

Testing

1. Test Plan

1.1. Detailed test plan

Test series 1- Testing the hyperlinks in the system (Top-down testing)

Test series 2- Testing the functionality of the drag and drop pages (Black box testing)

Test series 3- Testing the forms to see if they input data to the database (Black box testing)

Test series 4- Testing all the ajax scripts to see if the correct data is displayed (integration testing as lots of pages are integrated by the ajax scripts)

Test series and number	Purpose	Description
1.1	Test a link from the Homepage to databasing	Click the link and check where it leads to
1.2	Test a link in layout that takes you to databasing	Click the link and check where it leads to
1.3	Test a link from the Databasing area to homepage	Click the link and check where it leads to
1.4	Test a link from the layout area to homepage	Click the link and check where it leads to
1.5	Test a link from the guides area to homepage	Click the link and check where it leads to
1.6	Test a link from databasing to layout	Taken to passcode check
1.7	Test a link in layout that leads to the floor plan of the restaurant	Link should take you to the page with a floor plan on it
1.8	Test a link in layout that leads to the floor plan of the conservatory	Link should take you to the page with a floor plan on it
2.1	Test a square table for draggable properties in a layout page	Clicking and holding with the mouse should allow movements, letting go with the mouse should place the box
2.2	Test a rectangular table for draggable properties in a layout page	Clicking and holding with the mouse should allow movements, letting go with the mouse should place the box
2.3	Test a circular table for draggable properties in a layout page	Clicking and holding with the mouse should allow movements, letting go with the mouse should place the box
2.4	Test the oval table for draggable properties in a	Clicking and holding with the mouse should allow movements, letting go with

	layout page	the mouse should place the box
2.5	Click the rotate button on a rectangular table	Table rotates 90 degrees
2.6	Click the rotate button on the oval table	Table rotates 90 degrees
2.7	Drag a table next to another table and check to see if they snap together	Table snaps to another object when close enough
3.1	Test that adding booking information correctly adds a record to the database	Data should be seen in MySQL with the correct foreign keys and data
3.2	Test that adding dish information correctly adds a record to the database	Data should be seen in MySQL with the correct foreign keys and data
3.3	Test that adding menu information correctly adds a record to the database	Data should be seen in MySQL with the correct foreign keys and data
3.4	Test that adding employee information correctly adds a record to the database	Data should be seen in MySQL with the correct foreign keys and data
3.5	Test that adding table information correctly adds a record to the database	Data should be seen in MySQL with the correct foreign keys and data
3.6	Test deleting employee information	Phone numbers are replaced with '-1' and email set to the string 'null'
3.7	Test deleting employee information	Phone numbers are replaced with '-1' and email set to the string 'null'
4.1	Select booking option on data insert drop down	Related fields are displayed directly below the drop down
4.2	Select employee option on data insert drop down	Related fields are displayed directly below the drop down
4.3	Select create a menu option on data insert drop down	Related fields are displayed directly below the drop down
4.4	Select create a dish on data insert drop down	Related fields are displayed directly below the drop down
4.5	Select manage shifts on data insert drop down	Related fields are displayed directly below the drop down
4.6	Select employee on data delete drop down	Related table is displayed below drop down
4.7	Select customer on data delete drop down	Related table is displayed below drop down
4.8	Select menu on data delete drop down	Related table is displayed below drop down
4.9	Select a menu from the result of 4.10	The dishes in this menu are then displayed
4.10	Select booking from data modify drop down	Related table is displayed below drop down
4.11	Click a booking from the table in 4.12	Booking fields should appear with previous information already entered

1.2. Changes for original plan

From the original plan I have made a lot of changes, the main changes are that the table layout pages will no longer save the position of the objects, but rather be set to a default position, also, the alert messages will no longer be used in the system, this decision was reached after the client decided they were not worth including as the data will be queried regularly, so high priority bookings will be well noted already. More tests have been added to the original plan to make my testing much more comprehensive than it previously would have been, this meaning each form will be individually tested for its inputs. These comments refer to the removal of test series 3 & 5 from the outline test plan in the design section.

2. Test Data

2.1. Test data

Test series and number	Test data	Expected result	Actual result
1.1	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.2	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.3	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.4	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.5	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.6	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.7	Mouse clicks	Clicking the link takes you to the corresponding page	Correct page displayed
1.8	Mouse clicks	Clicking the link takes you to the	Correct page displayed

		corresponding page	
2.1	Single click	No effect	No effect
	Click, hold and drag	Box follows mouse movement	Box follows mouse movement
	Remove mouse	Box stops moving and rests in new position	Box stops moving and rests in new position
2.2	Single click	No effect	No effect
	Click, hold and drag	Box follows mouse movement	Box follows mouse movement
	Remove mouse	Box stops moving and rests in new position	Box stops moving and rests in new position
2.3	Single click	No effect	No effect
	Click, hold and drag	Box follows mouse movement	Box follows mouse movement
	Remove mouse	Box stops moving and rests in new position	Box stops moving and rests in new position
2.4	Single click	No effect	No effect
	Click, hold and drag	Box follows mouse movement	Box follows mouse movement
	Remove mouse	Box stops moving and rests in new position	Box stops moving and rests in new position
2.5	Click the rotate button	Table rotates 90 degrees	Table rotates 90 degrees
2.6	Click the rotate button	Table rotates 90 degrees	Table rotates 90 degrees
2.7	Drag the table away from any other objects	Table doesn't snap to anything	Table doesn't snap to anything

	Drag the table near another object	Table snaps to the close object	Table snaps to the close object
3.1	Text, numerical data entered	Data is added to the database	Data is added to the database
3.2	Text, numerical data entered	Data is added to the database	Data is added to the database
3.3	Text, numerical data entered	Data is added to the database	Data is added to the database
3.4	Text, numerical data entered	Data is added to the database	Data is added to the database
3.5	Text, numerical data entered	Data is added to the database	Data is added to the database
3.6	Checkboxes ticked	Data ‘deleted’	Data ‘deleted’
	Checkboxes unticked	Data remains the same	Data remains the same
3.7	Checkboxes ticked	Data ‘deleted’	Data ‘deleted’
	Checkboxes unticked	Data remains the same	Data remains the same
4.1	Booking selected	Related fields displayed	Related fields displayed
4.2	Employee selected	Related fields displayed	Related fields displayed
4.3	Create menu selected	Related fields displayed	Related fields displayed
4.4	Create dishes selected	Related fields displayed	Related fields displayed
4.5	Manage shifts selected	Related fields displayed	Related fields displayed
4.6	Employee selected	Related table displayed	Related table displayed
4.7	Customer selected	Related fields displayed	Related table displayed
4.8	Menu selected	Related table displayed	Related table displayed
4.9	A la carte selected	Dishes for that menu displayed in table	Dishes for that menu displayed in table
4.10	Booking selected	Related table displayed	Related table displayed
4.11	Booking with reference 8 clicked	Fields displayed with previous information already present	Fields displayed with previous information already present

2.2. Changes for original data

The test data for the test series similar to ones in the previous plan remain similar, new data has been added for the new test series, on this document these series are: 3 and 4

3. Annotated samples

3.1. Actual results

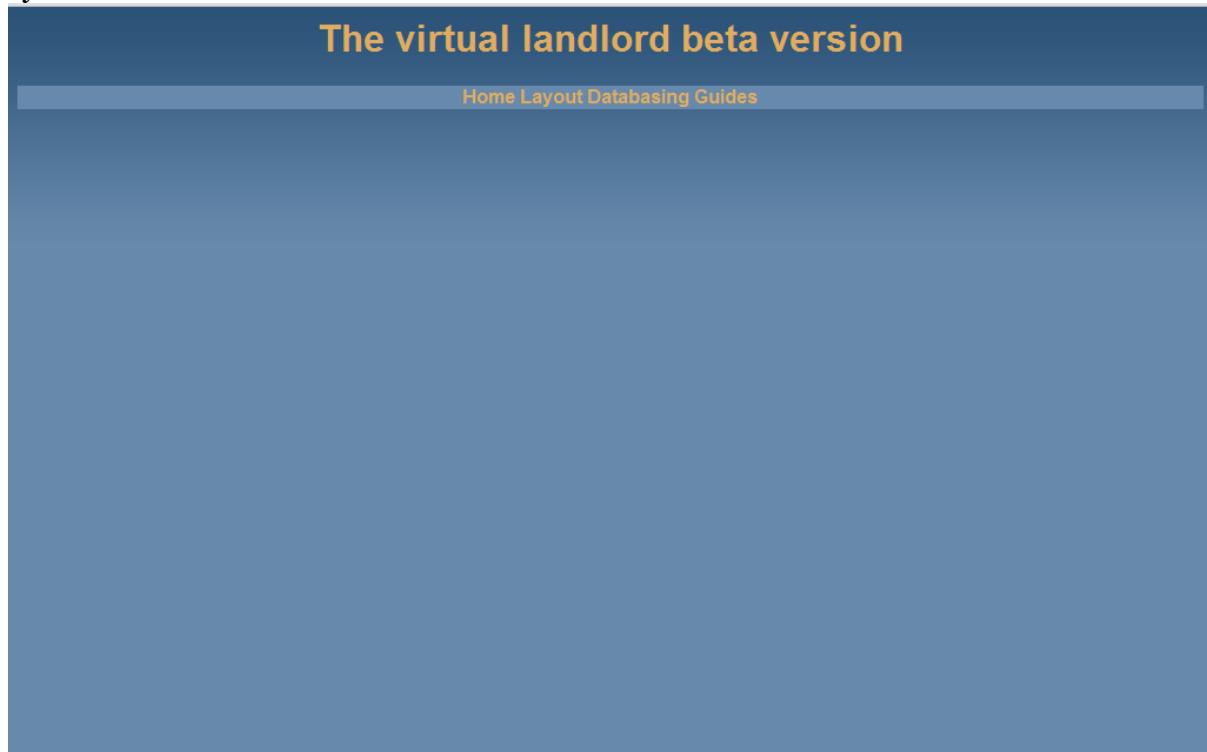
Actual results can be found in the test data table (2.1.).

3.2. Evidence

Test series 1

Number 1.1

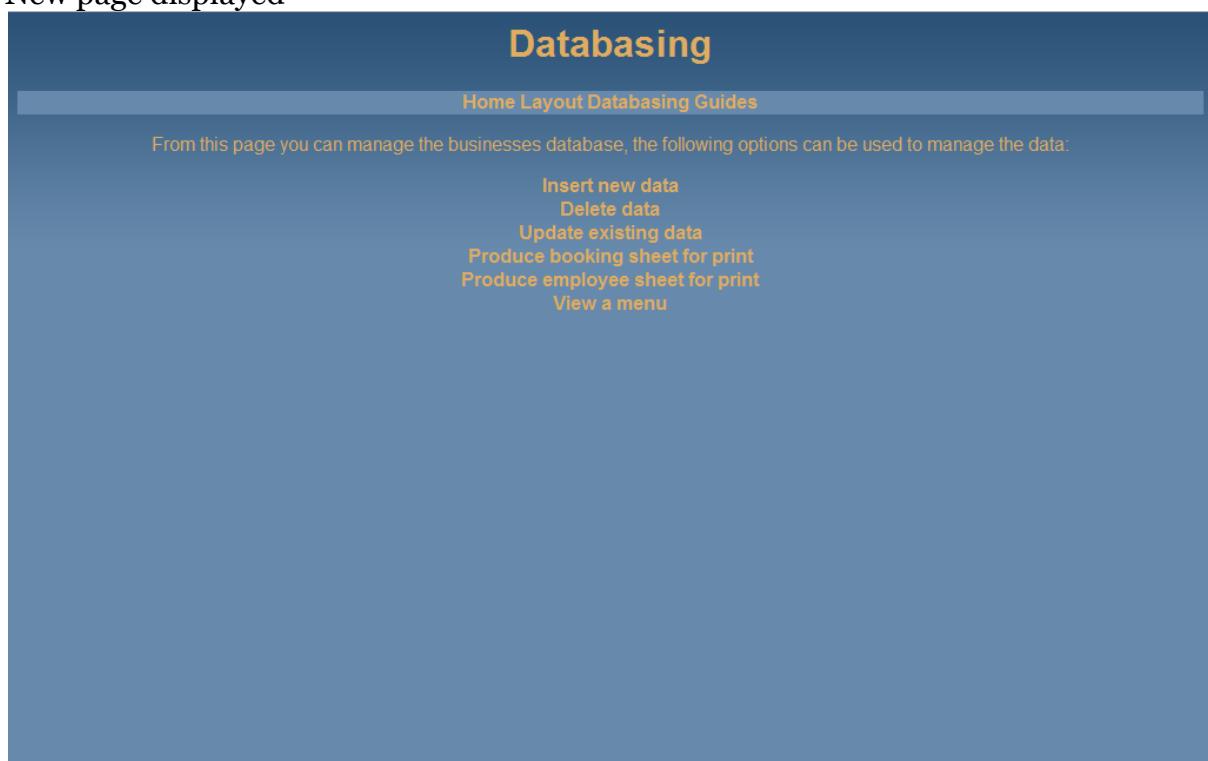
System before link is clicked



Link is clicked



New page displayed



Number 1.2

System before link is clicked

Passcode Required

Home Layout Databasing Guides

The page you have requested requires a passcode, to access the page please enter the password below.

Link is clicked

Passcode Required

Home Layout **Databasing** Guides

The page you have requested requires a passcode, to access the page please enter the password below.

localhost/TommySystem/Database/Databasing.php

New page displayed

The screenshot shows a web page with a dark blue header containing the title "Databasing". Below the header is a horizontal navigation bar with three items: "Home", "Layout", and "Databasing Guides". The main content area contains a paragraph of text followed by a list of six management options. The text reads: "From this page you can manage the businesses database, the following options can be used to manage the data:". The list of options is as follows:

- [Insert new data](#)
- [Delete data](#)
- [Update existing data](#)
- [Produce booking sheet for print](#)
- [Produce employee sheet for print](#)
- [View a menu](#)

Number 1.3

System before link is clicked

The screenshot shows a web page with a dark blue header containing the title "Databasing". Below the header is a horizontal navigation bar with three items: "Home", "Layout", and "Databasing Guides". The main content area contains a paragraph of text followed by a list of six management options. The text reads: "From this page you can manage the businesses database, the following options can be used to manage the data:". The list of options is as follows:

- [Insert new data](#)
- [Delete data](#)
- [Update existing data](#)
- [Produce booking sheet for print](#)
- [Produce employee sheet for print](#)
- [View a menu](#)

Link is clicked

The screenshot shows a web page with a dark blue header and footer. The header contains the title "Databasing" in white. Below the header is a navigation bar with three items: "Home" (highlighted in yellow), "Layout", "Databasing", and "Guides". The main content area contains the following text:
From this page you can manage the businesses database, the following options can be used to manage the data:

- Insert new data
- Delete data
- Update existing data
- Produce booking sheet for print
- Produce employee sheet for print
- View a menu

New page displayed

The screenshot shows a new web page with a dark blue header and footer. The header contains the title "The virtual landlord beta version" in white. Below the header is a navigation bar with three items: "Home" (highlighted in yellow), "Layout", "Databasing", and "Guides". The main content area is currently empty.

