**Higher Diploma in Computing – Part-Time 2014**

**Semester 3**

**Course Module: Software Engineering for Web Applications**

**(**HDC-SEWA)

**Main Assignment – ER Diagram**

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Introduction

GFC-Stats.com is happy to present the first version of a new dynamic website with a lot of potential. Having reviewed current offerings on the web in relation to statistics available on various sports a perceived gap exists in the market for a site targeted at sportspeople on which they can record and compare their performance in both training and matches against their peers and competitors.

An interactive website prototype has been developed initially designed for GAA football players but with scope to translate to other sports. Users are able to record data relating to their daily training and match activities under a number of criteria onto a database that will allow them compare key aspects of their training and performances against others in their field. This comparison will be displayed by way of graphs and tables making it clear where more effort is needed and where they compare favourably to their competition.

*Note: Initial data utilised for comparison purposes is partly fictitious and used for the purposes of the draft design.*

Design Layout

Our understanding on the design layout is that we are to develop the site using HTML, PHP, CSS, Java Script and MySQL. Thus tools such a Bootstrap and JQUERY as well as more formalised functions have not been used in site design or development. These limitations refined certain aspirations we had on the functionality of the site and how we would like it to present. Thus while researching the design options we found that the majority of the more popular sites tend to create a customised format though shades of grey appear to be more popular for physical training sites. In an effort to keep the site crisp and clear we decided to use these base-colour attributes on our site.

For the prototype we have included 4 key pages.

1. A Home page which explains the reason for and benefits of the site.
2. An About us page which explains the details of the project in question, the people behind it and also explains how the site works for interested users and the likely outcomes they can achieve.
3. Contact us page gives details of how to make contact with us through the various media and a location map of where to find us. We have also included and enquiry form here where users can submit specific enquires via email.
4. Profile - Analysis pages, where the user can actually start to interact with the site and review their data. To do this they must first register and login into the system.

Registration

This is a short form that each user must fill out which includes details to input for their profile. Once registered, the data inputted is recorded in our supporting database and they can then login to enter the Analysis section and begin to use the site.

Profile - Analysis

The user can input their training data for each session (be it with their Club, County, or on a Personal basis) and their match data for each match played (again be it with their Club, County, etc.). Once they have done this they will be able to compare their performance against the data per other players in the database. Ideally we would like this analysis to develop further to capture more information but initially we wanted to keep the time needed inputting data to a minimum so kept the forms short yet useful. Creating future links to download data from some of the tools available on the market would allow greater input and more relevant results. This was not considered as core functionality at this time.

Assumptions

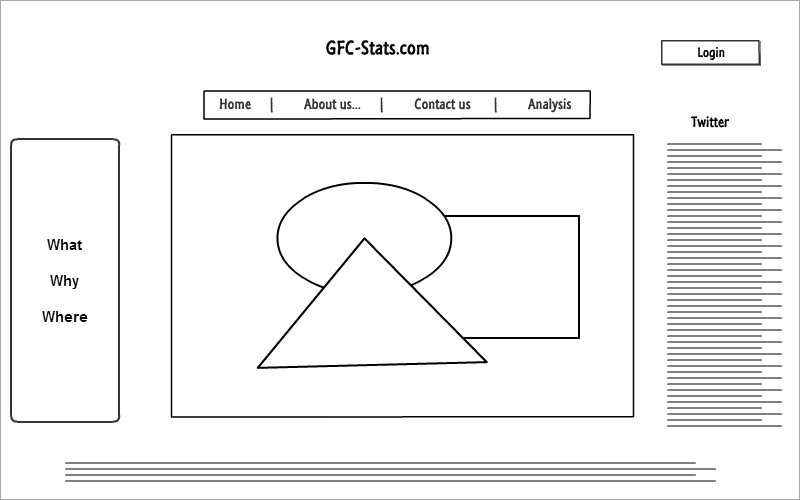
We initially populated the database with player data from a number of inter-county players to create a base from which to compare inputs. Although the specific data isn’t accurate it correlates with the targets and schedules of best practice in the sport.

