

# Harmonia

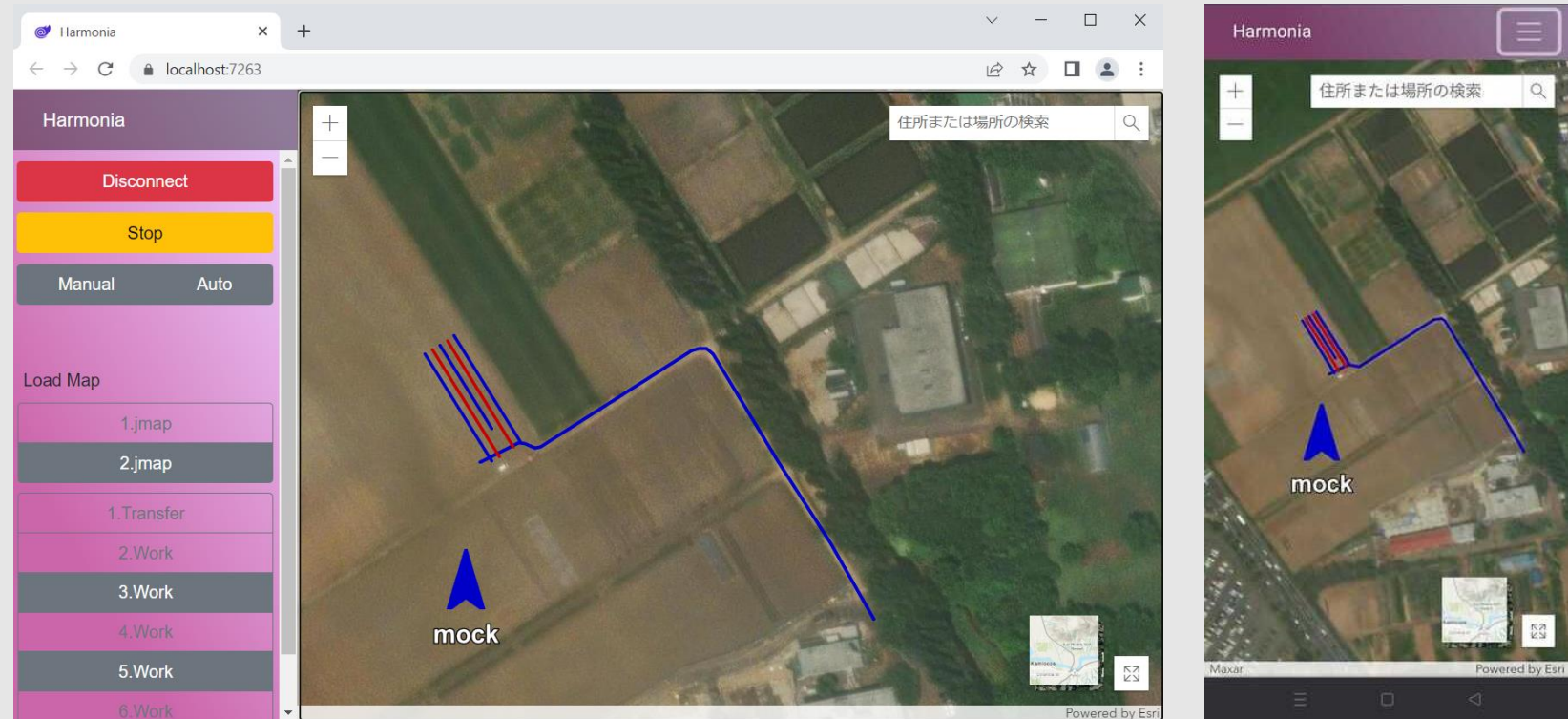
~ Handy & Responsive Monitor API ~

# What is Harmonia?

- ◆ “Harmonia” is a character from Greek mythology and the daughter of “Ares” (“Mars”, in Roman region), who is closely associated with the laboratory of Vehicle Robotics.
  - ◆ She is the god of harmony, which is exactly the concept that this repository is working on to harmonize all agents and other systems.
  - ◆ This repository consists of following .NET projects.
    - Harmonia.Core (common functions, classes, and configuration)
    - Harmonia.RCL (“Razor Class Library” which includes web map API and UI design framework)
    - samples (parent and child process)
  - ◆ The user interface will be written using .NET Blazor, but the agent processes can be in any language.
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- ❑ GitHub: <https://github.com/husty530/harmonia>
  - ❑ Author: Takumi Yamashita ([husty530@gmail.com](mailto:husty530@gmail.com))