Number 1.4

System before link is clicked

Passcode Required

Home Layout Databasing Guides

The page you have requested requires a passcode, to access the page please enter the password below:

Link is clicked

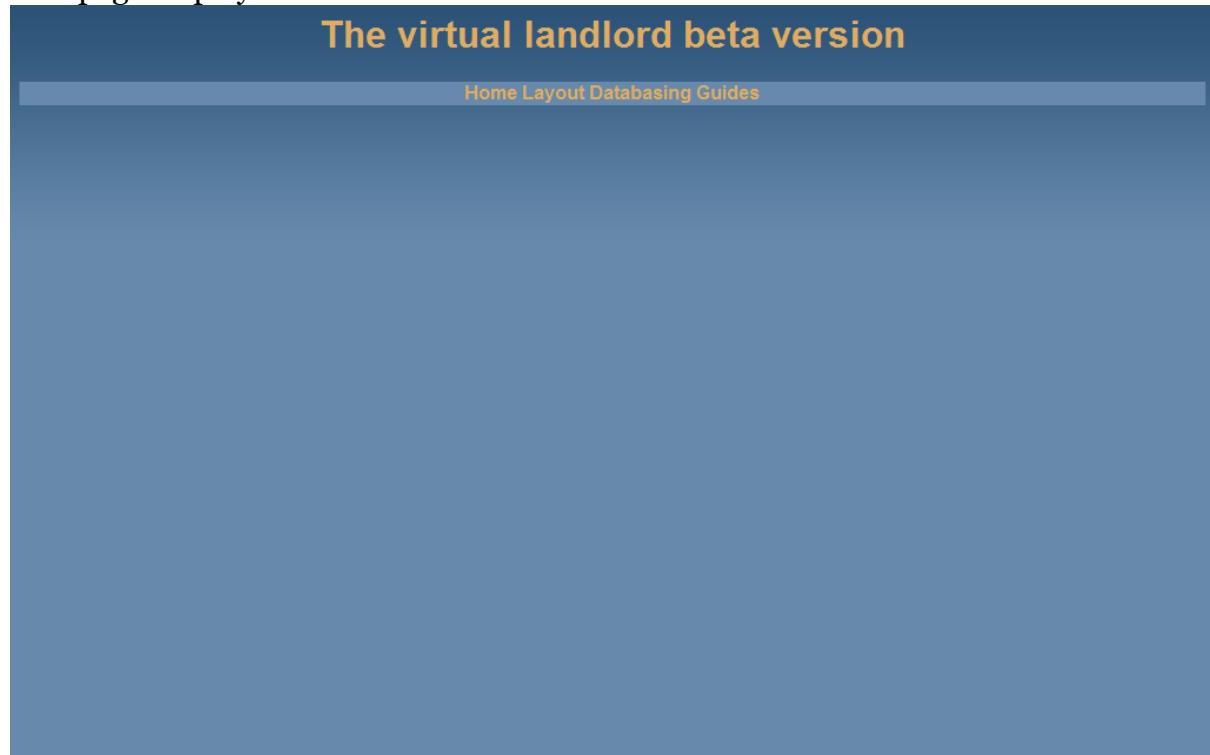
Passcode Required

Home Layout Databasing Guides

The page you have requested requires a passcode, to access the page please enter the password below:

localhost/TommySystem/Homepage.php

New page displayed



Number 1.5

System before link is clicked

A screenshot of a web page with a dark blue header. The header contains the text "Staff guides" in white. Below the header is a horizontal navigation bar with three items: "Home", "Layout", and "Databasing Guides", all in white text. The main content area contains several sections, each with a title and a description:

- Espresso**
The essence of coffee extracted into a concentrated one ounce beverage.
- Mocha**
Espresso combined with foamed milk, layered with hot chocolate.
- Black or white coffee**
Espresso diluted with hot water, with or without milk.
- Hot chocolate**
A smooth and chocolatey drink topped with chocolate flakes.
- Latte**
Espresso combined with steamed milk, topped with a small amount of foamed milk, 1/3 espresso, 2/3 milk.
- Cappuccino**
Espresso combined with a velvety milk foam finished with chocolate sprinkles, 1/3 espresso, 1/3 steamed milk, 1/3 foamed milk.

Link is clicked

The screenshot shows a web page with a dark blue header containing the title "Staff guides". Below the header is a navigation bar with tabs: "Home", "Layout", "Databasing", and "Guides". The main content area has a light blue background. It lists several coffee drinks with their descriptions:

- Espresso**: The essence of coffee extracted into a concentrated one ounce beverage.
- Mocha**: Espresso combined with foamed milk, layered with hot chocolate.
- Black or white coffee**: Espresso diluted with hot water, with or without milk.
- Hot chocolate**: A smooth and chocolatey drink topped with chocolate flakes.
- Latte**: Espresso combined with steamed milk, topped with a small amount of foamed milk, 1/3 espresso, 2/3 milk.
- Cappuccino**: Espresso combined with a velvety milk foam finished with chocolate sprinkles, 1/3 espresso, 1/3 steamed milk, 1/3 foamed milk.

The URL "localhost/TommySystem/Homepage.php" is visible at the bottom of the browser window.

New page displayed

The screenshot shows a new web page with a dark blue header containing the title "The virtual landlord beta version". Below the header is a navigation bar with tabs: "Home", "Layout", "Databasing", and "Guides". The main content area is currently empty, showing a large white space.

Number 1.6

System before link is clicked

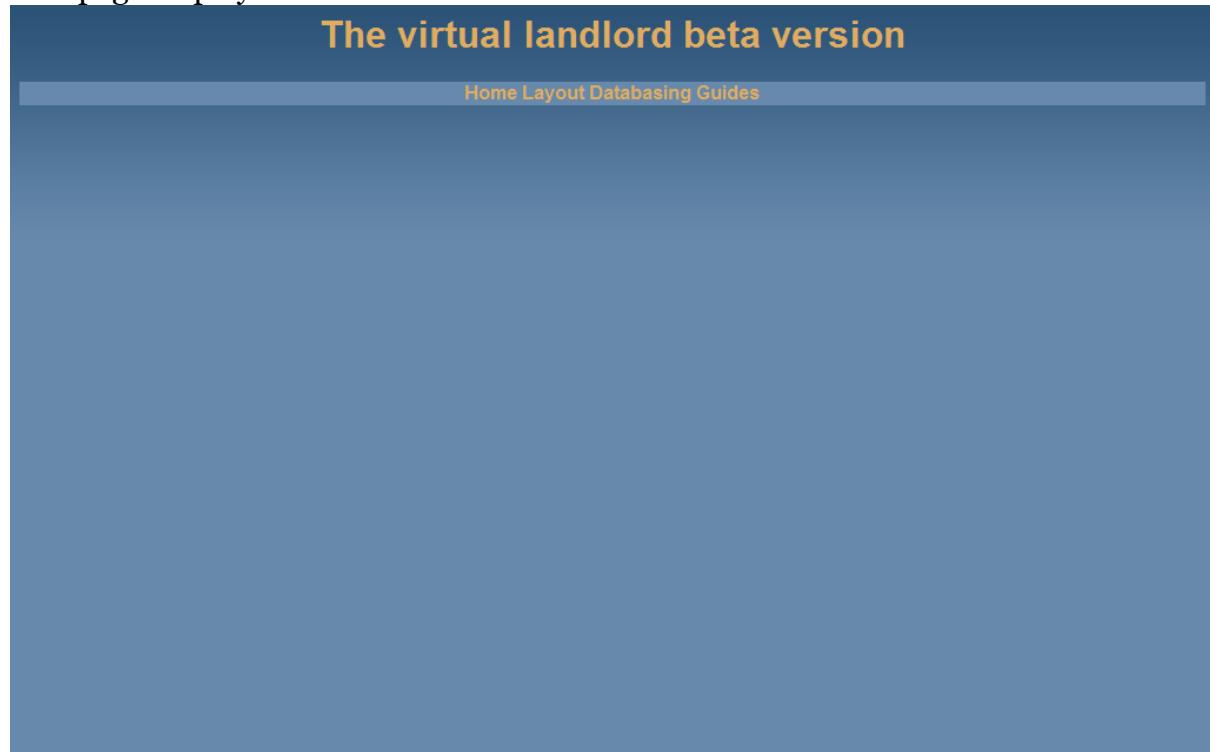
The screenshot shows a web page with a dark blue header containing the title "Databasing". Below the header is a horizontal menu bar with three items: "Home", "Layout", and "Databasing Guides". The "Databasing Guides" item is highlighted with a yellow background. The main content area contains a message: "From this page you can manage the businesses database, the following options can be used to manage the data:". Below this message is a list of six options, each preceded by a small yellow square:

- [Insert new data](#)
- [Delete data](#)
- [Update existing data](#)
- [Produce booking sheet for print](#)
- [Produce employee sheet for print](#)
- [View a menu](#)

Link is clicked

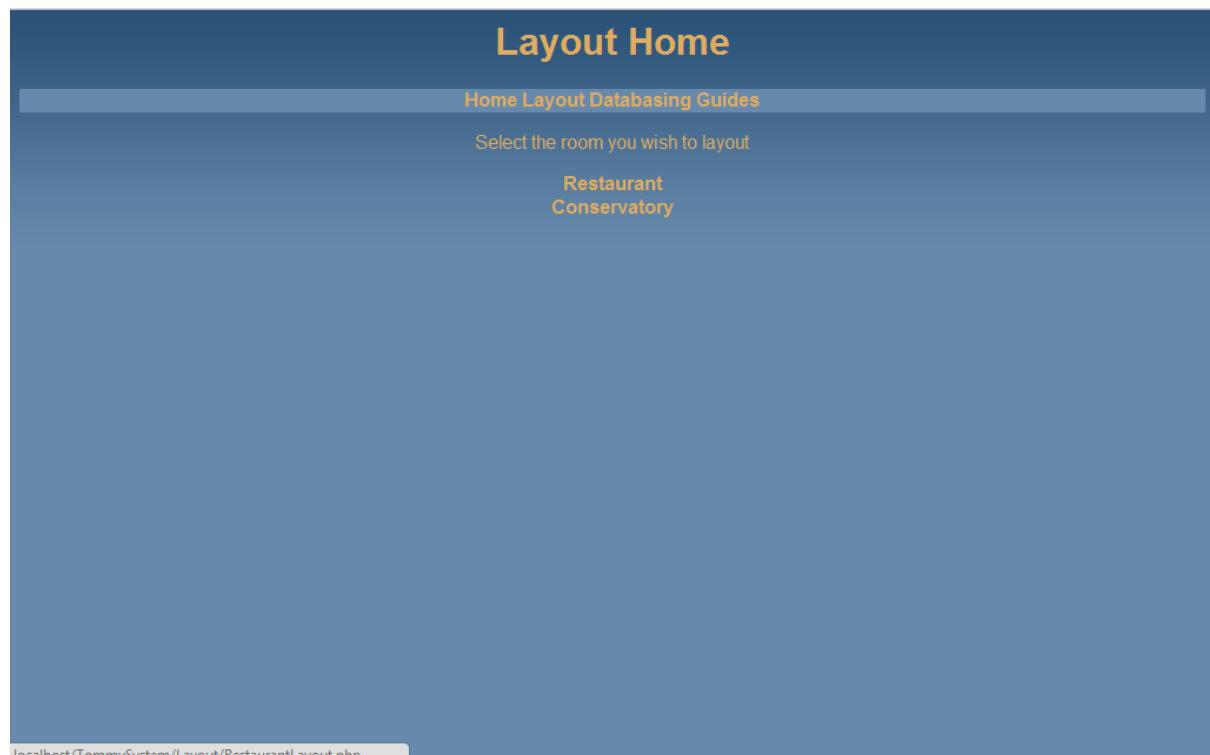
The screenshot shows the same web page as above, but with a different URL visible in the browser's address bar at the bottom: "localhost/TommySystem/Layout/PassCodeCheck.php". The page content is identical to the first screenshot, including the header, menu bar, message, and list of management options.

