Testing

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Testing strategy

I will test my system using Black box testing, white box testing.

Black box testing

System testing where overall results of the actions in the system are checked. Eg checking that I can set the settings for a day or that I can as a member of staff set when im available

On top of this I will be doing function testing in which I will check that each function produces the correct results ie importing csv to dat files or changing the appointment length radio button and checking if it has changed the lengths for the appointments in cmbstart and cmbfinish.

White box testing

I will do Path testing for each of my functions by putting up breakpoints at all of the major subroutines to make sure they are being executed and in the right order by the program.

Function testing, I will check that each subroutine and function when executed return the correct results. Ie weather or not subroutines like militarytime, a subroutine that converts a number from 0 to 287 to a number in military form, generates the correct results.

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Testing plan

	81			
frm	start			
Test No	event	Test data	Reason for test	Expected outcome
1	Form loads and the the username is retrived by the program	The users network area username in my case 112544	If the correct username is not obtained then the system will not work	The variable user will contain my username
2	Form loads and the number or each kind of record is found	The dat files	A lot of the for loops in the program rely on an accurate value for the number of each type of record. If it works for staff it will work for the other files as they are in the same.	The number of staff files recorded to be 97 as the file size is 97 times the record size and there is 97 staff
3	Form loads and the number or each kind of record is found	The dat files exept that the staff dat file will be missing	If it does not properly handle the situation it could crash the code	The program will continue as if nothing out of the ordinary was happening with nstaff as 0
3.b	Form loads and the number or each kind of record is found	The dat files exept that the staff dat file will be missing	If it does not properly handle the situation it could crash the code	The program will continue as if nothing out of the ordinary was happening with nstaff as 0
4	Form loading	Whether or not the user is an admin	If the user is an admin then the admin button must present itself or the admin will not be able to wield his or her power.	btnAdmin should be visible
5	A a user who is a student trys to log on	The variable "User" will be set to "112544" who is added to students.dat	If when a correct student user uses the program they need to be recognised or they cant do anything	The user type should be set to 1 and student.studID should be 112544
6	A user who is a staff member trys to log on to the availability form	The variable "User" will be set to "RKI" who will be added to staff.dat	If when a correct staff member user uses the program they need to be recognised or they cant do anything	The user type should be set to 2 and staff.staffid should be RKI And the frm availability should open
7	A user with the name of an admin tries to log	The variable "User" will be set to "SBE"	If when a correct staff member user uses the program they need to be recognised as admin	The admin button should be visible. User type shoud be 2 and staff.staffid = SSB

8	on to the availability form A user with the name of an admin tries to log on to the admin	and the record will be changed to admin The variable "User" will be set to "SBE" and the record will be changed to admin	or no one can edit the settings If when a correct staff member user uses the program they need to be recognised as admin or no one can edit the settings	and the availability form should open when the availability button is clicked The admin button should be visible. User type shoud be 2 and staff.staffid = SSB and the admin form should open when the admin button is clicked
9	Some one with the format of a student but is not on the system	The variable "User" will be set to "999999" which is in the format of a students logon but is not in the students.dat file	I If when a user of an incorrect user name tries to use the system it should notify them and not crash so if they should be on the system the can see that that is the error and get someone to fix it	Usertype should be = 0 And an error message should come up telling them that their username is not valid and to contact admin if this is wrong Also there will be no buttons visible except for exit
10	Someone who does not have the format of a student but is not on the system and there is a staff file loaded	The variable "user" will be set to "librarycomputer1" which is in the correct format to be checked to be a staff and is not in the staff.dat file	If when a user of an incorrect user name tries to use the system it should notify them and not crash so if they should be on the system the can see that that is the error and get someone to fix it	Usertype should be = 0 And an error message should come up telling them that their username is not valid and to contact admin if this is wrong
11	Btnexit clicked	Btnexit clicked	The windows are locked so they will not be able to be closed any other way.	The window will close

frma	frmavailability					
Test	event	Test data	Reason for test	Expected outcome		
No						
	Form loading and	I student.forename to	If it though if it doesn't work	Lblname will say "welcome simon bellows"		
	Iblname displaying a	simon and				
	welcome message	student.surname to				
	when a student is using	surname and usertype				

it	to 1		
Form loading and	I staff.forename to	If it though if it doesn't work	Lblname will say "welcome simon bellows"
Iblname displaying a	simon and		
welcome message	staff.surname to		
when a student is using	surname and usertype		
it	to 2		
Form loads populates	Appointmentlength =	If it doesn't correctly display the appointment	A set of un checked items in the list starting
the chklstavailability	5 Nday = 2 and	blocks then user will not be able to accurately	with "day 1 1700 to 1800" to "day 2 1930 to
Checked combo box	day.start = 204 and	set there availability.	2030"
	day.finnish = 246 for		
	day.dayno = 1 and		
	day.dayno = 2		
Form loads populates	Appointmentlength =	If it doesn't correctly display the appointment	A set of un checked items in the list starting
the chklstavailability	10 Nday = 2 and	blocks then user will not be able to accurately	with "day 1 1700 to 1800" to "day 2 1930 to
Checked combo box	day.start = 204 and	set there availability.	2030"
but for appointment	day.finnish = 252 for		
length 10	day.dayno = 1 and		
	day.dayno = 2		
The check box on one	Appointment length =	If a member of staff is unable to check that	checkedlistbox item day 1 1700 to 1800 will
of the items in	5. Usertype = 2	they will be available for any appointments	be checked and in the staffav.dat file there
chklstavailablility is	Staffav record. The	then they will not be able to be seen by any	will be a record that says the staff member is
checked with a staff	unchecked	students	available
member using at	checkedlistbox item		
appointment length 5	day 1 1700 to 1800		
The check box on one	Appointment length =	If a member of staff is unable to check that	checkedlistbox item day 1 1700 to 1830 will
of the items in	10. Usertype = 2	they will be available for any appointments	be unchecked and in the staffav.dat file there
chklstavailablility is	Staffav record. The	then they will not be able to be seen by any	will be a record that says the staff member is
checked with a staff	unchecked	students	available
member using at	checkedlistbox item		
appointment length 10	day 1 1700 to 1830		
The check box on one	Appointment length =	If a member of staff is unable to uncheck that	checkedlistbox item day 1 1700 to 1800 will
of the items in	5. Usertype = 2	they will be available for any appointments	be checked and in the staffav.dat file there
chklstavailablility is	Staffav record. The	then they will be assigned appointments they	will be a record that says the staff member is

unchecked with a staff	checked	won't be available for and will mislead	unavailable
member using at	checkedlistbox item	students	
appointment length 5	day 1 1700 to 1800		
The check box on one	Appointment length =	If a member of staff is unable to uncheck that	checkedlistbox item day 1 1700 to 1830 will
of the items in	10. Usertype = 2	they will be available for any appointments	be unchecked and in the staffav.dat file there
chklstavailablility is	Staffav record. The	then they will be assigned appointments they	will be a record that says the staff member is
unchecked with a staff	checked	won't be available for and will mislead	unavailable
member using at	checkedlistbox item	students	
appointment length 10	day 1 1700 to 1830		
The check box on one	Appointment length =	If a student is unable to check that they will be	checkedlistbox item day 1 1700 to 1800 will
of the items in	5. Usertype =1	available for any appointments then they will	be checked and in the studav.dat file there will
chklstavailablility is	Staffav record. The	not be able to be seen by any members of	be a record that says the staff member is
checked by a student	unchecked	staff	available
using at appointment	checkedlistbox item		
length 5	day 1 1700 to 1800		
The check box on one	Appointment length =	If a student is unable to check that they will be	checkedlistbox item day 1 1700 to 1830 will
of the items in	10. Usertype =1	available for any appointments then they will	be unchecked and in the studav.dat file there
chklstavailablility is	Staffav record. The	not be able to be seen by any members of	will be a record that says the staff member is
checked by a student	unchecked	staff	available
using at appointment	checkedlistbox item		
length 10	day 1 1700 to 1830		
The check box on one	Appointment length =	If a student is unable to uncheck that they will	checkedlistbox item day 1 1700 to 1800 will
of the items in	5. Usertype =1	be available for any appointments then they	be checked and in the studav.dat file there will
chklstavailablility is	Staffav record. The	will be assigned appointments they won't be	be a record that says the staff member is
unchecked by a student	checked	available for and will mislead members of staff	unavailable
using at appointment	checkedlistbox item		
length 5	day 1 1700 to 1800		
The check box on one	Appointment length =	If a student is unable to uncheck that they will	checkedlistbox item day 1 1700 to 1830 will
of the items in	10. Usertype = 1	be available for any appointments then they	be unchecked and in the studav.dat file there
chklstavailablility is	Staffav record. The	will be assigned appointments they won't be	will be a record that says the staff member is
unchecked by a student	checked	available for and will mislead members of	unavailable
using at appointment	checkedlistbox item	staff.	
length 10	day 1 1700 to 1830		

Btnexit clicked	btnExit being clicked	Because if button exit does not work then the	Frmavailability will close and the start form
		user won't be able to exit the program	will open.
		without forcequiting it.	

Test No	event	Test data	Reason for test	Expected outcome
	btnReset	Clicking button reset	Between parents evenings the admin may want to cleanse the system and start anew	The file lengths for the different dat files wil be changed back to 0
	Clicking Btnback	Clicking btnback	If the user is unable to use the back button then he would be unable to leave the form without forcequiting it.	The form will close and the start form will open
	btnDaysettings	Clicking btndaysettings	If they are unable to get to the daysettings form then they can not generate the appointment records and availability records.	The day settings form will open
	Import staff and student data button is clicked	Clicking on the import classSlots, studetnclass, staff and student file. With them all existing and none of the data in the wrong format	If the import does not work then there will be none of the basic data that the whole system feeds off so none of it will work.	I will get a series of message boxes notifying me that different parts have imported and there will be populated dat files by the names of student staff and lesson.
	Import staff and student data button is clicked	Clicking on the import classSlots, studetnclass, staff and student file. With the only problem being that there is no student file	If the import does not work then there will be none of the basic data that the whole system feeds off so none of it will work.	I will get a message telling me that there was an error and the system could not find the file
	Import staff and student data button is	Clicking on the import classSlots,	If the import does not work then there will be none of the basic data that the whole system	I will get a message telling me that there was an error and the system could not find the file

clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is no staff		
	file		
Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error and the system could not find the file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is no		
	studentclass file		
Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error and the system could not find the file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is no		
	classslotfile file		
Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error with the student.csv file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is errors in		
	the student.csv		
Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error with the studentclass.csv file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is errors in		
	the studentclass.csv		

Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error with the staff.csv file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is errors in		
	the staff.csv		
Import staff and	Clicking on the import	If the import does not work then there will be	I will get a message telling me that there was
student data button is	classSlots,	none of the basic data that the whole system	an error with the classslots.csv file
clicked	studetnclass, staff and	feeds off so none of it will work.	
	student file. With the		
	only problem being		
	that there is errors in		
	the classslots.csv		
Btnalgorithm clicked	Btnalgorithm clicked	If the button does not start the algorithm then	I it will hit a breakpoint I will stick inside the
		no appointments will be created and the	subroutine
		program will be impetant	
The sorting algorithm I	The student and staff	If it works for small numbers it will work the	When I look at the appointment form I will see
run	availability files with	same or large numbers, though there will be	a number of appointments depending on the
	10 students and 4 staff	an increase in people with out appointments	effectiveness of the algorithm
	as a small scale	unless the number of appointments is	
	experitment.	increased.	
Clicking btnemail	Clicking btnemail and	If this does not work then there is no way for	I will expect to recive an email at
	for the purposes of	anyone to find out what their appointments	112544@ssfc.ac.uk detailing appointments of
	this test I will be	are.	simon bellows
	changing the email		
	address to @ssfc.ac.uk		
	instead because I		
	don't have access to		
	the other domains		
	email's. and I will be		
	just using the student		
	simon bellows		

Test	event	Test data	Reason for test	Expected outcome
No	Form loads	The form loads	When the form loads the neither the number of days or the length of appointments are decided ergo one can not set the times for the days so they should be invisible	Cmbstart, cmbday and cmbend will be invisible
	Form loads	The form loads	Cmbndays should be filled with the numbers 1 to 255 days for the user to select as the number of days	The combobox will contain the numbers from 1 to 255
	Ndays is changed But appointment length is not set	The combo box ndays is changed to 3 days	When the ndays combo box changes its value the combo box need to display it and the variable ndays needs to register it	Ndays will be 3 The selected item in the combobox will be 3
	Rad5min is selected and ndays is not set yet	Rad5min is selected	When rad5min is selected the variable appoinmentlength needs to regeister it	Appoinmentlength will equal 5
	Rad10min is selected and ndays is not set yet	Rad10min is selected	When rad10min is selected the variable appoinmentlength needs to regeister it	Appoinmentlength will equal 10
	Rad5min is selected after ndays is set to 3	Rad5min is selected after ndays is set to 3	When rad5min is selected the variable appoinmentlength needs to regeister it and because there is an ndays set it has to make cmbend, cmbstart, and cmbday visible and populated	Appoinmentlength will equal 5 ndays will be 3 and cmbend, cmbstart, and cmbday visible and populated
	Rad10min is selected after ndays is set to 3	Rad10min is selected after ndays is set to 3	When rad10min is selected the variable appoinmentlength needs to regeister it and because there is an ndays set it has to make cmbend, cmbstart, and cmbday visible and populated	Appoinmentlength will equal 10 ndays will be 3 and cmbend, cmbstart, and cmbday visible and populated
	Rad5min is selected then ndays is set to 3	Rad5min is selected then ndays is set to 3	When rad5min is selected the variable appoinmentlength needs to regeister it and then ndays set to 3 so cmbend, cmbstart, and	Appoinmentlength will equal 5 ndays will be 3 and cmbend, cmbstart, and cmbday visible and populated

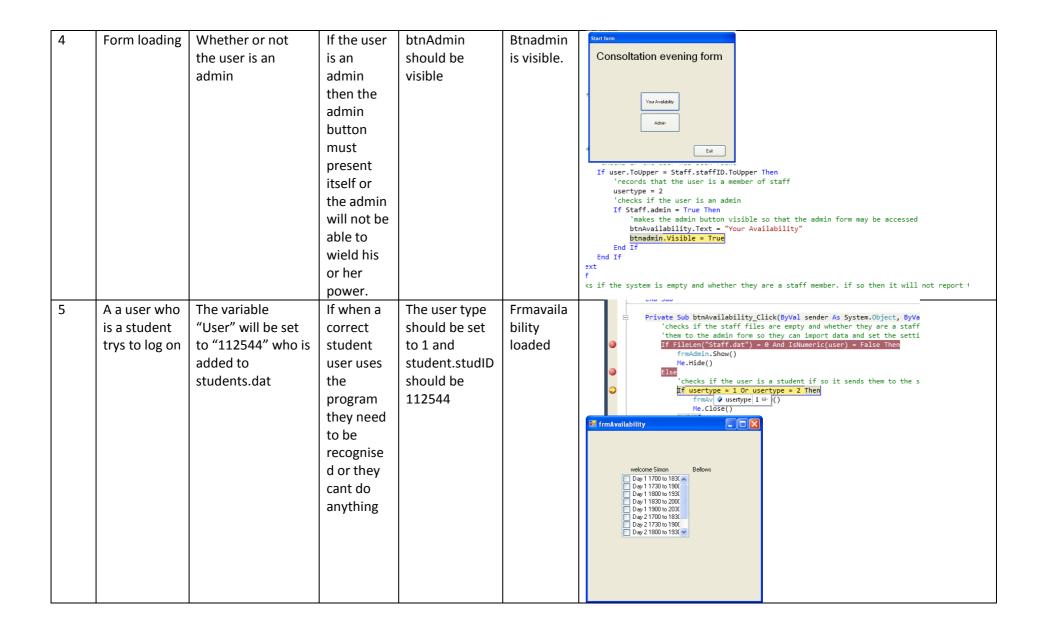
		cmbday visible and populated	
Rad10min is selected	Rad10min is selected	When rad10min is selected the variable	Appoinmentlength will equal 10 ndays will be
then ndays is set to 3	then ndays is set to 3	appoinmentlength needs to regeister it and	3 and cmbend, cmbstart, and cmbday visible
		then ndays set to 3 so cmbend, cmbstart, and	and populated
		cmbday visible and populated	
Rad5min is selected	Rad5min is selected	When appointment length is changed the	Rad5min will be set and ndays will be 3 and
when ndays = 3,	when ndays = 3,	values below may not be relelvent and	cmbend, cmbstart, and cmbday visible and
rad10min is set and	rad10min is set and	theirfore are reset if not they might be values	populated but no values will be selected
cmbend is set to 2400	cmbend is set to 2400	that are imposible	
and cmbstart is set to	and cmbstart is set to		
0000 and cmb day is	0000 and cmb day is		
set to 1	set to 1		
Rad10min is selected	Rad10min is selected	When appointment length is changed the	Rad10min will be set and ndays will be 3 and
when ndays = 3,	when ndays = 3,	values below may not be relelvent and	cmbend, cmbstart, and cmbday visible and
rad5min is set and	rad5min is set and	theirfore are reset if not they might be values	populated but no values will be selected
cmbend is set to 2400	cmbend is set to 2400	that are imposible	
and cmbstart is set to	and cmbstart is set to		
0000 and cmb day is	0000 and cmb day is		
set to 1	set to 1		
ndays is changed from	ndays changed from 3	When the number of days is changed due to	ndays will be set to 4 and cmbend, cmbstart,
3 to 4, rad5min is set	to 4, rad5min is set	the fact that in some situations if the cmb	and cmbday visible and populated but no
and cmbend is set to	and cmbend is set to	boxes were left as is there could be issues it is	values will be selected
2400 and cmbstart is	2400 and cmbstart is	easier to just change them all and the test is	
set to 0000 and cmb	set to 0000 and cmb	to check whether it does	
day is set to 1	day is set to 1		
ndays is changed from	Ndays is changed from	When the number of days is changed due to	ndays will be set to 4 and cmbend, cmbstart,
3 to 4, rad10min is set	3 to 4, rad10min is set	the fact that in some situations if the cmb	and cmbday visible and populated but no
and cmbend is set to	and cmbend is set to	boxes were left as is there could be issues it is	values will be selected
2400 and cmbstart is	2400 and cmbstart is	easier to just change them all and the test is	
set to 0000 and cmb	set to 0000 and cmb	to check whether it does	
day is set to 1	day is set to 1		
Btnback clicked	Btnback clicked	The user must be able to leave the form or	The day settings form will close and the admi
		they will be stuck there until they use	form will open.

	taskmanager to end the form which would	
	likely be inpossible unless the admin of the	
	consultation evening program is that of the	
	school.	

