(a) Advantage of this system over a paper-based system is that records can be sorted, search and retrieved a lot more quickly than paper records can be.

A disadvantage is that retrieving images via a computer system can be slower than retrieving it via a paper system.

(b) Storage of images would take up large amount of space on the system's harddrive, limiting th number of images that could be stored. The ima could be compressed to overcome this. Large files like images take a long time to b retrieved. Once they are displayed, the image may appear unclear, aliasing may occur and be poor quality. This depends on the resoluti of the screen and bit depth of the image. A lossy compressed image may produce a lower quality display of the image.

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(C) The doctor needs to have access to more information such as patient medical history to allow them to diagnose and treat a patient and enter this data into the database. The receptionist only needs to know appointment details to carry out their duties. This hierarchial setup protects the patients privacy so only the doctor knows their medical details.