New page displayed

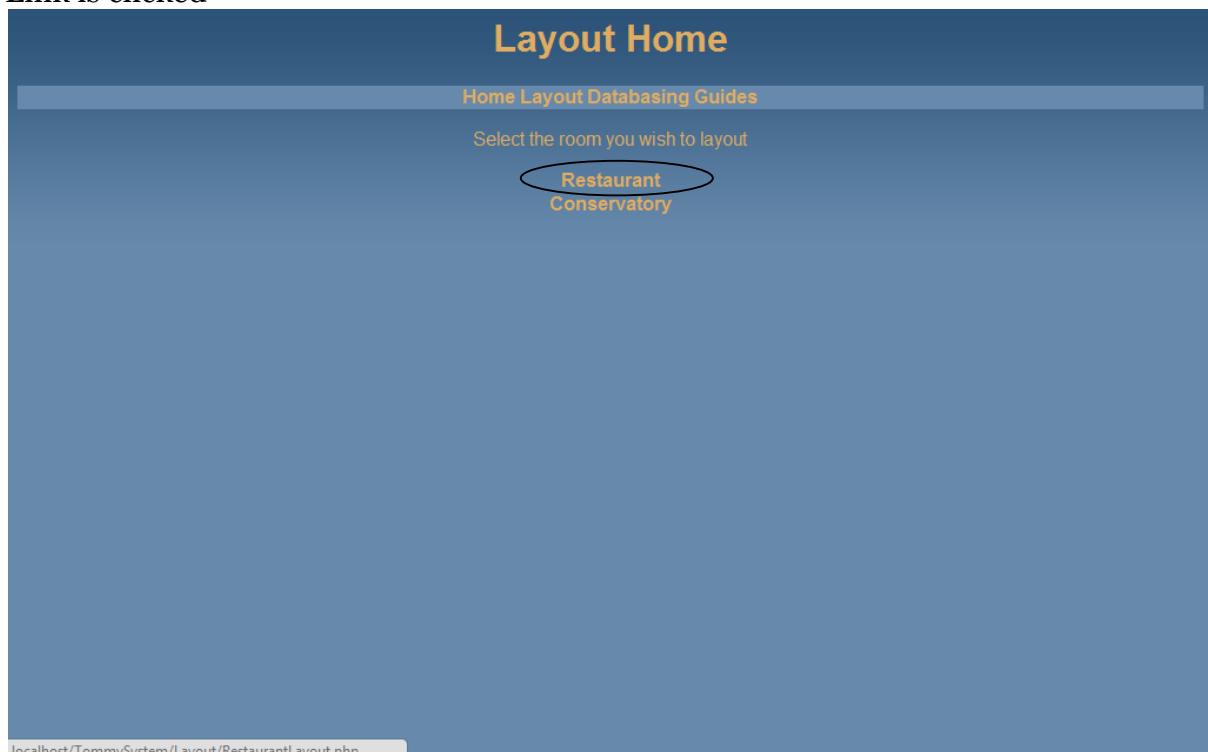


Number 1.7

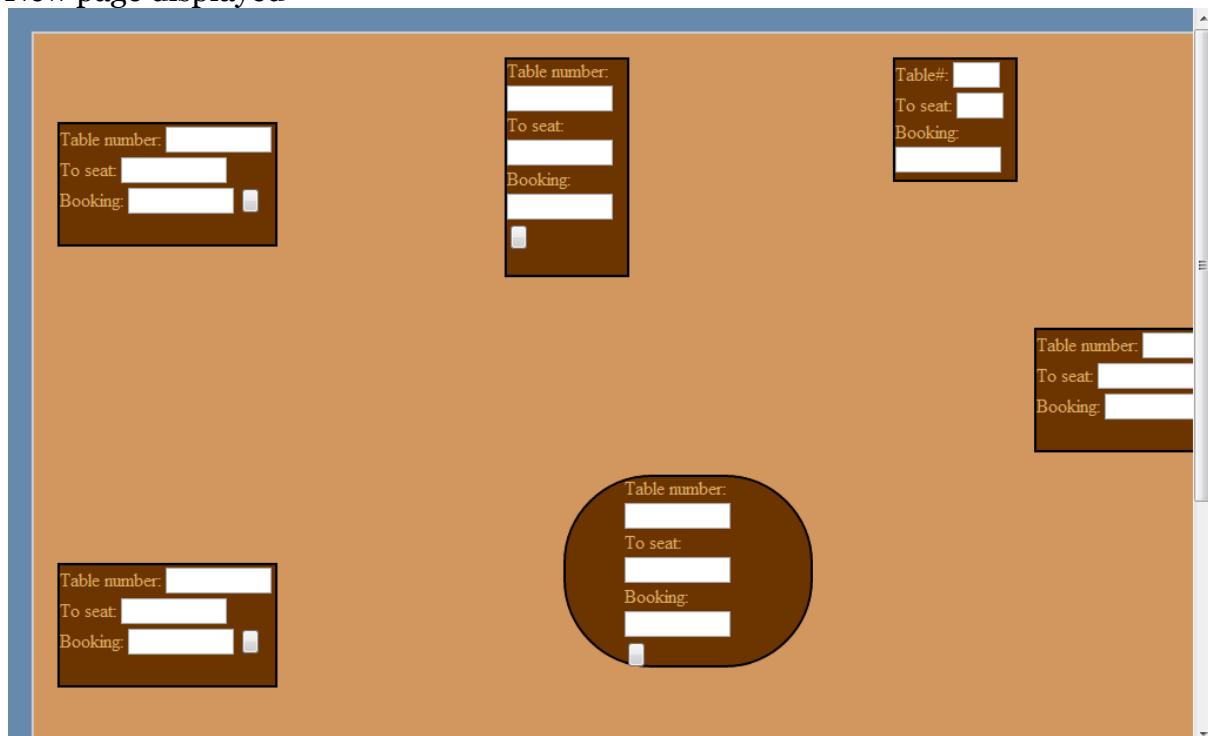
System before link is clicked



Link is clicked

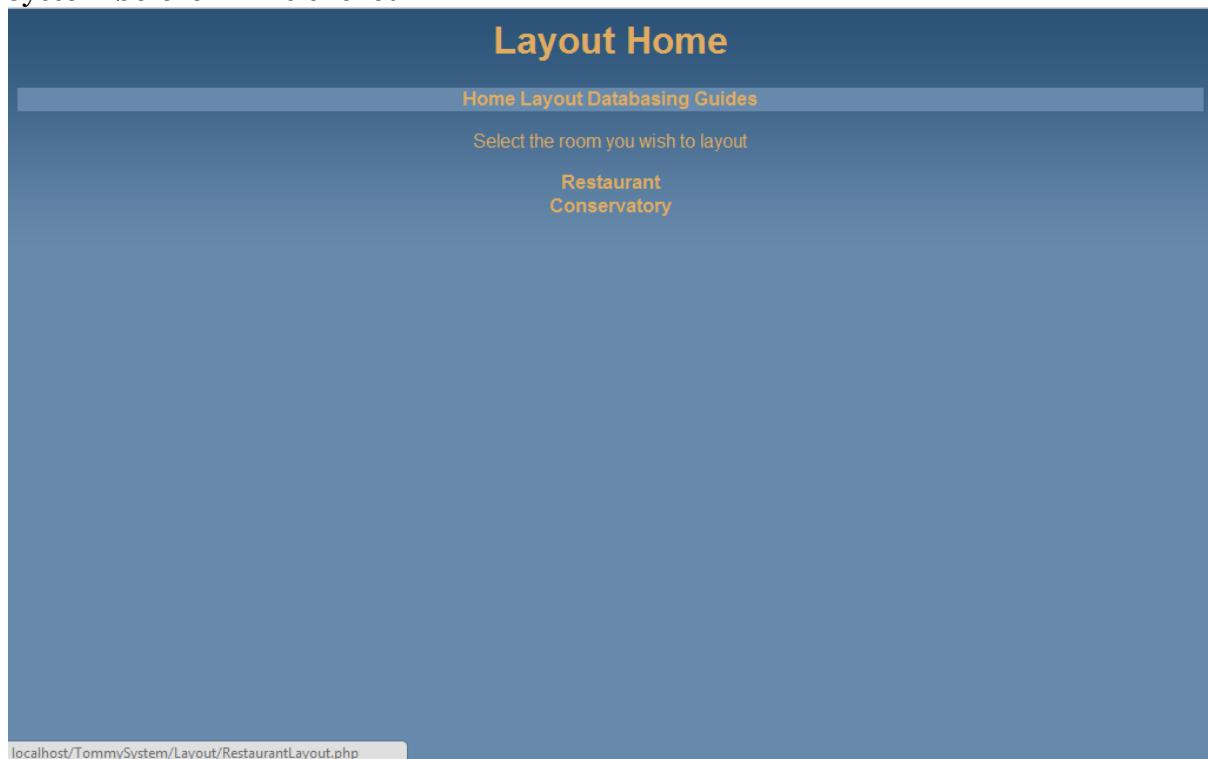


New page displayed

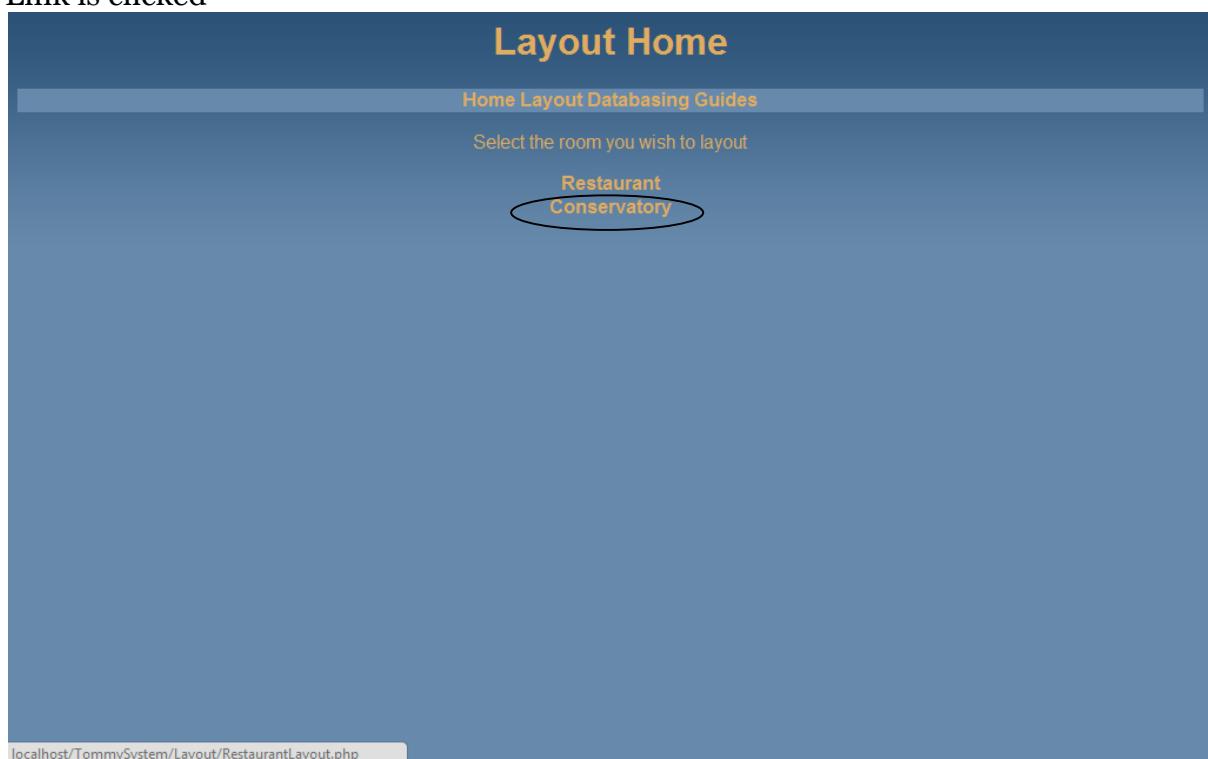


Number 1.8

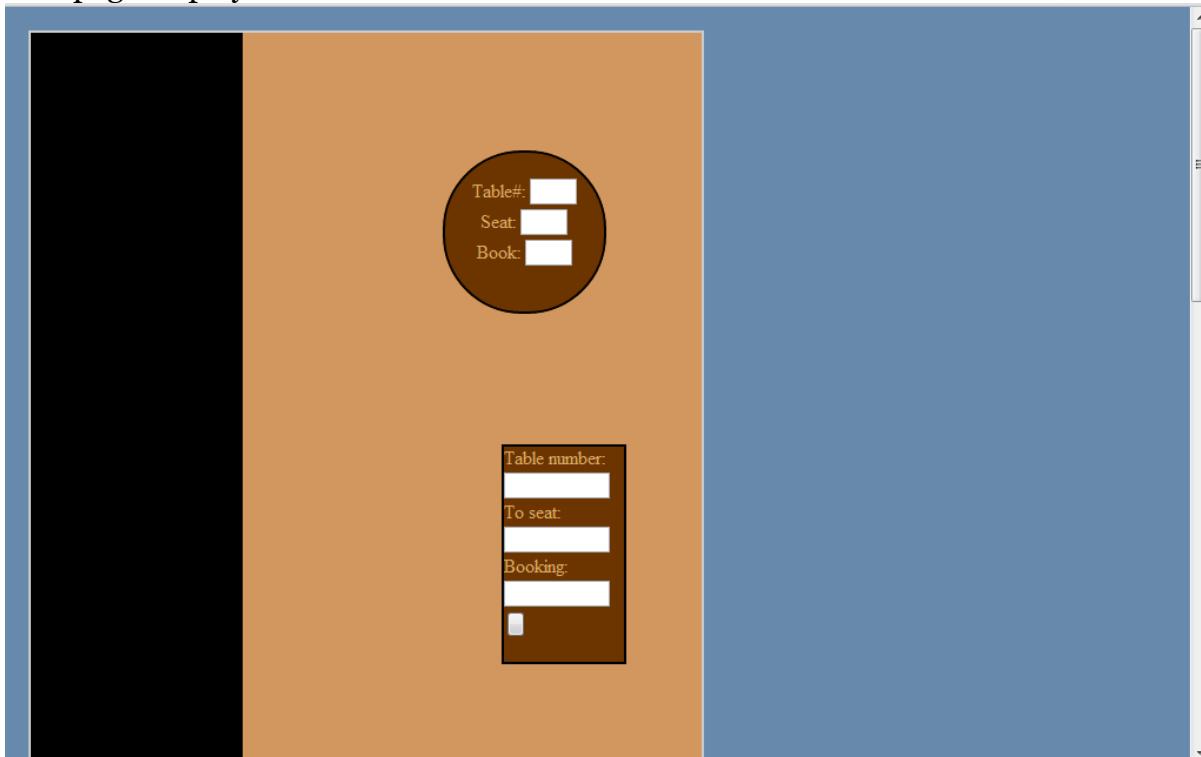
System before link is clicked



Link is clicked



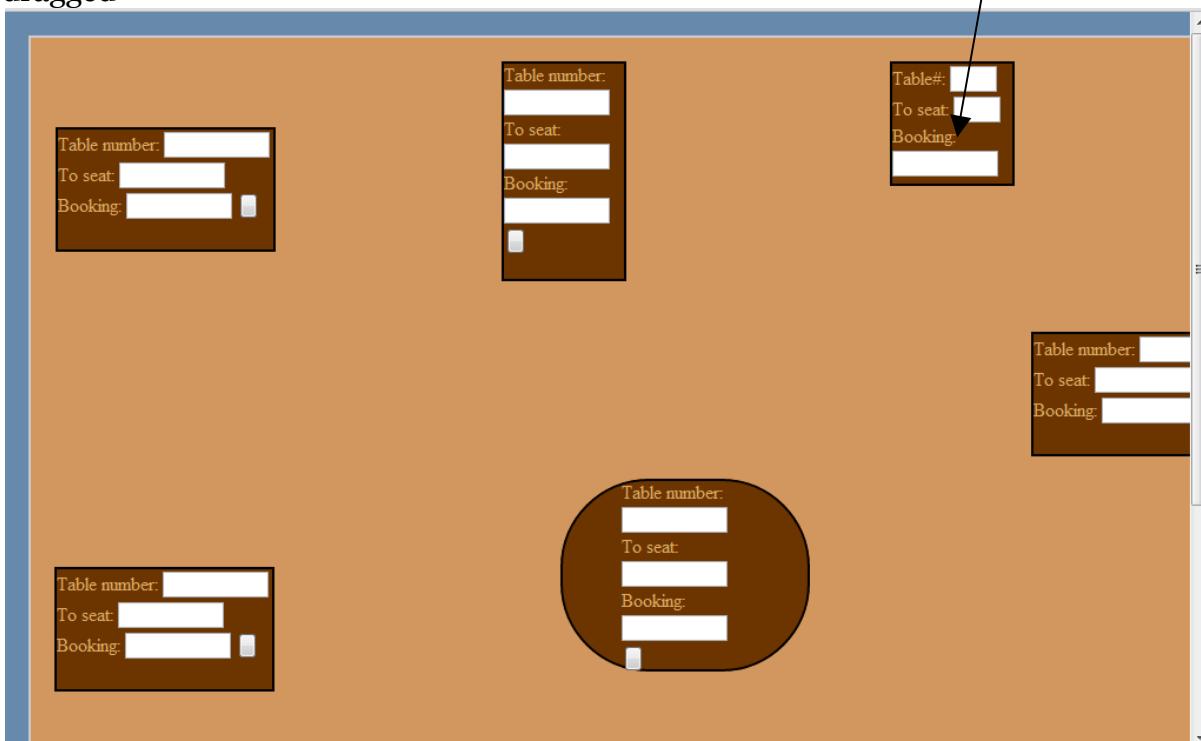
New page displayed



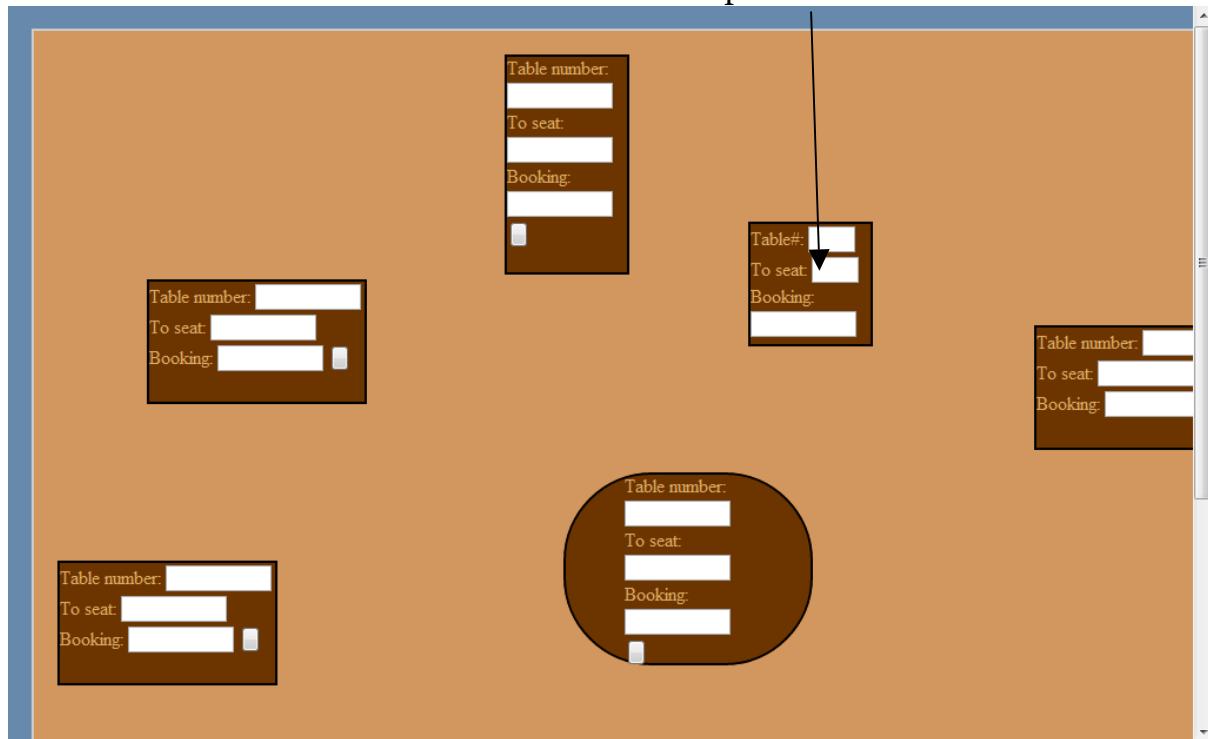
Test series 2

Number 2.1

This table is clicked which has no effect, however if the mouse is held it can be dragged