Testing

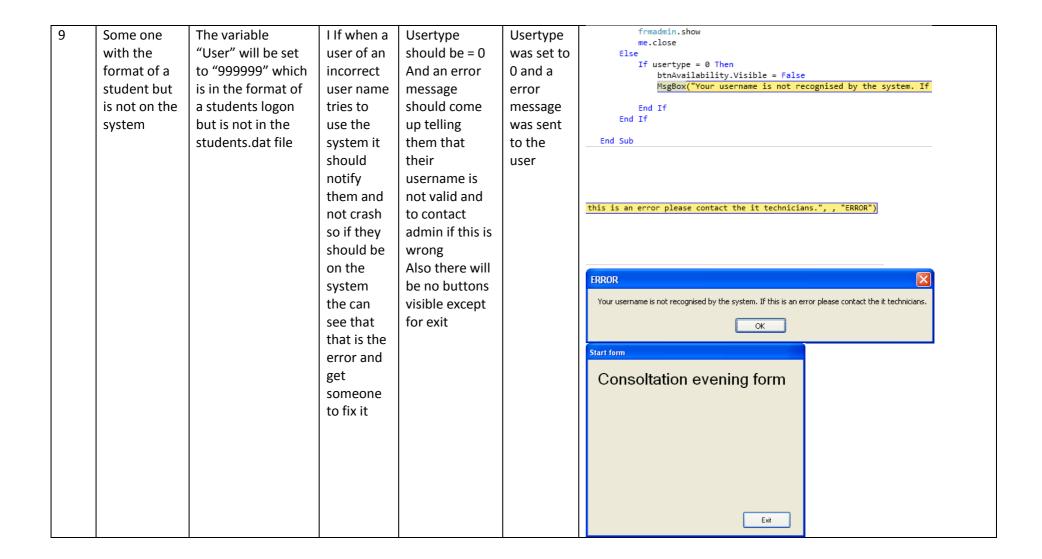
frmS		1	T	Γ	ī	T .
Test	event	Test data	Reason for	Expected	outcome	screenshots
No			test	outcome		
1	Form loads	The users network	If the	The variable	The	Private Sub frmStart_Load(ByVal sender As System.Object, ByVal e As System.Ev 'splits up the user data to seperate out the users username
	and the the	area username in	correct	user will	variable	<pre>Dim parts() As String = Split(My.User.Name, "\") user = parts(1)</pre>
	username is	my case 112544	username	contain my	user was	parts(1) Q → "112544" □
	retrived by		is not	username	set to	'checks if the user is a student or a staff member
	the program		obtained		112544	
			then the		which is	If Len(user) = 6 Then 'user is in the form of a students so the list of students is checked
			system		my	For counter As Integer = 1 To Nstudents
			will not		username	student = GetStudent(counter)
			work		•	, (missistering)
2	Form loads	The dat files	A lot of	The number of	It says	⊟Public Class frmStart
	and the		the for	staff files	there is	☐ Private Sub frmStart Load(ByVal sender As System.Object, ByVal e As Syste 'splits up the user data to seperate out the users username Dim parts() As String = Split(My.User.Name, "\")
	number or		loops in	recorded to be	97 staff	user = parts(1)
	each kind of		the	97 as the file	thus it	Nstaff = FileLen("staff.dat") / Len(Staff) NStaf Ø Nstaff 97 ≔ "staffav.dat") / Len(StaffAv) Nstudents = FileLen("student.dat") / Len(student)
	record is		program	size is 97 times	works	NStudAv = FileLen("studav.dat") / Len(StudAv) NAppointment = FileLen("appointments.dat") / Len(Appointment)
	found		rely on an	the record size		NDay = FileLen("day.dat") / Len(Day) Nlesson = FileLen("lesson.dat") / Len(Lesson)
			accurate	and there is 97		'checks if the user is a student or a staff member If Len(user) = 6 Then
			value for	staff		'user is in the form of a students so the list of students is che For counter is Integer = 1 To Netudents
			the			
			number of			
			each type			
			of record.			
			If it works			
			for staff it			
			will work			
			for the			
			other files			

3	Form loads and the number or each kind of record is found	The dat files exept that the staff dat file will be missing	as they are in the same. If it does not properly handle the situation it could crash the code	The program will continue as if nothing out of the ordinary was happening with nstaff as 0	The program crashed when it got to the line of code that worked out the number	Itsteff = FileLen("staff.dat") / Len(Staff) ISStaffor = FileLen("staff.dat") / Len(Staff) ISStaffor = FileLen("staff.dat") / Len(Staff) ISStaffor = FileLen("staff.dat") / Len(Staff) INDay = FileLen("day.dat") / Len(Ouy) Itleson = FileLen("losson.dat") / Len(Lesson) "checks if the user is a student or a staff if Len(user) = 0 Then "user is in the form of a students sot "for nowhere to "theman = 1 To Manufact" Search for more Help Orlne Search for more Help Orlne
3.b	Form loads and the number or each kind of record is found	The dat files exept that the staff dat file will be missing	If it does not properly handle the situation it could crash the code	The program will continue as if nothing out of the ordinary was happening with nstaff as 0	of records The program set nstaff to 0 and did not crash	Catch Nataffa = 0 End Try Dittaffi 0 == 1 Try Notaffav = FileLen("staffav.dat") / Len(Staffav) Catch Notaffav = 0 End Try Try Natudents = FileLen("student.dat") / Len(student) Catch Students = 0 End Try Instudent = End Try Instudent = End Try Try Notaffav = End Try Try Notaffav = End Try Try Natudent = FileLen("appointments.dat") / Len(Studav) Catch Natudent = FileLen("appointments.dat") / Len(Catch Nappointment = FileLen("appointments.dat") / Len(Catch Nappointment = O End Try Try Now = FileLen("day.dat") / Len(Day) Catch Napson = FileLen("lesson.dat") / Len(Lesson) Catch Nalesson = End Try Try Valesson = FileLen("lesson.dat") / Len(Lesson) Catch Nalesson = O End Try 'checks if the user is a student or a staff member 'deer is a student or a staff member 'user is an the form of a students so the list of



6	A user who is a staff member trys to log on to the availability form	The variable "User" will be set to "RKI" who will be added to staff.dat	If when a correct staff member user uses the program they need to be recognise d or they cant do anything	The user type should be set to 2 and staff.staffid should be RKI And the frm availability should open	Frm availabilit y opened and usertype = 2 and staff.staff id was set to RKI	welcome Robert Kinnersley Day 11700 to 1836 Day 11730 to 1907 Day 11800 to 1937 Day 11800 to 1937 Day 11800 to 2037 Day 11800 to 2037 Day 11800 to 2037 Day 21800 to 1937 To counter as integer = 1 To Nstaff Staff = GetStaff(counter) 'checks if the user has been found If user.ToUpper = Staff.staffID.ToUpper Then 'records that the user is Staff.staffID Q * "RKT" usertype = 2 'checks if the user is an admin If Staff.admin = True Then 'makes the admin button visible so that the admin btnAvailability.Text = "Your Availability" btnadmin.Visible = True End If Exit For
7	A user with the name of an admin tries to log on to the availability form	The variable "User" will be set to "SBE" and the record will be changed to admin	If when a correct staff member user uses the program they need to be recognise d as admin or no one	The admin button should be visible. User type shoud be 2 and staff.staffid = SSB and the availability form should open when	Frm availabilit y opened and usertype = 2 and staff.staff id was set to SBE	End If 'user is not in the form of a student so the list of staff is For counter as integer = 1 To Nstaff Staff = GetStaff(counter) 'checks if the user has been found If user.ToUpper = Staff.staffID.ToUpper Then 'records that the user 's Staff.staffID Q ▼ "SBE" □ usertype = 2 'checks if the user is an admin If Staff.admin = True Then 'makes the admin button visible so that the admin btnAvailability.Text = "Your Availability" btnadmin.Visible = True End If Exit For End If Next

	1	1				
			can edit	the availability		☐ frmAvailability
			the	button is		
			settings	clicked		
						welcome Simon Bellows
						☐ Day 1 1700 to 1830 △ ☐ Day 1 1730 to 1900
						☐ Day 1 1800 to 1930 ☐ Day 1 1830 to 2000 ☐
						☐ Day 1 1900 to 203(
						Day 2 1700 to 1830 Day 2 1730 to 1900
						□ Day 2 1800 to 1930 ✓
8	A user with	The variable	If when a	The admin	Frmadmin	'user is not in the form of a student so the list of staff is
0						For counter as integer = 1 To Nstaff
	the name of	"User" will be set	correct	button should	opened	Staff = GetStaff(counter) 'checks if the user has been found
	an admin	to "SBE" and the	staff	be visible.	and	If user.ToUpper = Staff.staffID.ToUpper Then
	tries to log	record will be	member	User type	usertype	'records that the user Staff.staffID ¬ "SBE" □ usertype = 2
	on to the	changed to admin	user uses	shoud be 2	= 2 and	'checks if the user is an admin
	admin	, and the second	the	and	staff.staff	If Staff.admin = True Then 'makes the admin button visible so that the admin
			program	staff.staffid =	id was set	<pre>ptnAvailability.Text = "Your Availability"</pre>
			' -			btnadmin.Visible = True End If
			they need	SSB and the	to SBE	Exit For
			to be	admin form		End If
			recognise	should open		; ■ frmAdmin
			d as admin	when the		i illiaulilli
			or no one	admin button		
			can edit	is clicked		Send
				15 CIICKEU		Import starr and Day settings appointments as
			the			emails
			settings			generate reset appointments
						<u>apportunerus</u>
						Back

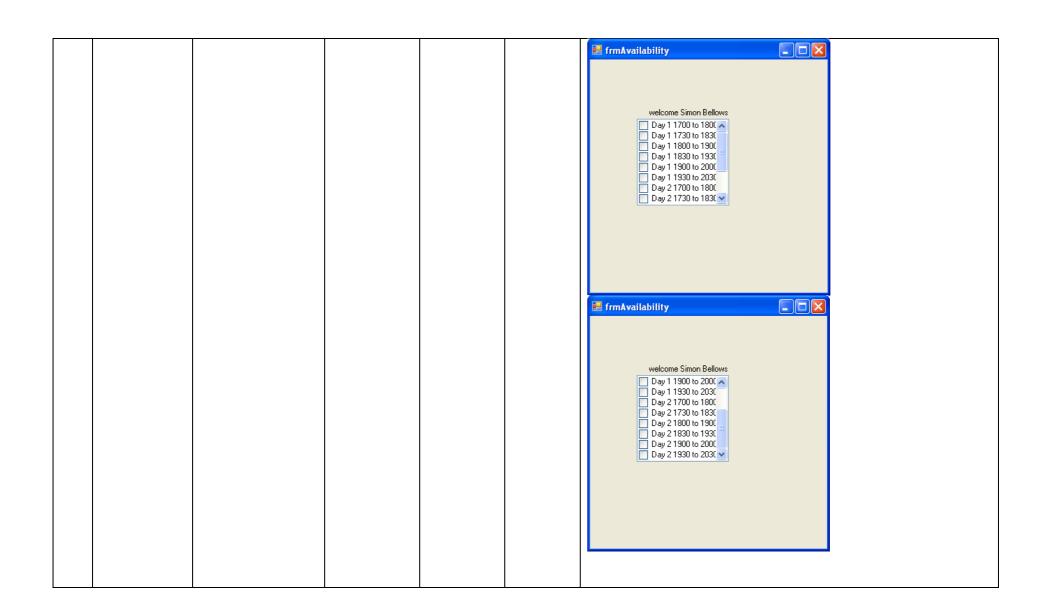


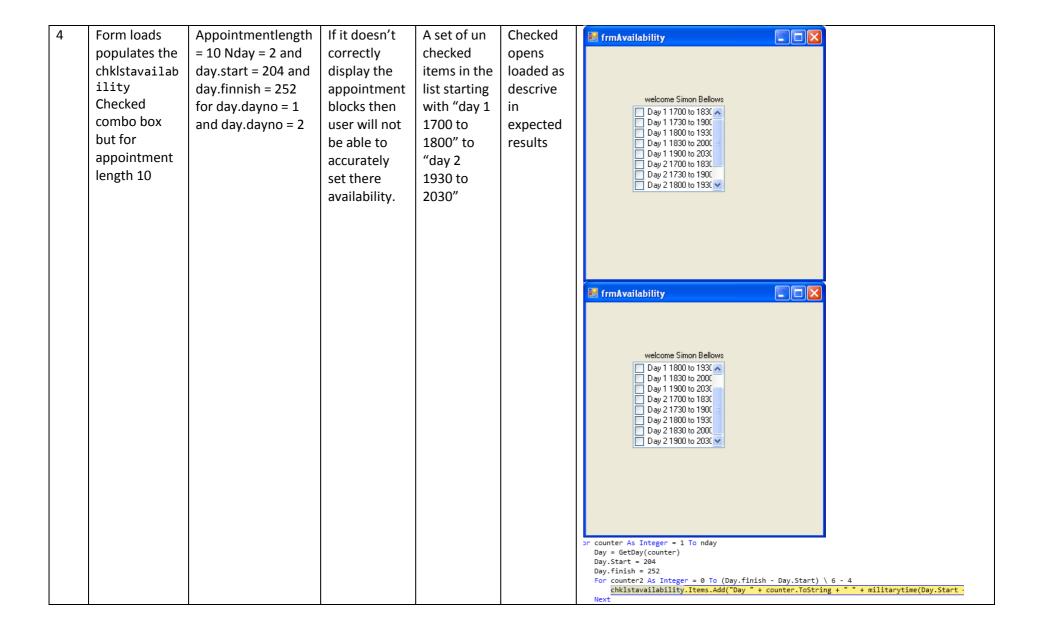
11	Someone who does not have the format of a student but is not on the system and there is a staff file loaded	The variable "user" will be set to "librarycomputer1" which is in the correct format to be checked to be a staff and is not in the staff.dat file	If when a user of an incorrect user name tries to use the system it should notify them and not crash so if they should be on the system the can see that that is the error and get someone to fix it	Usertype should be = 0 And an error message should come up telling them that their username is not valid and to contact admin if this is wrong	Usertype was set to 0 and a error message was sent to the user	frmadmin.show me.close Else If usertype = 0 Then btnAvailability.Visible = False MsgBox("Your username is not recognised by the system. If End If End If End Sub This is an error please contact the it technicians.", , "ERROR") FIROR Your username is not recognised by the system. If this is an error please contact the it technicians. OK Start form Consoltation evening form
	clicked		windows are locked so they	will close	window closed closing	Private Sub btnExit_Click(sender As System.Object, e As System.EventArgs) Handles btnExi 'closes the form Me.Close() End Sub

	will not be	the	
	able to be	progra	n
	closed any		
	other way.		

