

## 1.2.2 Documentation Tools

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[/2.0 Conventions/2.2 Development Environment/1.2.2 Documentation Tools](#)

### Markdown

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[Markdown for GitHub](#) used to create all textual documentation.

### C4 Model

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C4 model is a lean graphical notation technique for modelling the architecture of software systems. It is based on a structural decomposition of a system into containers and components and relies on existing modelling techniques such as the Unified Modelling Language (UML) or Entity Relation Diagrams (ERD) for the more detailed decomposition of the architectural building blocks. ([C4 model](#), [Wikipedia](#))

### Description

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TODO: give description here.

### Design Documentation

Design documentation will be created using [C4builder](#). This documentation tool supports Markdown documents and [C4 Models](#) using [C4-PlantUML](#). This tool is integrated with [VSCode](#) with *PlantUML v2.17.3* plugin.

The C4Builder tool generates a Web site locally for view using at (<http://localhost:3000>) while developing documentation.

When editing design documentation the C4Builder can be run to automatically regenerate the site content with

```
c4builder site --watch
```

To run the Web site locally

```
c4builder site
```

### C4-PlantUML

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C4-PlantUML includes macros and stereotypes for creating C4 diagrams with PlantUML.