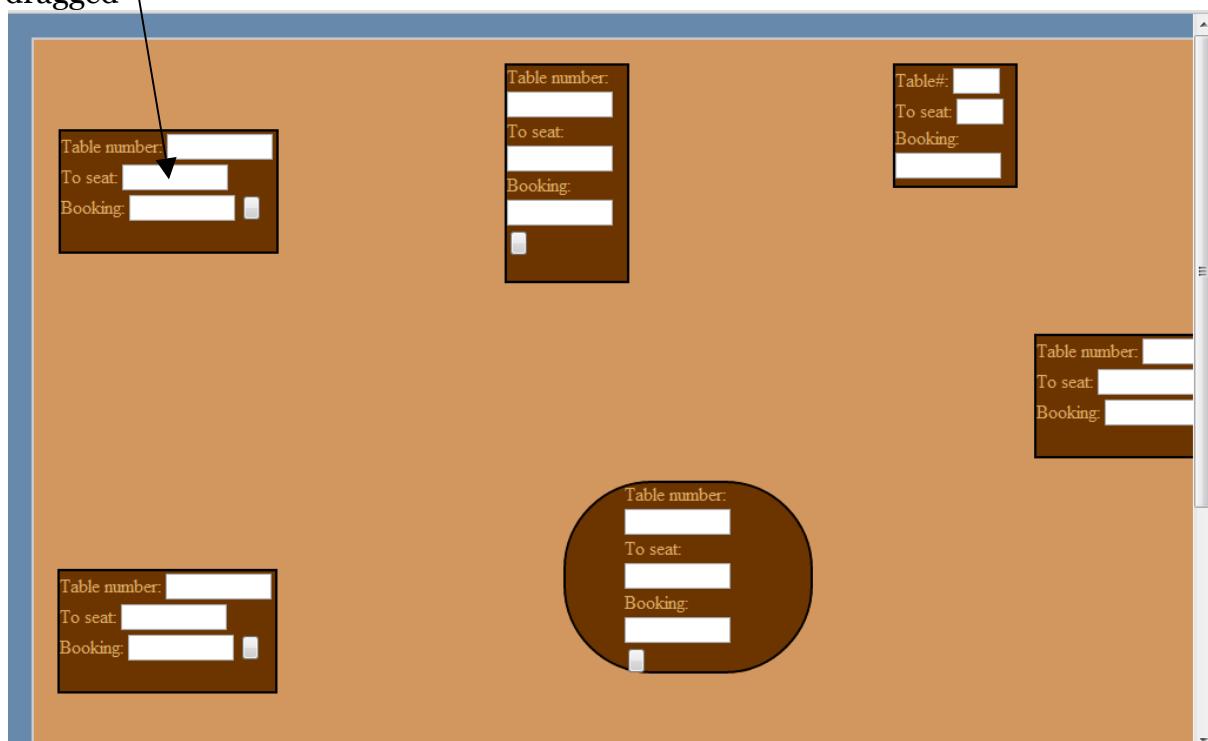


Once the mouse is released the table sits in its new position

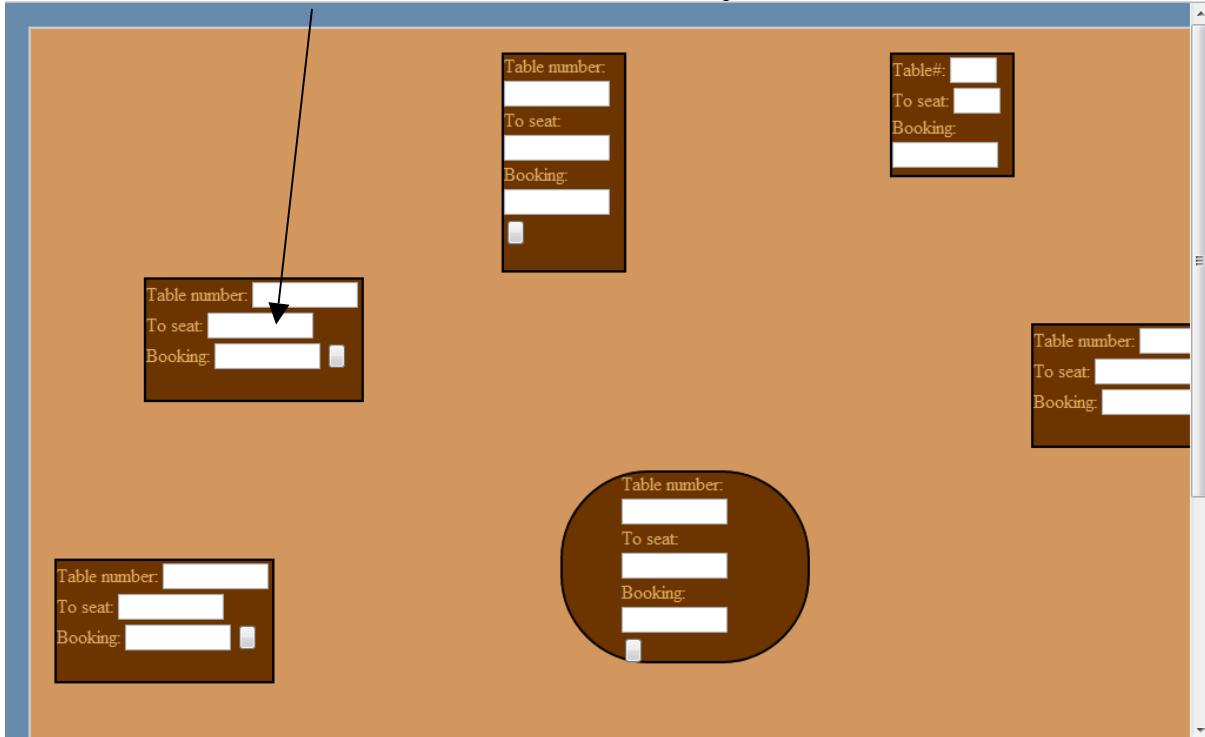


Number 2.2

This table is clicked which has no effect, however if the mouse is held it can be dragged

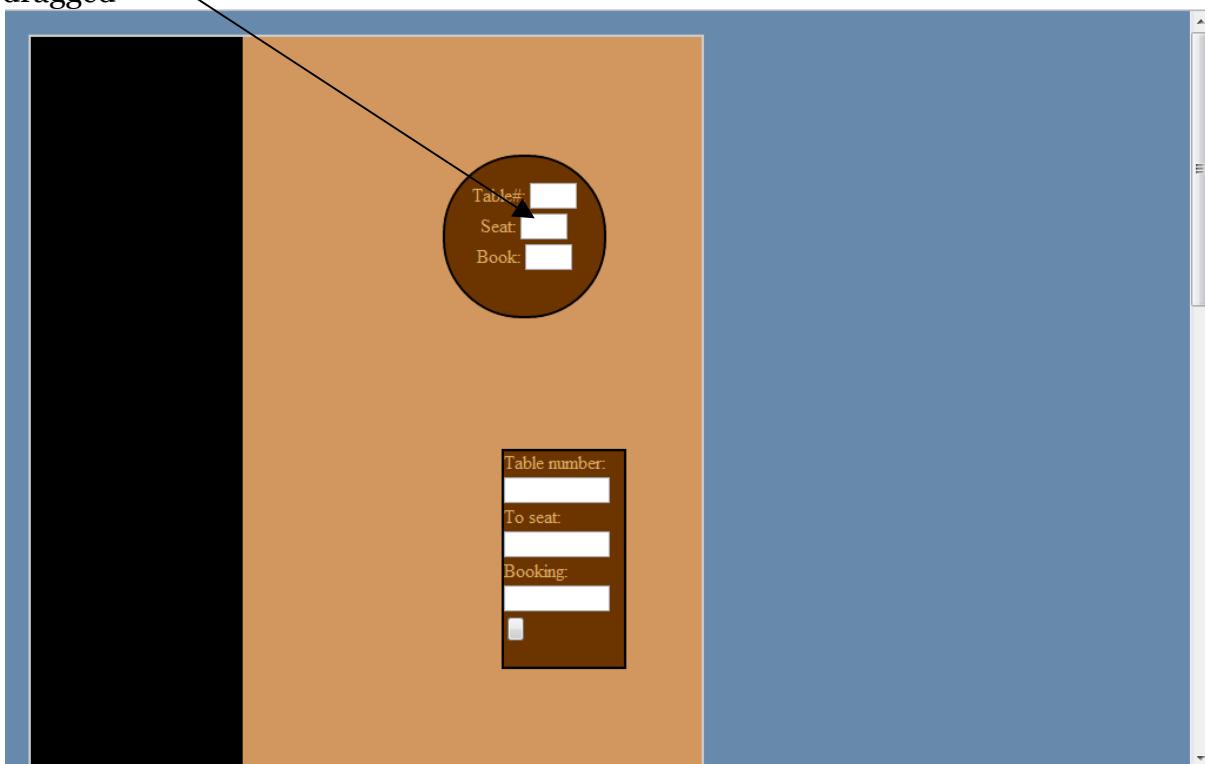


Once the mouse is released the table sits in its new position

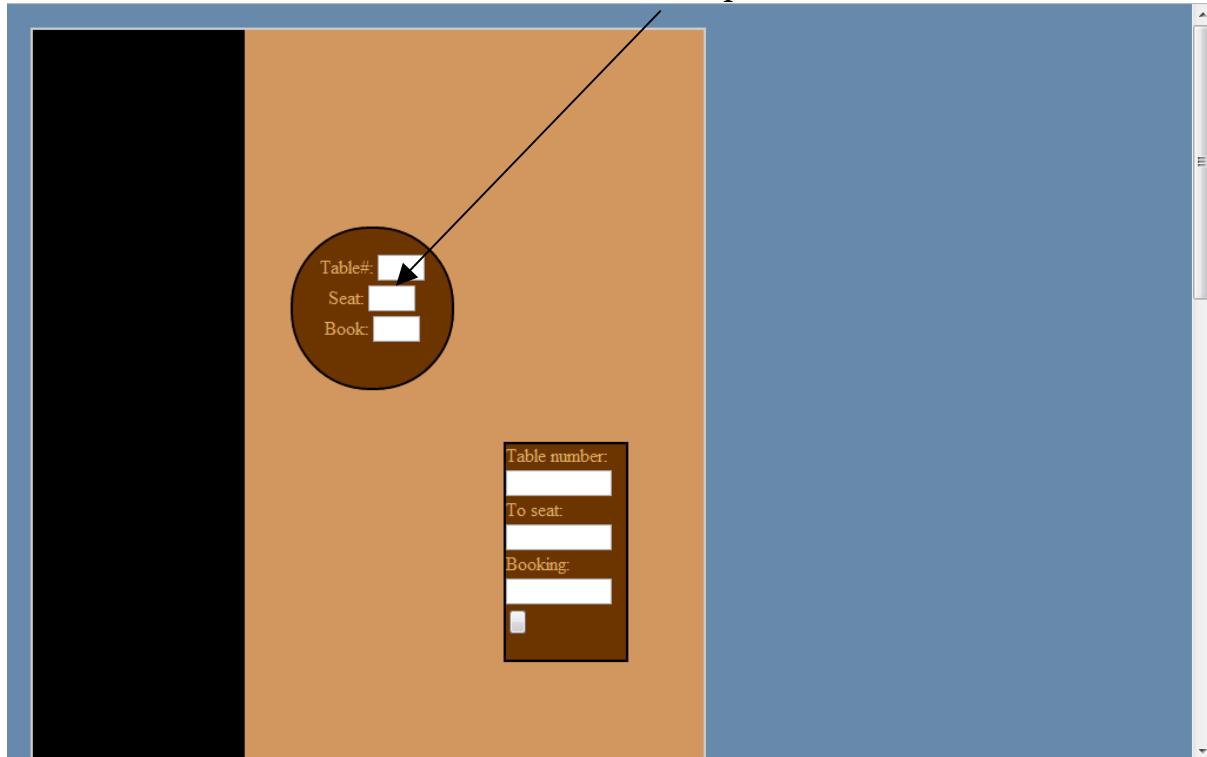


Number 2.3

This table is clicked which has no effect, however if the mouse is held it can be dragged

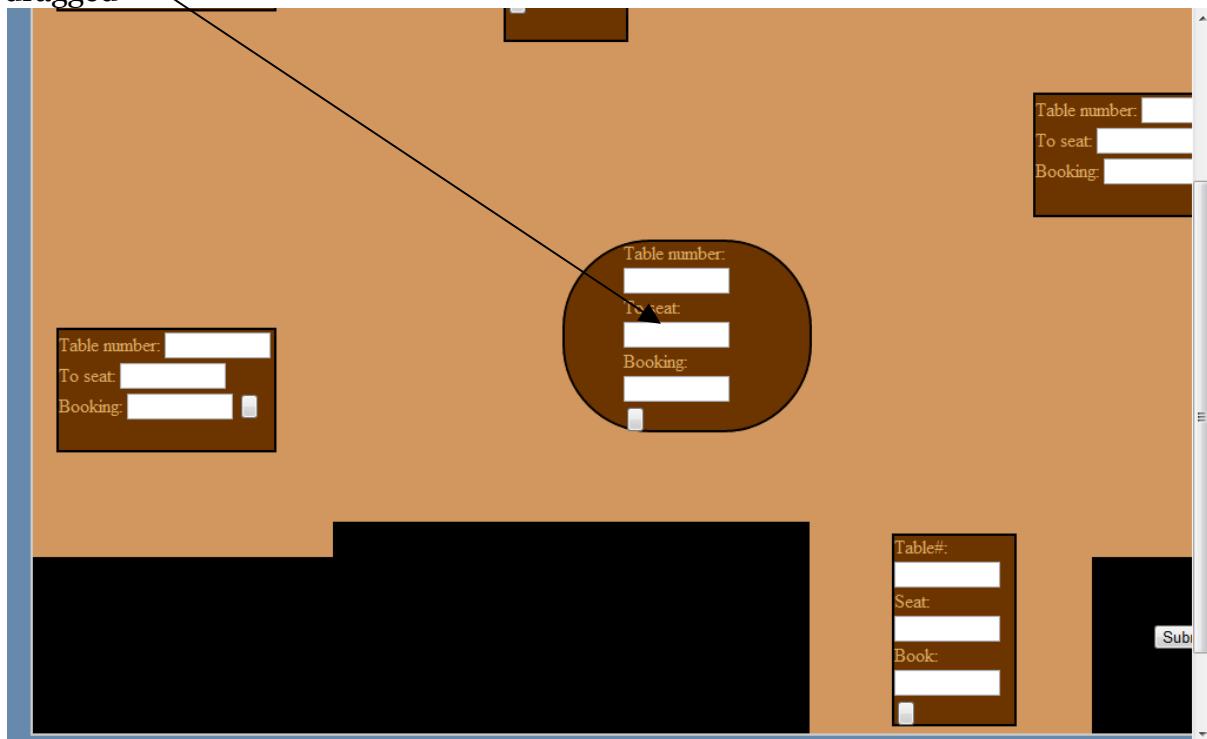


Once the mouse is released the table sits in its new position

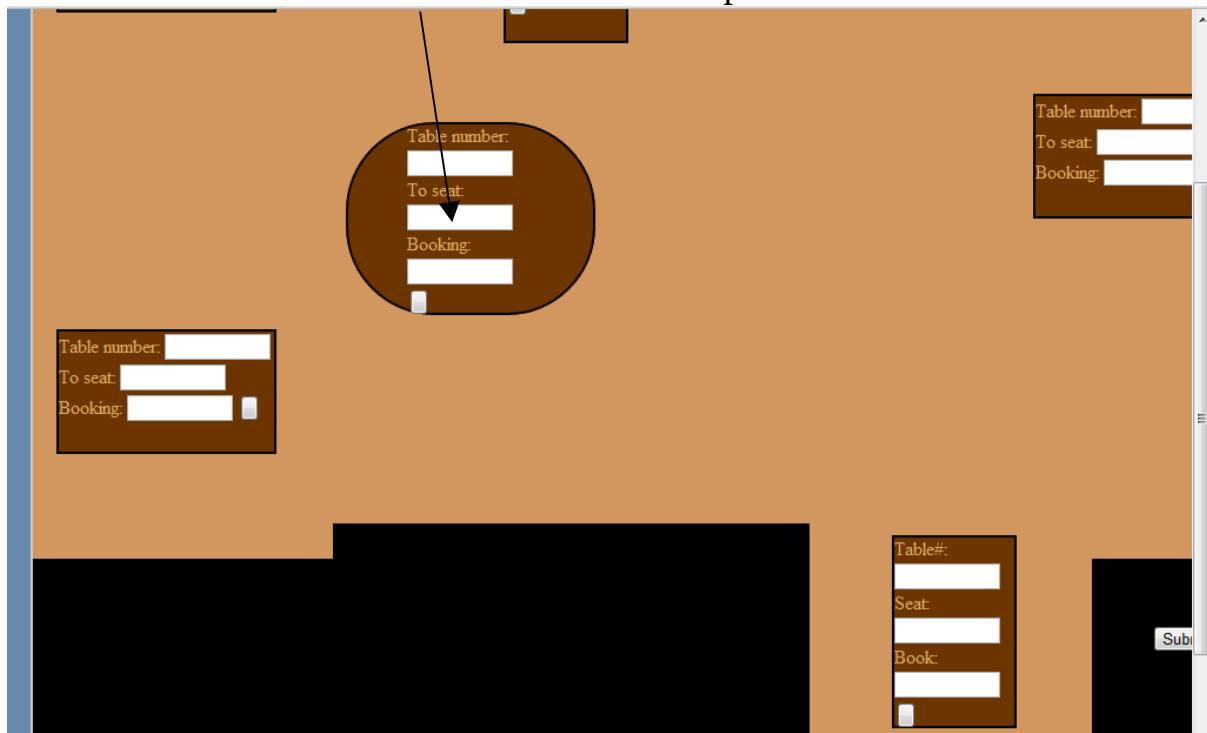


Number 2.4

This table is clicked which has no effect, however if the mouse is held it can be dragged

