



# Internet Technologies

WEEK 3 CW2 APPLICATION SCENARIO

# Scenario

- ▶ Your employer is a software house that has been invited to submit a tender for the provision of web services to support a cultural festival.
- ▶ We are required to survey the likely requirements of the target event to develop an approach which can work for several festivals.
- ▶ These features should be specified and may be demonstrated as proof of concept

# Scenario

- ▶ In addition we are asked to suggest customisations which would be appropriate to specialist competition themes.
- ▶ You are asked to specify the apps design and functionality and discuss the web technologies used to implement the app
- ▶ The final report should be a technical document which adheres to the following structure:

# Report structure

- ▶ Table of Contents
- ▶ **Introduction**
- ▶ **Overview**
  - ▶ Background
  - ▶ Core Functions
  - ▶ Advanced Functions
  - ▶ Data Protection
- ▶ **Implementation**
  - ▶ User Interface
  - ▶ Technology Stack
  - ▶ Data Organisation
- ▶ **Hosting**
  - ▶ Services
  - ▶ Scalability
  - ▶ Tracking and Statistics
- ▶ **Conclusions**
- ▶ **References**

# Introduction

- ▶ Write this section last.
- ▶ Describe the problem
- ▶ Restate the scenario with details of ***your selected cultural festival theme***
- ▶ Give some background surrounding the scenario
- ▶ Demonstrate knowledge of the clients requirements
- ▶ Highlight key points of your proposal



# MARYMASS

FESTIVAL

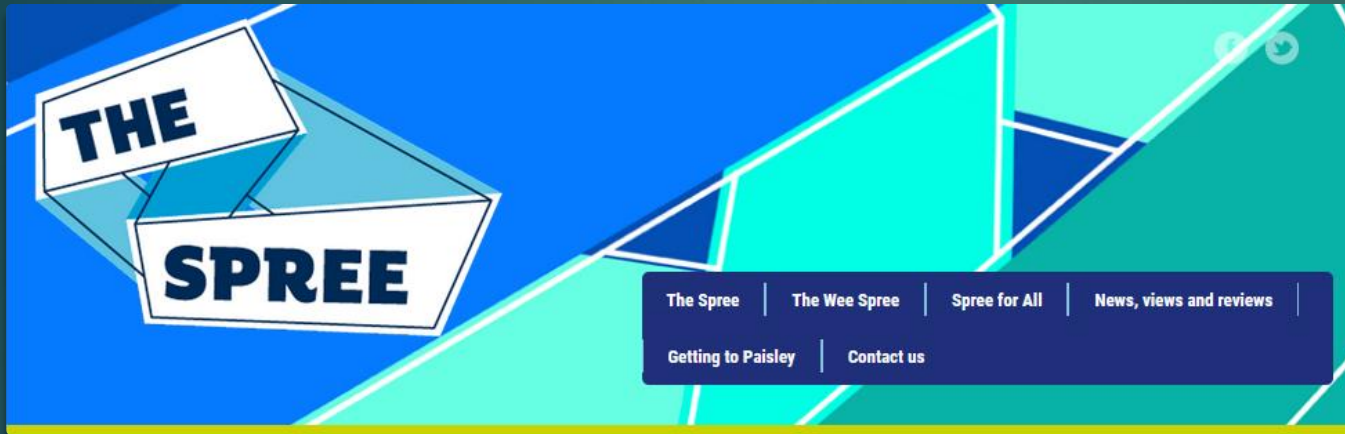
~ IRVINE ~

**11th - 22nd August 2022**

Marymass is a traditional horse festival held every August in Irvine. Mixing traditional with modern, our 12 days of festivities means there is something for everyone! From horse racing to fireworks, funfair, dog show, live music and so much more

## Community

<https://www.marymass.com/>



# Council Festival

[HTTPS://WWW.THESPREE.CO.UK/](https://www.thespree.co.uk/)



# Film Festival

[HTTPS://GLASGOWFILM.ORG  
/GLASGOW-FILM-FESTIVAL](https://glasgowfilm.org/glasgow-film-festival)





# GLASGOW'S WHISKY FESTIVAL

Bringing Scotland's national drink to Scotland's national stadium.

## Whiskey Festival

[HTTPS://GLASGOWSWISKYFESTIVAL.COM/2020-2/](https://glasgowswiskyfestival.com/2020-2/)



**GLASGOW**  
INTERNATIONAL  
COMEDY FESTIVAL

15 MARCH-  
2 APRIL 2023

**GICF 2023 DATES**  
**15TH MARCH TO 2ND APRIL**  
**SEE YOU THEN!**

# Comedy Festival

[HTTPS://GLASGOWCOMEDY  
FESTIVAL.COM/](https://glasgowcomedyfestival.com/)



Thanks to everyone  
who helped us  
celebrate the Fringe's  
75th anniversary.

