

## JSON Layout QA Document

*Author:* Group 14  
*Config. Ref.:* SE-14-JSON-QA  
*Date:* 31 January 2014  
*Version:* 1.0  
*Status:* Final

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## **1 INTRODUCTION**

### **1.1 Purpose of this Document**

The purpose of this document is to create a useful template for JSON documents. This is required as they are required to match format between web and app to operate correctly.

### **1.2 Scope**

This document will cover the possible fields and values that will be created by the WTC application and sent to the website. The developers of the JSON parts of the application and website are the people who should read this.

Documents relevant to this are SE-14-DESIGN and SE-14-PROJECT.

### **1.3 Objectives**

The Objective of this document is to provide a single way for JSON files and queries to be constructed and interpreted.

## **2 LAYOUT**

### **2.1 Layout Information**

All values are stored as key, value pairs.

Values can be any of:

- Array containing values
- Nested JSON object
- string
- number
- true
- false
- null

All keys are strings and are required.

## 2.2 Example

```
{
  "data" : {
    "walkname" : "Name",
    "shortdescription" : "Short Description",
    "longdescription" : "Long Description",
    "time" : 123455
  },
  "points" : {
    "1" : {
      "latitude" : 52.122,
      "longitude" : -4.333,
      "timestamp" : 12345678,
      "poiflag" : true,
      "poidata" : {
        "locationname" : "varsity",
        "description" : "a good pub",
        "photo" : [ "image_data",
                    "image_data2",
                    "image_data3"
                  ]
      }
    },
    "2" : {
      "latitude" : 52.122,
      "longitude" : -4.333,
      "timestamp" : 12345678,
      "poiflag" : false,
      "poidata" : null
    }
  }
}
```

The first JSON Object contains the walk specific information such as the walk name, short description and long description and the timestamp of duration of the walk in seconds.

The second JSON Object contains contains JSON Objects representing the locations and points of interests.

Each location contains a longitude, latitude and a timestamp of the location. They

also contain a flag indicating whether it is a point of interest as well.

The poidata JSON Object contains the additional information that a point of interest requires such as the location name, location description and an optional array of base64 image data strings.

## DOCUMENT HISTORY

Version	CCF No.	Date	Changes made to Document	Changed by
1.0	N/A	2014-1-28	Initial creation	DAW46