Site Map Diagram:

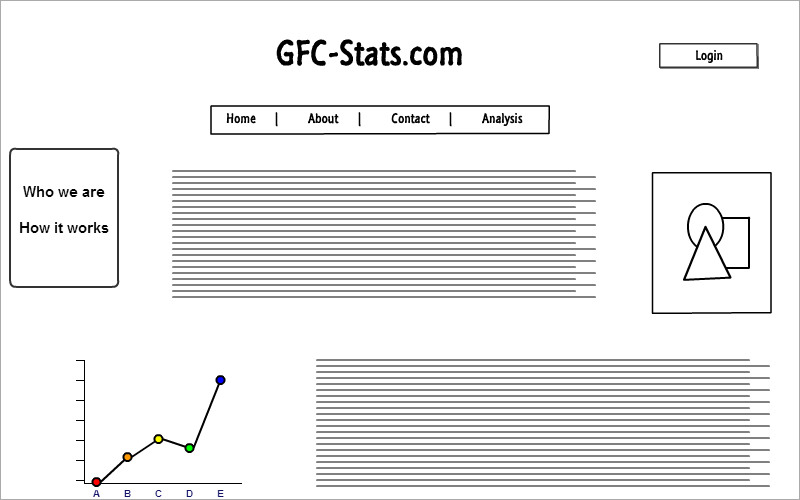
Below is a breakdown of the site map.

Wireframe Diagram:

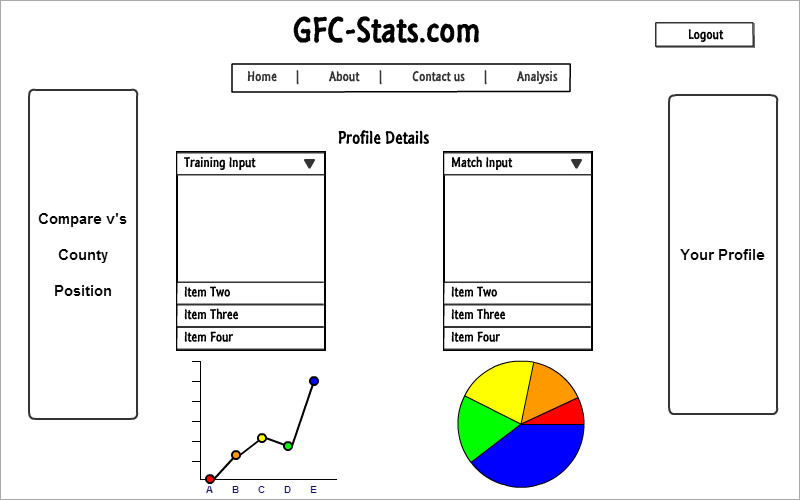
Home Page



About us



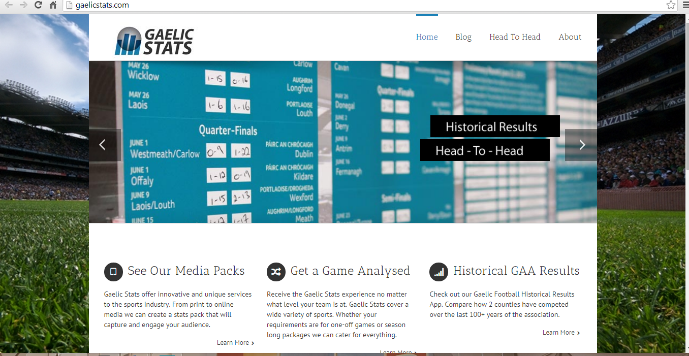
Profile - Analysis Page

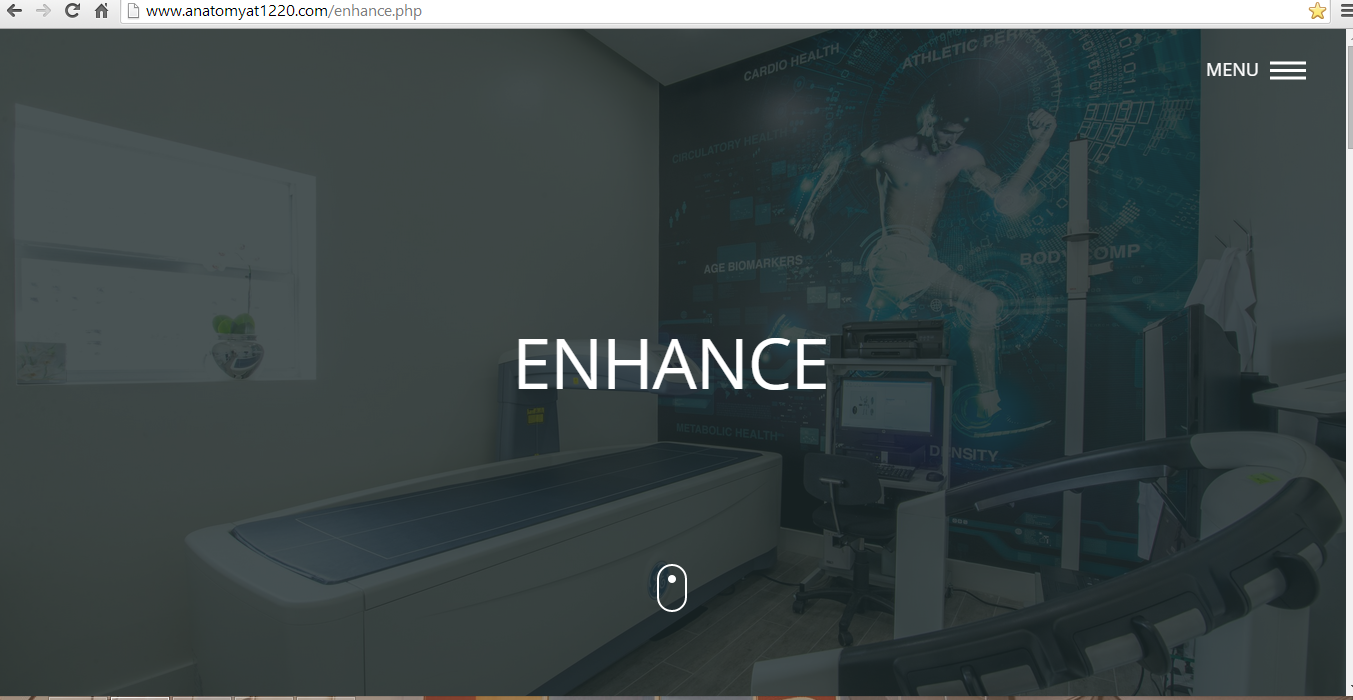


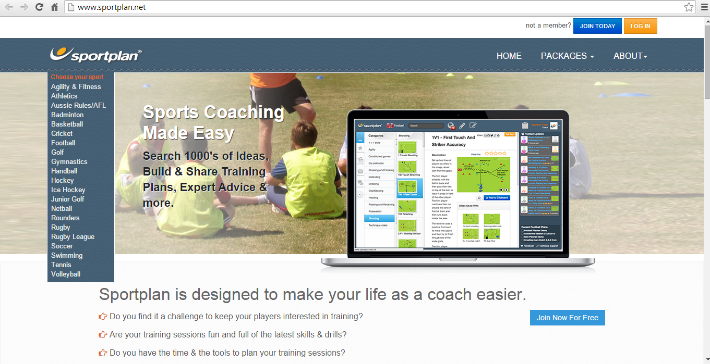
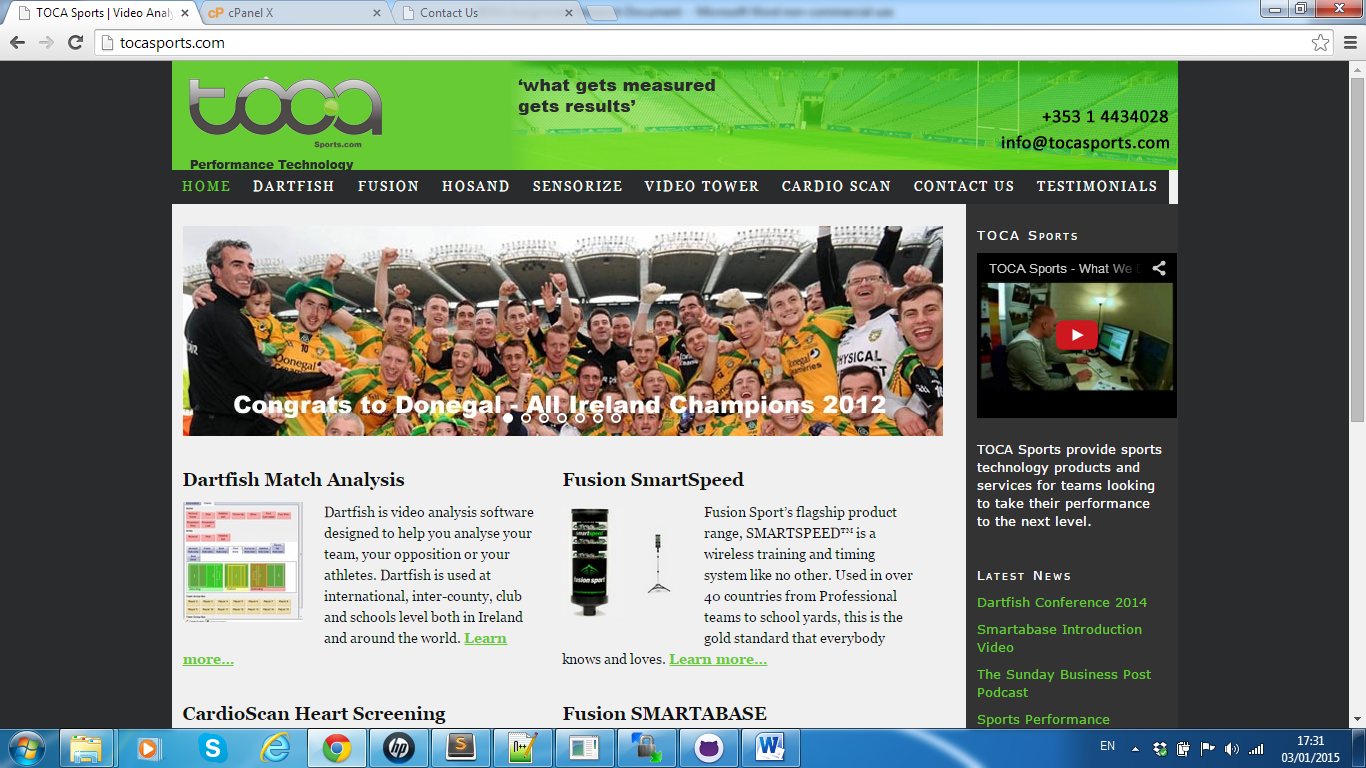
**Research Sites**

