

Team Work

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1.1 Preparation

Before LTW meeting on 12.05.2021:

1. Read this text.
2. Think about what your role represents and what would be important for you.
3. Look through materials relevant for the LTW meeting to familiarize yourself with the concepts.
4. Search the Internet which technologies relevant for the LTW meeting are available.

1.2 Steps

1. Already done in the meeting before (if you missed the meeting write an email to `markus.raab@complang.tuwien.ac.at`): Give yourselves roles (leader, admin, dev, user) and split the goals and tasks among them.
2. Before the LTW meeting: do the preparation as described in this document.
3. In the LTW meeting: Create together an architecture that fulfils the goals and present some part of that architecture.

1.3 Goals

We want to design the software architecture of a camera system that:

1. is configuration-management friendly
2. has transient and persistent configuration consistent
3. has correct documentation
4. reuses software as much as possible but integrate them nicely

1.4 Requirements

The product manager wants a camera that:

1. should be able to take single pictures and streams
2. should have pluggable camera modules (lenses, image sensor, ...)
3. should have camera profiles for modules of different vendors
4. should have a Web-UI that shows all configuration settings
5. should support a remote configuration protocol (Web, SNMP, CMs, ...)

1.5 Tasks

1. design the architecture of configuration settings
2. design the architecture of configuration access
3. design how the CM tools should look like
4. tracer bullet [1]: explain for one configuration setting the whole way from source to destination
5. make decisions (which languages, which software, how to achieve the goals)
6. explain how to ensure smooth configuration upgrades
7. explain how to provide documentation for operators
8. explain how to reuse software

Literaturverzeichnis

- [1] Andrew Hunt and David Thomas. *The pragmatic programmer*. Pearson, 1999.