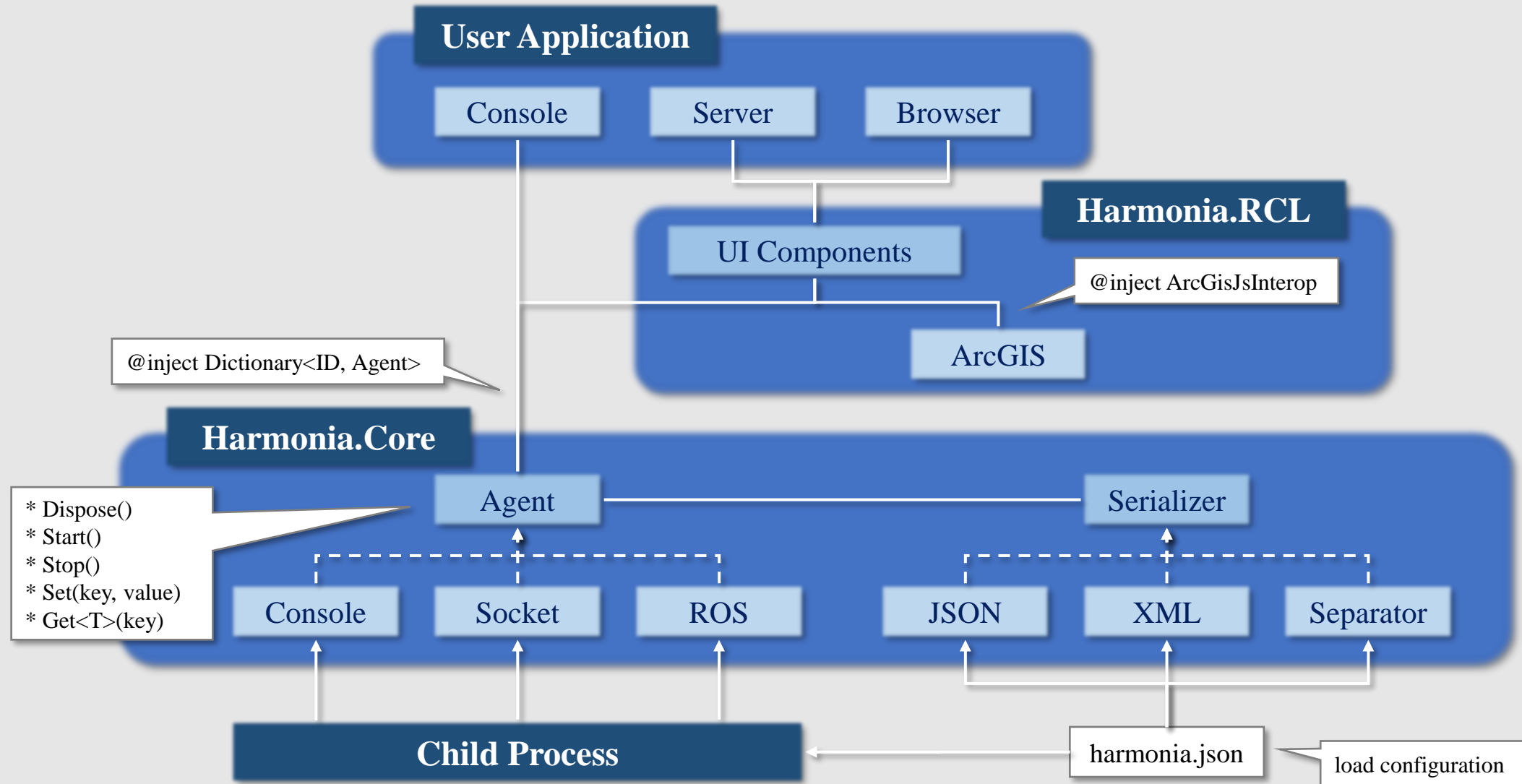
# Why Harmonia?

- ◆ Handy
  - web interface
- ◆ Responsive
  - data binding



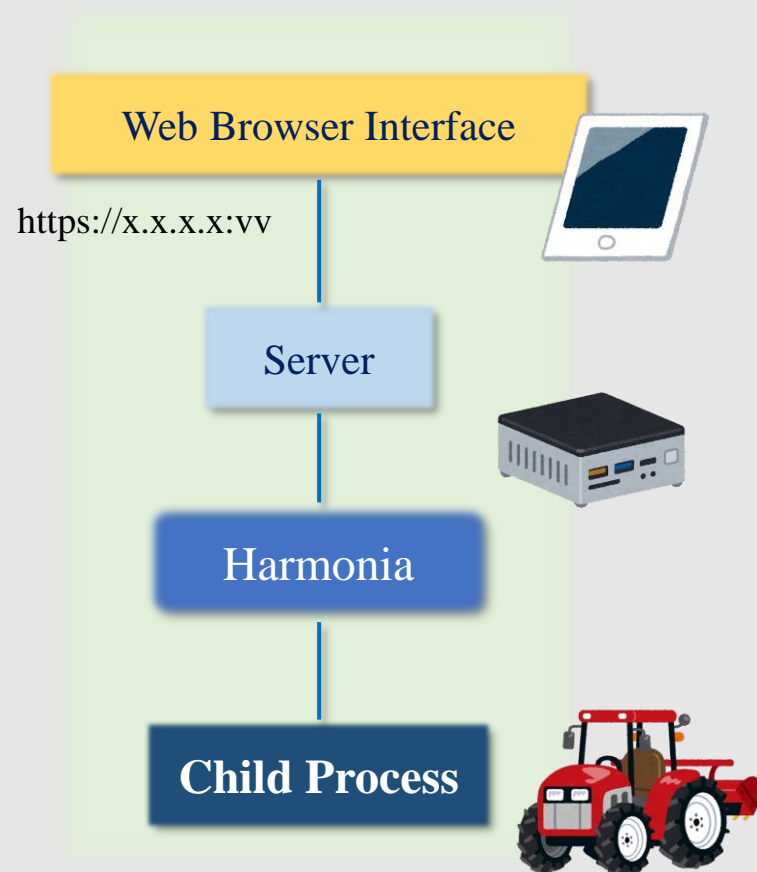
- ✓ Harmonia can monitor every agent state by redirecting standard input / output of the child process.
- ✓ This repository provides an easy way to create a unified monitoring system.
- ✓ Agent's state is described as a Dictionary<str, str>, therefore it can flexibly interconvert with JSON, XML, CSV, etc., and you don't need to consider any constraints in the design of the child process side.

# System Architecture



# Use case

- ◆ Local server application which monitors a single agent



- ✓ Simply launch.
- ✓ Access the user interface via private network.

# Use case

- ◆ Remote server application which monitors multiple agents