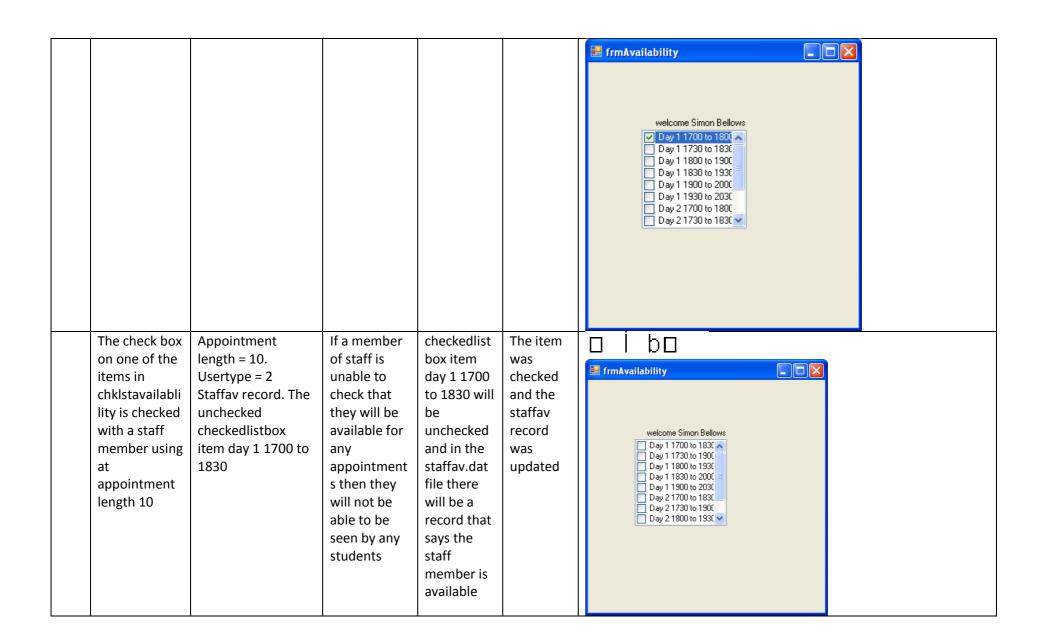
Test	event	Test data	Reason for	Expected	outcome	screenshots
No			test	outcome		
1	Form loading and Iblname displaying a welcome message when a student is using it	I student.forename to simon and student.surname to surname and usertype to 1	If it though if it doesn't work	Lblname will say "welcome simon bellows"	LbIname said "welcome simon bellows"	Private Sub frmAvailability_Load(ByVal sender As System.Object, ByVal e As System.EventArg frmStart.Hide() If usertype = 1 Then bblname.Text = "welcome " + student.Forename.Trim + " " + student.Surname.Trim Elseif usertype = 2 Then bblname.Text = "welcome " + Staff.Forename.Trim + " " + Staff.Surname.Trim End If

2	Form loading and Iblname displaying a welcome message when a staff member is using it	I staff.forename to simon and staff.surname to surname and usertype to 2	If it though if it doesn't work	LbIname will say "welcome simon bellows"	LbIname said "welcome simon bellows	Private Sub frmAvailability_Load(ByVal sender As System.Object, ByVal e As System.Eve frmStart.Hide() If usertype = 1 Then
3	Form loads populates the chklstavailab ility Checked combo box	Appointmentlength = 5 Nday = 2 and day.start = 204 and day.finnish = 246 for day.dayno = 1 and day.dayno = 2	If it doesn't correctly display the appointment blocks then user will not be able to accurately set there availability.	A set of un checked items in the list starting with "day 1 1700 to 1800" to "day 2 1930 to 2030"	Checked opens loaded as descrive in expected results	<pre>If appointmentlength = 5 Then For counter As Integer = 1 To nday Day = GetDay(counter) Day.Start = 204 Day.finish = 246 For counter2 As Integer = 0 To (Day.finish - Day.Start) \ 6 - 2</pre>

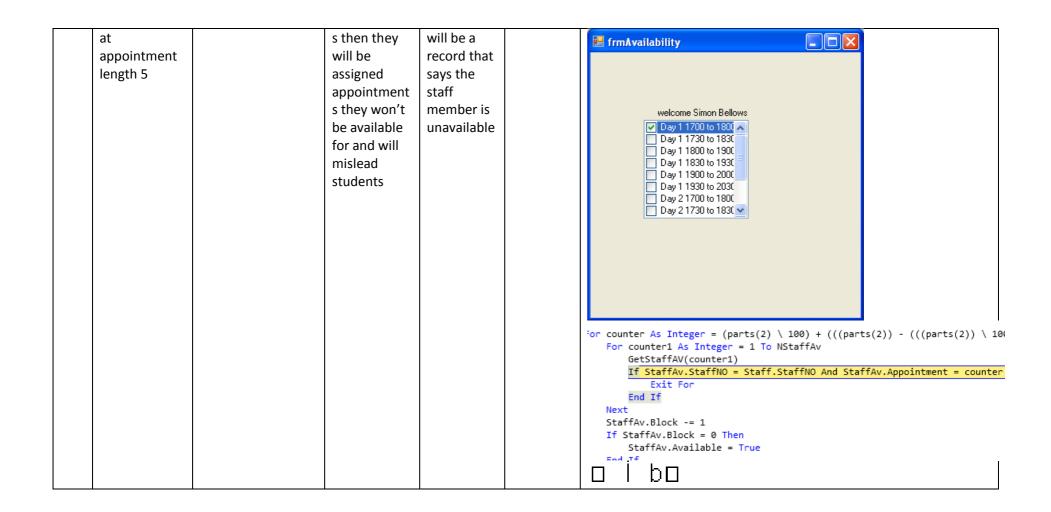


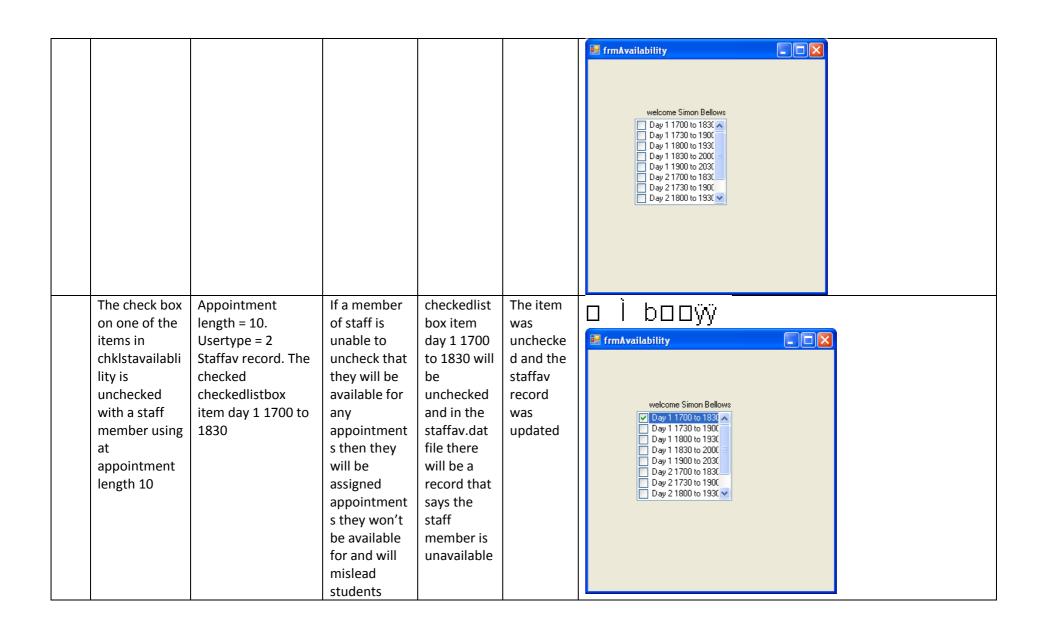


The check box on one of the items in chklstavailabli lity is checked with a staff member using at appointment length 5 If a member of staff is unable to check that they will be appointment length 5	
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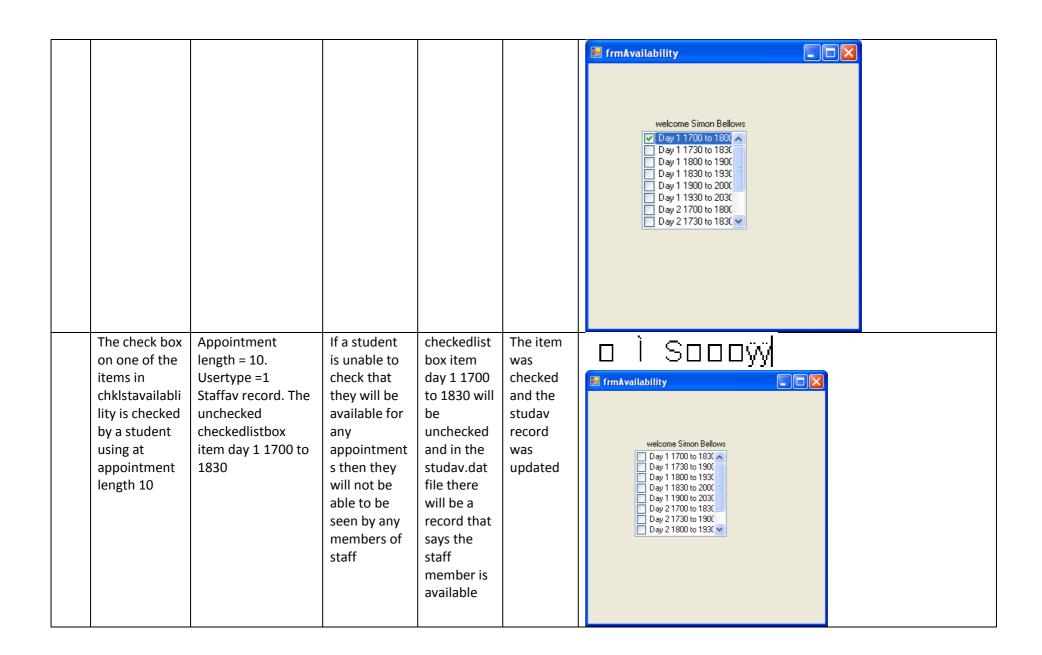
					Else For counter As Integer = (parts(2) \ 100) + (((parts(2)) - (((parts(2)) \ 100) * 100)) / ! For counter1 As Integer = 1 To NStaffAv GetStaffAv(counter1) If StaffAv.StaffN0 = Staff.StaffN0 And StaffAv.Appointment = counter And StaffAv.I Exit For End If Next StaffAv.Available = True StaffAv.Block += 1 PutStaffAv(StaffAv, StaffAv.staffAvNO) Next Day 11700 to 183
The check box on one of the items in chklstavailabli lity is unchecked with a staff member using	Appointment length = 5. Usertype = 2 Staffav record. The checked checkedlistbox item day 1 1700 to 1800	If a member of staff is unable to uncheck that they will be available for any appointment	checkedlist box item day 1 1700 to 1800 will be checked and in the staffav.dat file there	The item was unchecke d and the staffav record was updated	o Ì booÿÿ



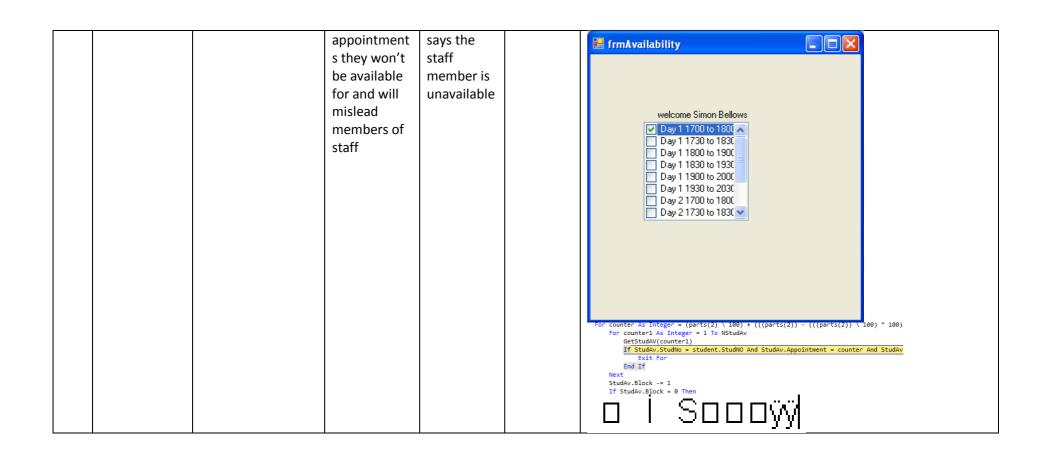


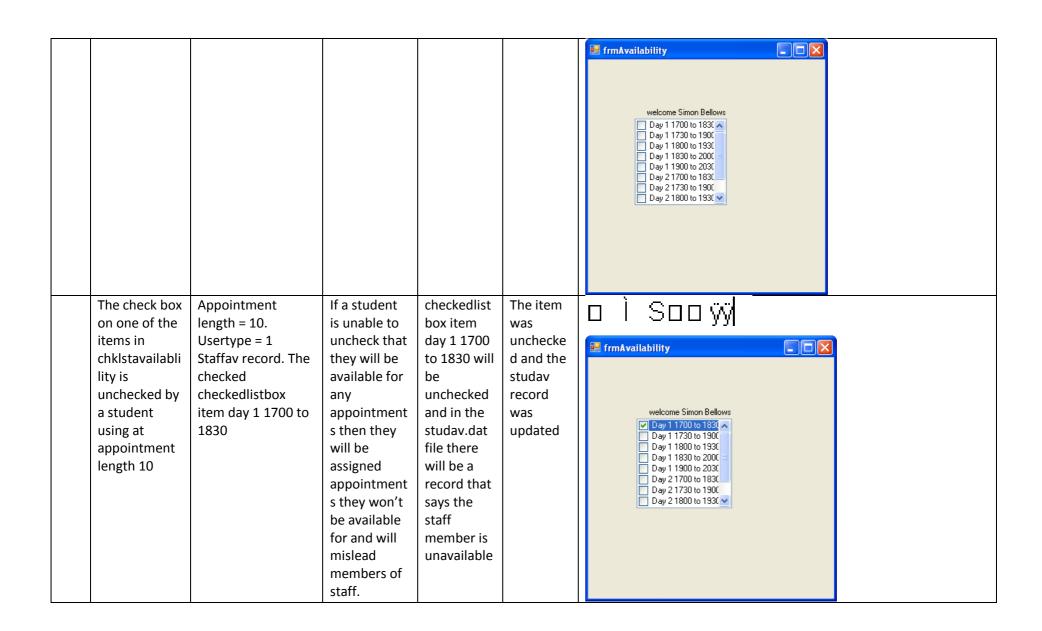
						For counter1 As Integer = 1 To NStaffAv GetStaffAV(counter1) If StaffAv.StaffNO = Staff.StaffNO And StaffAv.Appointment = counter A Exit For End If Next StaffAv.Block = 0 Then StaffAv.Available = True End If If StaffAv.Block = 0 Then St
	The check box	Appointment	If a student	checkedlist	The item	n ì sanasal
it c li b	on one of the tems in chklstavailabli ity is checked by a student using at	length = 5. Usertype =1 Staffav record. The unchecked checkedlistbox item day 1 1700 to	is unable to check that they will be available for any appointment	box item day 1 1700 to 1800 will be checked and in the studav.dat	was checked and the studav record was	oìSoooÿÿ

annaintment	1800	s than thay	file there	undated	
appointment	1800	s then they	file there	updated	!!! frmAvailability □ □ ×
length 5		will not be	will be a		
		able to be	record that		
		seen by any	says the		
		members of	staff		welcome Simon Bellows ☐ Day 1 1700 to 1800 🔨
		staff	member is		Day 1 1730 to 1830
		Starr	available		Day 1 1800 to 1900 Day 1 1830 to 1930
			available		Day 1 1900 to 2000
					☐ Day 1 1930 to 2030 ☐ Day 2 1700 to 1800
					Day 2 1730 to 1830 ✓
					For counter As Integer = (parts(2) \ 100) + (((parts(2)) - (((parts(2)) \ 100) * 100)) / 5)
					For counter1 As Integer = 1 To NStudAv
					<pre>GetStudAV(counter1) If StudAv.StudNo = student.StudNO And StudAv.Appointment = counter And StudAv.DayNO</pre>
					Exit For End If
					Next
					StudAv.available = True StudAv.Block += 1
					2004A-010CK += 1
					ln I Snnööl
					<u> </u>



						For counter As Integer = (parts(2) \ 180) + (((parts(2)) - (((parts(2)) \ 180) * 180)) / 5) To ((parts(2) \ 1) For counter1 As Integer = 1 To NStudAv GetStudAV(counter1) [If StudAv.StudNo = student.StudNo And StudAv.Appointment = counter And StudAv.DayNo = parts(1) Then Exit For End If Next StudAv.available = True StudAv.Block += 1 PutStudAv(StudAv, StudAv.studAvNo) Day 11700 to 183]
on or items chkls lity is unch a stu- using	tavailabli ecked by dent	Appointment length = 5. Usertype =1 Staffav record. The checked checkedlistbox item day 1 1700 to 1800	If a student is unable to uncheck that they will be available for any appointment s then they will be	checkedlist box item day 1 1700 to 1800 will be checked and in the studav.dat file there will be a	The item was unchecke d and the studav record was updated	oìSooÿÿ