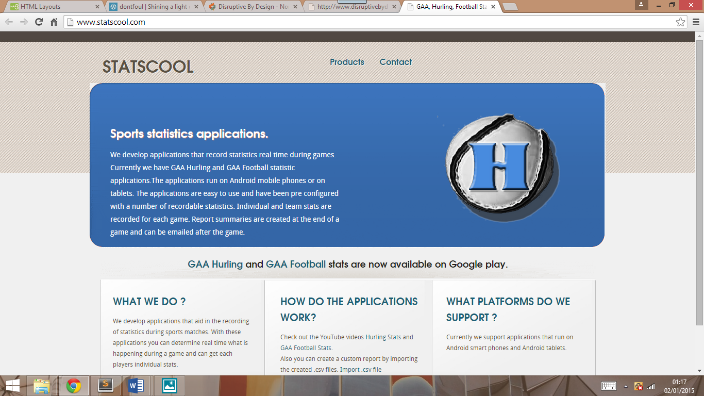
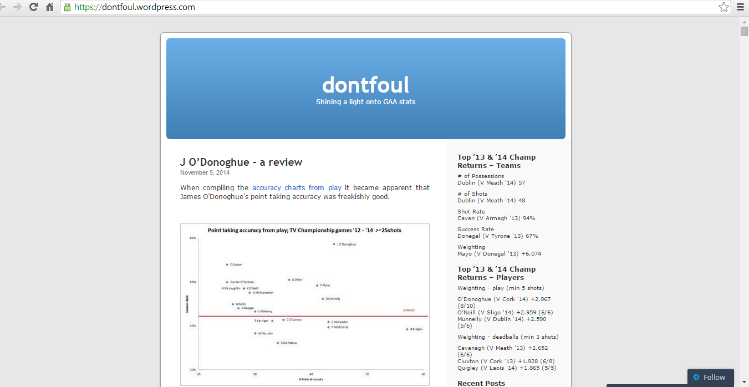
As part of the design and development of the Site concept, review and consideration were given to a number of similar sites currently on the Internet. The design implementations were therefore based on the functionality, CSS style, colour-schemes and access restrictions of a number of common and little know websites. In particular, the following sites should be noted:

* [www.jscharts.com/](http://www.jscharts.com/) – JS Charts functionality used in the Site
* [www.wikipedia.org](http://www.wikipedia.org) – used for Data input and Profile-Analysis Design
* <http://www.anatomyat1220.com/>
* <http://gaelicstats.com/>
* <http://www.sportplan.net/>
* <http://tocasports.com/>
* <http://www.statscool.com/>
* <https://dontfoul.wordpress.com/>
* [www.w3schools.com](http://www.w3schools.com) – used for CSS and Form functionality
* <https://developers.google.com/maps> – Google Maps API used in the Site





**Read-Me:**

For the benefit of prospective users, a ReadMe.txt file for more detailed granular information and process steps is available as part of our documentations. This will provided some guidance and directions for users new to the Site design on how to use / access the different pages, functionality and interfaces of the Website design.