Huw Talliss Testing and Evaluation

Test Strategy

During the development of my solution, I would compile the code and see if there were any syntax or coding errors. But even after fixing these errors, my solution may still contain operational errors, causing it to operate in an incorrect way. I will test the features of my solution to identify any faults which have not been discovered prior to this.

I will perform <u>Navigational Testing</u>. This involves testing all the buttons in my program to see if they perform the correct actions e.g. displaying the correct form when clicked. This testing will ensure that the user can navigate through the program properly.

Also, I will assess the <u>Interface</u> of the solution. Ensuring the user interface and colour scheme are professional and allow the user to be efficient with their use of the program.

Furthermore, I will test the <u>Program Functionality</u> to ensure that the program functions fully when carrying out tasks.

I will test:

- The security of the LoginForm- It should only allow access to the MainForm if the username and password are correct.
- Adding data- new data should be added without errors
- Deleting data- existing data should be able to be deleted
- Sorting data- data should be sorted dependant on a user-selected field in ascending order
- Filtering data- data should be filtered based on a user-selected field and filter term
- Validation of data- erroneous data should not be stored in the table and the user should be prevented from entering this data.
- Reports- That reports are shown onscreen and print correctly
- Calculations- Calculations should be correct

Test Data

All of the data fields will be tested to ensure they only allow valid data.

The types of data I will use to test my program are:

- "Normal Data" Data which is expected to be entered and which should be accepted by the program
- "Extreme Data" Data which is too high or too low of a value to be considered feasible by the program
- "Incompatible Data" Data which is of the wrong type for the field it is to be stored. E.g. entering numbers in a Name field.
- "Non-Existent Data" Data which does not exist because no data has been entered.

Examples of these data types:

- Normal data: a sensible string for a name such as "Matthew"
- Extreme data: entering a very long string for a town name such as "Llanfairpwllgwyngyllgogerychwyrndrobwllllantysiliogogogoch"
- Incompatible data: entering a number in a name field such as "6746488342478"
- Non-Existent data: leaving the data entry box empty

Huw Talliss Problems during program creation

During the coding of the program, several issues occurred that I had to solve.

One of the issues encountered was with retrieving the value that is auto-incremented when a record is created. It was difficult to retrieve the value reliably, a solution could have been to get the largest auto-incremented value from the table, but this would be unreliable as you cannot be sure that the created record has the largest auto-incremented value.

The issue was eventually solved by manually opening and closing a connection to the database so the value could be returned.

Other issues occurred in implementing features but were eventually solved.

Checking seat prices

Different seats have different prices as defined by:

Ticket prices				
Rows A to C	£10.00			
Rows D to F	£12.50			
Rows G to L	£7.25			

I have checked a few seats from each price band to check they are the correct prices:

£10.00 Band

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		Bookin	g	
Se Pri		A9 £10 □ Disabled	Day:	1

£12.50 Band

🖳 DataEntry			3					
Booking								
Seat Price:	E11 £12.5 □ Disabled	Day: 1						

DataEntry			- • •				
Booking							
Seat: Price:	L10 £7.25 Disabled] Day:	1				

Huw Talliss Data Testing

LoginForm

Test No.	Testing Field	Reason for test	Test data	Expected outcome	Outcome	Reference to evidence
1	Username	To test username authentication	Username: "user" Password: "password"	Username check will fail and an error message will be shown	The username check failed and an error message was shown	1
2	Password	To test password authentication	Username: "admin" Password: "abcde"	Password check will fail and an error message will be shown	The password check failed and an error message was shown	2

DataEntry

Test	Testing Field	Reason for test	Test data	Expected outcome	Outcome	Reference to
No.						evidence
3	First Name	To ensure entered text with numbers or symbols is not accepted	First Name: "M477h3w£*"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	3
4	Surname	To ensure entered text with numbers or symbols is not accepted	Surname: "€u7713r\$"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	4

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5	House Name/Num	To ensure only valid text is accepted	House Name/Num: "\$a\$h4 €10\$3"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	5
6	Address Line 1	To ensure only valid text is accepted	Address Line 1: "20 £ road"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	6
7	Address Line 2	To ensure only valid text is accepted	Address Line 2: "50% Avenue"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	7
8	Address Line 2	To ensure that the field can be left blank	Address Line 2: ""	The text box will be green	The text box turned green	8
9	Town	To ensure entered text with numbers or symbols is not accepted	Town: "\$u77on €oldfi31d"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	9
10	County	To ensure entered text with numbers or symbols is not accepted	County: "3a\$t M1dland\$"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	10
11	Postcode	To ensure only valid UK postcodes are accepted	Postcode: "B6 223" + "J67 4R4"	The text box will be red and the book button will not be enabled	The text box turned red and the book button was not enabled	11

12	Email	To ensure only valid	Email: "happy@net" +	The text box will be red and the	The text box	12
		email addresses are	"Matthew@Cutler.c"	book button will not be	turned red and the	
		accepted		enabled	book button was	
					not enabled	
13	Contact No.	To ensure only valid	Contact No.:	The text box will be red and the	The text box	13
		telephone numbers are	"012165722887" +	book button will not be	turned red and the	
		accepted	"1223145774930" +	enabled	book button was	
			"1775ou18375-a"		not enabled	

ViewCRecords

Test No.	Testing Field	Reason for test	Test data	Expected outcome	Outcome	Reference to evidence
14	CustomerID Radio Button	To ensure sorting works correctly	Clicking the radio button	The CustomerID field would be sorted in ascending order	The CustomerID field was sorted in ascending order	14
15	Surname Radio Button	To ensure sorting works correctly	Clicking the radio button	The Surname field would be sorted in ascending order	The Surname field was sorted in ascending order	15
16	Search Box	To check that when the CustomerID field is selected in the dropdown menu, the textbox only accepts numbers to filter with	SearchBox: "two" and "West Midlands"	The filter will not be applied to the table.	The filter was not applied to the table	16

Huw Talliss ViewSRecords

Test	Testing Field	Reason for test	Test data	Expected outcome	Outcome	Reference to
No.						evidence
17	CustomerID Radio Button	To ensure sorting works correctly	Clicking the radio button	The CustomerID field would be sorted in ascending order	The CustomerID field was sorted in ascending order	17
18	SeatID Radio Button	To ensure sorting works correctly	Clicking the radio button	The SeatID field would be sorted in ascending order	The SeatID field was sorted in ascending order	18
19	Search Box	To check that when the CustomerID field is selected in the dropdown menu, the textbox only accepts numbers to filter with	SearchBox: "two" and "West Midlands"	The filter will not be applied to the table.	The filter was not applied to the table	19

Huw Talliss **ReportForm**

Test No.	Testing Field	Reason for test	Test data	Expected outcome	Outcome	Reference to evidence
20	Report	To check that the report is displayed on screen.	N/A	The report would be displayed to the screen correctly	The report was displayed on screen correctly	20
21	Report	To check that the reports can be printed correctly	N/A	The report will print correctly	The report was correctly printed	21
22	Calculations	To check that the calculations the reports perform are correct	12.5+12.5+10+7.25+12.5 =54.75	The calculation would output 54.75	The outcome was 54.75	22
23	Calculations	To check that the calculations the reports perform are correct	7.25+12.5+10+7.25+7.25+ 12.5 =56.75	The calculation would output 56.75	The outcome was 56.75	23

Navigational Testing

MainForm

Test	Testing Field	Reason for test	Expected outcome	Outcome
No.				
24	Book a seat button	To make sure the button opens the SeatingPlan form	The SeatingPlan form opens	The correct form opened
25	ViewCustomerRecords button	To make sure the button opens the ViewCRecords form	The ViewCRecords form opens	The correct form opened

26	ViewSeatRecords button	To make sure the button opens the	The ViewSRecord form opens	The correct
		ViewSRecords form		form opened

SeatingPlan

Test No.	Testing Field	Reason for test	Expected outcome	Outcome
27	Tabs	To make sure that using the tab buttons takes you to either the day1 seating plan or day2 seating plan dependant on which one is clicked	The tab buttons correctly link to the correct seating plans for each day	The tab buttons linked correctly
28	Seat buttons	To ensure that clicking an unbooked seat button will open up the DataEntry form.	The DataEntry form will be shown when the Seat button is clicked	The DataEntry form opened correctly

Huw Talliss Reference to evidence

Reference	Screenshot
1	Login DEX
	Usemame: user Password: ••••••
	Error
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2	
	Login
	Usemame: admin Password: •••••
	Error
	Invalid Username or Password

🖳 DataEntry
Booking
Seat J11 Day: 1 Price: 7.25
Title:
First Name: M477h3w£* Surname:
House Name/No: Address Line 1:
Address Line 2:
Town: County:
Postcode: Email:
Contact No:
Cancel One or more fields Book

4	DataEntry	
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	Cancel One or more fields contain incorrect information	Book

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		19	Mrs.	Ardam	Dardam	04/02/2013 12:39		Pizza Lane		
		20	Dr.	Jamie	Bragninggan	04/02/2013 12:44		Sixty Road		
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	19	Mrs.	Ardam	Dardam	04/02/2013 12:39		Pizza Lane
	20	Dr.	Jamie	Bragninggan	04/02/2013 12:44		Sixty Road
	22	Mr.	Simon	Brickwell	27/02/2013 09:32		Fredrick Road
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					С	ustomer	Details		
stomer Titl	e First Name	Surname	House Num Name	Address1	Address2	Postcode	Email	Con	
1 Mr	Daniel	McLoser	18	Thanet Grove		874 3RS	cesque@lol.com	0792	
2 Mrs	Ardam	Zaman	6	Sandwell Place		S41 1EL	Drad.am.com	0719 ≡	
3 Mr	Joseph	Zolna	80	Anstey Road		B44 8AL	josephzolna@hotmail.co.uk	0766	
19 Mrs.	Ardam	Dardam	200	Pizza Lane	Hamburger	P45 7AO	ardam@darmda.com	0293	
20 Dr.	Jamie	Bragninggan	40	Sixty Road		T07 7UT	jamie@bran.com	0791	
23 Miss.	Ardam	Zaman	Night House	Thai Lane		P47 2YF	ilikeflowers@hotmail.com	0721	
22 Mr.	Simon	Brickwell	12	Fredrick Road		B6 6DJ	web@keaston.bham.sch.uk	0123	
24 Prof.	Charles	Lee	168	Chester Road		NG10 6RW	charles.lee@gmail.com	0782	
25 Dr.	Pizza	Hamburgers	10	Hug End		B42 1SS	pizza@hmaburges.com	0722	
26 Dr.	Victor	Von Steel	No.1 Volcano	Bleached Corridor, Secret Base	Secret Island	N42 1SS	TakingOverTheWorld@aol.com	0557	
27 Mr.	Matthew	Brownie	1899	Crumpton Lane		L32 6TR	M.B@gmail.com	0126	
28 Miss	Beasleia	Beasley	69	SWAG	YOLO	B421HB	NO@NO.NO	0121 +	
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🖳 ReportForm		
Customer Details Seat Details Day 1 Seat Details Day 2		
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Seat Table Day	1	
Customer ID Seat ID Price	Disabled	
1 E14 £12.5	False	
2 E15 £12.5	True	
3 A8 £10	False	
25 G4 £7.25	False	
28 D13 £12.5	False	
Total Income: £54.75		
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ReportForm	
Customer Details Seat Details Day 1 Seat Details Day 2	
Image:	
Seat Table Day 2	
Customer ID Seat ID Price Disabled	
20 J11 £7.25 False	
23 F15 £12.5 True	
24 C2 £10 False	
26 L14 £7.25 False	
27 G6 £7.25 False	
29 D13 £12.5 False	
Total Income: £56.75	
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Huw Talliss Evaluation

Usability

I gave the questionnaire to a few people in my computing class to rate the usability of the program. This is a good measure of the quality of the program as those completing the questionnaire have a good idea of what a good program consists of.

I also gave my questionnaire to people outside of my computing class so that I could find out the usability for those less familiar with the program.

	Navigation	Booking	Deleting	Sorting	Searching	Printing
Ādam Zaman	5	5	5	5	4	5
Daniel James	5	4	4	5	5	5
Daniel Beasley	5	5	4	5	5	5
Jamie Brannigan	5	5	4	5	5	5

As the results of the questionnaire are all either 4 or 5, I can conclude that the usability of the program is very good. The feedback was very positive and it was said that the program was very easy to navigate and use in all areas except for the deletion of bookings which users had a slightly more difficult time to locate. But once located, the deletion of bookings was easy.

Suitability

The main aims of my project were:

- Allow customer details such as name, email, address etc. to be input and stored into a database.
- Display all the available seats and show if they have disabled access or not so that it is easy to tell which seats are available.
- Enable seats to be booked for each day so that the same seat can have multiple days on which it is booked.
- Ensure that seats are not double booked as this would cause several problems.
- Store and retrieve the details of all the bookings made by a customer for use in contacting the customer and viewing total income.
- Output the total ticket sales for each performance so the company can tell if they will make a profit.

The solution successfully addresses each of these aims and performs them to a good standard and therefore the suitability of the solution is excellent.

Huw Talliss Performance

All the tests I carried out as to whether the solution performed correctly were passed by the solution apart from an issue where the colours of seats were not updated at the correct times but this has now been fixed.

Several bugs including syntax bugs occurred during the creation of the program but at this point there are no syntax errors or warnings.

As there are no major problems with the program left, I consider the program to perform extremely well.

Future Improvements

The solution performs very well for the particular seating plan and number of days that is required by SADS. A future improvement could be to easily edit the seating plan or add multiple seating plans and allow a greater number of days to be added.

A greater security system could be implemented to allow access to different areas of the system dependent of the login information entered. This could enable the information of the system to be more secure and protect it from editing to a further extent than is currently implemented.

The method of deleting a booking could be made more evident to the user and more sophisticated through a redesign or through information displayed on the form itself.

Finally, the forms for viewing records could be better designed and the record viewer could be made to change size to fill the size of the window allowing the user to increase the size of the window and for the form's layout to still be correct.