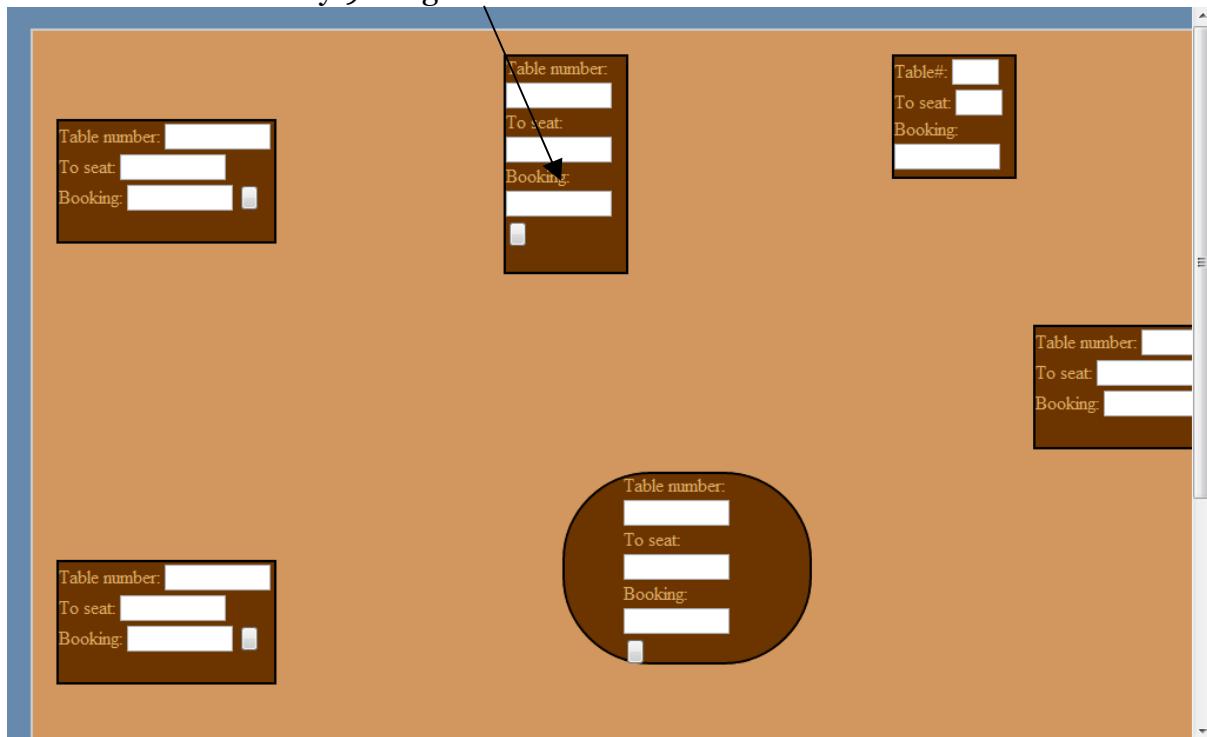


Once the mouse is released the table sits in its new position

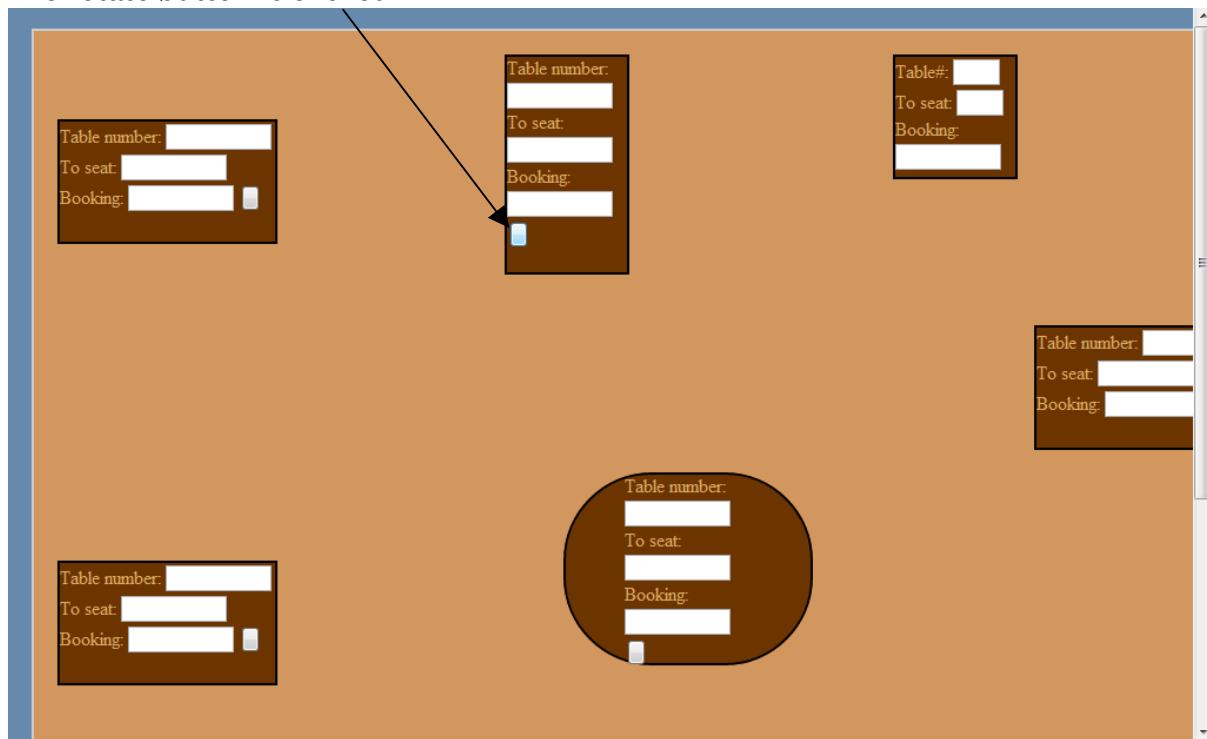


Number 2.5

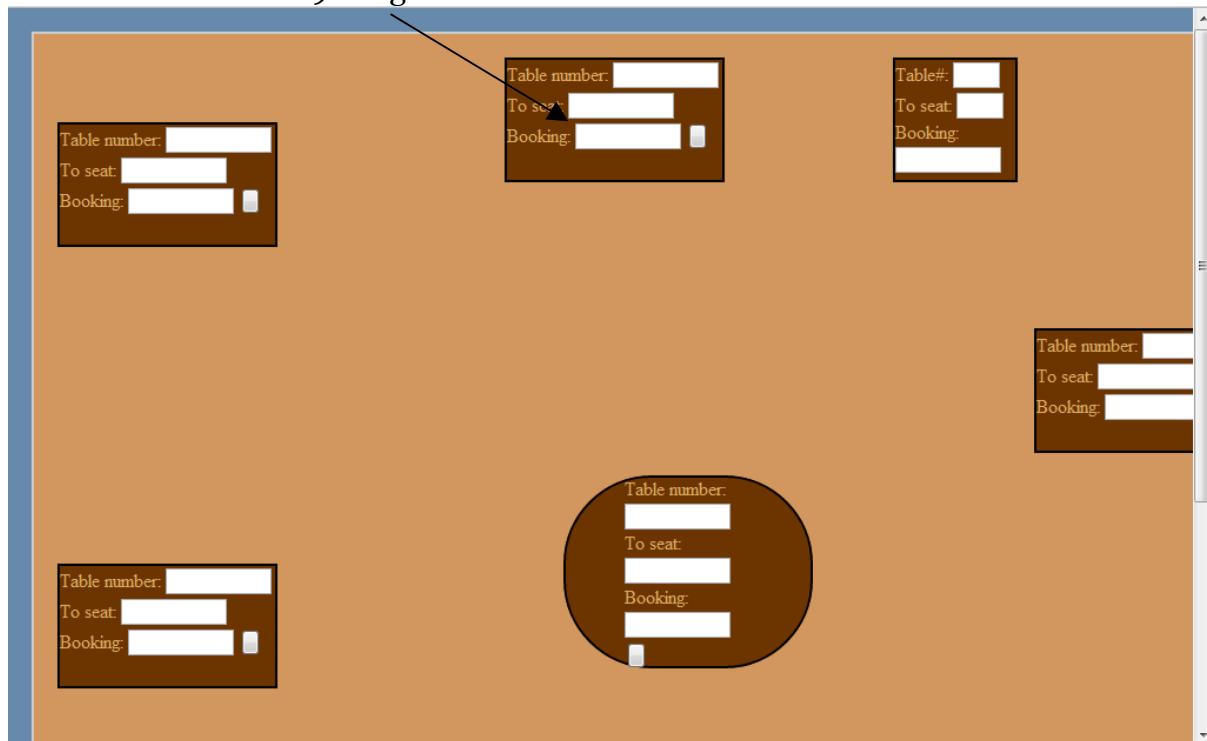
This table will rotate by 90 degrees



The rotate button is clicked

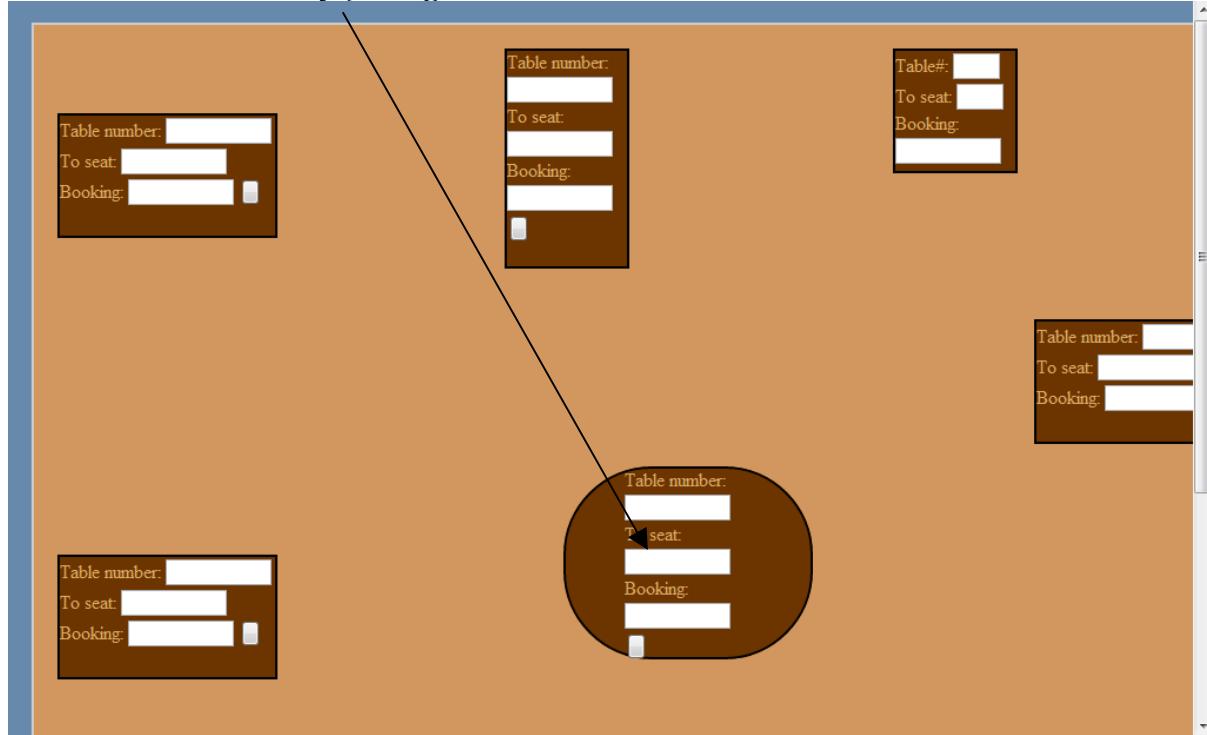


The table has rotated 90 degrees

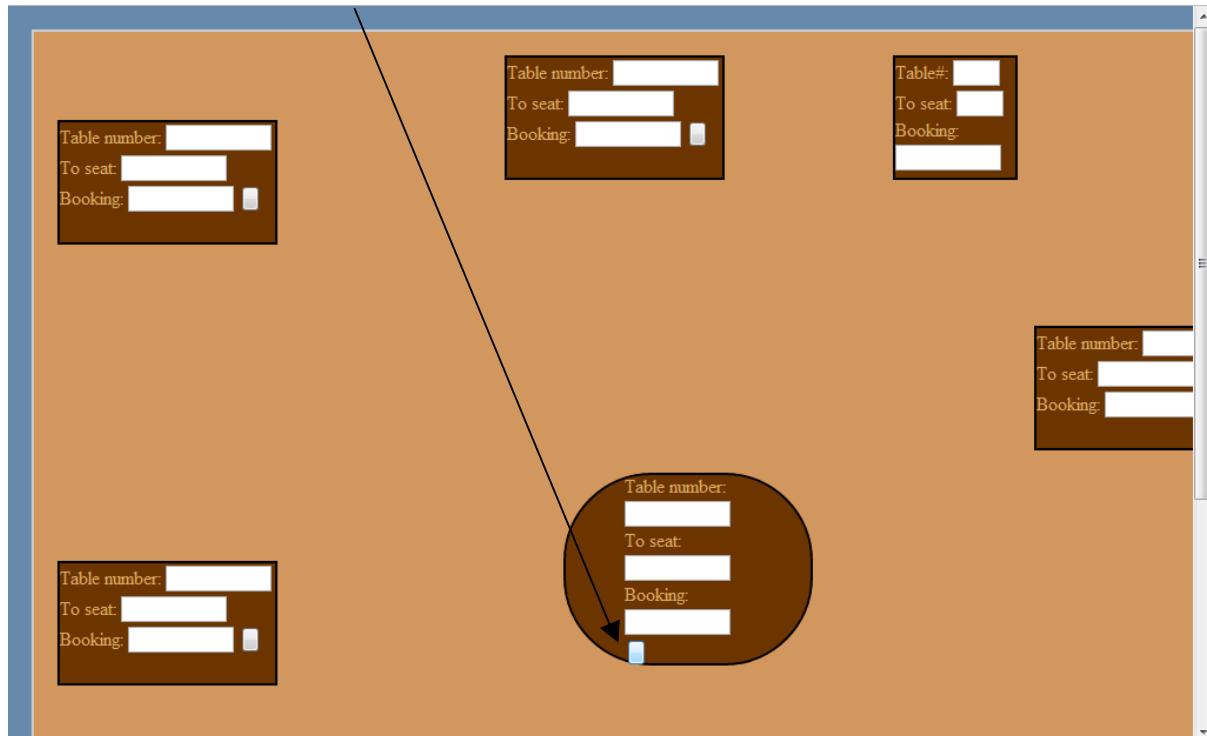


Number 2.6

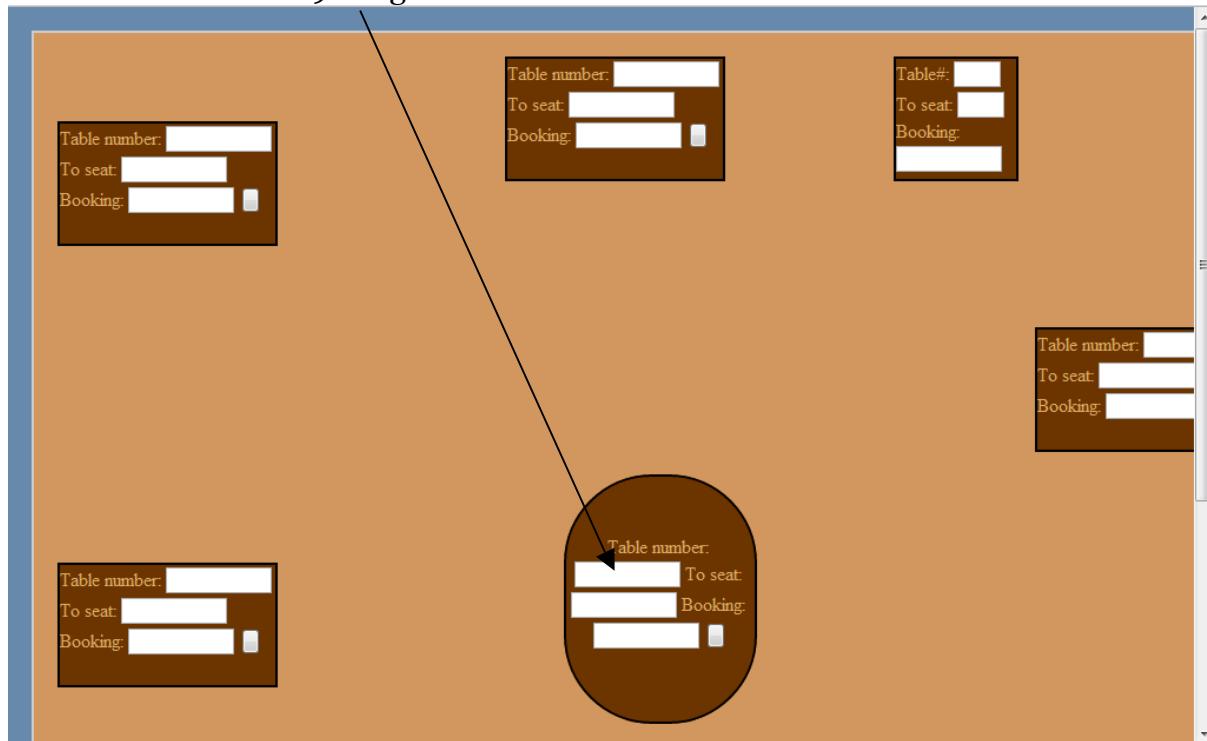
This table will rotate by 90 degrees



The rotate button is clicked

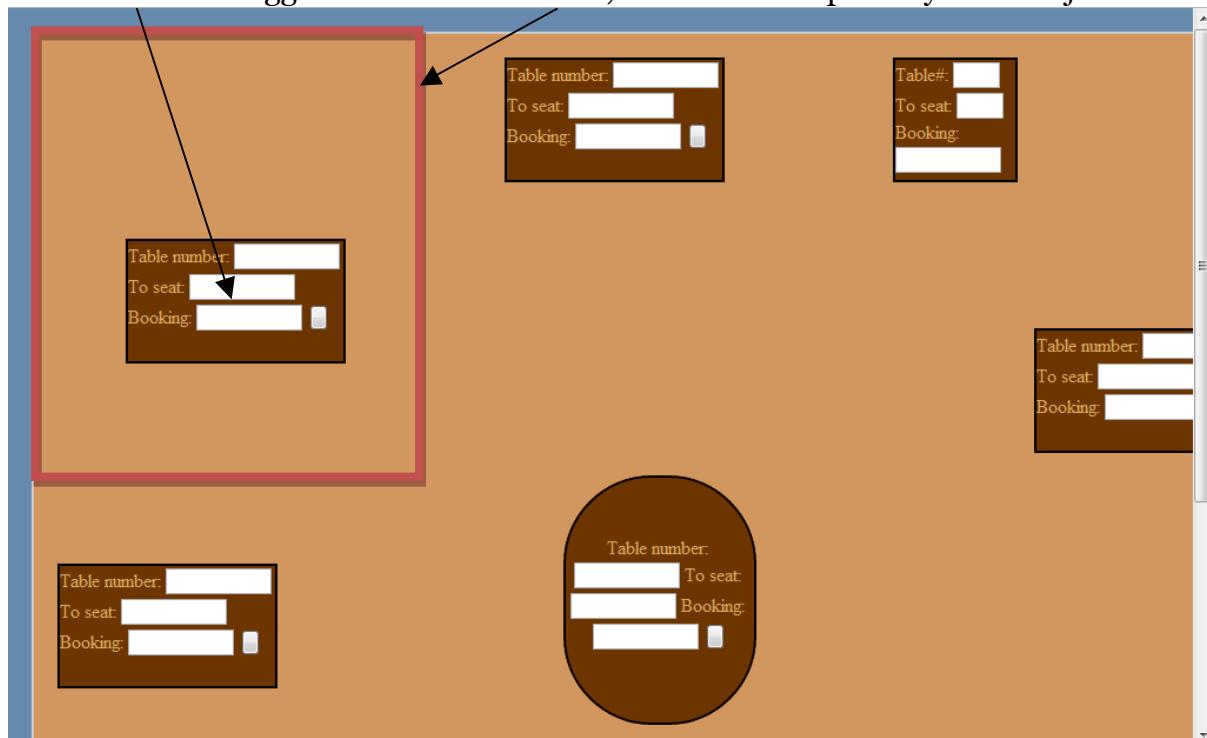


The table has rotated 90 degrees