Next year's Edinburgh Festival Fringe will  
run from 04 – 28 August 2023.

READ MORE ABOUT FRINGE 2022 →

REVISIT YOUR FAVOURITE #FRINGEMOMENTS →

# Edinburgh Fringe

<https://www.edfringe.com/>

# Overview: Background

- ▶ Review the data sources your app will use
  - Public, Private, Licenced
  - APIs
  - User input
  - (need to come back here when functions are decided)
- ▶ Review features of **competitive products** picking out common core features and useful advanced features



## Festival app

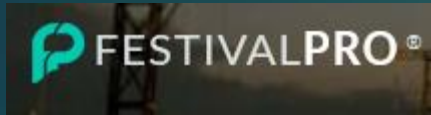
Eventbase powers the best festival apps for the world's premiere festivals including South By SouthWest (SXSW). Let us elevate your fan experience with a memorable mobile experience.



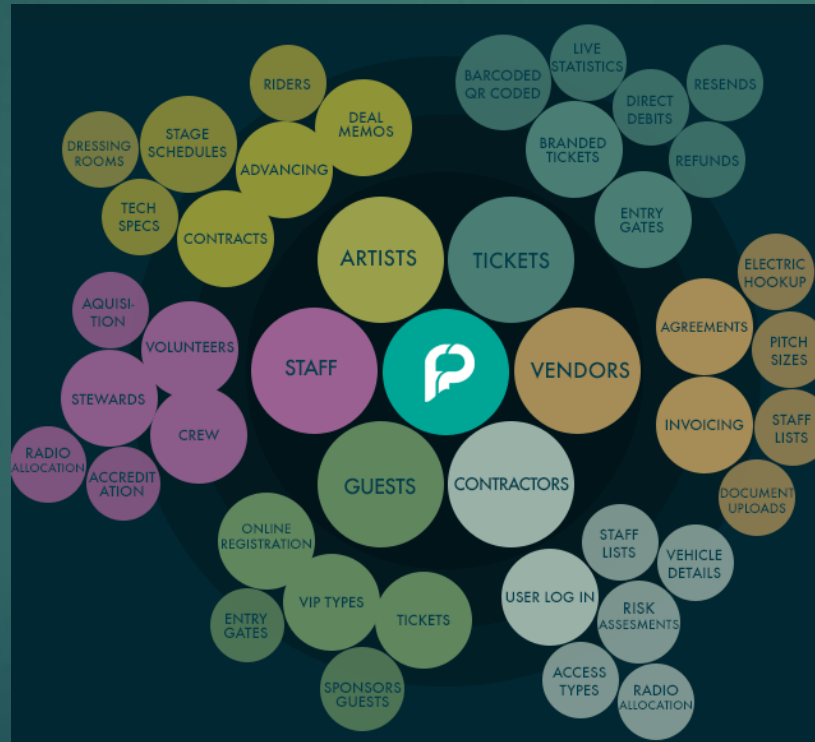
# Review Competitive Products

## Eventbase

<https://www.eventbase.com/festival-app>



Not just music festivals mind you! Our software can be used by all sorts of events such as Food Festivals, Literary Events, Multi Centered Events, Beer Festivals, Conferences, Exhibitions and more.



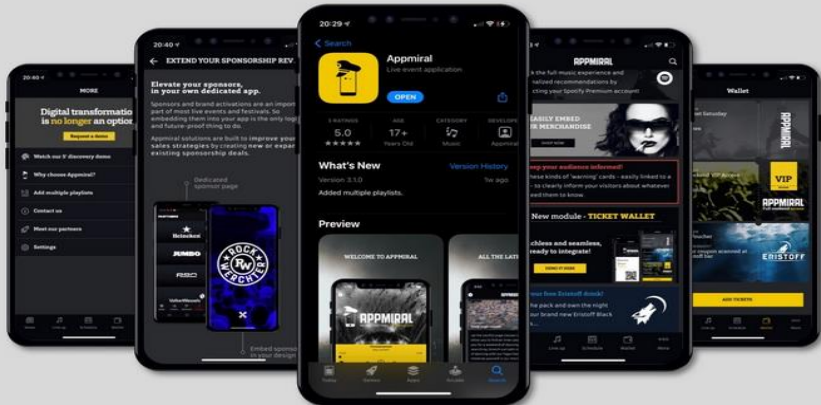
# Review Competitive Products

## Festival Pro

<https://www.festivalpro.com/>

APPMIRAL

Prod



Product ▾ Customers ▾ Pricing Resources ▾ Company ▾ [REQUEST A DEMO](#)

## Seeing is believing, no?

We've created a demo application to showcase the full power of our solutions.

