ASSIGNMENT 1, SUBMISSION 1 – CMPU4063

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1. **Design (20%) – SUBMISSION 1**
    a. Outline the guidelines that you have used to design your prototype. (at least three discussed with respect to your website, with screenshots included highlighting how these concepts have been included)
        i. Mental models
        ii. Metaphors
        iii. Gestalt laws
        iv. Miller's chunking
        v. Automatic processing
        vi. Learning theories
        vii. Nielsen's heuristics
        viii. ….or any other cognitive theories/interface guidelines that you are aware of
    b. Create a *wireframe* of the website.
    c. Create a comprehensive **paper prototype** of your website (a storyboard, or screen prototypes of your website …), for three sizes e.g., iPhone, iPad and Macbook.
    d. Create a *grid* of the website. State whether you are using a grid framework to build your website. Justify your decision.**

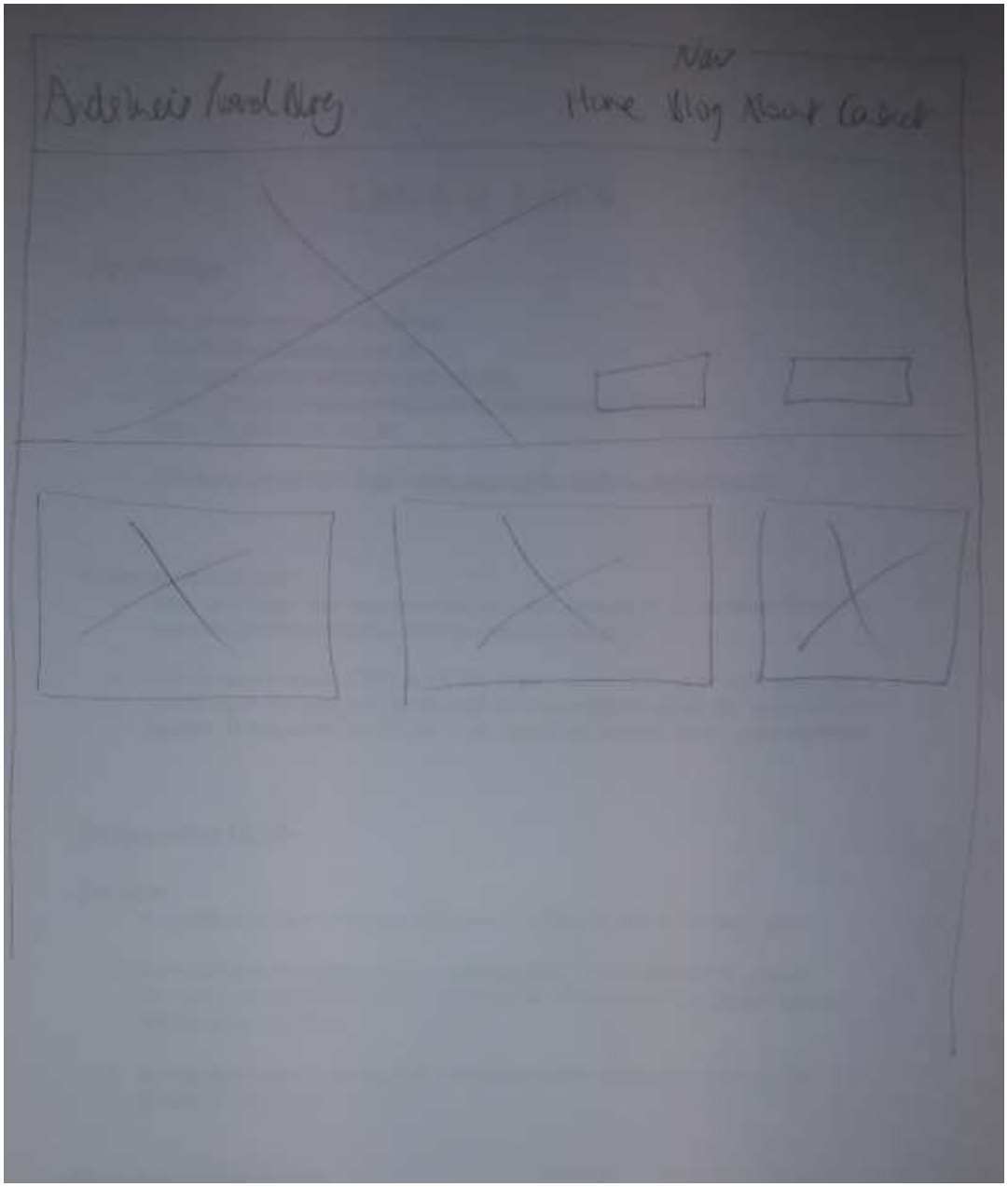
Word Count: 1515

1 INTRODUCTION

I have chosen to design a travel website for Andalucia, Spain which I recently visited. This website will endeavour to outline several of my recommended destinations in Andalucia offer tips and….including my own photos and experiences

Blog?

2 WIREFRAME (1b)



3 PAPER PROTOTYPE (1c)

4 DESIGN GUIDELINES (1a)

I have included the following guidelines to design the prototype:

ii. Metaphors

iii. Gestalt Laws

iv. Millers' chunking

Chunking helps to aid cognitive overload of the user.

George Miller's tactic of chunking is effective at presenting copious amounts of content in a manageable way. It's the skill of grouping data to make it easy to remember. Chunking, or clustering, is the function of grouping information together related by perceptual features. This is a form of semantic relation, such as types of fruit, parts of speech, or 1980s fashion. Chunking allows the brain to increase the channel capacity of the short term memory; however, each chunk must be meaningful to the individual.

5 GRID (1d)

I have chosen to use CSS Grid in order to display the website, as opposed to a Grid Framework such as Bootstrap. CSS Grid is a relatively new CSS Layout is an inbuilt functionality within CSS. There are several advantages to using CSS Grid by comparison to Bootstrap, which is based on Flexbox. CSS Grid sees things in two dimensions, rows and columns, whereas Flexbox sees rows only. CSS Grid allows rows and columns to be defined in the CSS as opposed to the markup which means a lot less code in the html when using CSS Grid. Bootstrap is designed based on 12 columns which allows for many divisions, however CSS Grid does not limit or define columns and they can be designed as required. In addition, Bootstrap has to be downloaded by users and CSS Grid is provided as an inbuilt functionality. It is not necessary to amend the html markup in order to allow for responsiveness in a website with CSS Grid as this can be done via media queries in the CSS. Moving the order of divs is also very flexible with CSS Grid and can be done with very little code. However, there still is a place for Flexbox and I still plan to use flexbox when required throughout the layout which I will discuss in the final report, but the overall layout will be primarily based on CSS Grid.

6 CONCLUSION