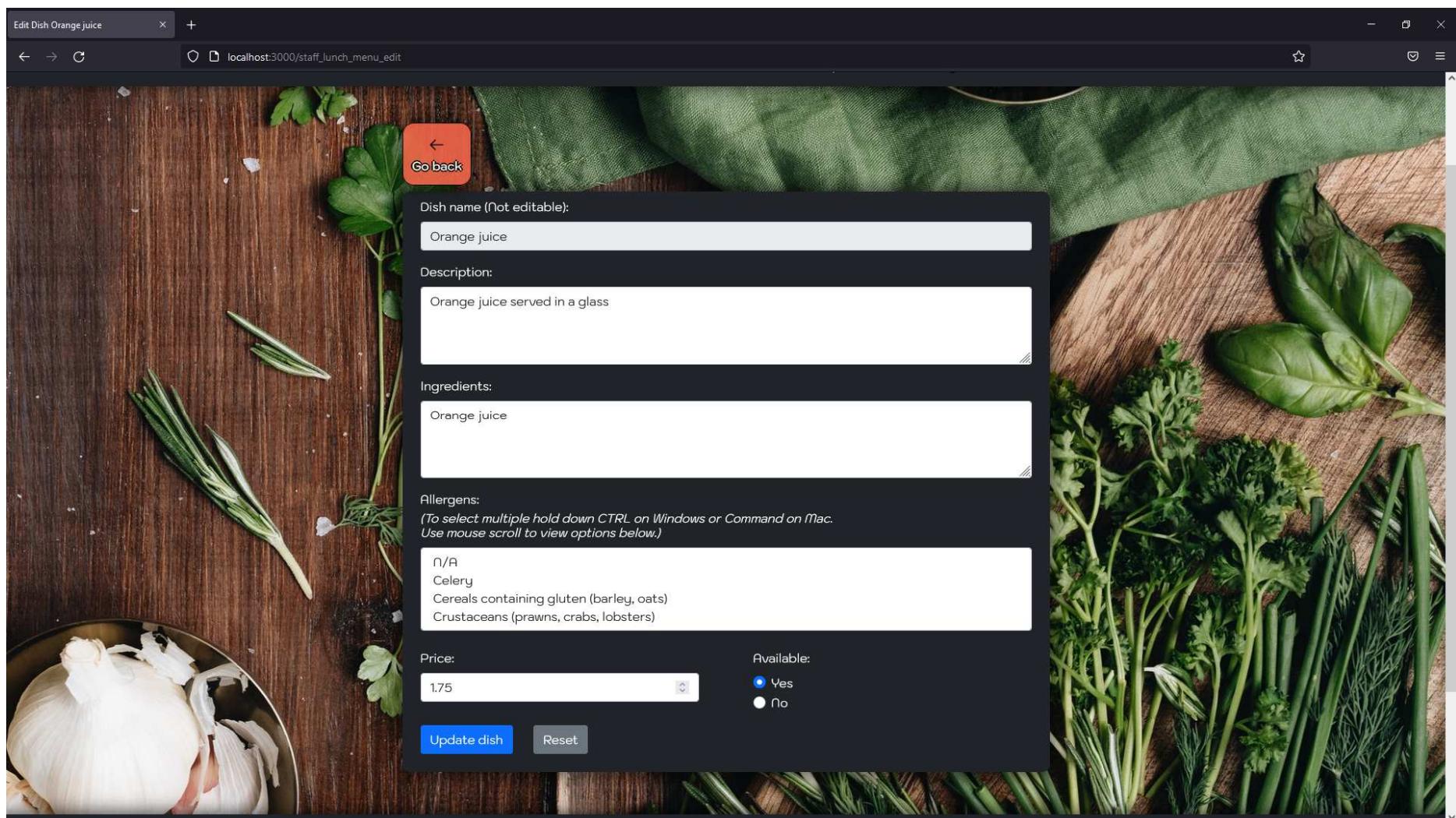


Figure 33 Update menu (lunch) - Orange juice

Home Menu About us Add dish Remove dish Update menu Sign out

Lunch Menu

Edit dish

Dish name:

Enter dish name

Edit dish Reset

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Orange juice	Orange juice served in a glass [Edited]	Orange juice [Edited]	n/a	beverages	0.99	yes
Tea	Black tea served with a slice of lemon and a few sugar cubes on the side	Tea, lemon, sugar	n/a	beverages	2.5	yes
Apple juice	Apple juice served in a glass	Apple juice	n/a	beverages	1.75	no
Bacon and sour cream jacket potato	Classic jacket potato topped with soured cream, cheddar, crispy chopped bacon rashers, and fresh chives	Potato, olive oil, soured cream, cheddar, bacon rashers, chives	milk	lunch specials	5.5	yes

Figure 34 Update menu (lunch) - Orange juice edited

Dinner Menu

Edit dish

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	appetizers	5	yes
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	appetizers	2.5	yes
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	appetizers	3.5	no
	Arabica coffee served with a few	Arabica coffee				

Figure 35 Update menu - Update dinner menu dishes

The screenshot shows a web application for managing a restaurant menu. At the top, there's a navigation bar with links for Home, Menu, About us, Add dish, Remove dish, Update menu, and Sign out. Below the navigation is a banner with the word "Restaurant" in a stylized font. The main content area is titled "Dinner Menu" and contains a sub-section titled "Edit dish". This section includes a "Dish name:" label with an input field containing "Enter dish name" and a red error message "Please provide dish name.". There are two buttons: "Edit dish" (blue) and "Reset" (grey). Below this, there's a table listing three menu items:

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Chicken wings	Breaded and deepfried chicken wings	Chicken wings, bread crumbs, eggs, salt, pepper	Cereals containing gluten (barley, oats), Eggs	appetizers	5	yes
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	appetizers	2.5	yes
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	appetizers	3.5	no