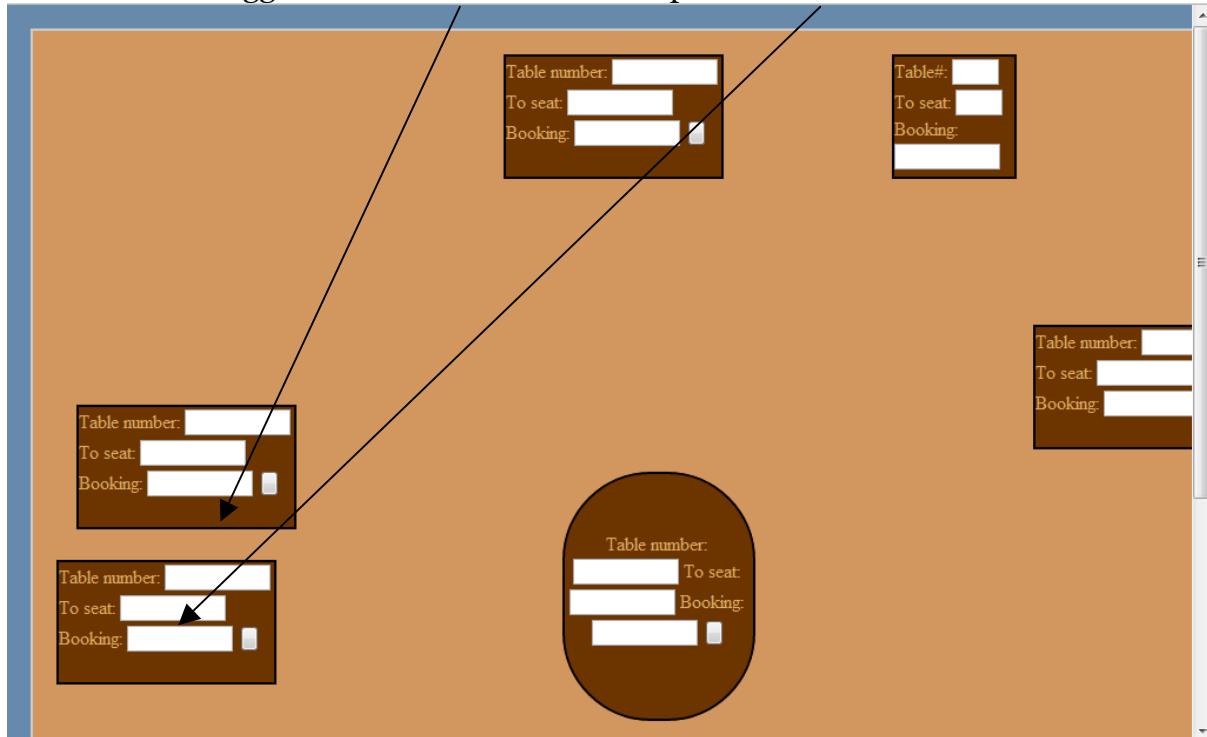


Number 2.7

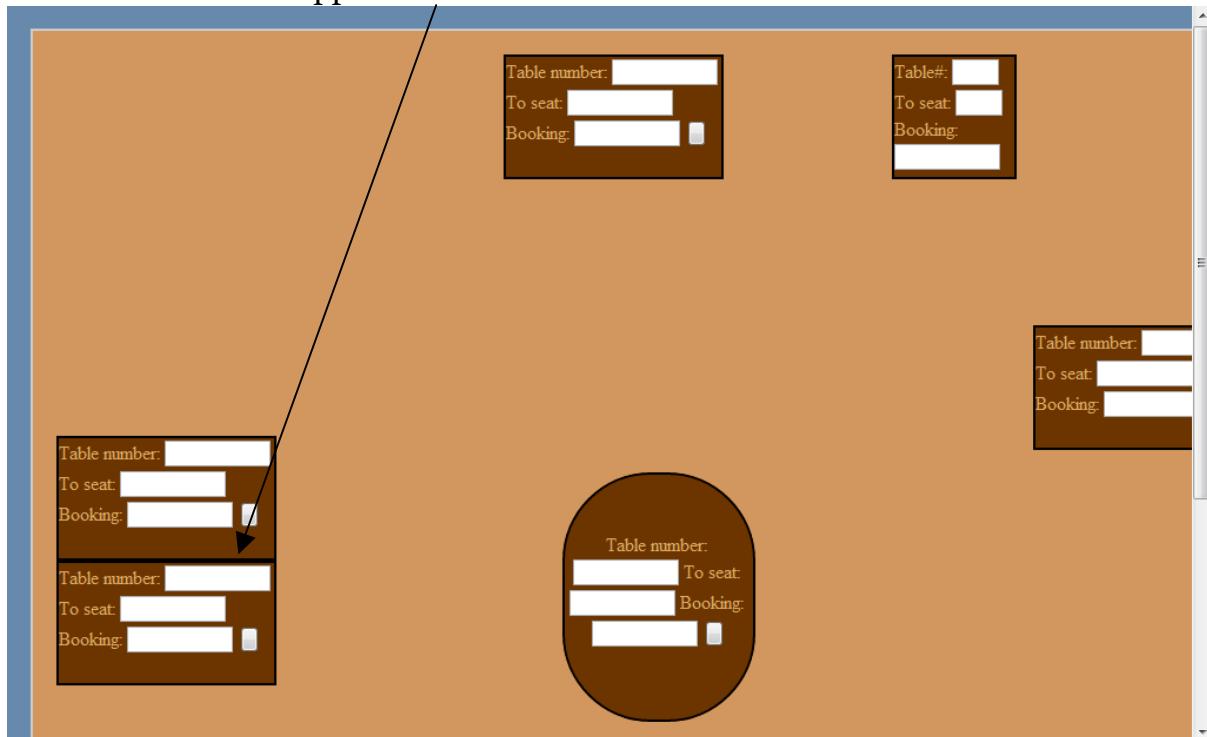
As this table is dragged around in this area, it does not snap to any other object



If the table is dragged to around here it will snap to this table



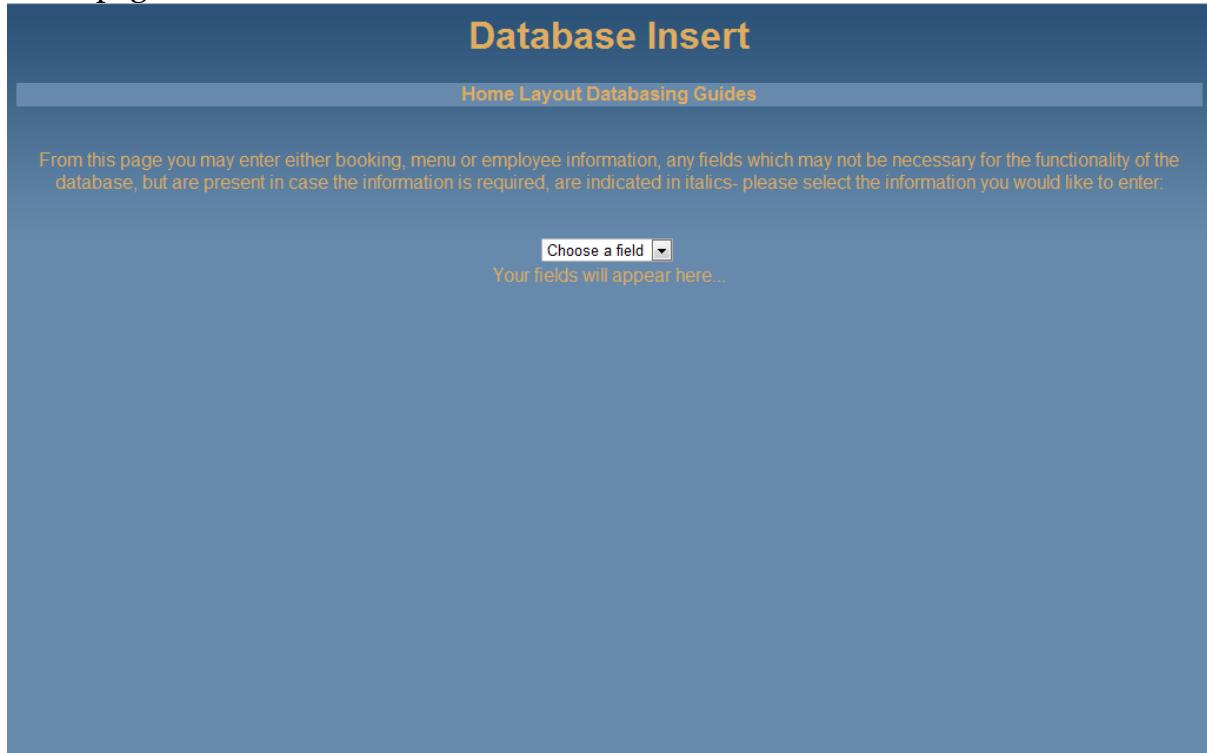
The first table has snapped to the second table



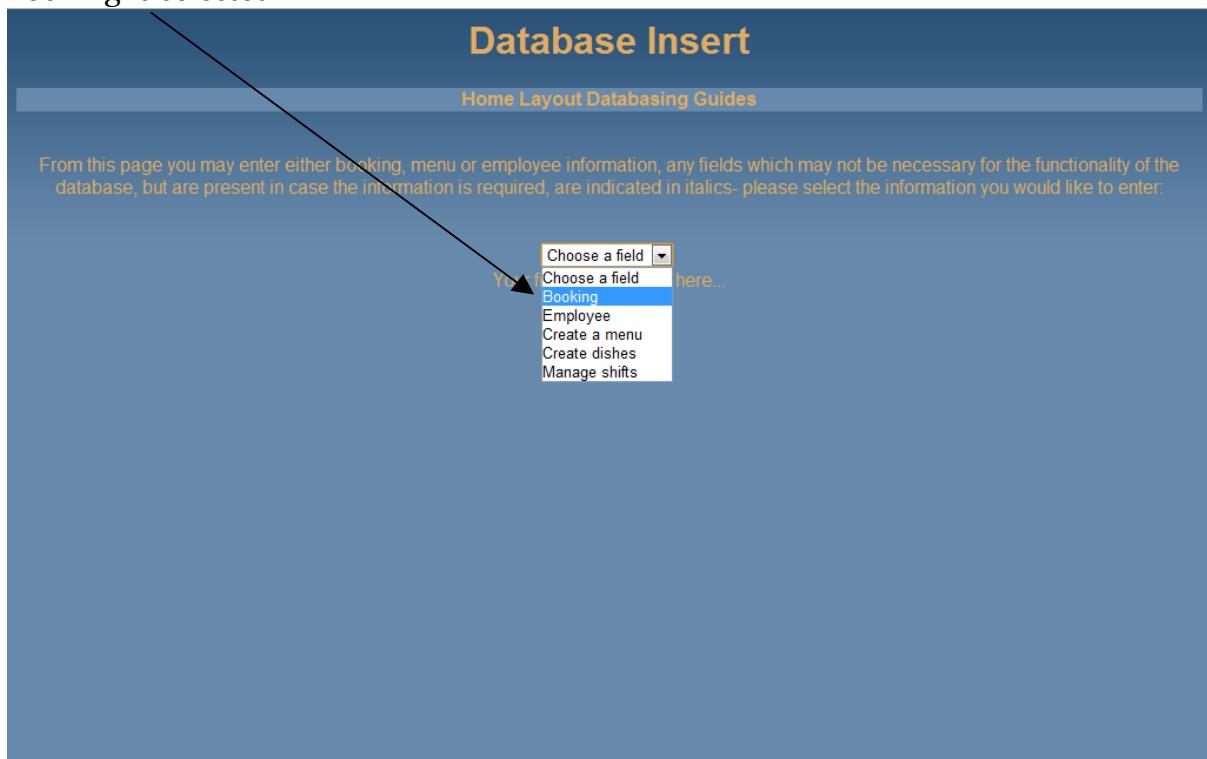
Test series 4

Number 4.1

Insert page before action



Booking is selected



Related fields are displayed

Database Insert

[Home](#) [Layout](#) [Databasing](#) [Guides](#)

From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter.

