Software Architecture Report

This document aims to describe to a potentially new member of the development team what does the software project do at the time of redaction. It doesn't have to be a monolith document, the information can be stored in READ.MEs.

The intended audience for this document is a technical one. Different sections may target different stakeholders.

The document must be:

- Dated
- Versioned – in correlation with the project's versioning (you could use a commit ID as a form of versioning, if non other is implemented)

Contents:

1. What the purpose of the software project is
    a. This may be a summary based on the planning documentation.
    b. Fulfilled capabilities – what can the project do at this point, and what is to be done until project fulfillment.
2. Guides on how to:
    a. Run the project locally.
    b. Build the project.
    c. Deploy the project (either locally, or how is it hosted, where it is the case)
    d. Contribution guide
        i. Patterns used in your application
3. Application entry points
    a. Data sources
    b. Data inputs
    c. Configuration files
4. High level diagrams of the architecture
    a. User/data journeys
    b. Most valuable output
5. Deployment plan
    a. Where is the application deployed.
    b. How the CI/CD pipeline works.
6. Description of the QA process
    a. Test suites – what do they test.
7. External dependencies included in the project
    a. APIs used
    b. Libraries
        i. How vulnerable is the project to dependency attacks (ex. Dependency Confusion)

If an item is already present in the project, reuse it, by using links. If an item is already present, but isn't up to date, update it and version it. It is not expected that you would fulfill everything that can be done for such a report. Do the most of what is possible, and acknowledge what can be done better.