(a) (i) LCD stands for Liquid crystal display. A light is reflected in between 2 polarising thin sheets of material behind the screen which creates the pixels to turn on the screen. It is very light and thin. It produces no heat, no glare and also no radiation. It is commonly used in portable computers and now in the emerging technology of flat screen TV. However it's picture and display qualtiy is not as good as CRT.

CRT (catholero ray tube), traditional TV screen made with glass as the display, very heavy. It uses a technology known as raster scan, which fires beams of electron onto the back of the screen cause the screen to produce the images. The colour is at full spectrum and the qualtiy is very good. However they
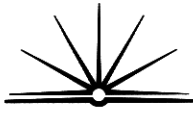
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takes up a lot of physical space and very heavy. But still commonly used. LCD is becomeing to overtake CRT screen because of their advanteges.

(ii). ~~Path~~

Cell - base animation involves creating and displaying individual cells or frames of an animation. Each frame is unique, the first frame is displayed by bits in memory while the second frame is being created in another screen. This form of animation requires a fast processor as well as a lot of RAM and ROM to store each different cells. Therefore it is not efficient and effective to be use for an multimedia presentation.
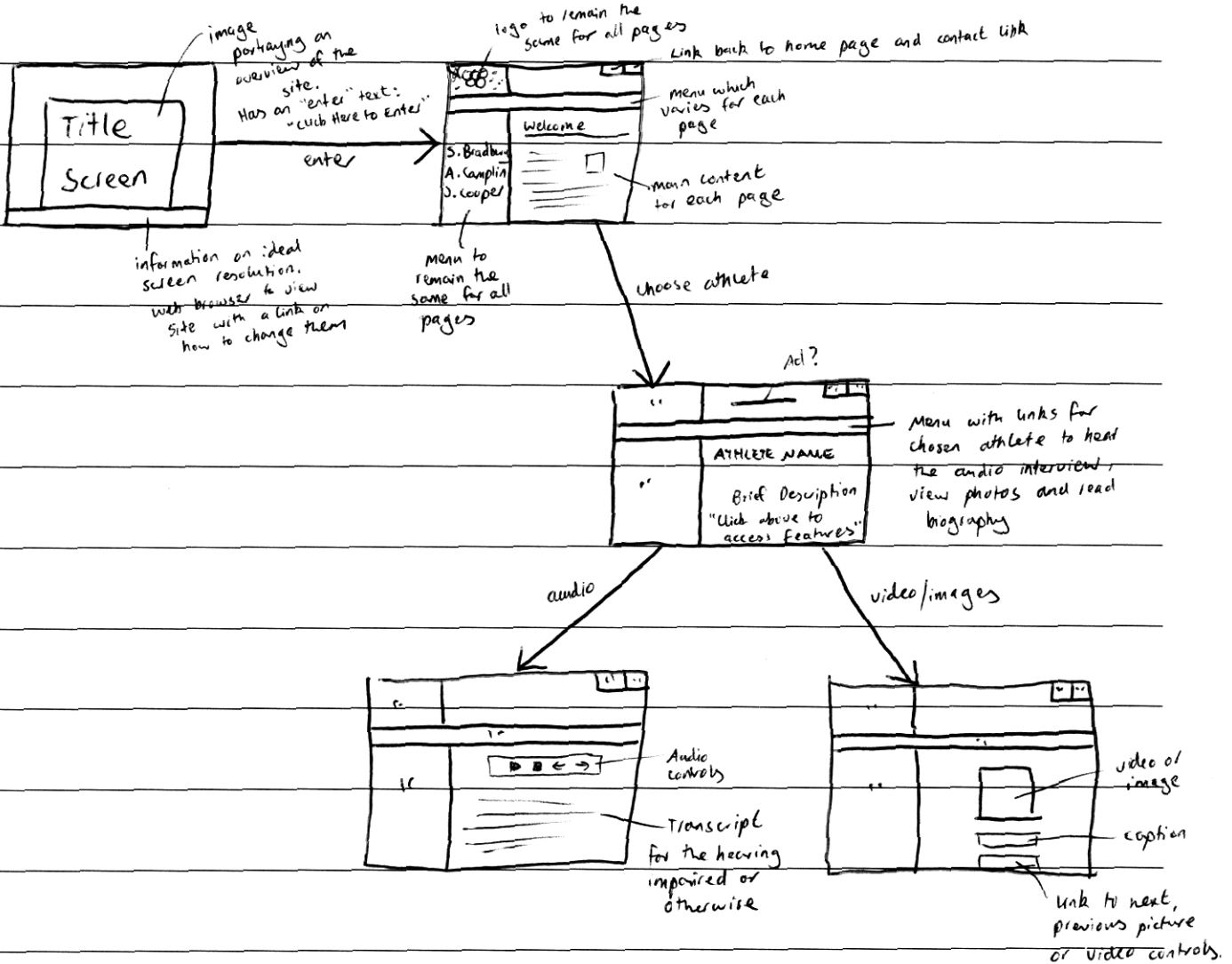
Path - both animation uses tweening to allow the object to move using some complicated mathematical algorithm and patters. Only the first and last frames has to be

