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INVOLVEMENT

- Process engineering
- Project management
- Developer team leading
- Application architecture
- UI / UX / Client coordination
- Database development
- Core functionalities programming
- Backend programming
- Documenting
- Presenting the project

FISHTRACE, FISH FARM PRODUCTION TRACKING SYSTEM

The aim of the project was to establish an efficient tracking procedure in trout farming, as traceability was an elimination condition for fish exports.

Traceability means that the final product that reaches the customer can be traced to the source itself. For many products, including livestock, it is quite simple, all parts have their own serial numbers, or in the case of livestock, when a calf or lamb is born, it gets an ear tag and can be tracked throughout the breeding process.

Well, as for the fish, the process starts with the egg and the eggs cannot be labeled. Furthermore, during the breeding process, fishes get sorted by size, and the flock gets split. So we could not just simply tag the flock and follow it.

The solution was to build the system that kept track of the heritage (parent->child relation) of each flock, treating each splitting as a new generation. This enabled our customer to trackback each lot in case of any irregularity and find all the other lots that might share the same faulty treatment, being it treating the eggs with antibiotics or similar protection or malfunction in the transportation unit. Everything was traceable.

The system was also connected to the equipment in the production line (scales) and automatically generated a barcode containing product ID, lot number, and quantity, and the main production database was updated with each item packed.