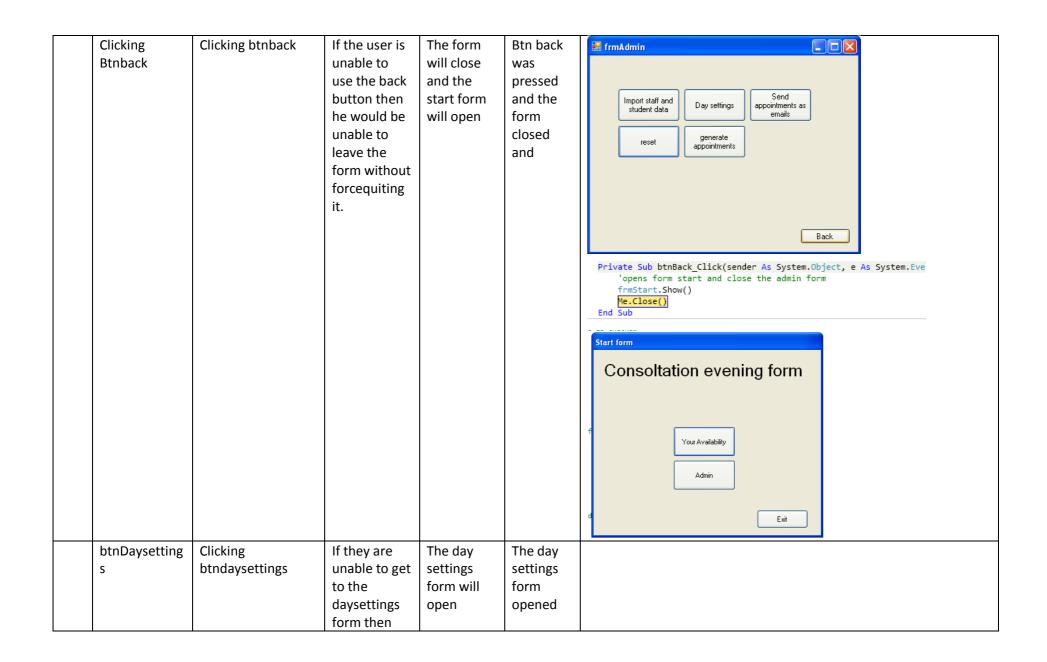


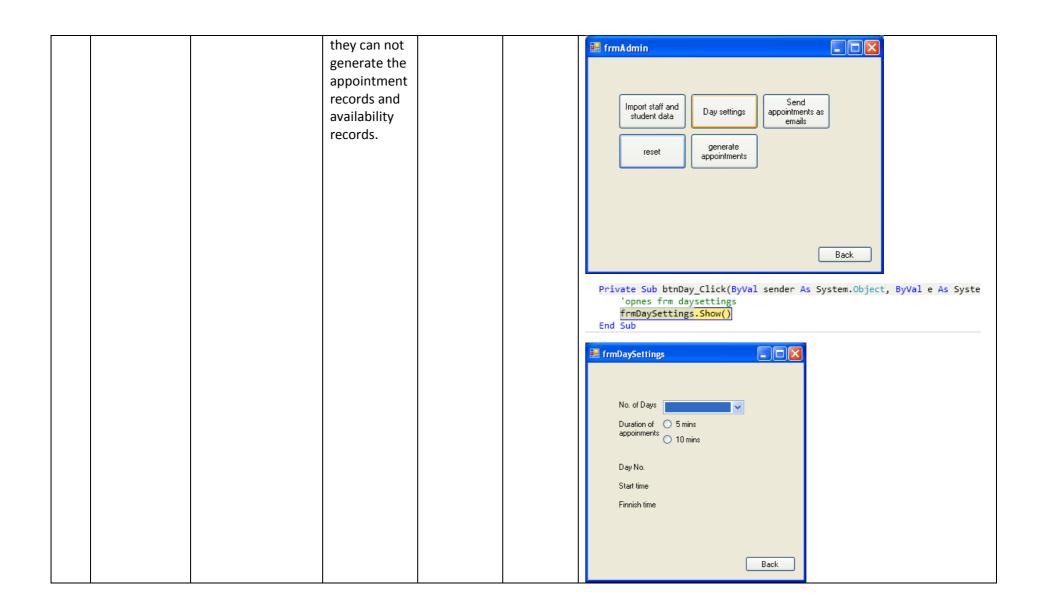


					For counter As Integer = (parts(2) \ 100) + (((parts(2)) - (((parts(2)) \ 100) * 100)) / 5) To ((parts(2) \ For counter! As Integer = 1 To INStudAv GetStudAv(counter!) Extr For Extr For Extr For StudAv. StudNo = student. StudNo And StudAv. Appointment = counter And StudAv. DayNo = parts(1) Then Extr For StudAv. Application = 1 If StudAv. Application = True Welcome Simon Bellows Day 1 1700 to 183(\ Day 1 1730 to 1900 \ Day 1 1830 to 2000 \ Day 1 1830 to 2000 \ Day 1 1830 to 2000 \ Day 2 1730 to 1900 \ Day 2 1730 to 1900 Day 2 1730 to 1930 Day 2 1730 to 1930 Day 2 1800 to 1930
Btnexit clicked	btnExit being clicked	Because if button exit does not work then the user wont be able to exit the program with out	Frmavailabi lity will close and the start form will open.	Frmavaila bility closed and frmstart opend again	Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As S frmStart.Show() Me.Close() End Sub End Class

frm A	Admin		forcequiting it.			
Test No		Test data	Reason for test	Expected outcome	outcome	screenshots
	btnReset	Clicking button reset	Between parents evenings the admin may want to cleanse the system and start anew	The file lengths for the different dat files wil be changed back to 0	The files had there size changed to 0 meaning they were reset	Appointments DAT File 1 KB Appointments DAT File 1 KB



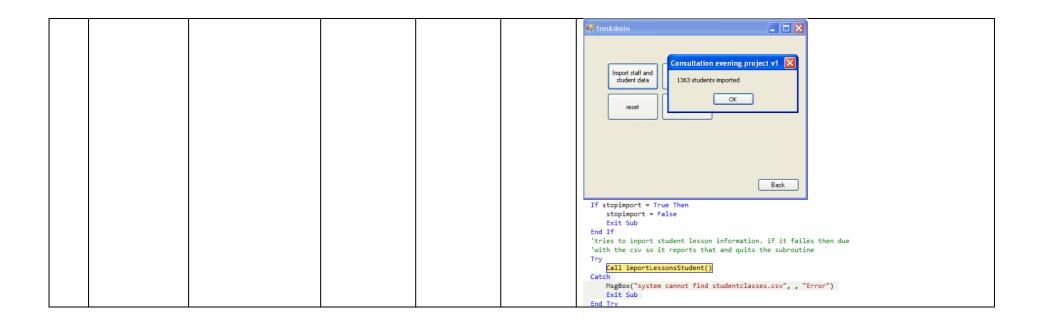


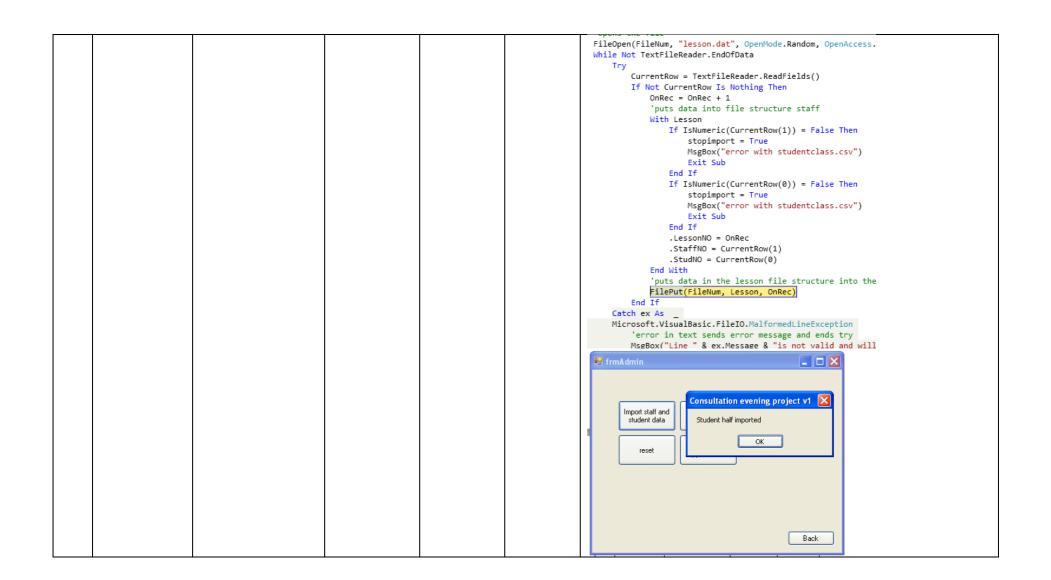


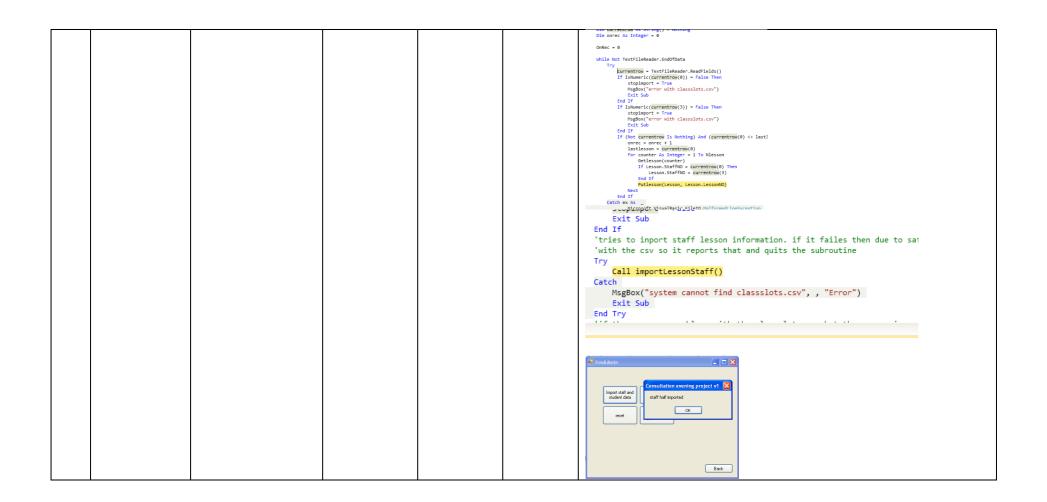
Clicking on the If the import Import staff I will get a I recived 🔢 frmAdmin and student import classSlots, does not series of message data button is studetnclass, staff work then boxes message clicked and student file. there will be boxes after each With them all none of the notifying import Send Import staff and existing and none basic data me that was Day settings appointments as student data of the data in the that the different complete emails wrong format whole parts have and the system feeds imported dat files generate reset appointments off so none and there wer all of it will will be populated work. at the end populated dat files by the names of student staff and lesson. Back ClassSlots Microsoft Excel Comma Separ... 20 KB Appointments DAT File 0 KB Consultation evening project v1 Consultation evening project v1 Consultation evening project v1 XML Document Consultation evening project Consultation evening project v1.vshost.exe.manifest MANIFEST File Tutor Microsoft Excel Comma Separ... 3 KB

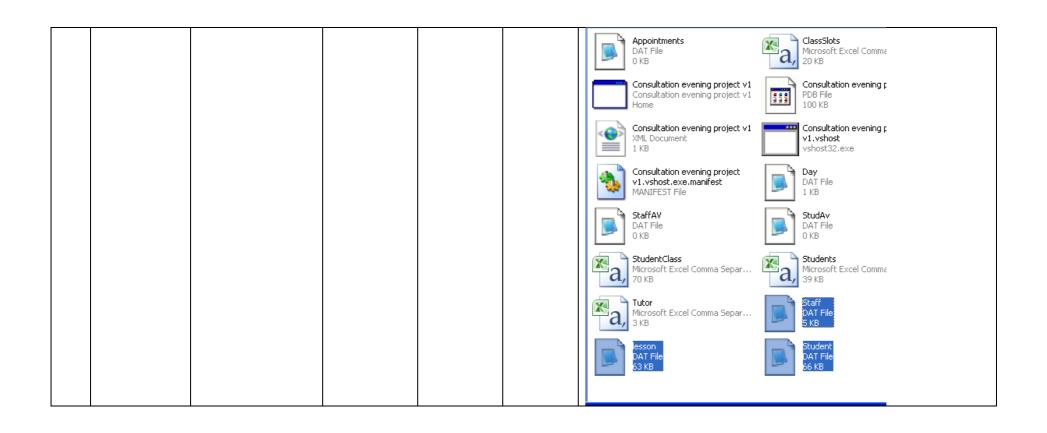
IVace sab benimpore_errek(senaer As system.objece, e As system.e 'tries to inport staff. if it failes then due to safeguards in 'with the csv so it reports that and quits the subroutine Try Call ImportStaff() Catch MsgBox("system cannot find staff.csv", , "Error") Exit Sub End Try 'if there was no problems with the staff csv but there were is CurrentRow = TextFileReader.ReadFields() If Not CurrentRow Is Nothing Then OnRec = OnRec + 1 'puts data into file structure staff With Staff If IsNumeric(CurrentRow(0)) = False Then stopimport = True MsgBox("error with staff.csv") Exit Sub End If If Len(CurrentRow(2)) <> 3 Then stopimport = True MsgBox("error with staff.csv") Exit Sub End If .StaffNO = CurrentRow(0) 'forename and surname are saved in the same field on t parts = Split(CurrentRow(1), " ") .Surname = parts(1) .Forename = parts(0) .staffID = CurrentRow(2) If CurrentRow(3) = 0 Then .admin = False Else : .admin = True End If End With 'puts data in file structure staff into the staff dat file FilePut(FileNum, Staff, OnRec) End If Import staff and student data 98 Staff imported Back

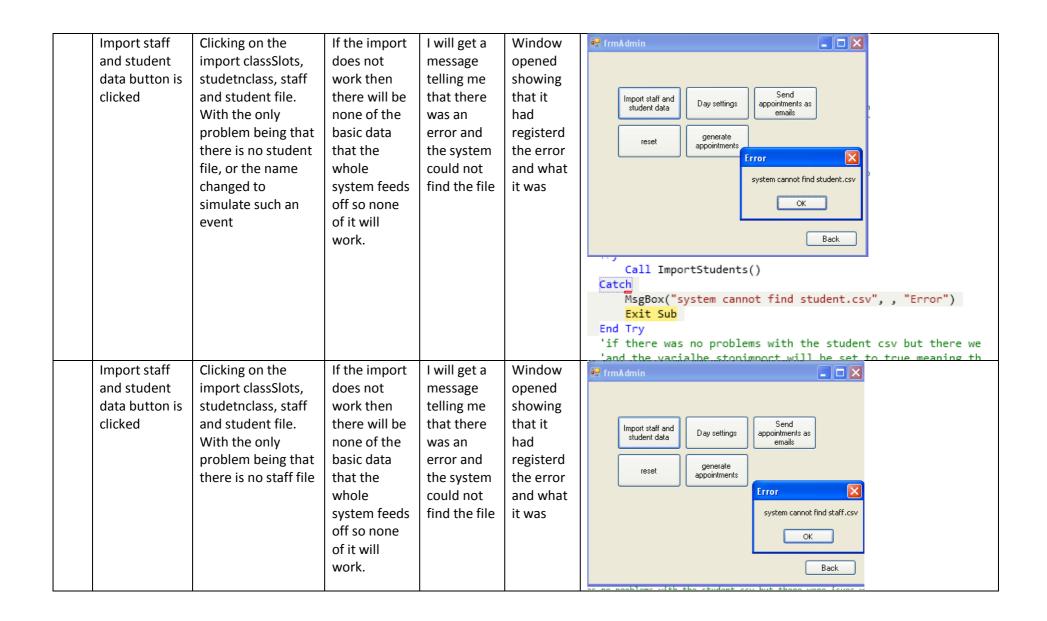
```
End Try
    'if there was no problems with the staff csv but there wer
    'and the variable stopimport will be set to true meaning 1
    If stopimport = True Then
        stopimport = False
        Exit Sub
    End If
    'tries to inport students. if it failes then due to safegu
    'with the csv so it reports that and quits the subroutine
        Call ImportStudents()
    Catch
        MsgBox("system cannot find student.csv", , "Error")
        Exit Sub
End Try
LurrentRow = TextFileReader.ReadFields()
If Not CurrentRow Is Nothing Then
   OnRec = OnRec + 1
    'puts data into the studet structure
   With student
       If IsNumeric(CurrentRow(0)) = False Then
            stopimport = True
            MsgBox("error with student.csv")
            Exit Sub
        End If
       If IsNumeric(CurrentRow(1)) = False Then
            stopimport = True
            MsgBox("error with student.csv")
            Exit Sub
        End If
       If IsNumeric(CurrentRow(4)) = False Then
            stopimport = True
            MsgBox("error with student.csv")
            Exit Sub
        End If
        .StudNO = CurrentRow(0)
        .StudID = CurrentRow(1)
        .Surname = CurrentRow(2)
        .Forename = CurrentRow(3)
        .Year = CurrentRow(4)
    'puts data from the student structure into the stud
    FilePut(FileNum, student, OnRec)
End If
n ex As
```

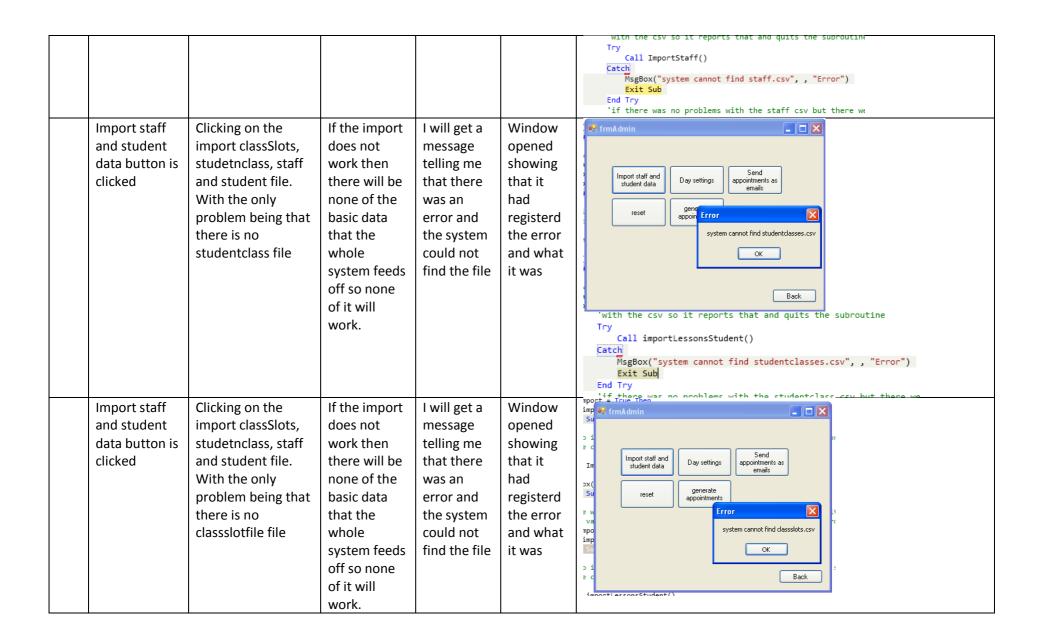












Call importLessonStaff() Catch MsgBox("system cannot find classslots.csv", , " Exit Sub End Try 'if there was no problems with the classilots cay be Import staff Clicking on the If the import For all The use 🖳 frmAdmin and student import classSlots, does not erros of non studetnclass, staff data button is work then picked up I numeric clicked and student file. there will be will get a data for Send Import staff and This is a meta test. none of the studno message Day settings appointments as student data and year emails it will first be that basic data telling me there is a non that the that there caused an generate reset whole numeric characters was an error Consultation evening project v1 in the studNO system feeds error with which ("five") field in the off so none the was error with student.csv of it will pickedup. csv. next forename student.csv Using too file. I surname or studid work. OK are longer than the expect the long a field(a 30 character program to string Back string of 30 lots of find errors caused . For ename - currentkow(5) "a"). And lastly that with values trunkatio .Year = CurrentRow(4) Catch year is a non that are n using this is trigered if there was a problem with inputing to th numeric too large too large 'it stops the importing and telles the suer what has happene stopimport = True value("two") and and letters or too MsgBox("error with student.csv") then that year then small a put into Exit Sub End Try studno are too numeric number large or too varialbes for nd With 'if there was no problems with the student csv bu small(10000000000 and I studno or 'and the variable stopimport will be set to true 00 and reckon that year If stopimport = True Then 1000000000000). it will again stopimport = False Exit Sub truncate caused an End If strigns that error that 'tries to inport student lesson information. if i are too was

