**Database Design Document for:**

Oliver

**Version**: 1.0

**Customer organization**:

Open Source Community

**Development organization**:

Global Pulse Community

**Document Information**

**Revision History:**

|  |  |  |
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| **Revision Date** | **Author** | **Comments** |
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**Approvals:**

|  |  |  |
| --- | --- | --- |
| **Approved by** | **Signature** | **Date** |
| **(technical lead)** |  |  |
| **(project manager)** |  |  |
| **(customer representative)** |  |  |

**Location of signed original:**

**Signed originals will be scanned and added to GitHub**

**Distribution:**

**Document will be distributed to Open Source Community via GitHub.**

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# Introduction

## Document Definition

This document describes the databases used in the Global Pulse platform prototype system (Oliver).

## Document Objectives

This database design document exists to:

* Identify persistent documents, objects and data in the system.
* Help to installing, configuring and maintaining system databases.
* Help to connect code to the database.
* Cross-check the domain object model for the system.

## Intended Audience

The intended audience is open-source developers.

## References

* The document structure was adapted from the database design document published by the Open Process Framework at <http://www.opfro.org/>
* This is part of a cut-down PRINCE2 process framework. We’ve used Nick Graham’s book “[Prince2 for Dummies](http://www.dummies.com/how-to/content/prince2-for-dummies-cheat-sheet-uk-edition.html)” as a reference source on this.
* The system (including any database files) is available from the Global Pulse GitHub area, <https://github.com/global-pulse>/Oliver

## Document Overview

This document is structured as follows:

* Section 2 summarises the set of databases used in this system (for many systems, there is only one database).
* The following sections describe each of the databases used in this system in more detail.
* The appendix contains any project management materials relevant to this set of databases.

# Database Overview

<List the number, purpose, and kinds of databases>

# Database Oliver

## Basic Details

|  |  |
| --- | --- |
| **Name:** | Oliver |
| **Objectives:** | User profile management and a repository of links to user-supplied data and tools. |
| **Kind:** | noSQL |
| **Vendor:** | mongoDB |
| **Deployment:** | Heroku database server |

## Characteristics

|  |  |
| --- | --- |
| **State:** | Newly developed |
| **Internal/external:** | Internal to the system |
| **Location:** | webserver for database software, webserver for data |
| **Expected size and access rate:** |  |
| **Data definition language:** | SQL |
| **Data manipulation language:** | mongoDB |
| **Source of data:** | data entry through webpages |

## Logical Data Model

(i.e., Logical Database Schema)

* Relational Model (e.g., entity relationship attribute (ERA) diagrams, table definitions, stored procedures).
* Object Model (e.g., class diagrams, class specifications).

## Physical Data Model

(i.e., Physical Database Schema)

* Relational Model (e.g., entity relationship attribute (ERA) diagrams, table definitions, stored procedures).
* Object Model (e.g., class diagrams, class specifications).

## Approach to maintenance, backup, and disaster recovery

# Database Facade Design

<Describe the façade here if you’re using one. Otherwise, describe the data models that you’re using to connect to the database>

# Appendices

## Major Issues

## TBDs

## Assumptions