David Mould (B00417433) and Lea-Line Saad (B01796664)

**Abstract**

The Paisley Highland Games are to be a new SECTION? of the world famous Highland games from Scotland, and the project set out before us is to design and produce a proof of concept site that can be used for the new games but also fit others if necessary.

**Paisley Highland Games PROJECT BRIEF**

INTERNET TECHNOLOGIES COMP 10020

Table of Contents

[Table of Contents 1](#_Toc212147068)

[Table of Figures 2](#_Toc212147069)

[Introduction 3](#_Toc212147070)

[Overview 3](#_Toc212147071)

[Background 3](#_Toc212147072)

[Core Functions 3](#_Toc212147073)

[Advanced Functions 3](#_Toc212147074)

[Data Protection 3](#_Toc212147075)

[Implementation 3](#_Toc212147076)

[User Interface 3](#_Toc212147077)

[Technology Stack 4](#_Toc212147078)

[Data organisation 4](#_Toc212147079)

[Hosting 4](#_Toc212147080)

[Services 4](#_Toc212147081)

[Scalability 4](#_Toc212147082)

[Tracking and statistics 4](#_Toc212147083)

[Conclusions 4](#_Toc212147084)

[References 6](#_Toc212147085)

[Appendix 7](#_Toc212147086)

Table of Figures

**No table of figures entries found.**

Introduction

The Paisley Highland Games are to be a new SECTION? of the world famous Highland games from Scotland, and the project set out before us is to design and produce a proof of concept site that can be used for the new games but also fit others if necessary.

The POC site has to include various features to ensure that the stakeholders are confident in the full functionality being proposed.

Overview

Give an overview of the app function you envisage bearing in mind the following points.

## Background

* Review the data sources your app will use Public, Private, Licenced, APIs, User input
  + **User Input** – Data will be gathered from users to create teams, contenders for those teams, support staff for those teams, and general visitor users.
  + **Public/API** – Google Maps, Maps data and API will be used to provide recommendations to users about nearby accommodations, restaurants, and other amenities.
  + **Private/Licensed/API** (**NOT SURE)** - Depending on recommended ticketing system, usage of their API to show user ticket details through solution will be required.
* Review features of competitive web apps picking out common core features and useful advanced features

## Core Functions

* + Focusing onto the services which are essential to the apps function consider: What makes the proposed app relevant/distinctive?
  + What business processes needed
  + Consider integration with existing services
  + What profile information is required? Where will it be stored?
  + Development time and cost
  + Will the proposed app meet the brief?

## Advanced Functions

* State what features you regard as the basic core of the app which would be essential in an initial launch version of the app. Identify further advanced features which could be developed over a longer timescale after initial launch.
* Planned features to be added after the app has launched
* What group are these for and what value do they add
* How does the app need to change to accommodate these?
* International aspects

## Data Protection

* What features in the app design and implementation will allow it to comply with GDPR?
* GDPR features
* Nature of personal data
* Design for consent
* Users can see their own personal data
* Processing and Deletion of Data
* Data security
* Authentication

Implementation

## User Interface

* Describe the site layout and show some wireframes of typical pages
* Sketch what the apps UI would look like for data entry
* Sketch the verification response to data entry
* Sketch what the apps UI would look like for content display
* Consider the view for all user groups
* Discuss design tools used to mock-up the interface

## Technology Stack

* Describe the technology stack you propose to use for the app. This may be a MERN stack, but you are free to use other technologies, particularly those which you researched in CW1
* What technologies are appropriate to use in the stack and justify a choice Client software
* Servers
* Database
* Storage
* Plug in
* Other

## Data organisation

* Provide an outline of what database tables/collections will be needed.
* What is the schema within these tables?
* What relations exist between tables and fields?
* Diagrams
* How will an API be arranged to access the data? Give some examples.
* What UI forms will generate queries?
* Are queries using SQL, REST or GraphQL?
* Has the design process been supported by mock servers?

## Hosting

### Services

* What services would you propose using to host the app. Describe some of the features of the service and state how costs are calculated.
* Single server (Apache, Nginx, IIS), multiple server, virtual server, platform as a service, load balanced cluster
* Distribution of data
* Consider the benefits of cloud services Compare available services
* Features and costs
* Ease of use

### Scalability

* What factors (in general terms) may affect scalability if usage grows over time? Can your hosting solution handle this?
* What aspects of the app might cause saleability issues over time?
* Number of users
* Amount of data
* Strategies: more servers, microservices
* Cost implications

### Tracking and statistics

* *Briefly* state what features your host may provide for tracking site usage.
* Usage and flow through the site
* What is valid to be tracked and what should not be tracked

Conclusions

All reports must draw conclusions. Yours should say why your approach to the brief is the most appropriate.

References

All references must use Harvard format and be cited in the text following the UWS referencing guide.

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

Appendix