Import staff and student data button is clicked Import classSlots, staff and student file. This is a meta test, it will first be that there is a non numeric characters ("one") in the staffNO field in the csv, next forename surmame or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(ttoo large will be 1000000000000 and too small will be 100000000000000000000000000000000000	I		I	1.		
Import staff and student data button is clicked Import dassSlots, staff and student file. This is a met test, it will first be that there is a non numeric characters ("one") in the csv, next forename surname or staffid are longer than the field (30 a's). And lastly that staffino is a value too large or too small (too large will be 100000000000 and too small will be 1000000000000 and too small will be 1000000000000 and too small will be 10000000000000 and too small will be 10000000000000 and too small will be 10000000000000 and too small will be 100000000000000000000000000000000000				long		
and student data button is clicked import classSlots, studentclass, staff and student file. This is a meta test, it will first be that there is a non numeric characters ("one") in the staffNO field in the csv, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 100000000000000 and too small will be - 1000000000000000 and too small will be - 1000000000000000 and too small will be - 100000000000000000000000000000000000					· ·	
and student data button is clicked It will first be that there is a non numeric characters ("one") in the staffNO field in the csy, next forename surname or staffid are longer than the field(30 a*5). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be- 10000000000000 and too small will be- 100000000000000 and too small will be- 1000000000000000 and too small will be- 1000000000000000000000000000000000000	•	_	•	For all		Y
dicked and student file. This is a meta test, it will first be that there is a non numeric characters ("one") in the staffNO field in the csy, next forename surname or staffid are longer than the field(30 ar's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 100000000000000 100000000000000 1000000		· •			of non	
This is a meta test, it will first be that there is a non numeric characters ("one") in the staffNO field in the csv, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 100000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and too small will be - 100000000000000000000000000000000000	data button is	· ·		•		
This is a meta test, it will first be that there is a non numeric characters ("one") in the staffNO field in the csy, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 100000000000000000000000000000000000	clicked			will get a		Send
the time is a non numeric characters ("one") in the staffNO field in the csy, next forename surname or staffid are longer than the field(30 ar's). And lastly that staffno is a value too large or too small(too large will be 100000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and too small will be - 100000000000000000000000000000000000		This is a meta test,	none of the	_	staffno	mport start and Day settings appointments as
numeric characters ("one") in the staffNO field in the csv, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 10000000000000 and too small will be - 100000000000000 and too small will be - 100000000000000000000000000000000000		it will first be that		telling me	caused an	
numeric characters ("one") in the staffNO field in the csv, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 long and longer too large or too large too large too large too large too large or too large l		there is a non		that there		roost gen
("One") in the staffNO field in the csv, next forename surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and lastly that are too large or too large or too small will be - 10000000000000 and letters put into numeric variables staffno and I reckon that it will truncate strings that are too long and loos made with values too large or too and letters was staffno and I reckon that it will truncate strings that are too long and loos made with values too large or too and letters was loos with values too large or too and letters was staffno and I reckon that it will truncate strings that are too long and loos mall will be - 100000000000000000000000000000000000		numeric characters	whole		which	
csv, next forename surname or staffid are longer than the field (30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 1000000000000		("one") in the	system feeds	error with	was	Citor with statistics
surname or staffid are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 100000000000 and too small will be - 1000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and too small will be - 10000000000000 and letters of staffin and l again reckon that it will truncate strigns that are too long and long was a problem with input in the staff of the staff of the was a problem with input in the staff of the staff of the staff of the was no problems with the staff csv but there are too long a expect the string caused frunkatio n, using too large or too small a number for staffin again reckon that it will truncate strigns that are too long and letters of trunkatio n, using too large or too large or too small and letters staffin again reckon that it will truncate strigns that are too long are expect the string too long a expect the string caused in trunkatio n, using too large or too and letters small a number for staffin again reckon that it will truncate strigns that are too long are expect the string too long are expect the string too long are expect the string too large or too and letters small a number for staffin again reckon that it will truncate was staffin again caused an error that was staffin again caused an error that was staffin again caused an error that truncate was picked up. If unemtRow(2) If (unrentRow(2) If (unrentRow(2) If (urrentRow(2)		staffNO field in the	off so none	the	picked	
are longer than the field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be - 10000000000000 and lorex varialbes and it will truncate strigns that are too long 10000000000000 10000000000000000000		csv, next forename	of it will		up. Using	ОК
field(30 a's). And lastly that staffno is a value too large or too small(too large will be 1000000000000 and letters and too small will be- 10000000000000 and letters and I or too small will be- 10000000000000 varialbes and I or too small will be- too large virinto numeric varialbes and I or truncate strigns that are too long field(30 a's). And lastly that staffno is a value too large or trunkatio n, using troo large or too small (acurrentRow(2) If CurrentRow(2) If CurrentRow(2) If CurrentRow(3) = 0 Then admin = False Else : .admin = True End If Catch This is trigered if there was a problem with inputi "it stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub End Try I with its data in file structure staff into the staff dat file insput(File) with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True Then stopimport = True Then stopimport = True True Then stopimport = True True True 'if there was no problems with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True True 'if there was no problems with the staff csv but there 'and the variable stopimport = True True 'if there was no problems with the staff csv but there 'and the variable stopimport = True Then stopimport = False Exit Sub End If		surname or staffid	work.	file. I	too long a	=
lastly that staffno is a value too large or too small(too large will be 1000000000000 and too small will be 1000000000000 and too small will be 1000000000000 and too small will be 10000000000000 and too small will be 100000000000000 and too small will be 10000000000000000 and too small will be 100000000000000 and too small will be 100000000000000 and too small will be 1000000000000000000 and too small will be 1000000000000000000 and too small will be 10000000000000000000 and too small will be 1000000000000000000000000000000000000		are longer than the		expect the	string	Back
a value too large or too small(too large will be 10000000000000 and too small will be - 10000000000000 1000000000000 and it osmall will be - 100000000000000 varialbes and I reckon that it will reckon that truncate strigns that are too long long with values n, using too large too large or too small a number for staffine admin = False Else : .admin = True End If (atch) This is trigered if there was a problem with inputing it is stop the importing and telles the suer what has stopimport = True MagBox("error with staff.csv") Exit Sub End Try if there was no problems with the staff dat file "aput into number is truncate is tright in the staff of nor is the staff of nor is the staff of nor in the staff of nor is the staff of nor in the staff or in the staff of nor in the staff of nor in the staff or in the staff or staff nor in the staff or in the staff or in the staff or staff nor in the staff or i		I			caused	
a value too large or too small(too large will be 100000000000000 and letters and too small will be - 1000000000000 and letters and l		l		find errors	trunkatio	
will be 100000000000 and too small will be - 1000000000000 varialbes and I reckon that truncate strigns that are too long will be too large or too small a number numeric varialbes staffno and I again reckon that truncate was strigns that are too long will be 1000000000000 and letters small a number for staffno and I again reckon that truncate was stopimport = True Msg8ox("error with staff.csv") with with its data in file structure staff into the staff dat file leput(Filephum Staff OnBer) 'if there was no problems with the staff csv but there 'and the varialbe stopimport will be set to true meani If stopimport = True Then stopimport = False xit Sub					n, using	
too large or too and letters small a put into number numeric for varialbes staffno and I again reckon that truncate strigns that are too long too large or too small a put into number number number number numeric for varialbes staffno and I again reckon that truncate was strigns that are too long too large or too small a put into number number number number number number number for varialbes staffno again reckon that truncate was stopimport = True Msgbox("error with staff.csv") with the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") with the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") with the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") With the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") With the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") With the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") With the find If Catch This is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True Msgbox("error with staff.csv") With the find If Catch This is trigered if there was a problem with inpution in the staff cash in the staff				that are	too large	` '
and too small will be - 100000000000 put into number for varialbes and I reckon that it will truncate strigns that are too long put into number for varialbes staffno again reckon that it will truncate strigns that are too long put into number for varialbes staffno again reckon that it will truncate strigns that are too long put into number for varialbes staffno again caused an it will truncate strigns that are too long put into number for this is trigered if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub End Try i with its data in file structure staff into the staff dat file 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True Then stopimport = True 'if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'I stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub if there was a problem with inputii 'it stops the importing and telles the suer what has stopimport = True MsgBox("error with staff.csv") Exit Sub if there was no problems with the staff csv but there 'and the varialbe stopimport = True Staff one 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'if there was no problems with the staff csv but there 'and the varialbe stopimport = True 'if there was no problems with the				too large	or too	
and too small will be - 100000000000 varialbes and I reckon that it will truncate strigns that are too long put into number for staffno again reckon that it will truncate strigns that are too long put into number for staffno again reckon that it will error that truncate strigns that are too long put into number for staffno again reckon that it will error that truncate strigns that are too long put into number for staffno again reckon that it will error that truncate strigns that are too long put into number for staffno again reckon that it will error that truncate strigns that are too long put into number for staffno again reckon that it will error that truncate strigns that are too long staffno again reckon that it will error that truncate strigns that are too long staffno again reckon that it with stadata in file structure staff into the staff dat file leput(File)lum Staff OnBer\ 'if there was no problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub if there was a problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub if there was no problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub if there was a problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub if there was no problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub if there was no problem with inputi 'it stops the importing and telles the suer what has stopimport = True Msg8ox("error with staff.csv") Exit Sub End If		1000000000000		and letters	small a	
varialbes and I again reckon that it will error that truncate strigns that are too long stopimp varialbes staffno again reckon that it will error that truncate strigns that are too long stopimport = True MsgBox("error with staff.csv") stopimport = True MsgBox("error with staff.csv") End Try i with its data in file structure staff into the staff dat file structure staff into the staff cover but there and the varialbe stopimport will be set to true meani if stopimport = True Then stopimport = False Exit Sub End Try if there was no problems with the staff csv but there and the varialbe stopimport will be set to true meani if stopimport = True Then stopimport = False Exit Sub End Try if there was no problems with the staff csv but there are too in the staff cover in the staff		and too small will		put into	number	
and I again reckon that it will error that truncate strigns that are too long long Staffill again reckon that it will error that truncate strigns that are too long Staffill again reckon that truncate was picked up. MsgBox("error with staff.csv") Exit Sub End Try i with the staff dat file Imput.(File) lum Staff (InRec) 'if there was no problems with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True Then Stopimport = False Exit Sub End If				numeric		
and I reckon that it will error that truncate strigns that are too long long and I reckon that caused an it will error that truncate was picked up. Exit Sub End Try i with its data in file structure staff into the staff dat file leput(File)Usin Staff OnRec \(\) 'if there was no problems with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True Then stopimport = False Exit Sub End If		1000000000000			staffno	
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it will truncate strigns that are too long it will truncate strigns that are too long it will truncate was strigns that are too long it will truncate was picked up. its data in file structure staff into the staff dat file 'lePut(File)Num Staff OnRec) 'if there was no problems with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True Then stopimport = False Exit Sub End If				reckon that	caused an	
strigns that are too long 'if there was no problems with the staff csv but there 'and the variable stopimport will be set to true meani If stopimport = True Then stopimport = False Exit Sub End If				it will	error that	its data in file structure staff into the staff dat file
strigns that are too up. long strigns that are too up. long stopimport = True Then stopimport = False exit Sub End If				truncate	was	*
are too up. If stopimport = True Then stopimport = False Exit Sub End If				strigns that	picked	·
Exit Sub End If				are too	up.	If stopimport = True Then
End If				long		
						'tries to inport students. if it failes then due to sa

Import staff Clicking on the If the import I will get a For both 🖳 frmAdmin import classSlots, message the non and student does not studetnclass, staff telling me data button is work then numeric clicked and student file. there will be that there tests and Send Import staff and This is a meta test. none of the was an the values Day settings appointments as student data emails it will first test that basic data error with that were Consultation evening project v1 the value being put that the the too large gene reset appoin staff.csv into studNO then whole and the error with studentclass.csv staffNO is non system feeds file. This values numeric ("six") off so none will occure that were OK then they well have of it will for each too small values putin that work. error it was are too large and picked up pickd up Back too small that would and the (1000000000000 .LessonNO = OnRec cause the program .StaffNO = CurrentRow(1) and program to stopped .StudNO = CurrentRow(0) Catch 1000000000000) crash. It and the is is trigered if there was a problem with inputi will pick up error it stops the importing and telles the suer what has stopimport = True on all of message MsgBox("error with studentclass.csv") the Exit Sub was sent End Try proposed Ento ing tests 'if there was no problems with the studentclass 'and the variable stopimport will be set to true If stopimport = True Then stopimport = False Exit Sub End If

Import staff Clicking on the If the import I will get a For both ☐ frmAdmin import classSlots, message the non and student does not studetnclass, staff telling me data button is work then numeric Send clicked and student file. there will be that there tests and Import staff and appointments as Day settings student data This is a meta test. none of the was an the values Consultation evening project v1 it will first test will basic data error with that were reset appoint be that the value that the the too large error with classslots.csv whole put into lastlesson classslots.c and the system feeds will be nonnumeric sv file. This values OK ("seven") and the will occure off so none that were same will be done of it will for each too small Back for the value put work. error it was into staffno. Then picked up pickd up If Lesson.StaffNO = currentrow(0) Then for each of them I that would and the Lesson.StaffNO = currentrow(3) End If will test values that cause the program Catch is is trigered if there was a probl are too program to stopped It stops the importing and telles the large(10000000000 crash. It and the stopimport = True 000000) and values will pick up error MsgBox("error with classslots.csv") Exit Sub that are too small on all of message End Try (10000000000000) the was sent Putlesson(Lesson, Lesson.LessonNO) proposed 'if there was no problems with the classslot tests 'and the variable stopimport will be set to If stopimport = True Then stopimport = False Exit Sub End If

Btnalgorithm	Btnalgorithm	If the button	I it will hit a	The	
clicked	clicked	does not	breakpoint	sorting	₽ frmAdmin
ononed	Cirched	start the	I will stick	algortith	
		algorithm	inside the	m was	
		then no	subroutine	called	Import staff and Send
		appointment			student data Day settings appointments as emails
		s will be			
		created and			reset generate appointments
		the program			
		will be			
		impetant			
					Back
					☐ Private Sub btnalgorithm_Click(ByVal sender As
					'calls the sorting algoritthm which is sto
					Call TheSortingAlogorithm() End Sub
					End Class
The sorting	The student and	If it works for	The	The	Public Sub TheSortingAlogorithm()
algorithm I	staff availability	small	algorthim	algorithm	Dim OnAppointment As Integer = 0
run	files with 10	numbers it	will	genearte	Dim lowerbound As Integer = 0
	students and 4	will work the	generate a	d	'for loop goes through every student For counter1 As Integer = 0 To Nstudents
	staff as a small	same or	appoinmen	appoinme	'gets studnet information
	scale experitment.	large	ts for all	nts for	<pre>student = GetStudent(counter1) 'finds all the lessons with the student an</pre>
	There is no	numbers,	the	eveyr one	For counter2 As Integer = 0 To Nlesson Lesson = Getlesson(counter2)
	unviable data that	though there	students in	and	If Lesson.StudNO = student.StudNO Then
	could be used due	will be an	the system	follows	
	to the fact it has all	increase in		the code	
	been vetted to get	people		as I had	
	to this point.	without		expected.	
	Appointment	appointment			
	length 5	s unless the			

	ala an af	TOI COUNTERLY AS THEEBER - W TO MSCUURICS
r	number of	'gets studnet information
a	ppointment	student = GetStudent(counter1)
	is	'finds all the lessons with the student and r
		For counter2 As Integer = 0 To Nlesson
	ncreased.	Lesson = Getlesson(counter2)
		If Lesson.StudNO = student.StudNO Then
		<pre>Staff = GetStaff(counter2)</pre>
		'for each students availablity it loc
		'finds all the lessons with the student and retives
		For counter2 As Integer = 0 To Nlesson
		Lesson = Getlesson(counter2)
		<pre>If Lesson.StudNO = student.StudNO Then</pre>
		Staff = GetStaff(counter2)
		'for each students availablity it looks for
		For counter3 As Integer = 0 To NStudAv
		StudAv = GetStudAV(counter3)
		<pre>If StudAv.StudNo = student.StudNO And St</pre>
		Lesson = Getlesson(counter2)
		If Lesson.StudNO = student.StudNO Then
		Staff = GetStaff(counter2)
		'for each students availablity it looks for aval
		For counter3 As Integer = 0 To NStudAv
		StudAv = GetStudAV(counter3)
		<pre>If StudAv.StudNo = student.StudNO And StudAv</pre>
		For counter4 As Integer = 0 To NStaffAv
		StaffAv = GetStaffAV(counter4)
		itali = detStali(counterz)
		for each students availablity it looks for available spots
		for counter3 As Integer = 0 To NStudAv
		StudAv = GetStudAV(counter3) If StudAv.StudNo = student.StudNO And StudAv.available
		For counter4 As Integer = 0 To NStaffAv
		StaffAv = GetStaffAV(counter4)
		If StaffAv.StaffNO = Staff.StaffNO And StaffAv.
		'an appointment slot has been found for wh:
		'the record for the appointment is populate
		a i i i i i i i i i i i populati

