STREAM 2 PROJECT

This doc is to show the thought that has gone into the site design and the structured way in which the design/experience and manual testing has been approached. This may seem overkill for such a small site, but it serves as an illustration of awareness that a structured approach needs to be taken with Web Development projects, and demonstrate my ability to step through one of those approaches and apply it to a real life example.

Site:

The idea behind this site was for it to be a portfolio site through which I could demonstrate competency in Web Development skills to a future employers, showing I could incorporate database functionality to produce a useful and highly responsive data driven front Web Site. The website has a dual purpose of being a piece of graded project work an as such I had to be aware that there were two distinct primary audiences it was addressing.

Users

ACTOR & GOAL

- **Football Fan**: Browses website looking to drill down into football transfer data.

USER ROLE

- **Potential Client:** Looks at site for clear information and different ways of splitting to data to produce insight into it.
- **Exam Assessor:** Assesses site against course grading criteria.

USER PROFILE

- **Users:** 5-10 fans/assessors visit this website monthly
- **Activities:** Browsing
- **Computer Skills:** Basic to expert
- **Domain expertise:** Typical users (clients/assessors) will have used websites before although perhaps football fans may not have used DC.js graphs before.

PERSONA

Due to the limited scope of this site, specific personas have not been developed but this has been kept in to acknowledge that it is a part of the development process that should be considered.

User Experience

Strategy:
Business/Website goals drive who is going to use it and where it is going to be used, it is this that develops strategy.

Website Goals:
To show my competency in developing a basis websites to future employers

To show my competency to the examination board (via their marking criteria).

To show/explain good practice has been followed, such as:

- **Design**
  - Garrets Elements of UX Stack
  - Usability Heuristics (where applicable)

- **Coding:**
  - W3C HTML/CSS compliant
  - Cross browser compatibility (HTML/CSS/JS)
  - Semantic MarkUp
  - Modular Coding
  - Scripts at bottom of body
  - External CSS/JS and JS in scripts folder

To showcase ability to create an interactive dashboard using D3.js, Crossfilter and DC.js

To showcase my ability to use Flask.

To showcase one of my interests football, especially my amazement at how much money is involved!

Who is going to be using it?
Exam board (for Certificate)
Prospective/Future free portfolio builders (charities or good causes)
Prospective/Future Employers
Football fans

Where will it be used?

- **Mobile phone** – *Friends/Family, viewing in social context with them, exam board for assessment purposes (i.e mobile friendly design).*
- **Tablet** – *Friends/Family viewing in home context, some employers might use tablets for profile/portfolio browsing, exam board for assessment purposes (i.e tablet friendly design) and potentially charities for portfolio review.*
- **Laptop/Desktop** – *Employers for profile/portfolio browsing, charities for portfolio review, exam board for assessment purposes, possibly friends/family for home viewing.*

User task-centric Scope:
What tasks will the users want to be able to do?

- They will want to understand what the data is showing

- They will want to see information clearly laid out in a logical manner
- They will want to be able to interact with the data and see the impact of applying the different filters.
- Browse
    - Navigate Site (no need, too small for breadcrumb or site map)

Structure:
The structure of the site was clear as it is of such small size.

Skeleton:
The page skeletons were wireframed in LibreOffice Impress

Surface:
This can be seen as you browse the site

Manual Testing

Also point out that have used sublime auto-updater to manage vendor prefixes, and the auto-updater gets its info from the caniuse database

Functionality Testing:

- **Test all internal links.**
  - Home, Data and About
- **Test all external links** (About page)**.**
  - D3js.org, crossfilter, flask, transfer league, dc.js
- **Data Page**
  - Check data is fed into all charts
  - Check filter on one chart results in correct change in others
  - Check individual chart resets work for individual chart, plus all other charts
  - Check main filter button resets all charts
  - Check that Most expensive transfers table is ordered by fee
  - Check total transfer spend is in correct units (and correct value)

- **Validating your HTML: https://validator.w3.org/**
  - HomePage:
  - Data Page:
  - About Page:

Compatibility Testing:

Browser compatibility

- Firefox
- Chrome
- IE
- Safari

Operating system compatibility

- Win10
- macOS

Responsiveness

Physical Devices:

- Tablet (iPad and Android)
- Laptop (Windows)
- Desktop (macOS)

Software Simulations (simulating an array of different device types/sizes):

- Device Toolbar (Within Google Chrome's web developer tools).
- Responsive Design Mode (Within FireFox web developer tools)