IT Project Guidance - Diagramming

Version:

0.1

## Purpose

TODO

## Synopsis

TODO

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# Purpose and Audience

This document provides a reference document for guiding the development of diagrams to document system design, data flows and interations.

It is primarily for a technical audience.

# Document Background

This work takes place within a broader effort to improve the quality, consistency, and alignment of information systems across organisational and sector boundaries. It responds to the growing need for clearer structures, more robust integration approaches, and a shared language that enables programmes to interoperate without unnecessary duplication or misalignment.

# Context

The method of diagramming vary over purpose.

# Diagram Types

## Boxes and Lines

The most widely understood is ‘boxes and lines’.

## Data Flows

## The primary purpose of iT systems is to automate the change of state of information, and its flow between components and/or systems.

To show that, use a logical data flow diagram (DFD).

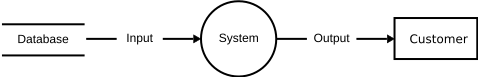


Figure 1: Data Flow Diagram (DFD)

Appendices

Appendix A - Document Information

Authors & Collaborators

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### Versions

* 1. Initial Draft

### Images

[Figure 1: TODO Image 2](#_Toc144995112)

### Tables

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### References

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

### Review Distribution

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### Audience

The document is technical in nature, but parts are expected to be read and/or validated by a non-technical audience.

### Structure

Where possible, the document structure is guided by either ISO-\* standards or best practice.

### Diagrams

Diagrams are developed for a wide audience. Unless specifically for a technical audience, where the use of industry standard diagram types (ArchiMate, UML, C4), is appropriate, diagrams are developed as simple “box & line” monochrome diagrams.

### Acronyms

API

: [Application Programming Interface](#Term_ApplicationProgrammingInterface).

DDD

: Domain Driven Design

GUI

: [Graphical User Interface](#Term_ApplicationProgrammingInterface). A form of [UI](#Acronym_UI).

ICT

: acronym for Information & Communication Technology, the domain of defining Information elements and using technology to automate their communication between entities. [IT](#Acronym_IT) is a subset of ICT.

IT

: acronym for Information, using Technology to automate and facilitate its management.

UI

: User Interface. Contrast with [API](#Acronym_API).

### Terms

Refer to the project’s Glossary.

Application Programming Interface

: an Interface provided for other systems to invoke (as opposed to User Interfaces).

Capability

: a capability is what an organisation or system must be able to achieve to meet its goals. Each capability belongs to a domain and is realised through one or more functions that, together, deliver the intended outcome within that area of concern.

Domain

: a domain is a defined area of knowledge, responsibility, or activity within an organisation or system. It groups related capabilities, entities, and functions that collectively serve a common purpose. Each capability belongs to a domain, and each function operates within one.

Entity

: an entity is a core object of interest within a domain, usually representing a person, place, thing, or event that holds information and can change over time, such as a Student, School, or Enrolment.

Function

: a function is a specific task or operation performed by a system, process, or person. Functions work together to enable a capability to be carried out. Each function operates within a domain and supports the delivery of one or more capabilities.

Person

: a physical person, who has one or more Personas. Not necessarily a system User.

Persona

: a facet that a Person presents to a Group of some kind.

Quality

: a quality is a measurable or observable attribute of a system or outcome that indicates how well it meets expectations. Examples include reliability, usability, and performance. Refer to the ISO-25000 SQuaRE series of standards.

User

: a human user of a system via its UIs.

User Interface

: a system interface intended for use by system users. Most computer system UIs are Graphics User Interfaces ([GUI](#Acronym_GUI)) or Text/Console User Interfaces (TUI).