Booking

Booking date:

Booking time:

Booking size:

Room: Conservatory

Customer name(T.Rogers):

Telephone:

Mobile:

Email:

Booking priority:

Special requirements:

Pre-booked menu: none

Number 4.2

Insert page before action

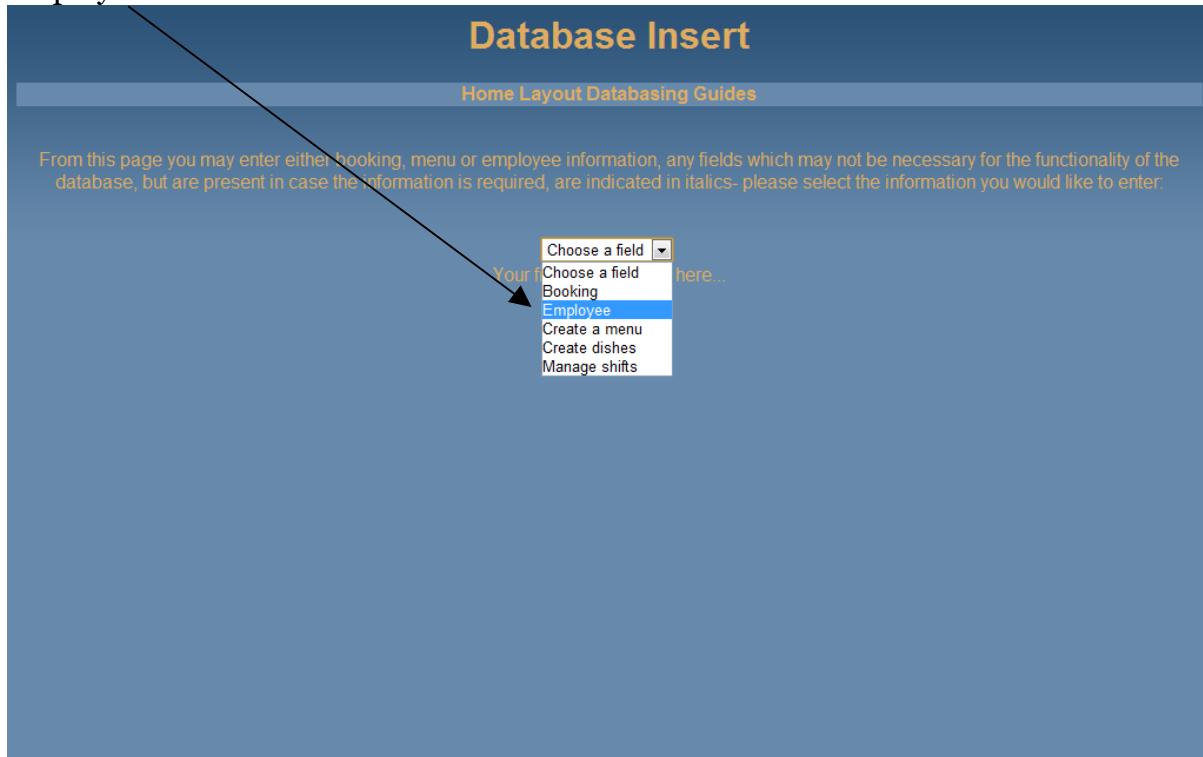
Database Insert

[Home](#) [Layout](#) [Databasing](#) [Guides](#)

From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter.

Choose a field
Your fields will appear here...

Employee is selected

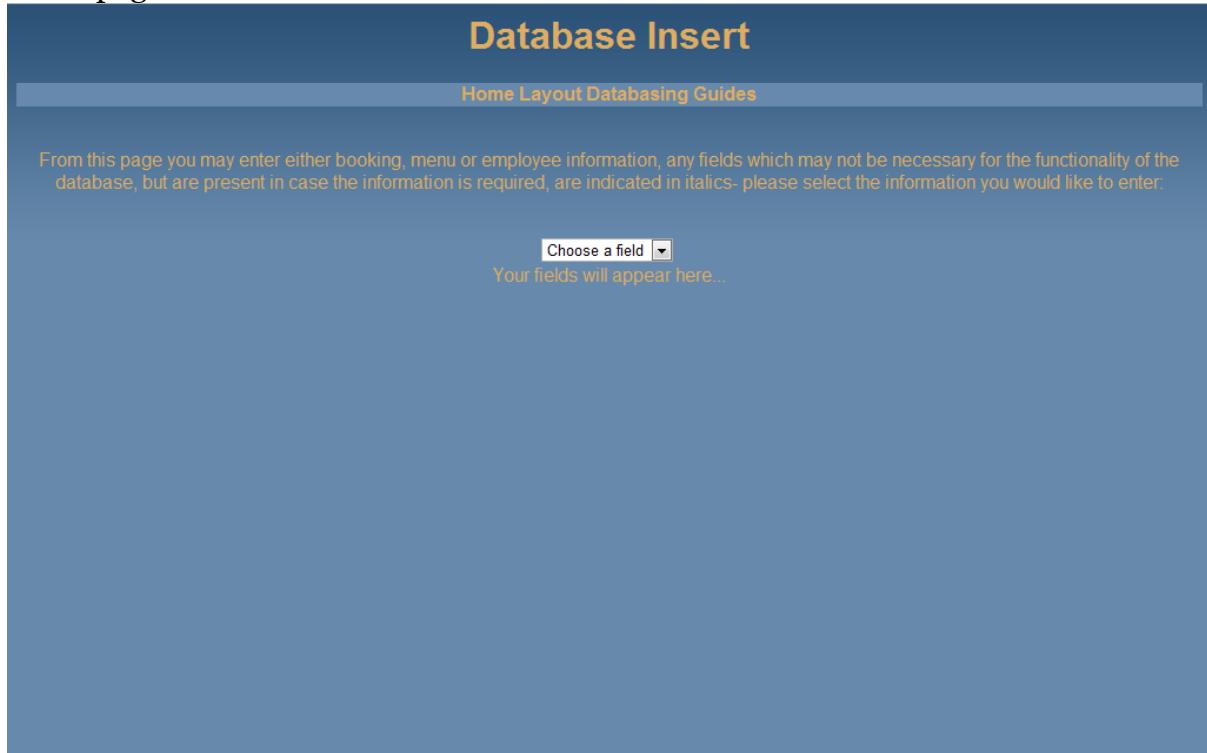


Related fields are displayed

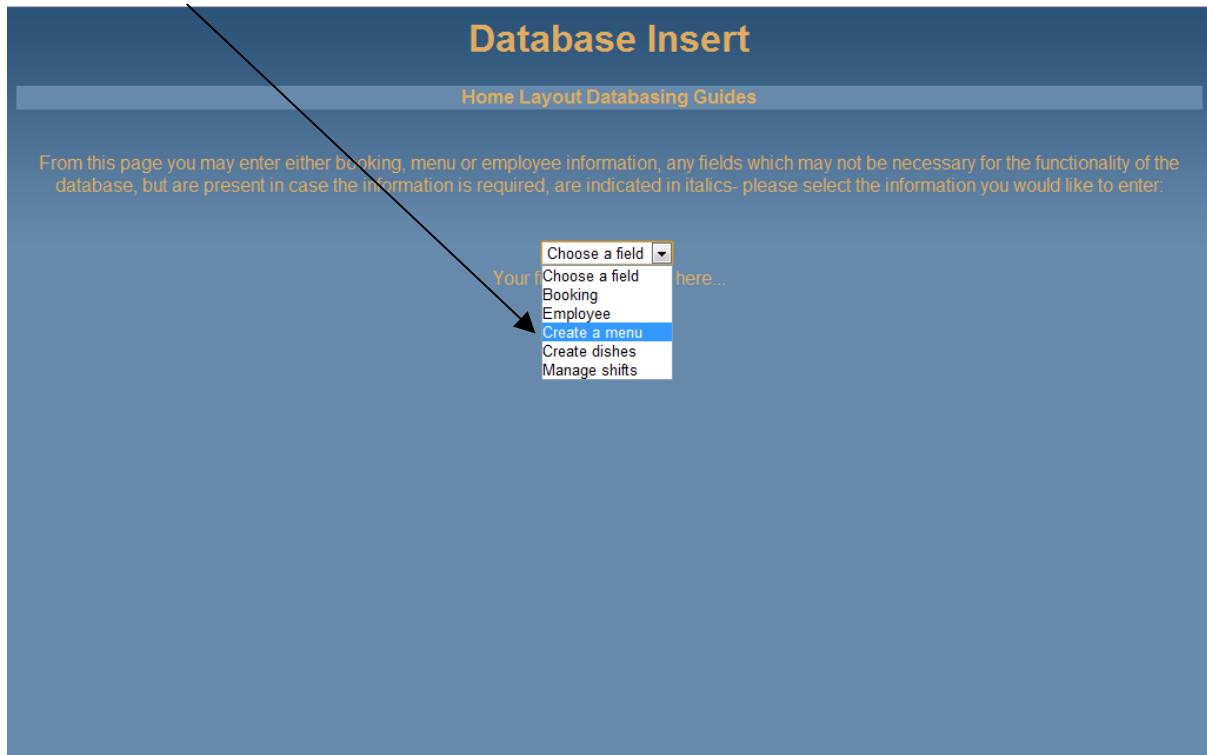
The screenshot shows the same 'Database Insert' page. The dropdown menu at the top right now displays 'Employee' as the selected option. Below the dropdown, there are four input fields for 'Employee name', 'Employee telephone', 'Employee mobile', and 'Employee email', each preceded by a label and a text input box. A 'Submit' button is located below these fields.

Number 4.3

Insert page before action



Create a menu is selected



Related fields are displayed

Database Insert

[Home](#) [Layout](#) [Databasing](#) [Guides](#)

From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter.

Menu name:

The purpose of the menu(i.e christmas):

Create a menu

Dish ID	Dish name	Dish description	Dish price	Vegetarian	Course	Add to menu
15	Chicken special	Chicken on a bed of chorizo cassoulet and spinach	20.00	No	Main	<input type="checkbox"/>
16	Big salad	its a salad	6.00	Yes	Main	<input type="checkbox"/>
17	Brie	Brie, bacon and pine nut salad	5.00	No	starter	<input type="checkbox"/>
18	Chicken special	Chicken on a bed of chorizo cassoulet and spinach	15.00	No	Main	<input type="checkbox"/>

Number 4.4

Insert page before action

Database Insert

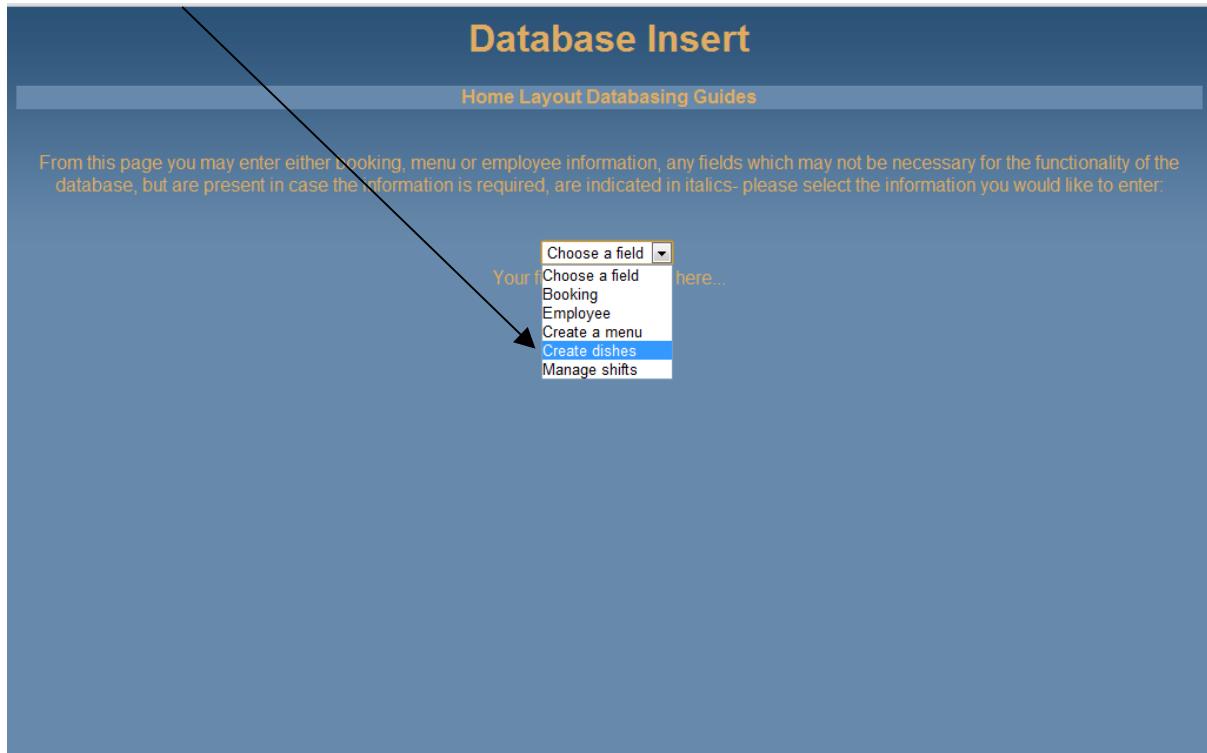
[Home](#) [Layout](#) [Databasing](#) [Guides](#)

From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter.

Choose a field

Your fields will appear here...

Create dishes is selected

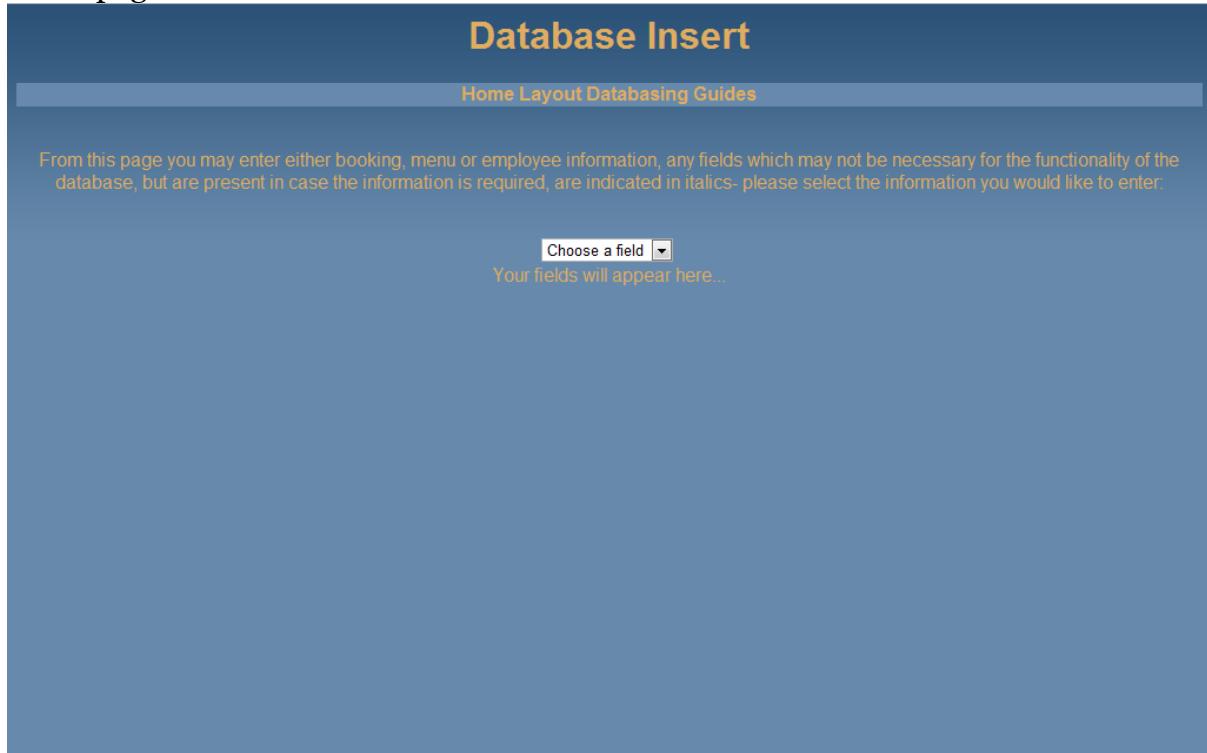


Related fields are displayed

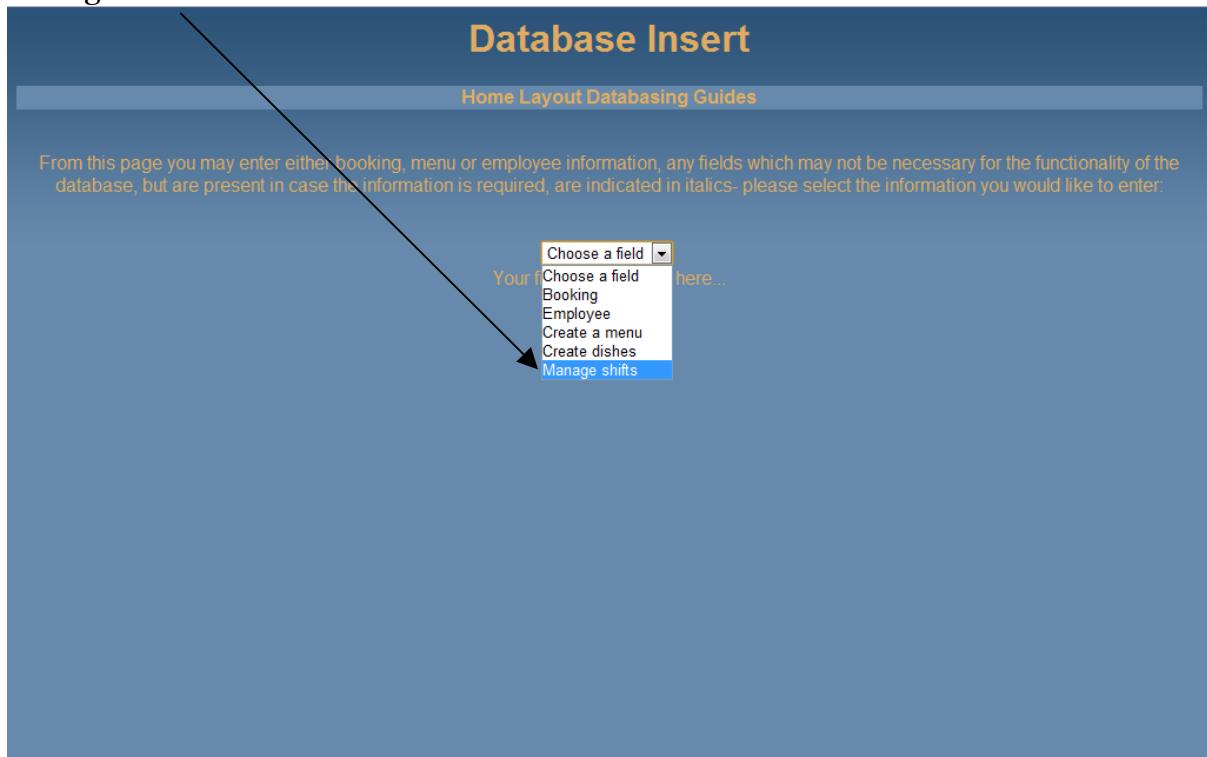
The screenshot shows a 'Database Insert' page with a header bar containing 'Home', 'Layout', 'Databasing', and 'Guides'. Below the header, a message states: 'From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter.' A dropdown menu titled 'Create dishes' is open, listing several fields: 'Dish name:' (with a text input field), 'Description:' (with a text input field), 'Dish price(£00.00):' (with a text input field), 'Vegetarian option?' (with a dropdown menu showing 'No'), and 'Course:' (with a text input field). A 'Submit' button is at the bottom of the form.

