

a)	One advantage of the computerized system at UMC is that data
	can be stored, organised, modified, added, deleted and arcessed
	easity, reducing time, money and space required by the organisation.
	A computerised system allows data to be stored in a much
	Smaller physical space than a paper-based system, and also allows
	multiple backups of patient information in case the system
	fails. New patients can be added easily, necords conte seached
	or sorted virtually instantly, and access to the data can be from any
	Computer terminal. A paper-based system does not allow nost of
	these features.
	One disadvantage is the security of the information Am compressed
	system ican be hacked into and confidential data can be stolen especially it interesticess is available. or maliciously modified. A page-based system is also easie to
	A traces of model from the system is also ensure
	keep private and in one place. The main reasons they are often used
	are privacy security and price issues.



A large, direct access storage device is required for UMC. A large data needs to be stored, especially if high-quality images are to be used. However, a storage device such as magnetic take cannot be used for the main database, as instant retrieval of desired information must be possible. A direct storage device Such as a hard drive or magnetized disk allows large orners of data to be Stored and a ceessed grickly, backers pocedines however, can use magnetic & tape. When images need to be displayed in this system, they should be retrieved from the database. Although the database management system used for UMC is most likely to be a relational database system a subset of nuntuanzed system of hypermedia could also be used in the display of images - lq. whe viewing the record of a patient a doctor can click View on image of an x-ray, ultrasound, etc. This nethod of displaying information nears that retrieved from the main database, and hages are it requested to by the doctor. This speeds up the retrieval process and also allows all appropriate images to displayed



receptronist at Unc has a limited view of each database record, and the doctor is given a full view of all the details. The reasons for this are that the receptionist only requires a restricted view because he she only needs information regarding names, non medical details such as address, and appointment - details. If more information was included that was not required, the reception, it hard have to mentally sout through the data to find the desired relevant information. Additionally the doctor has a full database view because he needs all the information to assist with treatment of the patient. Also, there is an Bone of privacy. Poctors must legally keep medical information regarding patrents confidential. As the receptionist is not qualified in treating patients or analysing medical problems, he Ishe does not gain access to the data. For the more, the reception ot's view of the database ghows many records at once, while the doctor can viewarly one this is because the receptionist deals with none than one person at a time, and the doctor does not