Figure 36 Update menu (dinner) - Empty form submitted

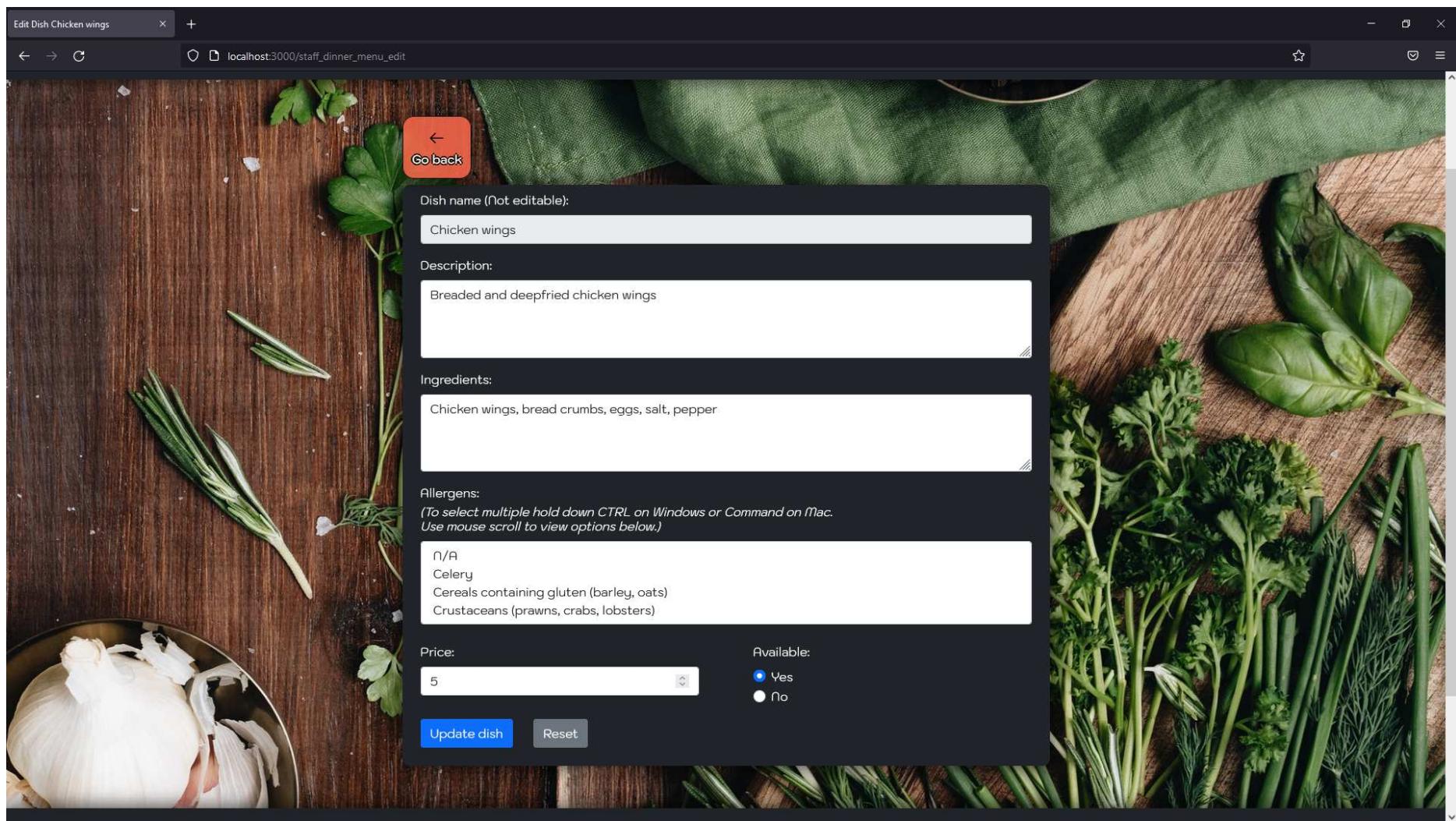


Figure 37 Update menu (dinner) - Chicken wings

Dish name:	Description:	Ingredients:	Allergens:	Category:	Price:	Available:
Chicken wings	Breaded and deepfried chicken wings [Edited]	Chicken wings, bread crumbs, eggs, salt, pepper [Edited]	n/a	appetizers	9.99	yes
Sausage roll	Flaky pastry with delicious meaty filling	Sausages, puff pastry, egg	Cereals containing gluten (barley, oats), Eggs, Milk, Soybeans, Sulphur dioxide and sulphites	appetizers	2.5	yes
Mini pizza	Classic margherita mini pizza	Flour, yeast, sugar, olive oil, passata, mixed herbs, mozzarella	Cereals containing gluten (barley, oats), Milk	appetizers	3.5	no

Figure 38 Update menu (dinner) - Chicken wings edited

3. Summary of test results.

Navigation bar – as per TABLE 1 NAVIGATION BAR TESTING, the entirety of the use case tests has been passed.

Footer - as per TABLE 2 FOOTER TESTING, the entirety of the use case tests has been passed.

Landing page/Homepage - as per TABLE 3 LANDING PAGE/HOMEPAGE TESTING, the entirety of the use case tests has been passed.

Menu page - as per TABLE 4 MENU PAGE TESTING, the entirety of the use case tests has been passed.

About us page - as per TABLE 5 ABOUT US PAGE TESTING, the entirety of the use case tests has been passed.

Staff sign in/ sign out - as per TABLE 6 STAFF SIGN IN PAGE TESTING, the entirety of the use case tests has been passed.

Add new dish - as per TABLE 7 ADD NEW DISH PAGE TESTING, the entirety of the use case tests has been passed.

Remove dish - as per TABLE 8 REMOVE DISH PAGE TESTING, the entirety of the use case tests has been passed.

Update menu - as per TABLE 9 UPDATE MENU PAGE TESTING, the entirety of the use case tests has been passed.

As mentioned above, all the tables and use case test that such tables contain has been passed. Showing that the proposed system is adhering to the specification and requirements of the WAD2 Practical coursework: Development of a website for a restaurant, which are:

- Not logged-in users can access an About Us page with details of the restaurant and its philosophy, along with being able to view the details of current menus. Such details should include name of dish, description, ingredients, allergy advice, and prices.
- Staff members should be able to sign in, to the system and enter details of new dishes, but also update the menus that are displayed for not authorized users.
- Alongside these requirements, it was necessary for the web application to be developed using Node.js and Express.js. Furthermore, as an information storing system, NeDB had to be utilised.

4. Deployment.

To view deployed application please click [here](#).

Staff details:

Username: staff

Password: staff123