Number 4.5

Insert page before action



Manage shifts is selected



Related fields are displayed

Database Insert

[Home](#) [Layout](#) [Databasing](#) [Guides](#)

From this page you may enter either booking, menu or employee information, any fields which may not be necessary for the functionality of the database, but are present in case the information is required, are indicated in italics- please select the information you would like to enter:

Select a date: 

Time of shift: 

Select a job:

Select an employee: 

Number 4.6

Delete page before action

Database Delete

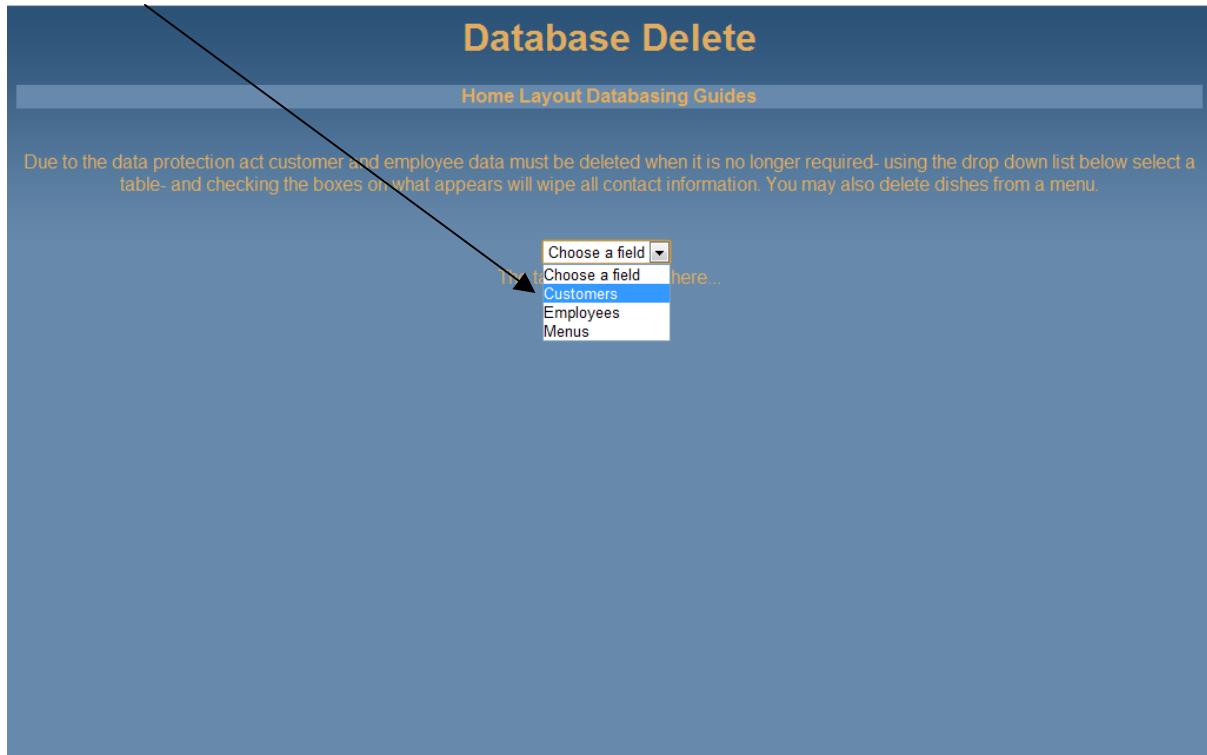
[Home](#) [Layout](#) [Databasing](#) [Guides](#)

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

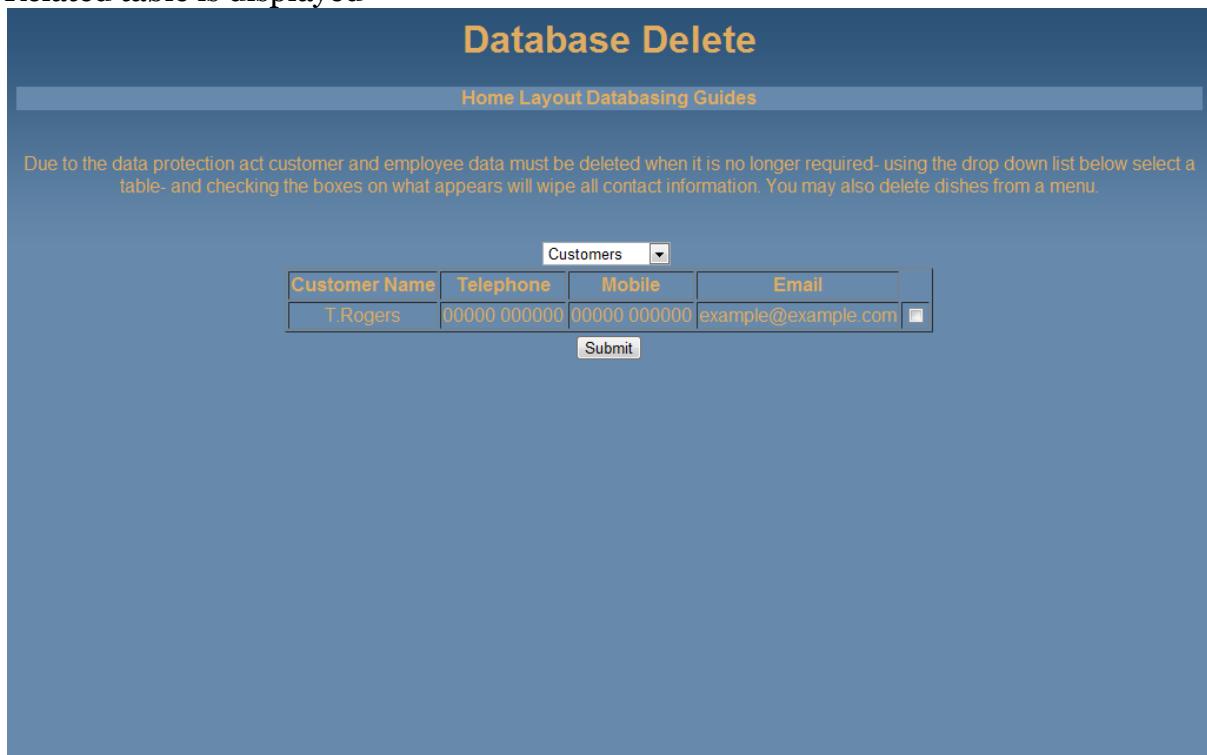


The table will appear here...

Customers is selected



Related table is displayed



Number 4.7

Delete page before action

Database Delete

Home Layout Databasing Guides

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

Choose a field ▾
The table will appear here...

Employees is selected

Database Delete

Home Layout Databasing Guides

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

Choose a field ▾

- Choose a field
- Customers
- Employees**
- Menus

Related table is displayed

Database Delete

Home Layout Databasing Guides

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

Employees			
Employee Name	Telephone	Mobile	Email
T.Rogers	01480 860052	07525 812288	tommyrogers100@hotmail.com <input type="checkbox"/>
C.fitz	00000 000000	00000 000000	lol@lol.com <input type="checkbox"/>

Number 4.8

Delete page before action

Database Delete

Home Layout Databasing Guides

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

Choose a field
The table will appear here...

Menus is selected

The screenshot shows a "Database Delete" interface. At the top, there is a navigation bar with links for Home, Layout, Databasing, and Guides. Below the navigation bar, a message states: "Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu." A dropdown menu titled "Choose a field" is open, listing "Choose a field", "Customers", "Employees", and "Menus". The "Menus" option is highlighted with a blue selection bar.

Related table is displayed

The screenshot shows a "Database Delete" interface. At the top, there is a navigation bar with links for Home, Layout, Databasing, and Guides. Below the navigation bar, a message states: "Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu." A dropdown menu titled "Menus" is open, showing a table with three rows:

Menu Name	Purpose	Creation date
A la carte	general	2011-04-01
Lunch	Lunch time	2011-04-01
special	xmas	2011-04-01

Number 4.9

Menu table displayed

The screenshot shows a web application window with a dark blue header bar. The title 'Database Delete' is centered in yellow. Below it is a navigation bar with links 'Home', 'Layout', 'Databasing', and 'Guides'. A descriptive text block below the navigation states: 'Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.' A dropdown menu labeled 'Menus' is open, showing a table with three rows:

Menu Name	Purpose	Creation date
A la carte	general	2011-04-01
Lunch	Lunch time	2011-04-01
special	xmas	2011-04-01

Menu is clicked

The screenshot shows the same web application window. A black arrow points from the text 'Menu is clicked' to the first row of the 'Menus' table. The first row, 'A la carte', is highlighted with a light gray background. The rest of the table and the surrounding interface remain the same.

Dishes on the menu are displayed

Database Delete

[Home](#) [Layout](#) [Databasing](#) [Guides](#)

Due to the data protection act customer and employee data must be deleted when it is no longer required- using the drop down list below select a table- and checking the boxes on what appears will wipe all contact information. You may also delete dishes from a menu.

Dish name	Dish description	Dish price	Vegetarian?	Course	Delete
Chicken special	Chicken on a bed of chorizo cassoulet and spinach	20	No	Main	<input type="checkbox"/>

Number 4.10

Modify page before action

Database Update

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This page is where you may update certain data, as personal details may have changed- or customers may wish to alter their bookings. To alter a record, click the reference number at the start of the table.

Choose a field
Your fields will appear here...

Booking is selected

The screenshot shows a "Database Update" page with a header bar containing "Home", "Layout", "Databasing", and "Guides". Below the header, a message states: "This page is where you may update certain data, as personal details may have changed- or customers may wish to alter their bookings. To alter a record, click the reference number at the start of the table." A dropdown menu is open, with the option "Choose a field" highlighted. Other options in the menu include "Booking", "Employee", "Menu", "Dish", and "Shifts". A black arrow points from the text "Booking is selected" to the "Booking" option in the dropdown menu.

Related table of bookings is displayed

The screenshot shows a "Database Update" page with a header bar containing "Home", "Layout", "Databasing", and "Guides". Below the header, a message states: "This page is where you may update certain data, as personal details may have changed- or customers may wish to alter their bookings. To alter a record, click the reference number at the start of the table." A table is displayed with the following columns: Reference, Booking Size, Booking Time, Booking Priority, Special Requirements, Customer Name, Customer Telephone, Customer Mobile, Customer Email, Room, and Date. The table contains six rows of data, all sharing the same customer information (T.Rogers) and booking details (Size 3, Time 14:00:00). The "Customer Name" column has a dropdown arrow icon above it, currently set to "Booking".

Reference	Booking Size	Booking Time	Booking Priority	Special Requirements	Customer Name	Customer Telephone	Customer Mobile	Customer Email	Room	Date
9	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28
10	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28
11	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28
12	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28
13	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28
8	4	13:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Conservatory	2011-04-27

Number 4.11

Table of bookings before action

Database Update											
Home Layout Databasing Guides											
This page is where you may update certain data, as personal details may have changed- or customers may wish to alter their bookings. To alter a record, click the reference number at the start of the table.											
Booking											
Reference	Booking Size	Booking Time	Booking Priority	Special Requirements	Customer Name	Customer Telephone	Customer Mobile	Customer Email	Room	Date	
9	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
10	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
11	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
12	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
13	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
8	4	13:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Conservatory	2011-04-27	

Booking reference is clicked

Database Update											
Home Layout Databasing Guides											
This page is where you may update certain data, as personal details may have changed- or customers may wish to alter their bookings. To alter a record, click the reference number at the start of the table.											
Booking											
Reference	Booking Size	Booking Time	Booking Priority	Special Requirements	Customer Name	Customer Telephone	Customer Mobile	Customer Email	Room	Date	
9	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
10	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
11	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
12	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
13	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
8	4	13:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Conservatory	2011-04-27	

Information for this reference is passed into a form for updating

Booking											
Reference	Booking Size	Booking Time	Booking Priority	Special Requirements	Customer Name	Customer Telephone	Customer Mobile	Customer Email	Room	Date	
9	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
10	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
11	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
12	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
13	3	14:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Restaurant	2011-04-28	
8	4	13:00:00			T.Rogers	00000 000000	00000 000000	example@example.com	Conservatory	2011-04-27	

Booking date: 2011-04-27

Booking time: 13:00:00

Booking size: 4

Room: Conservatory

Customer name(T.Rogers): T.Rogers

Telephone: 00000 000000

Mobile: 00000 000000

Email: example@example.com

Booking priority:

Special requirements:

4. Evaluation

4.1. Approach to testing

My main approach to testing was bottom up testing, as I tested each area as I created it. Then once my system was completed, I used other testing strategies to ensure it functioned correctly- the strategies I used in my second stage of testing were: top-down testing (for the hyper-linking and navigation bar), Integration testing (for the ajax scripts) and black box testing (for the functionality of the user input forms).

4.2. Problems

From carrying out my testing, a few issues occurred to me, the first is presenting tables showing all current customers and bookings for example- as time progresses, it may become a factor that these tables are large to the point it takes a lot of time to scroll through it. Secondly, from testing my ajax, I have discovered through a test such as 4.11, although there is a description- there is no clear indication that you must click the booking reference to display the fields. Finally, when testing my data inputs, it became clear that my validation is not substantial enough to ensure that all the data in the database is in a correct format, however, if the user notices this, they can use the update functions to rectify this.

4.3. Strengths

Bottom-up testing is the strongest strategy in my opinion, as this way you can rectify the majority of problems when you first encounter them, rather than have to edit lots of code in order to fix an issues found in testing only after the coding is complete. Similarly integration testing is a strength of my testing phase, this is because when I

was using for example 2 ajax functions in a row, using test 4.11 again as an example, I could see first if the beginning function integrated the pages correctly, and then with the 2nd function and the form submission, if the other pages had successfully been integrated within the code.

4.4. Weaknesses

A found a weakness in white box testing, as it runs on the idea of trying every possible root through a section of the system, it would become far too time consuming and complex to conduct, which may have left hole in my test plan.

4.5. Reliability

Through testing my system I have established that with the user inputs, the correct information is added to correct areas, data is successfully modified or deleted where it is supposed to, and when a query is run- it displays the correct results on the screen or for use in a function. The ajax scripts display the correct tables or fields that were requested

4.6. Robustness

Through testing all of the inputs I have established that none of these form submissions led to blank page, a MySQL error or other coding error, all of the links go to the desired destination showing they are reliable- but also don't lead to a blank page showing they are robust, neither do the ajax scripts lead to a system crash, showing that the coding is correct and producing desired results.