In it, you'll find lots of interesting content, interactive cards, fake sponsors, and experiments. Download and explore this app and get the perfect product walkthrough of our solution.

[DOWNLOAD DEMO APP](#)[EXPLORE OUR PRICING](#)

# Review Competitive Products

## Appmiral

<https://appmiral.com/>

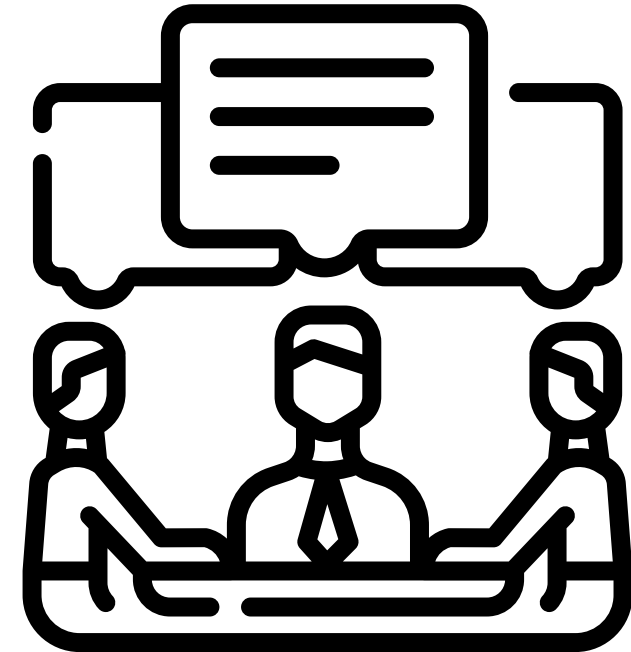
# App core functions and appearance

- ▶ Determine requirements of app
- ▶ Business processes needed
- ▶ What data needed
- ▶ What profile information is required? Where will it be stored?
- ▶ *Review the data sources*
  - ▶ *Public, Private, Licenced*
  - ▶ *APIs*
  - ▶ *User input*
- ▶ Consider integration with existing services
- ▶ Focus onto the services which are essential to the apps function
- ▶ What makes the app relevant/distinctive?
- ▶ Does the proposed app meet the brief?
- ▶ Development time and cost



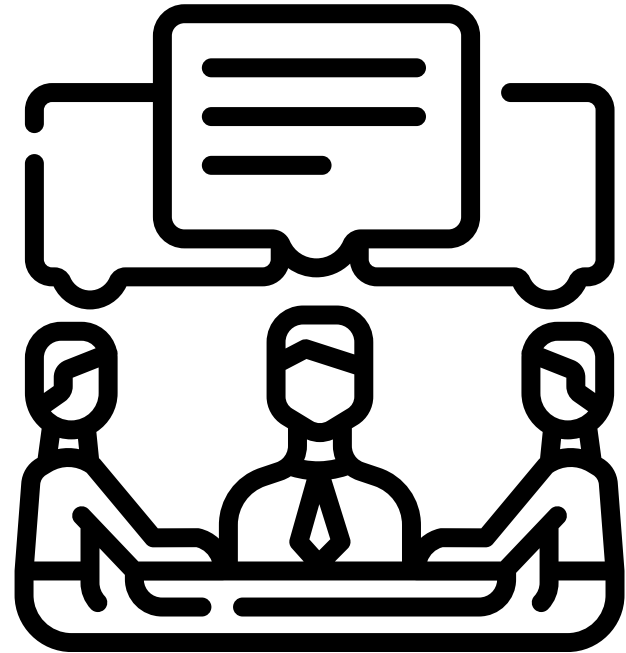
# Common requirements

- ▶ Whats-on
- ▶ Ticketing
- ▶ Location
- ▶ Images
- ▶ Search
- ▶ Event details



# Common requirements

- ▶ Sponsors
- ▶ Exhibitors
- ▶ Advertise for volunteers
- ▶ Accessible User Interface



# Basic Requirements could include

- ▶ Determine requirements of app
  - ▶ Submit festival event details
  - ▶ Display Schedule
  - ▶ Search events
  - ▶ History of event
  - ▶ Photo Gallery
  - ▶ Key people
- ▶ Review the data sources
  - ▶ Public, Private, Licenced
  - ▶ APIs - <https://data.glasgow.gov.uk/>
  - ▶ User input – Apply strict template
  - ▶ Organiser Input - Schedule

