Evaluation of test results

In all but a cases the testing proved that my code did what it was meant to first time around. In all the cases where it failed it was fixed and retested. The problem was when a loop had been accidentally set to start at record 0. The problem with this was that the getappoitments function was unable to find record 0 because it was not part of the dat file due to the fact that it is before the dat file begins. Other wise for each test it passed black box testing (it had the correct result) and it passed white box testing (it followed the correct path through the code to generate the correct answer).

Whether the solution satisfies the objectives

Objectives	How I thought I met them
Must be technically feasible, e.g. within	I succeeded in building the program so
my abilities to program	presumably it was
Martha in a sanda a santa tha data	This are all along the second and
Must be in accordance to the data protection act and other legislature	This was redundant in my project due to the nature of the data.
•	
Must be able to fit in with current work	I did beta testing and they felt it would do so.
practices Save old master files in a grandfather,	After further talks with the user this
father, son system.	was taken off the table and is irrelevent
Save transaction files as old as the	After further talks with the user this
	was taken off the table and is irrelevent
grandfather master save	
Each student will be assigned a unique	It was changed so they logged on just
logon username, their student number.	by logging onto their school network area.
Use minimalistic colours	I used the default colour scheme of
ose minimaistic colours	visual basic which is minimalistic and
	the same as that of windows it self
Use a house style	I used the default colour scheme of
	visual basic which is minimalistic and
	the same as that of windows it self
Not to use slang	Every thing that was written in my
	program that was able to be seen by
Han along torms	users is grammatically correct
Use clear terms	There are no long words used or jargon
Label buttons clearly	Every button has a short piece of text that sums it up and in beta is was
	considered clear
Create user interface in a generic	By using the colour of windows and
manner	basing my design ideas form other
	forms I have used in the past I have
	replicated most of the key parts of

	generic interfaces
Put in hot keys as well as buttons	This was not done as the user later
	decided that they did not feel it was
	necessary.
Make sure ever input box is fully	There are no input boxes available to
validated so only inputs in the correct	users everything is done via combo box
form are processed.	where the user has to pic from a
	selection of valid values.
Keep the total size below 20 mb	The total size of the program
	includeing practice data is 390 kb
Make system load within 10 seconds	Its slowest loading time for students at
Make sure the areas where the	the end of the file is 6 seconds
	It was later agreed that security was not my concern and was taken off the
passwords and confidential	table so is irrelevant.
information is save encrypted	
Require all passwords to be	There are no passwords related
alphanumeric of at least 6 characters	directly to the system so its irrelelvent.
and for admin it must be 10 characters	
alphanumeric and involve symbols	
Make there facilities for the	After further talks with the user this
customisation of the forms	was taken off the table and is irrelevent
Make facilities for the admin to change	The staff before an open day can be
the quantities of days the parents	made ready for students and staff to
evenings are to be spread over	put in there availability must have the number of day set. This is done via the
	day settings form accesable vai the
	admin form by admin. Once on the
	form the admin just has to select the
	number desired on a combo box.
Make facilities for the admin to change	The staff before an open day can be
the times that the appointments can	made ready for students and staff to
take place in	put in there availability must have the
	start and finish times slected. This is done via the day settings form
	accesable vai the admin form by admin.
	Once on the form the admin just has to
	select the start and finish times for
	each day by selecting a item in a combo
	box
Make facilities for the admin to be able	The staff before an open day can be
the duration of the appointments	made ready for students and staff to
	put in their availability must have an
	appointment length selected. This is done via the day settings form
	accessible via the admin form by
	admin. Once on the form the admin just
	has to select the appointment length by

	colocting a radio button
Enable the program to be able to	selecting a radio button The cay's for students, staff and the two
Enable the program to be able to	The csv's for students, staff and the two about lessons are all successfully
transfer data from spread sheets of	converted and manipulated to make
certain formats into appropriate	the student staff and lesson dat files.
variables	
Make it so that if a student logs on to	This is sort of done except instead of
the appointment computer it fills in	filling in the details I have cut that part
their password and username	out and it just opens
For it to be able to have multiple users	The format of files and file access is
using at the same time only have the	that access takes only a spit second so
files where data is saved open for	there is very low a probability of there
fractions of a second	being any multi-access errors.
Make the algorithm result in every one	This I failed to do it does not report
getting a time or with it reporting that	back when a student does not get an
there is not enough time allocated to	appointment.
parents evening	
Must allow the merging brothers and	After further talks with the user this
sisters together	was taken off the table and is irrelevent
if someone logs on ask them if they are	After further talks with the user this
siblings with any other user with the	was taken off the table and is irrelevent
same last name and if they want to	
merge	
Must not allow an appointment slot to	As soon as an appointment is booked
be booked by two or more people	its availability is changed to false for
so sociou sy on o or more people	both the student and the staff member
	precluding this event
Ensure that no one has appointments	The program after assigning an
at less than 5 minutes apart to account	appointment immediately sets
for travel time.	appointments either side to
	unavailable meaning it is met.
Make sure the project is completed	The date required changed to the start
before Easter	of june and I have met it.
Make sure that the project dose not	Baring the cost of the electric the total
cost anything as there is no budget.	cost of the program was nothing.
Make sure that the program runs on	It was beta tested on the network and
the school network	it worked fine. It is saved as an
the selloof network	executable and therefore works on
	most windows operating systems.
Make it so that once the program has	There is a subroutine linked to the
finished setting the times it e-mails the	admin form which generates emails for
college emails of the students with the	each student and staff member that
times	sends vial gmail a email with there
	appointmetns on it.
Make it so that with on click a user can	The email that every one receives is well structured and emails them selves
print out their appointment times in a	LITER OF STREET WAS AND AND ALL THAN CALLED

professional format	are in this day and age simple to print
	out using your mail application
Compile a document showing the steps	I have created a user documentation
to complete certain actions	file that describes how to use the
•	program.

Whether the solution satisfies evaluation criteria.

Evaluation criteria	How I felt I met it
Produce an easily printable list of appointments for each student and teacher	The email that every one receives is well structured and emails them selves are in this day and age simple to print out using your mail application
Must score a unanimous vote as simple to use in the beta test.	In each of my beta tests I was told that the user did not once have to use the user manual to work out what they were doing.
Must never generate two consecutive appointments for a student.	The program after assigning an appointment immediately sets appointments either side to unavailable meaning it is met.
Must handle multiple lessons with multiple teachers	It does to a degree it allows them to be booked with both which was the users clients request as they felt that both teachers would have things to say.
Must be multi user multi access	The format of files and file access is that access takes only a spit second so there is very low a probability of there being any multi-access errors.
Must allow users to log on just by their network area	The when the program opens it finds the users network area name and uses that as the way of accessing the system as it is their student ID or staffID
Must keep the appointments for each student within a reasonable distance of each other	Appointment for 5 minuet length are only able to be within an hour of each other and for 10 mins it is an hour and a half to keep it close and
Loads within 10 seconds	Loads in 6 at most if the user is the last student on the list.
Must be less than 10 mb	The program is 390 kb with my example data in it.
There is a consistent house style that keeps colour to a minimum	The program uses the basic unchanged vb house style which is minimum and clean coloured

Text boxes and buttons are clearly labelled All inputs must be validated so that errors don't often arise	In all the beta tests I was told that the user did not once have to use the user manual to work what they were doing which implies that there was no problem with the labeling of buttons or textboxes There is no place where a user is able to input dat them selves except when admin imports student and staff data. At this point the data is then validated so the program doesn't break and when an error is found it reports this and tell s the user to fix it.
Must not cost more than £100	The totality of all expenses involved not counting electricity costs was £0 there for I passed that piece of criteria.
Must not be in breach of the data protection act	Data is lawfully collected and relevant. It is accurate and is not kept longer than necessary and so on and so forth
Must import student, staff and lesson information from csv to dat	The csv's for students, staff and the two about lessons are all successfully converted and manipulated to make the student staff and lesson dat files.
Students must be able to Input when they are available	The students input their availability on the availability form they all (if they are on the system) have access two by checking boxes to symbolize availability at certain times.
Students must be able to Change their availability settings	At any point a student can set their availability again and it will change the data to be what they set it too.
Staff must be able to input when they are available	The staff input their availability on the availability form they all (if they are on the system) have access two by checking boxes to symbolize availability at certain times.
Staff must be able to Change when they are available	At any point a member of staff can set their availability again and it will change the data to be what they set it too.
Admin must be able to Decide set the number of days	The staff before an open day can be made ready for students and staff to put in there availability must have the number of day set. This is done via the day settings form accesable vai the admin form by admin. Once on the form the admin just has to select the number desired on a combo box.

Admin must be able to Be able to view the appointments for each student	This was not done unless they look at the appointment dat file(which they wont understand). In this I failed.
admin must be able to Set the start and finish times for the consultation evenings	The staff before an open day can be made ready for students and staff to put in there availability must have the start and finish times slected. This is done via the day settings form accesable vai the admin form by admin. Once on the form the admin just has to select the start and finish times for each day by selecting a item in a combo box
Admin must be able to Must be able to email students and teachers their appointments	There is a subroutine linked to the admin form which generates emails for each student and staff member that sends vial gmail a email with there appointments on it.
Admin must be able to Must be able to reset the dat files	There is a subroutine linked to the admin form which replaces the data in the dat files with nothing.
must satisfy the customer	When presented to the client he was happy. He did not like that the admin couldn't see the appointments before they send the emails but otherwise was content.

Future improvements

For it to be web enabled / smart phone enabled.

This would be a good improvement as not all students may have easy access to computer resources during the school day and may feel it to be easier to do it from home or quickly via phone on their commute home. The reason why it is an improvement is that it will maximize the probability that students would book their availability on time.

For it to define what kind of error there was with the csv's while importing

Currently when importing is there is an error with the informationt that would cause the program to fail it just tells the user there is an error. What is proposed is that it would tell the user where in the csv the error is and what should be changed thus helping the user remedy the issue making it easier to use.

For it to have more flexible blocks.

Currently the program meets the objective of keeping appointments close together by constraining them to blocks starting every half hour. I propose that they should be able to do it with blocks staring at any time optimizing the chances of the users to get appointments.

Could be modified to allow parents to book with staff

The system could also store staff availability at other times and parents could book to see staff using it at other times. Meaning it would have more usability increasing its value.

Allow some manual alteration

Depending on the effectiveness of the sorter there will be cases where judgment can be exorcised to make changes that don't fit the programming but are viable and are better for all parties involved.

Handle staff that are the most needed first

The program should use a priority rating to designate appointments to the staff that have the most students vying for their time because it would maximize the staff member potential to see all their students.

Allow admin to see appointments.

Allow admin to view the appointments before they email them to the users thus making sure they aren't sending out a particularly unsuccessful try where only 1 in 10 appointments are actually booked.

Attach additional information to the system

Ie put in the date for the days instead of day numbers. Or to put in the room where staff will be. The benefit would be that people would have a better idea of what is happening.