

## Cloud-Based Task-List Service Conception Phase

The Cloud-Based Task-List Service (also called Online TODO, OTODO for short) is a cloud-based TODO list, allowing users to have a synchronized task list between all of their devices and operating systems. OTODO will first be only accessible from a web browser, but it's entirely possible to expand it with desktop and mobile applications. This project targets people who use multiple devices (such as smartphones, smartwatches, PCs) and multiple operating systems/'ecosystems' (such as Microsoft services, Apple services, Google services or GNU/Linux environments).

The project may evolve to be much more than just a TODO list – a synchronized calendar, for example. Integrations with smart home systems are also possible. OTODO server could in future expose an API for community-driven extensions.

To succeed, the project must consist of a simple and accessible UI, secure user authentication and fast database access.

As for the technical implementation, OTODO will be built with:

- Svelte for front-end, with scripts written in TypeScript and styles applied using regular CSS
- NodeJS back-end (with original source code written in TypeScript) with two SQLite3 databases, one for task data and other one for user identification and authentication purposes

Below is a high-level diagram of software architecture:

