

## Whiteman's Leisure Centre

### Previous System's

The computer systems used in Whiteman's Leisure Centre are extremely outdated; they are not capable of running most modern day software or hardware and are not the best computers for a company. These are the current computer systems within the company:

There is one 386 PC:

CPU (Central Processing Unit) 386SX 10/33/40Mhz Adjustable Speed CPU

OS (Operating System) Windows 3.1

RAM (Random Access Memory) 4MB

HDD (Hard Disk Drive) 2MB

There is one 486 PC:

CPU 80486SX (32 Bit)

OS 6.2 Windows for Workgroups 3.11

RAM 8MB (Mega Bytes)

HDD 125MB

There are two Pentium 100 Computers:

CPU Pentium 100 MHz

OS Windows 95

RAM 32MB

HDD 1GB (1000MB though one GB is actually 1024MB)

Optical CD Rom

There are many problems with these computers, as well as being very out dated they are not well organised the two Pentium 100 Computers share an Ink Jet Printer however anyone else wanting to use this has to go to the Admin office which could be an inconvenience especially if there is a meeting in place at the time. Martin Dolphin Cannot use his 386 Computer so brings in his own laptop to complete his work this however still requires him to use the printer in the Admin Office.

## **System Plan**

The systems all need replacing so that they can cope with modern applications, and a network needs implementing in order for Whiteman's Leisure Centre to share resources (printer, etc) It would be much better if everyone could use their computer rather than like Martin Dolphin having to bring in their own computing equipment.

## **System Details**

### **Computer Systems**

AND Athlon XP (Barton) 2500+  
512MB PC2700 RAM  
80GB HDD  
Abit NF7-M  
CD-RW  
OS Windows XP Professional  
Office XP

I have chosen this hardware as it is powerful, and cost effective. The motherboard features built in Graphics and LAN (Local Area Network) Card saving on money buying all the items individually.

Windows XP Professional is also a very stable operating system with support for many applications and also built in backwards compatibility, it is also future proof supporting 32Bit and 64Bit CPU's (32Bit CPU's are most common in home computers however within businesses 64Bit ones are becoming increasingly popular. Until recently the only producers of 64Bit Chips was Intel producing the Xeon chip with speeds of up to 3Ghz currently these feature a massive 1MB L2 Cache which is double the Pentium 4's 512KB's, the Xeon chips are used in server boards featuring Dual CPU sockets these also have to use ECC's Registered RAM rather than the standard Un-buffered Ram used in home computers, These are very expensive setups which the average home user cannot afford. But to combat their rivals AMD have just released their AMD Opteron For servers with speeds of up to 1.8Ghz Which outperform the Xeon's at 3Ghz and also the AMD 64 which is aimed at home users it has 1MB L2 Cache and can out perform even the fastest Intel chip, This runs at 2.2Ghz and has the PR rating of 3200+ at only £320 this is a very affordable chip which has great overclocking potential, and because it uses 0.13Micron technology and has a lower core voltage than Barton's it also runs cooler and can be run with cheaper un-buffered memory.)

Office XP is the best office system featuring all the required applications for work.

## **System Setup**

All systems should be linked to a central Hub in the Admin office so that information can easily be shared between computers using the company's intranet, there could be e-mail etc set up within the company. If the company was to get the internet then they could expand further and gain more business, by creating a website. The website could offer information on the club, registration for new members and also have a section for the shop and restaurant to take orders and bookings and show the range offered by both. Each office should have its own Printer so not to disturb others when printing.

All the computers should be updated regularly as updates for operating systems and programs are constantly being developed these updates can sometimes prove vital, making the system run stability and fixing any bugs and security flaws within the software.

## **Security**

There should be a firewall installed on the network so that hackers cannot access the computers (Network) and have Antivirus software set up on each PC which is updated regally (Suggested Daily) So that the system stays virus free and problem free.

A password and user name should be assigned to each computer and given only to the member of staff using it so that the information contained on the computer is kept safe.

## **Training**

Some of the staff cannot use certain programs contained on the Computers, this is a problem and if not in use the programs are wasting space. I suggest that each member of staff goes on a training course that shows them how to use all the software and how to maintain there computers, this will be beneficial in the long run as staff will be able to do other things than word process! Including make banners, Website design and more.

## **Budget**

The manager of Whiteman's Leisure Centre has applied for an ICT Business grant of £50,000 However not all of this will be used so can be applied to other aspects of the business.

## **Conclusion**

These updates to the ICT department will be very beneficial to the company enabling them to run more advance applications, there computers will be faster and much more reliable and having a printer each will enable them to get on with there work rather than disturbing others or being disturbed just to get something printed.

There are not many drawbacks in this system except It will take time to implement the system meaning the company will be without an ICT System temporarily, and some of the hardware/software will not be used until staff are trained which will take some time however when this is done the system will be much more efficient than the previous system.

Going online also leaves them vulnerable to hacking however with the security measures I have suggested this is a very minimal threat the only other problem is cash if they do not receive the grant. In the long run I feel that the cost will finances will increase, because it is more organised and should be easier to use thus appointments shouldn't be forgotten!