StaffAv = GetStaffAV(counter4)
If StaffAv.StaffNO = Staff.StaffNO And StaffAv.Available = True
'an appointment slot has been found for which both the stud
'the record for the appointment is populated
Appointment.AppointmentNO = OnAppointment
Appointment.studNO = StudAv.StudNo
Appointment.StaffNO = StaffAv.StaffNO
Appointment.day = StudAv.DayNO
Appointment.StaffNO = StudAv.Appointment
Putappointment(Appointment, Appointment.AppointmentNO) 'handels block values for the student so as to make sure the
I handala black and Apprintment StaffNO 0 d
'handels block va Appointment.StaffNO 0 is to r
If Appointmentlength = 5 Then
For counter5 As Integer = 0 To NStudAv
studav2 = GetStudAV(counter5)
'checks if teh block value of the currer
'not in the same block and it needs to !
<pre>If StudAv.Block = 21 And studav2.Block :</pre>
studav2.Block = 0
studav2.available = False
PutStudAv(studav2, studav2.studAVNO)
'checks if teh block value of the cu
'not in the same block and it needs
FlseIf StudAv.Block = 20 And studav2.Blo
studav2.Block = 0
studav2.available = False
PutStudAv(studav2, studav2.studAVNO)
End If
FIGU

The sorting algorithm I run	The student and staff availability files with 10 students and 4 staff as a small scale experitment. There is no unviable data that could be used due to the fact it has all been vetted to get to this point. Appointment length 10	If it works for small numbers it will work the same or large numbers, though there will be an increase in people without appointment s unless the number of appointment s is increased.	The algorthim will generate a appoinmen ts for all the students in the system	The algorithm genearte d appoinme nts for eveyr one and follows the code as I had expected.	If Appointmentlength = 5 Then 'works out the first appointment of the half hour lowerbound = (studav2.Appointment \ 6) * 6 'checks if the studav is not already been set in the earlier chec If studav2.StudNo = student.StudNO And StudAv.Block <> 21 Or 20 T Select Case studav2.Appointment 'too early Case Is <= (lowerbound - 7) studav2.available = False studav2.Block = 0 'too late Case Is >= (lowerbound + 12) studav2.Block = 0 'too late Case Is >= (lowerbound + 12) studav2.Block = 0 'half hour early Case (lowerbound - 6) To (lowerbound - 1) studav2.Block = 20 'half hour later Case (lowerbound + 6) To (lowerbound + 11) studav2.Block = 21 'appointment before Public Sub TheSortingAlogorithm() Dim OnAppointment As Integer = 0 Dim lowerbound As Integer = 0 Dim lowerbound As Integer = 0 To loop goes through every student For counter1 As Integer = 0 To Nlesson Lesson = Getlesson(counter2) If lesson.StudNo = student.StudNo Then Tour counter1 As Integer = 0 To Nlesson Lesson = Getlesson(counter2) If lesson.StudNo = student.StudNo Then Student information student = GetStudent(counter1) 'finds all the lessons with the student and r For counter2 As Integer = 0 To Nlesson Lesson = Getlesson(counter2) If lesson.StudNo = student.StudNo Then Staff = GetStaff(counter2) If lesson.StudNo = student StudNo Then Staff = GetStaff(counter2) 'for each students availablity it los
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	'finds all the lessons with the student and retives
	For counter2 As Integer = 0 To Nlesson
	Lesson = Getlesson(counter2)
	<pre>If Lesson.StudNO = student.StudNO Then</pre>
	Staff = GetStaff(counter2)
	'for each students availablity it looks for
	For counter3 As Integer = 0 To NStudAv
	StudAv = GetStudAV(counter3)
	If StudAv.StudNo = student.StudNO And St
	Lesson = Getlesson(counter2)
	If Lesson.StudNO = student.StudNO Then
	Staff = GetStaff(counter2)
	'for each students availablity it looks for aval
	For counter3 As Integer = 0 To NStudAv
	StudAv = GetStudAV(counter3)
	If StudAv.StudNo = student.StudNO And StudAv
	For counter4 As Integer = 0 To NStaffAv
	StaffAv = GetStaffAV(counter4)
	icall = decisial(counters)
	for each students availablity it looks for avaliable spots
	or counter3 As Integer = 0 To NStudAv
	StudAv = GetStudAV(counter3)
	If StudAv.StudNo = student.StudNO And StudAv.available
	For counter4 As Integer = 0 To NStaffAv
	StaffAv = GetStaffAV(counter4)
	If StaffAv.StaffNO = Staff.StaffNO And StaffAv.
	'an appointment slot has been found for whi
	'the record for the appointment is populate
	StattAv = GetStattAV(counter4)
	If StaffAv.StaffNO = Staff.StaffNO And StaffAv.Available = True
	'an appointment slot has been found for which both the stud
	'the record for the appointment is populated
	Appointment.AppointmentNO = OnAppointment
	Appointment.studNO = StudAv.StudNo
	Appointment.StaffNO = StaffAv.StaffNO
	Appointment.day = StudAv.DayNO
	Appointment.StaffNO = StudAv.Appointment
	Putappointment(Appointment, Appointment.AppointmentNO)
	'handels block values for the student so as to make sure th
	If Appointmentlength = 5 Then
 <u>'</u>	THE ADDITIONAL TOP TO THE TOP TO

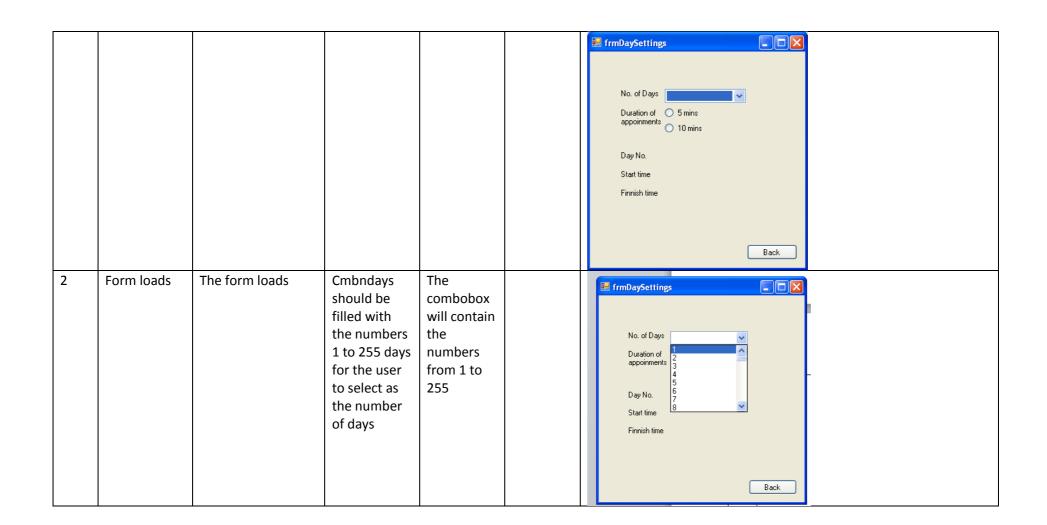
					'handles 10 min cases
					For counter5 As Integer = 0 To NStudAv
					studav2 = GetStudAV(counter5)
					'checks if teh block value of the curr
					'not in the same block and it needs to
					If StudAv.Block = 20 And (studav2.Bloc
					studav2.Block = 0
					studav2.available = False
					PutStudAv(studav2, studav2.studAVN
					'checks if teh block value of the
					'not in the same block and it need
					<pre>ElseIf StudAv.Block = 21 And studav2.B</pre>
					studav2.Block = 0
					studav2.available = False
					PutStudAv(studav2, studav2.studAVN
					'checks if teh block value of the
					'works out the first appointment of the half hour
					<pre>lowerbound = (studav2.Appointment \ 6) * 6</pre>
					'checks if the studav is not already been set in
					If studay2.StudNo = student.StudNO And StudAy.Blo
					Select Case studav2.Appointment
					'too early
					Case Is <= (lowerbound - 13)
					studay2.available = False
					studav2.Block = 0
					'too late
					Case Is >= (lowerbound + 18)
					studav2.available = False
					studav2.Block = 0
					'half hour early
					Case (lowerbound - 6) To (lowerbound - 1)
					studav2.Block = 21
					'half hour later
					Case (lowerbound + 6) To (lowerbound + 11
					studav2.Block = 22
					SCUUAVZ.DIOCK = ZZ
Clicking	Clicking btnemail	If this does	I will	The code	Private Sub btnEmail_Click(ByVal sender As System.Object, ByVal e
btnemail	and for the	not work	expect to	followed	'calls the email algortim
	purposes of this	then there is	recive an	the path	<pre>Call sendemailspart1() End Sub</pre>
				-	nd Class
	test I will be	no way for	email at	expected	III C1033

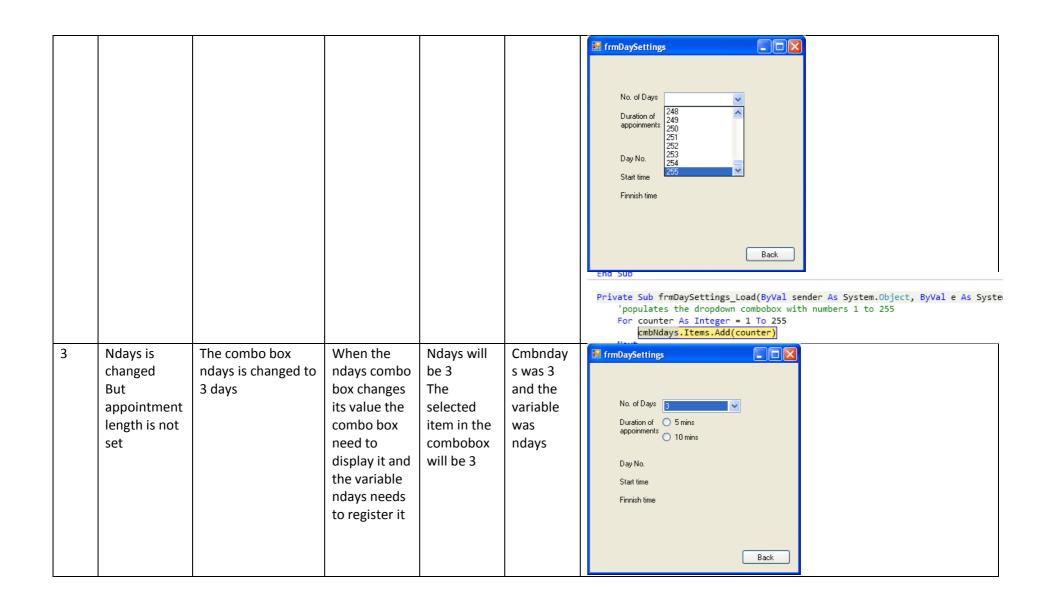
address to @ssfc.ac.uk instead because I don't	anyone to find out what their appointment s are.	112544@ss fc.ac.uk detailing appointme nts of simon bellows	and sent me a set of emails exactly as I expected.	recipient = student.Studio + @wmsr.ac.uk 'puts the initial greeting for the email and clears the old message body = "Dear " & student.Forename & " " & student.Surname & vbNewLine & vbNewLine 'finds each appointment of the student For counter2 As Integer = 1 To NAppointment If Appointment.studNO = student.StudNO Then 'gets the name of the member of staff the appointment is with Staff = GetStaff(Appointment.StaffNO) 'puts in the details of the appiontment into the email body = body & Staff.Forename & " & Staff.Surname & "" & militarytime(Appointment) End If Next 'puts the sign off of the email into the text body = body & vbNewLine & "thank you very much" & vbNewLine & "simon bellows" & vbNew 'calls the routine to send the email Call SendEmails2("sim.bellows@gmail.com", subject, body, username, password, recipie Next 'loop that cycles through each staff member so each gets an email For counter1 As Integer = 1 To Nstaff 'loads current staff members details Staff = GetStaff(counter1) body = body & Staff.Forename & " & Staff.Surname & "" & militarytime(Appointment End If Next 'puts the sign off of the email into the text body = body & vbNewLine & "thank you very much" & vbNewLine & "simon bellows" & vbNewLine : 'calls the routine to send the email Call SendEmails2("sim.bellows@gmail.com", subject, body, username, password, recipient) Next 'loop that cycles through each staff member so each gets an email For counter1 As Integer = 1 To Nstaff 'loads current staff members details Staff = GetStaff(counter1) 'genereates the staff school email
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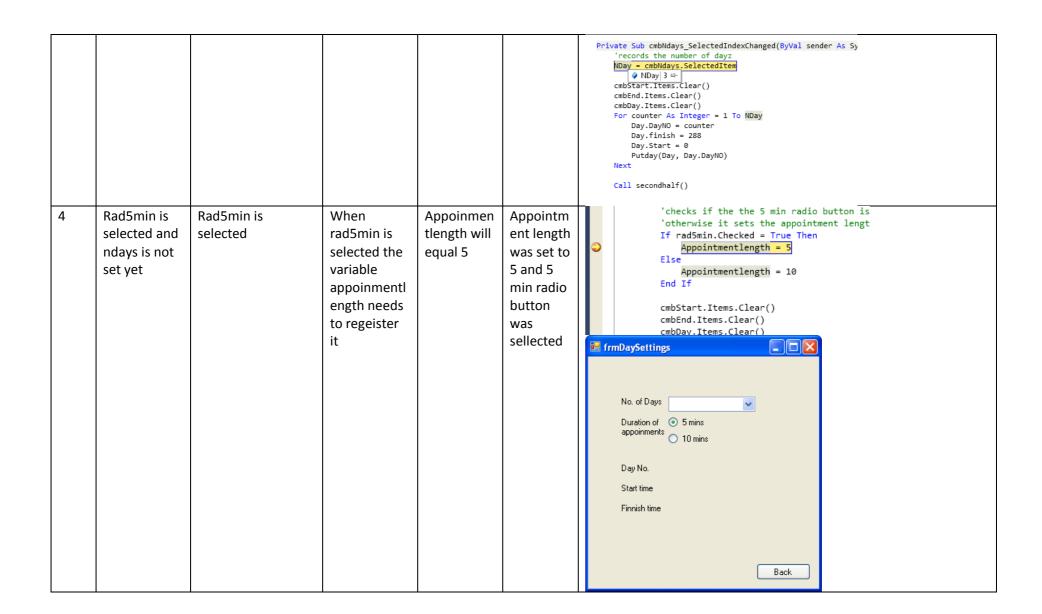
```
Email.To.Add(Recipient)
                       Next
                        'adds subject body and server, host and such information
                       Email.Subject = Subject
                       Email.Body = Body
                       SMTPServer.Host = Server
                       SMTPServer.Port = Port
                       SMTPServer.Credentials = New System.Net.NetworkCredentia
                       SMTPServer.EnableSsl = True
                        'sends it
                       SMTPServer.Send(Email)
                        'clears it
                       Email.Dispose()
                        'notificaltion if smtp failed
             Catch ex As SmtpException
                       Email.Dispose()
                       MsgBox("Sending Email Failed. Smtp Error.")
                        'notification if portnuimber owas wrong
             Catch ex As ArgumentOutOfRangeException
                       Email.Dispose()
                       MsgBox("Sending Email Failed. Check Port Number.")
                        'notification if portnumber is wrong
             Catch Ex As InvalidOperationException
                       Email.Dispose()
                       MsgBox("Sending Email Failed. Check Port Number.")
             . Construction of the contract of the contract
             'puts the intitial greeting for the email and clears the old message
            body = "Dear " & Staff.Forename & " " & Staff.Surname & vbNewLine & vbNe
            'finds each appoointment of the staff member
            For counter2 As Integer = 1 To NAppointment
                    If Appointment.StaffNO = Staff.StaffNO Then
                               gets the name of the student the appointmetn is with
                             student = GetStudent(Appointment.studNO)
                             'puts in the details of the appointment into the email
                             body = body & student.Forename & " " & student.Surname & "" & mi
                    End If
             'puts the sign off of the email into the message
            body = body & vbNewLine & "thank you very much" & vbNewLine & "simon be]
           Next
            'puts the sign off of the email into the message
           body = body & vbNewLine & "thank you very much" & vbNewLine & "simon bellows" & vbNewLine & vbN
           'calls the routine to send the email
           Call SendEmails2("sim.bellows@gmail.com", subject, body, username, password, recipient)
Oublic Sub SendEmails2(ByVal FromAddress As String,
```

