```
                                              → raspberry 1

        ┌──────────────────┐                  → raspberry 2
        │  piseduce_agent  │
        │  type: raspberry │                  → raspberry 3
        └──────────────────┘
                 ↓
          Reservation
           Database

user                                           → raspberry 4
paul@imt.fr          ┌──────────────────┐
                     │  piseduce_agent  │
                     │  type: raspberry │      → raspberry 5
         piseduce_webui └────────────────┘
user                           ↓
henri@inria.fr           Reservation
                          Database
                                               → server 1
user              ┌──────────────────┐
jean@free.fr      │  piseduce_agent  │         → server 2
                  │  type: server    │
          User    └──────────────────┘         → server 3
        Database           ↓
                      Reservation               → server 4
                       Database

                  ┌──────────────────┐          → sensor 1
                  │  piseduce_agent  │
                  │  type: sensor    │          → sensor 2
                  └──────────────────┘
                           ↓
                      Reservation
                       Database
```

The piseduce reservation tool aims to provide users with nodes. One node can be a server, a sensor or a raspberry. Users must connect to the piseduce_webui from a web client. After creating an account, they can reserve nodes on multiple infrastructures.

To manage the nodes, one or more piseduce agents must be connected to the webui. The webui will communicate with them to use their nodes. Users can not directly communicate with the agents.

Each agent has its own database to manage the user reservations. At the beginning of a reservation, the agent configures the node and deploy the operating system selected by the user. Then, the user connects to their node with SSH.

As agents have their database, failures on the webui does not impact the deployment of the nodes. After the node deployment, users directly connect to nodes without using the webui.

The user database that allows users to connect to the reservation tool is centralized on the webui. So, a failure on the webui impacts all users who wants to make reservations.
However, the ongoing reservations continue thanks to the agents and users can always connect to their nodes.