B8IT121 CA Assignment

**ASP.NET Web Application – Dingle Running Festival**

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## Web Application Overview

### Introduction

The objective of this CA project is to design and implement an interactive web application for a fictitious event namely the Dingle Running Marathon Festival. This web application is based on the real Dingle Marathon Event which is held every year around the Dingle Peninsula.

### Application Idea

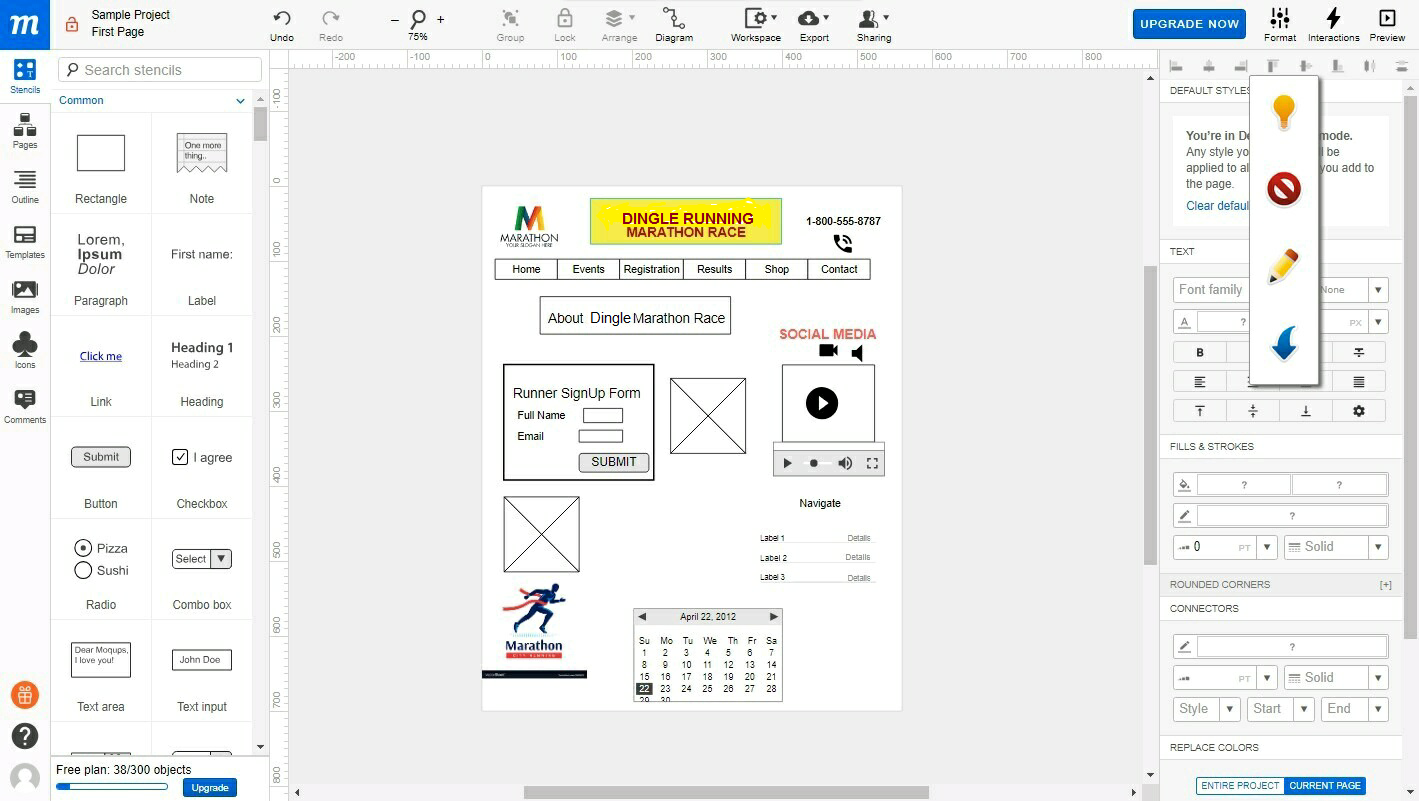
The Dingle Running Festival web application should exhibit the following features

### Target Audience

This web application directs all people interested in participating in the Dingle Running Marathon Festival on September 29th 2019. It is open for registration for all people living in Ireland but there are some rules for entry which are outlined in the terms & conditions. This running event is quite popular as the marathon path scenery around the Dingle Peninsula is spectacular.

### Structural Diagram

This structural diagram represents the timeframe for the project which is the skeleton of the web application.



### Technologies Used

There have been several technologies used for this project such as the following

Web Site Design was completed with HTML5 & CSS

For the design of models, controllers and views, ASP.NET MVC was used

C# was used throughout this project for the construction of classes whereas SQL Server was used to construct the tables

### Strengths and Weaknesses

Our group has developed this web application for the Dingle Running Marathon Event and here is an outline of the strengths and weaknesses

**Strengths**

* **Instant Immediate Accessibility** As all web applications, there is no need to download it from a Store but instead they are accessible anytime from the cloud with the use of a client browser.
* **Easy to maintain** The code is the same across all platforms so it is easy to maintain
* **Fast update** When there is a need to apply updates, the developer will make the new changes on the cloud platform online and such new data will replace the old version. Thus by just by clicking on the web application url address, it will display the updated new version
* **No need for Store permission/approval** All web applications including the Dingle Marathon Festival is can be released anytime the develop wants
* **Compatible with old devices**

**Weaknesses**

* **Costly to maintain**
* **Not listed on the App Store** It is difficult to find them because they are not listed in a centralized store location

## Back End

### Database Design (ERD)

The Database Design (ERD) includes the following tables:

### XML

The XML database is native as there is no need for high performance results with use of memory resources

### Testing

Some text…

## Front End

### Visual Design

Some text…

### Search Engine Optimisation

SEO (Search Engine Optimization) is important as this would bring up this web site at the first page of the search engine results. Our group used key word terms for this project such as ‘marathon’, ‘running’, ‘5K’, ‘10K’ which are generic for any marathon web site. But for the scope of this project, our group used specific terms for the Dingle Running Festival. Specifically this marathon event is situated around the Dingle Peninsula so sightseeing local attractions such as “Dingle Peninsula”, “Dingle Bay”, “Slea Head” and “Dunmore Head” have been used. Thus visitors can search by such terms in order to find more information and then browse through the web app to get registered.

### Testing

Some text…

#### Browsers Used

The Dingle Running Marathon web application is operational on a number of different browsers such as Mozilla Firefox, Microsoft IE, Apple Safari, Google Chrome and Opera.

## Bibliography

**There are no sources in the current document.**

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