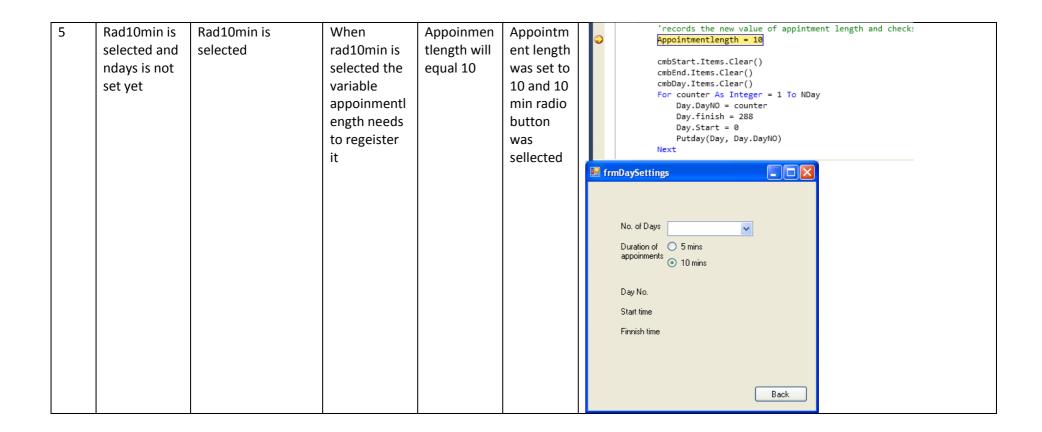
Email.To.Add(Recipient)
Next
'adds subject body and server, host and such information
Email.Subject = Subject
Email.Body = Body
SMTPServer.Host = Server
SMTPServer.Port = Port
SMTPServer.Credentials = New System.Net.NetworkCredentia SMTPServer.EnableSsl = True
'sends it
SMTPServer.Send(Email)
'clears it
Email.Dispose()
'notificaltion if smtp failed
Catch ex As SmtpException
Email.Dispose()
MsgBox("Sending Email Failed. Smtp Error.")
'notification if portnuimber owas wrong
Catch ex As ArgumentOutOfRangeException
Email.Dispose()
MsgBox("Sending Email Failed. Check Port Number.")
'notification if portnumber is wrong
Catch Ex As InvalidOperationException
Email.Dispose()
MsgBox("Sending Email Failed. Check Port Number.")
Fad Tax
Dear Simon Bellows
Tony Pyle 1835 day 2
Luke Skywalker 1845 day 2
Biggs Darklighter 1855 day 2
Thank you very much
simon bellows
Deputy head

frmDaySettings Test data Reason for Expected Test event outcome screenshots No test outcome File Edit View Project Debug Data Format Tools Window Help 1 When the Cmbstart, Form loads The form loads form loads cmbday Consultation evening project v1* frmDaySettings.vb [Design] X mod1.vb frmS the neither and ☐ frmDaySettings cmbend the number of days or will be the length of invisible No. of Days appointment Duration of 0 5 mins appoinments 0 10 mins s are decided ergo one can Day No. not set the Start time Finnish time times for the days so they should be Back invisible Properties cmbDay System.Windows.Forms.Co -**2**↓ **3** ≠ **3** ValueMember Visible cmbStart System.Windows.Forms.C -∄ Ž↓ 🔳 🥖 🖹 ValueMember Visible False Properties cmbEnd System.Windows.Forms.Cor -∄ Ž↓ I II 🥖 III ValueMember Visible False

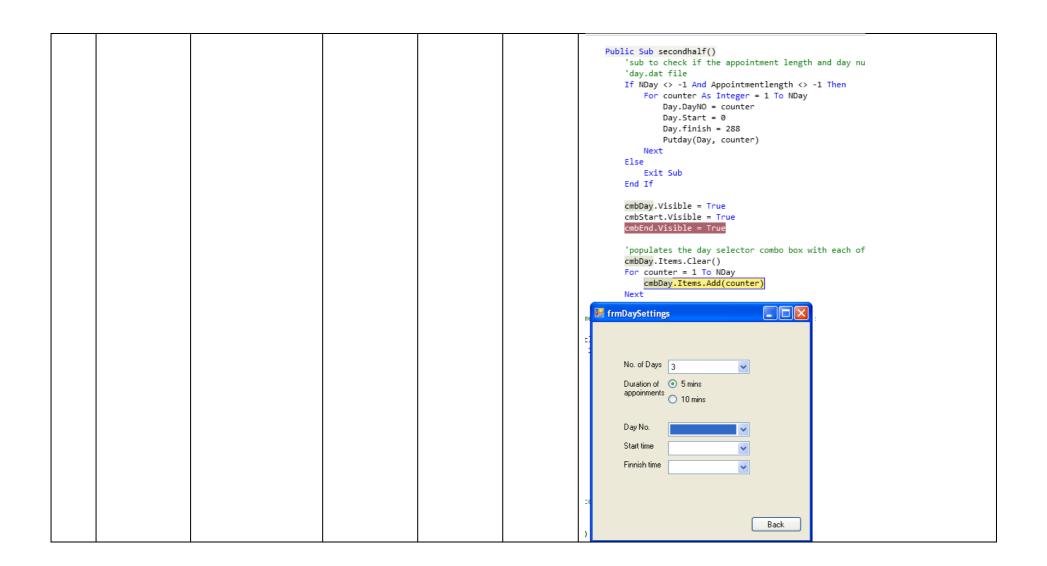


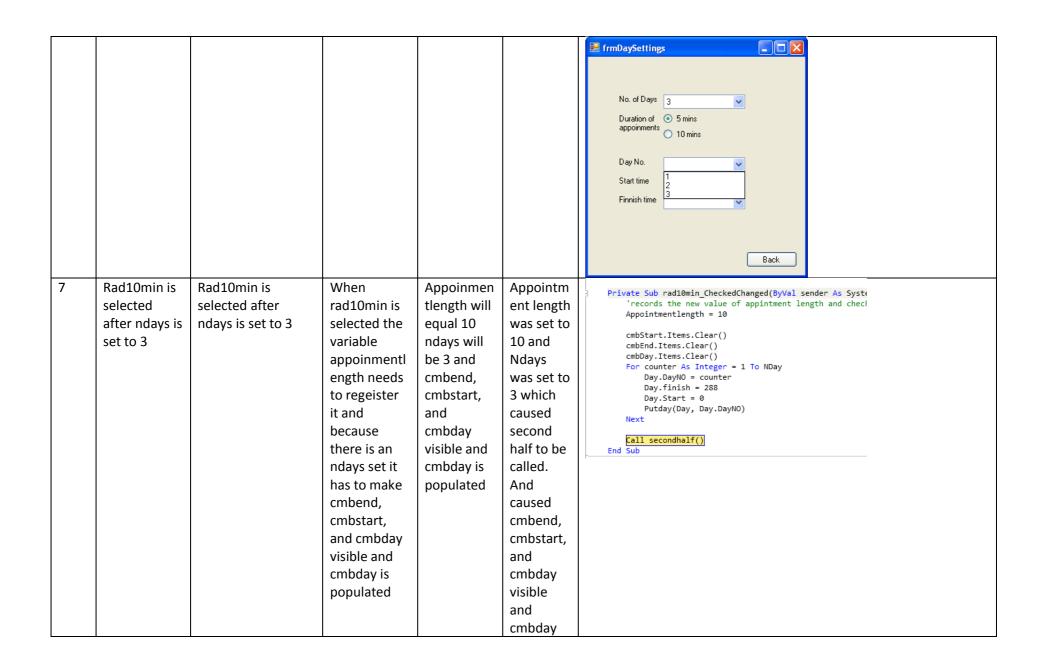






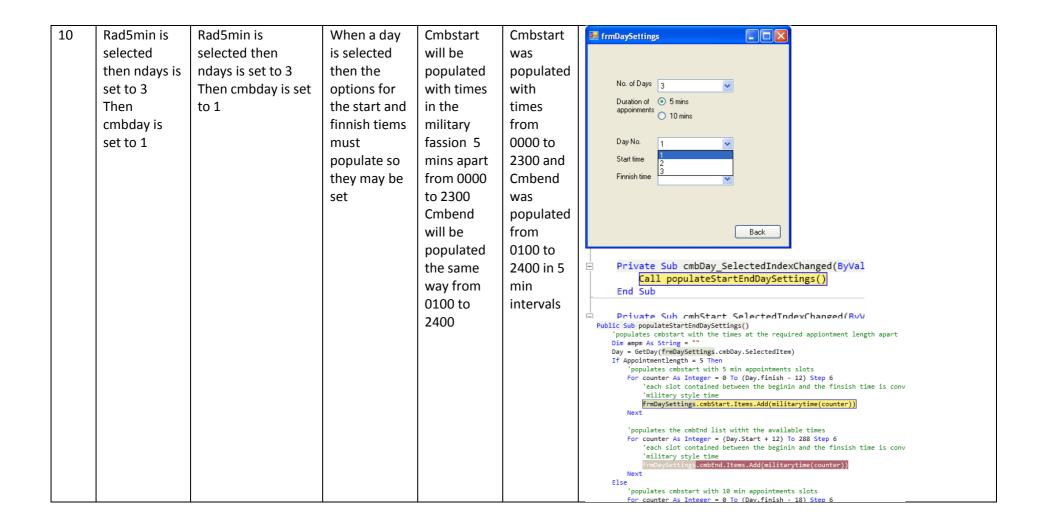
6	Rad5min is	Rad5min is	When	Appoinmen	Appointm	□Public Class frmDaySettings
	selected	selected after	rad5min is	tlength will	ent length	'used in the time selecting subroutines Public change As Boolean = False
	after ndays is	ndays is set to 3	selected the	equal 5	was set to	Public change1 As Boolean = False
	set to 3	110075 15 500 00	variable	ndays will	5 and	
	301103		appoinmentl	be 3 and	Ndays	'otherwise it sets the appointment ler If rad5min.Checked = True Then
			ength needs	cmbend,	was set to	Appointmentlength = 5 Else
			_	-	3 which	Appointmentlength = 10
			to regeister	cmbstart,		End If
			it and	and 	caused	<pre>cmbStart.Items.Clear() cmbEnd.Items.Clear()</pre>
			because	cmbday	second	cmbDay.Items.Clear()
			there is an	visible and	half to be	For counter As Integer = 1 To NDay Day.DayNO = counter
			ndays set it	cmbday is	called.	Day.finish = 288 Day.Start = 0
			has to make	populated	And	Putday(Day, Day.DayNO) Next
			cmbend,		caused	Next
			cmbstart,		cmbend,	Call secondhalf()
			and cmbday		cmbstart,	End Sub
			visible and		and	Public Sub secondhalf()
			populated		cmbday	'sub to check if the appointment length and day numbers have been chosa' 'day.dat file
					visible	<pre>If NDay <> -1 And Appointmentlength <> -1 Then For counter As Integer = 1 To NDay</pre>
					and	Day.DayNO = counter Day.Start = 0
					cmbday	Day.finish = 288 Putday(Day, counter)
					to be	Next Else
					populated	Exit Sub End If
					populatea	
						<pre>cmbDay.Visible = True cmbStart.Visible = True</pre>
						cmbEnd.Visible = True
						'populates the day selector combo box with each of the days cmbDay.Items.Clear()
						For counter = 1 To NDay cmbDay.Items.Add(counter)
						Next End Sub

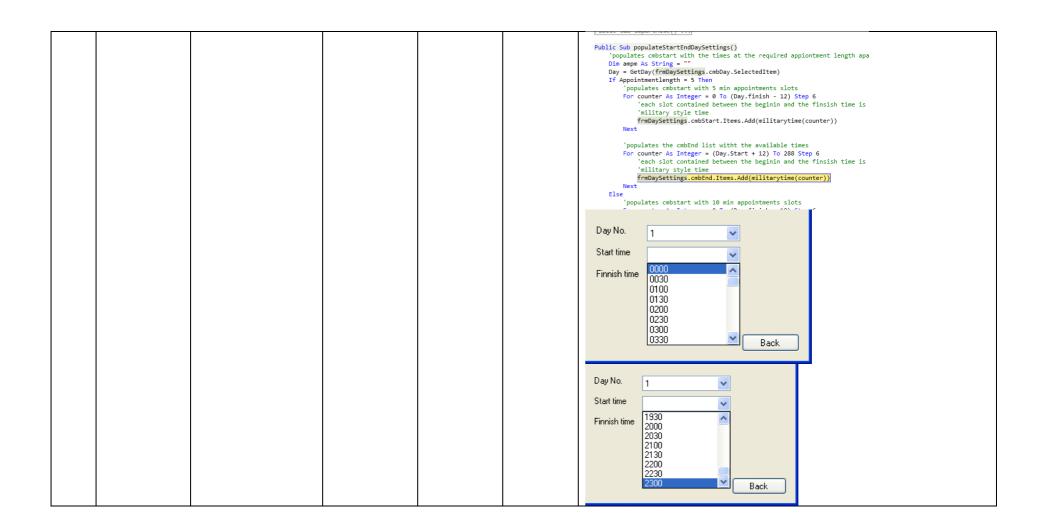




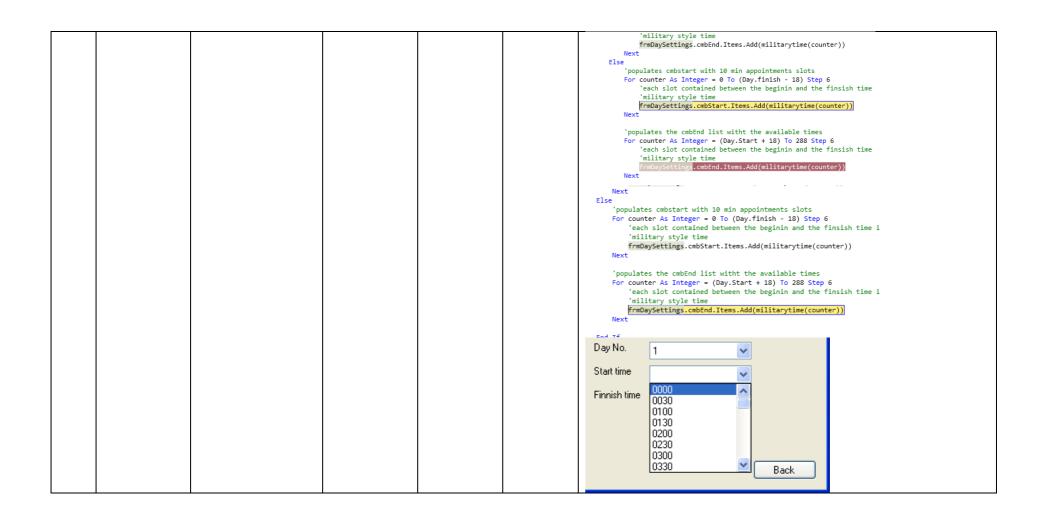
					to be		
					populated		
8	Rad5min is	Rad5min is	When	Appoinmen	Appointm	Ė	<pre>Private Sub cmbNdays_SelectedIndexChanged(ByVal sender As Sys 'records the number of dayz</pre>
	selected	selected then	rad5min is	tlength will	ent length		NDay = cmbNdays.SelectedItem
	then ndays is	ndays is set to 3	selected the	equal 5	was set to		<pre>cmbStart.Items.Clear() cmbEnd.Items.Clear()</pre>
	set to 3		variable	ndays will	5 then		cmbDay.Items.Clear() For counter As Integer = 1 To NDay
			appoinmentl	be 3 and	Ndays		Day.DayNO = counter
			ength needs	cmbend,	was set to		Day.finish = 288 Day.Start = 0
			to regeister	cmbstart,	3 which		Putday(Day, Day.DayNO) Next
			it and then	and	caused		Call secondhalf()
			ndays set to	cmbday	second		
			3 so	visible and	half to be		
			cmbend,	cmbday is	called.		
			cmbstart,	populated	And		
			and cmbday		caused		
			visible and		cmbend,		
			cmbday is		cmbstart,		
			populated		and		
					cmbday		
					visible		
					and		
					cmbday		
					to be		
					populated		

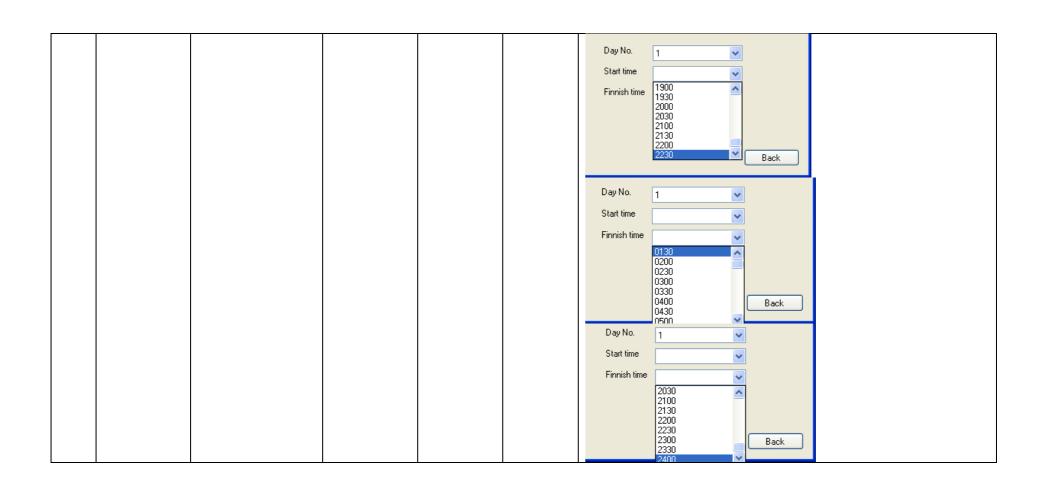
9	Rad10min is	Rad10min is	When	Appoinmen	Appointm	Private Sub cmbNdays SelectedIndexChanged(ByVal
)						'records the number of dayz
	selected	selected then	rad10min is	tlength will	ent length	NDay = cmbNdays.SelectedItem
	then ndays is	ndays is set to 3	selected the	equal 10	was set to	
	set to 3		variable	ndays will	10 then	cmbStart.Items.Clear()
			appoinmentl	be 3 and	Ndays	<pre>cmbEnd.Items.Clear() cmbDay.Items.Clear()</pre>
			ength needs	cmbend,	was set to	For counter As Integer = 1 To NDay
			to regeister	cmbstart,	3 which	Day.DayNO = counter
			it and then	and	caused	Day.finish = 288 Day.Start = 0
			ndays set to	cmbday	second	Putday(Day, Day.DayNO)
			3 so	visible and	half to be	Next
			cmbend,	cmbday is	called.	Call secondhalf()
			cmbstart,	populated	And	
			and cmbday		caused	
			visible and		cmbend,	
			cmbday is		cmbstart,	
			populated		and	
					cmbday	
					visible	
					and	
					cmbday	
					to be	
					populated	