drawn. Then the object is moving along the pre-design path to move. An eg. of this can be seen in 'Macropedia Flash'. These saves time in Creating each frame as well as the storage area and the demand and processing speed of the computer. Better!

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b)

i) website, therefore non-linear or combination storyboard.

image portraying an overview of the site. Has an "enter" text: "click Here to Enter"

logo to remain the same for all pages

Link back to home page and contact link

menu which varies for each page

Welcome

S. Bradbury
A. Camplin
J. cooper

main content for each page

enter

Title Screen

information on ideal screen resolution. with browser to view site with a link on how to change them

menu to remain the same for all pages

choose athlete

Act?

ATHLETE NAME

Brief Description "Click above to access features"

Menu with links for chosen athlete to hear the audio interview, view photos and read biography

audio

video/images

Audio controls

Transcript for the hearing impaired or otherwise

video or image

caption

Link to next, previous picture or video controls.

Considerations:

CONSISTENCY → • Navigation : easy and constant with clear links.

• Design : Constant to facilitate ease-of-use

• Text : Should be larger than a word document. Easy to understand

• Images : Don't use too many as can draw

away from the information.

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ii) To calculate :

File Size =

$$\frac{\text{Horizontal Pixels} \times \text{Vertical Pixels} \times \text{Bit Depth}}{8 \times 1024 \text{ bytes}}$$

$$= x \text{ Kb.}$$

for this photo :

Horizontal Pixels : 600

Vertical Pixels : 400

Bit Depth : $2^{(4)}$ = 16 colours

∴ Bit Depth = 4

∴ File Size = $\dfrac{600 \times 400 \times 4}{8 \times 1024}$

$$= x \text{ Kb}$$

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(C). Collecting : data is collected by fax,
email and post. Pictures received
via post and fax has to be
scanned and digitised inorder to be
processed by the computer. Here a
scanner is required to collect images.
The Text information on received on
paper form can be either scan to

the computer using OCR for easy and quick input of text onto a word processor or they can be manually typed by the data entry operator using a keyboard. The advertisement received through email can be directly used without the necessary conversion as they have already been digitalised.

For organising. These collected images and texts or have to be arranged into consistent format and file size to be published on to the websites. Photographs and scanned images should all change to JPEG format as they are the most common form used on the net and they take up less room so they are fast to load when some wants to access them. Text is edited and stored in universal ASCII format which converted into HTML for display. The operator then checks for the spellings and make sure they are right.

In the process of displaying. A high level of interactivity is necessary for the users to browser whatever they are interested since these advertisement is arranged into categories. To enable them to find what they want easily, a directory should be available which already sorted all the ads into different groups so that the customer can just choose a of group that interests them and the information will be right that. It is a more narrow form of search engine within a site which provide quick access and retrieval of information. They are displayed on screen where the users is able to choose their form of display. When a customer found what they want. They are print that particular ad as a hardcopy using a printer. hardcopy printouts are also another form of display.

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Since the majority of users of the website uses dialup internet connection. The loading time of the advertisements should be too long, to achieve this, the designer of the page can reduce the size of the images so that the loading time can also reduce. Also the layout of every webpage should be consistence, simple and the motivation is also important.