## API Directory

### Featured APIs

Facebook  
Yahoo Weather  
Google Maps  
AccuWeather  
Weather Channel  
Wikipedia  
OpenStreetMap  
Instagram

[Add an API](#) ➕[All APIs \(24,689\)](#) »

### Popular Categories

Weather  
Mapping  
Mobile  
Transportation  
Social

[All API Categories \(507\)](#) »

### Filter

By Category  
By Protocol  
Most Recent

## Other Directories

SDKs

[SAMPLE SOURCE CODE](#)[LIBRARIES](#)[FRAMEWORKS](#)[MASHUPS](#)

### Featured SDKs

Fabric Twitter Kit for iOS  
Tweetinvi  
Twitch SDK  
Virtuix Omni

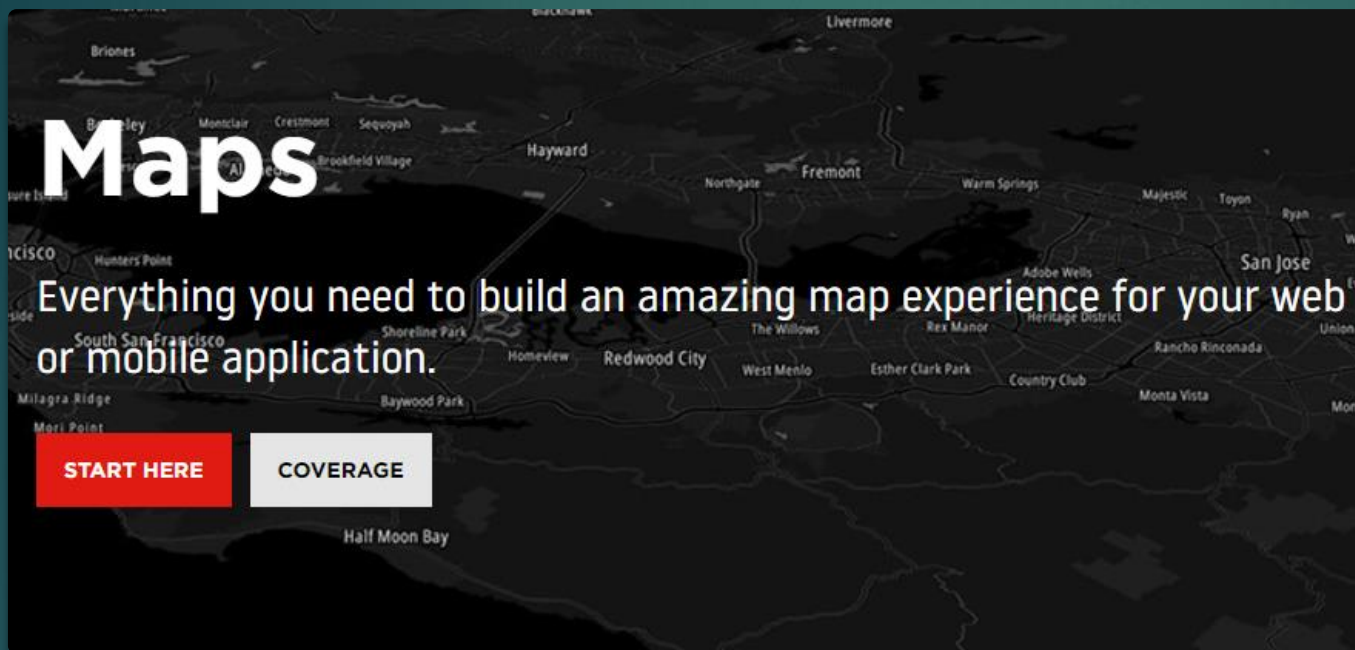
[Add an SDK](#) ➕[All SDKs \(19,454\)](#) »

### Filter

By API  
By Category  
By Platform  
Most Recent

# Consider integration with existing services

[Search | ProgrammableWeb](#)



# Mapping API

<https://developer.tomtom.com/products/maps-api>

# And So on ...

Focus onto the services which are essential to the apps function

Business processes needed

What makes the app relevant/distinctive?

What profile information is required? Where will it be stored?

Does the proposed app meet the brief?

Development time and cost

# Getting Started



IDENTIFY A CULTURAL  
FESTIVAL



DO YOUR RESEARCH



START WRITING OVERVIEW  
SECTION OF PROPOSAL