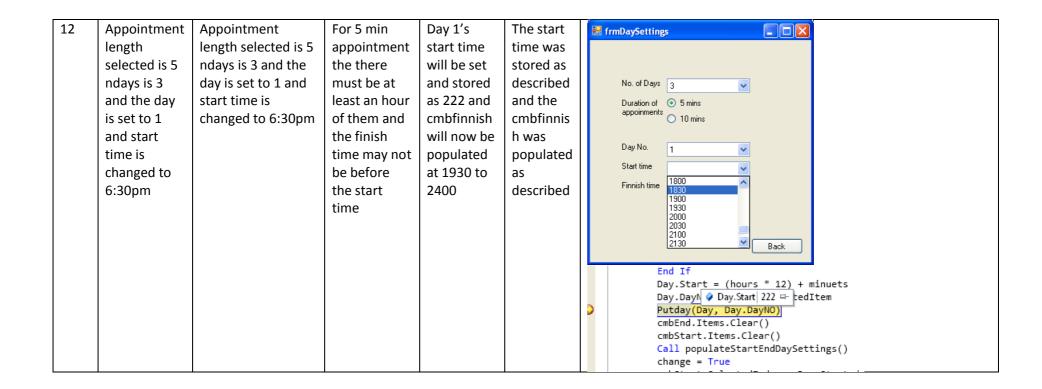


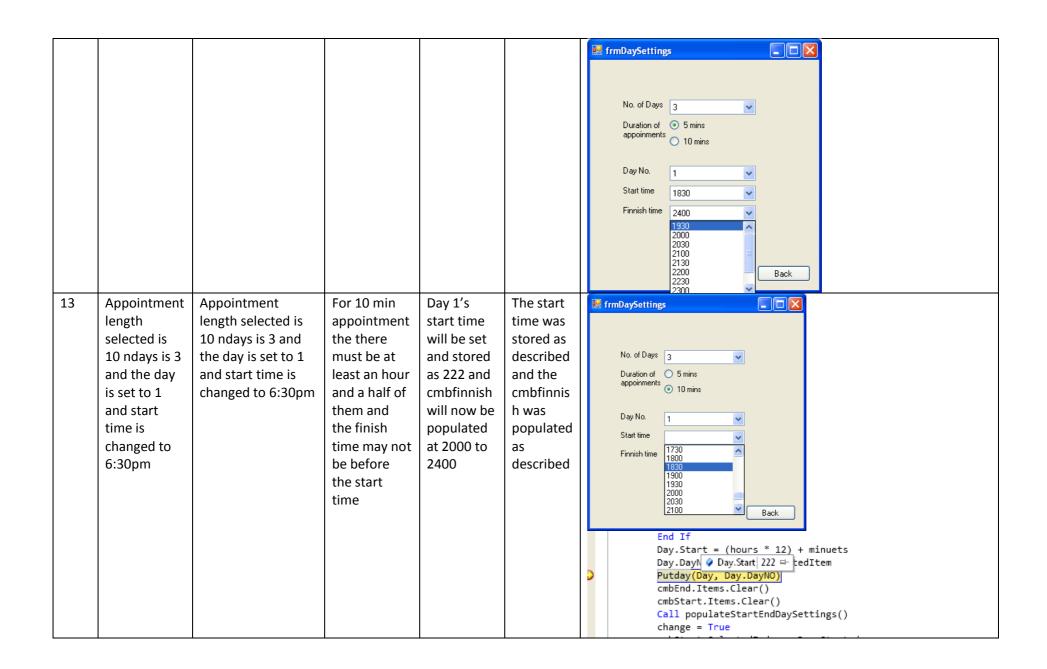


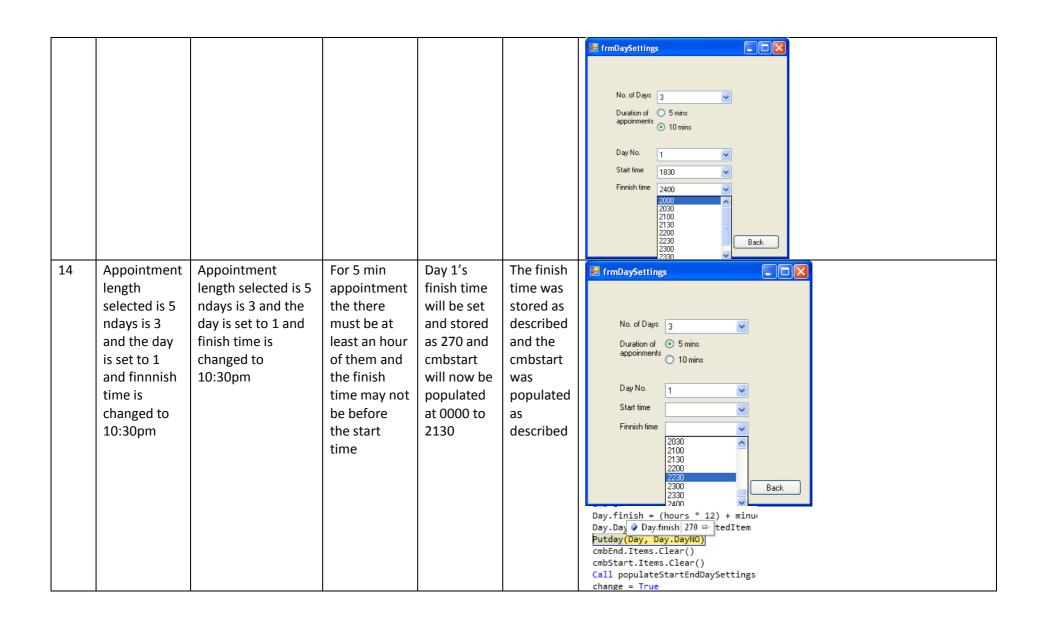
Rad10min is selected then ndays is set to 3 Then cmbday is set to 1	Rad10min is selected then ndays is set to 3 Then cmbday is set to 1	When a day is selected then the options for the start and finnish tiems must populate so they may be set	Cmbstart will be populated with times in the military fassion 10 mins apart from 0000 to 2230 Cmbend will be populated the same way from	Cmbstart was populated with times from 0000 to 2230 and Cmbend was populated from 0130 to 2400 in 10 min	Day No. Start time Finnish time Day No. Day No. Start time Finnish time Finnish time Finnish time Finnish time To a back Day No. Start time Day No. Day No. Start time Finnish time Finnish time Finnish time Private Sub cmbDay SelectedIndexChanged(ByVal Call populateStartEndDaySettings()) End Sub Find Sub Find Sub Find Sub Find Sub
			0130 to 2400	10 min intervals	End Sub Private Sub cmhStart SelectedIndexChanged(RvV
	selected then ndays is set to 3 Then cmbday is	selected then ndays is set to 3 Then cmbday is then then ndays is set to 3 to 1 to 1 to 1	selected then ndays is selected then ndays is set to 3 then the options for the start and finnish tiems set to 1 selected then ndays is set to 3 then the options for the start and finnish tiems must populate so they may be	selected then ndays is set to 3	selected then ndays is set to 3

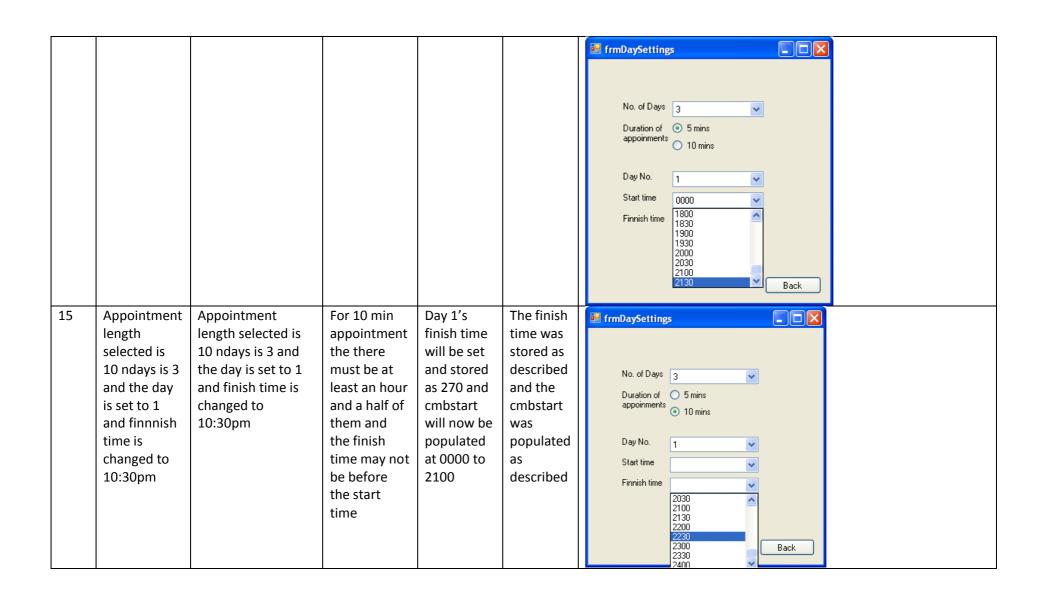


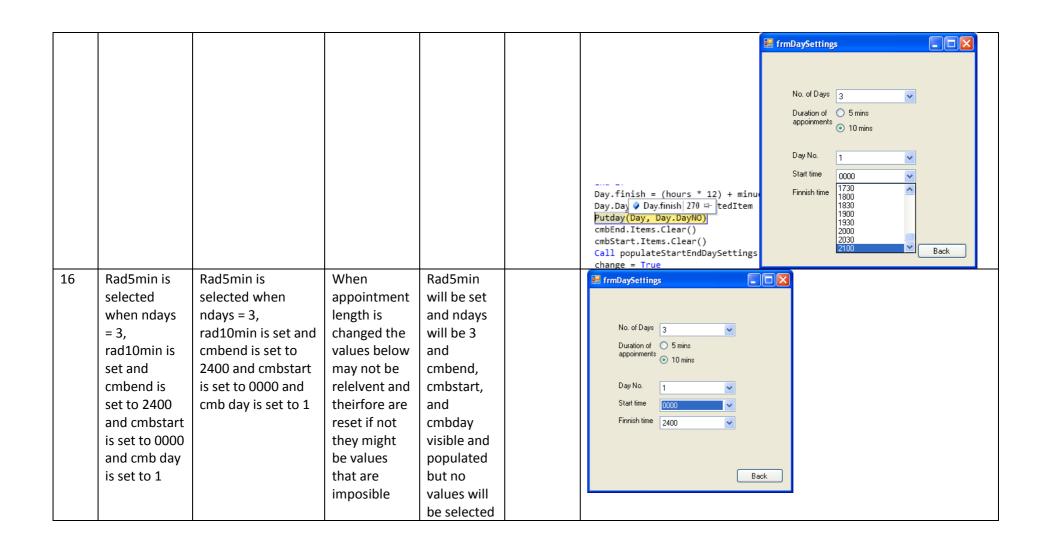








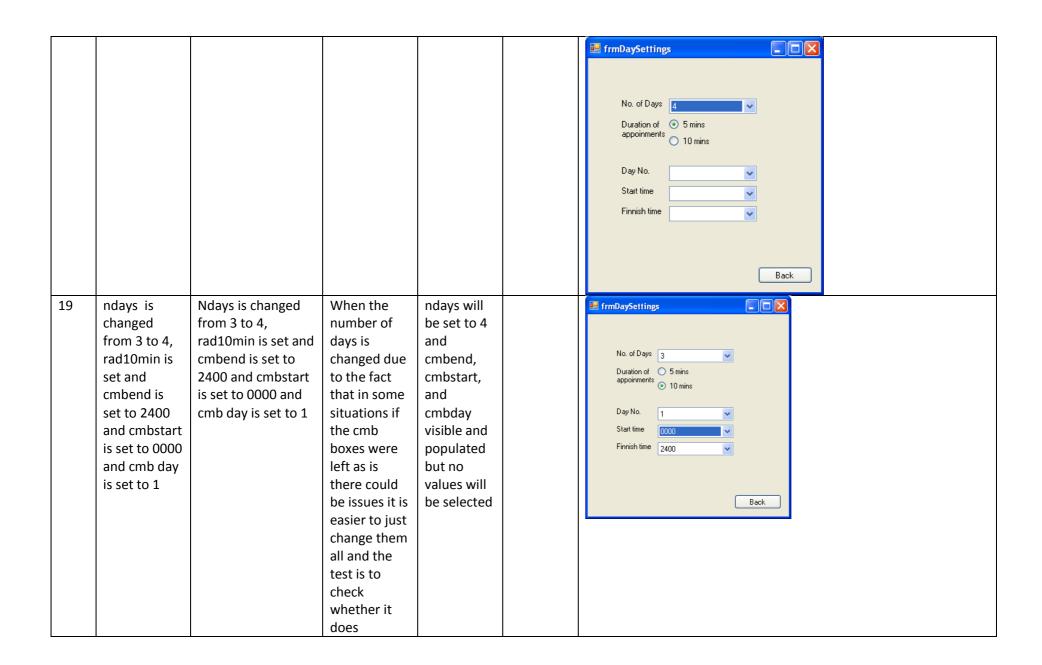




					<pre>cmbStart.Items.Clear() cmbEnd.Items.Clear() cmbDay.Items.Clear() For counter As Integer = 1 To NDay Day.DayNO = counter Day.finish = 288 Day.Start = 0 Putday(Day, Day.DayNO) Next Call secondhalf() cmbStart.Items.Clear() cmbEnd.Items.Clear() cmbDay.Items.Clear() For counter As Integer = 1 To NDay Day.DayNO = counter Day.finish = 288 Day.Start = 0 Putday(Day, Day.DayNO) Next Call secondhalf()</pre>
17	Rad10min is selected when ndays = 3, rad5min is set and cmbend is set to 2400 and cmbstart is set to 0000 and cmb day is set to 1	Rad10min is selected when ndays = 3, rad5min is set and cmbend is set to 2400 and cmbstart is set to 0000 and cmb day is set to 1	When appointment length is changed the values below may not be relelvent and theirfore are reset if not they might be values that are imposible	Rad10min will be set and ndays will be 3 and cmbend, cmbstart, and cmbday visible and populated but no values will be selected	No. of Days Duration of 5 mins appoinments 10 mins Day No. 1 Start time 0000 Finnish time 2400 Back

			<pre>cmbStart.Items.Clear() cmbEnd.Items.Clear() cmbDay.Items.Clear() For counter As Integer = 1 To NDay Day.DayNO = counter Day.finish = 288 Day.Start = 0 Putday(Day, Day.DayNO) Next</pre>
			<pre>Call secondhalf() cmbStart.Items.Clear()</pre>
			<pre>cmbEnd.Items.Clear() cmbDay.Items.Clear() For counter As Integer = 1 To NDay Day.DayNO = counter Day.finish = 288 Day.Start = 0 Putday(Day, Day.DayNO) Next</pre>
			Call secondhalf()
			No. of Days Duration of 5 mins appoinments 10 mins
			Day No. Start time Finnish time
			Back

18 ndays is ndays changed When the ndays will frmDaySettings number of changed from 3 to 4, be set to 4 from 3 to 4, days is rad5min is set and and rad5min is cmbend is set to changed due cmbend, No. of Days 3 to the fact set and 2400 and cmbstart cmbstart, Duration of 💿 5 mins appoinments 0 10 mins cmbend is is set to 0000 and that in some and cmb day is set to 1 situations if set to 2400 cmbday the cmb Day No. and cmbstart visible and populated Start time is set to 0000 boxes were 0000 and cmb day left as is but no Finnish time 2400 is set to 1 there could values will be issues it is be selected easier to just Back change them all and the cmbStart.Items.Clear() test is to cmbEnd.Items.Clear() cmbDay.Items.Clear() check For counter As Integer = 1 To NDay whether it Day.DayNO = counter does Day.finish = 288 Day.Start = 0Putday(Day, Day.DayNO) Next Call secondhalf() cmbStart.Items.Clear() cmbEnd.Items.Clear() cmbDay.Items.Clear() For counter As Integer = 1 To NDay Day.DayNO = counter Day.finish = 288 Day.Start = 0Putday(Day, Day.DayNO) Next Call secondhalf()



```
cmbStart.Items.Clear()
   cmbEnd.Items.Clear()
   cmbDay.Items.Clear()
   For counter As Integer = 1 To NDay
       Day.DayNO = counter
       Day.finish = 288
       Day.Start = 0
        Putday(Day, Day.DayNO)
   Next
   Call secondhalf()
    cmbStart.Items.Clear()
    cmbEnd.Items.Clear()
    cmbDay.Items.Clear()
    For counter As Integer = 1 To NDay
         Day.DayNO = counter
         Day.finish = 288
         Day.Start = 0
        Putday(Day, Day.DayNO)
    Next
    Call secondhalf()

☐ frmDaySettings

      No. of Days 🛛
      Duration of O 5 mins
     appoinments 

10 mins
      Day No.
      Start time
      Finnish time
                                 Back
```

