



App Development 2

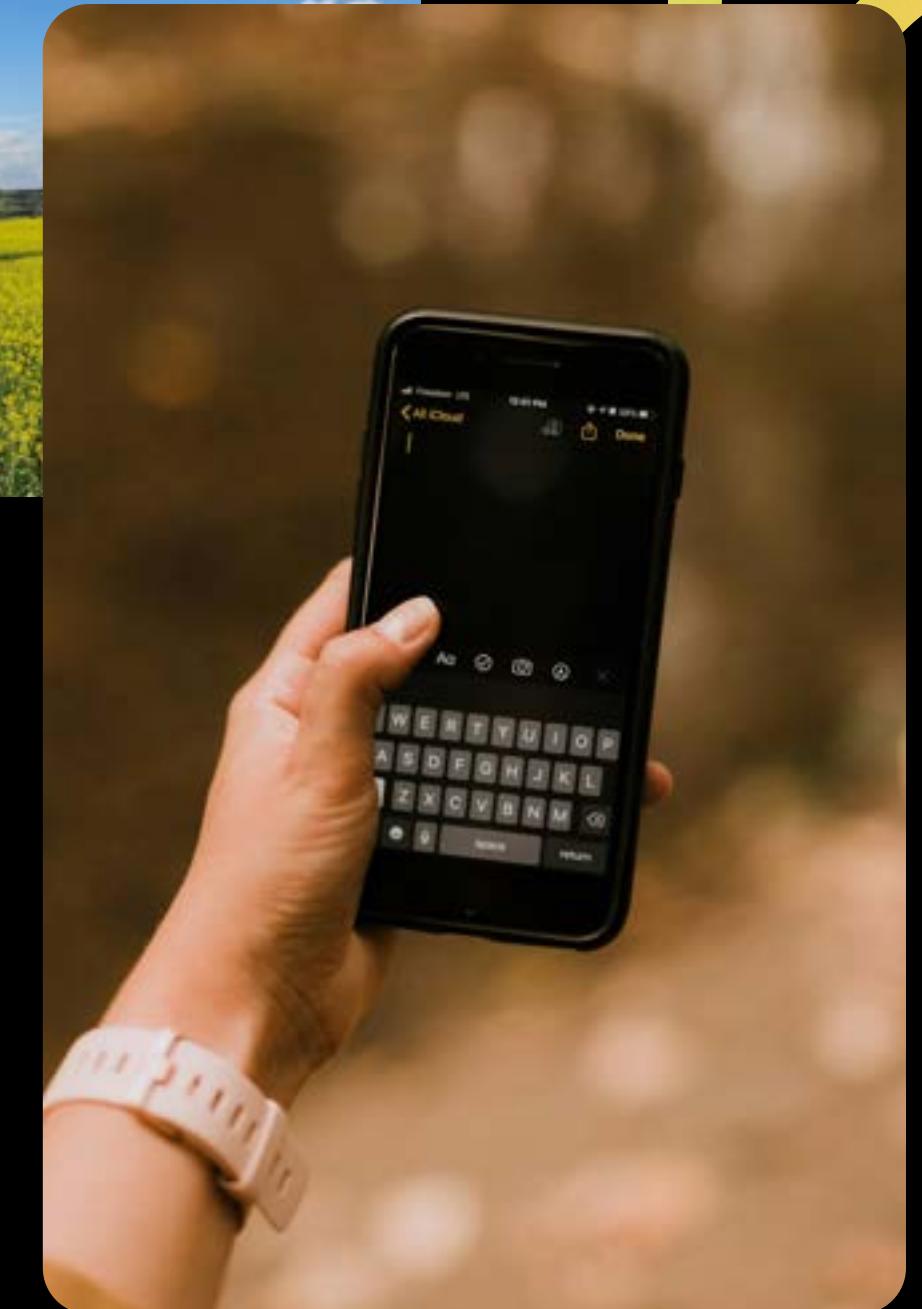
Kick-off

Let's build something awesome

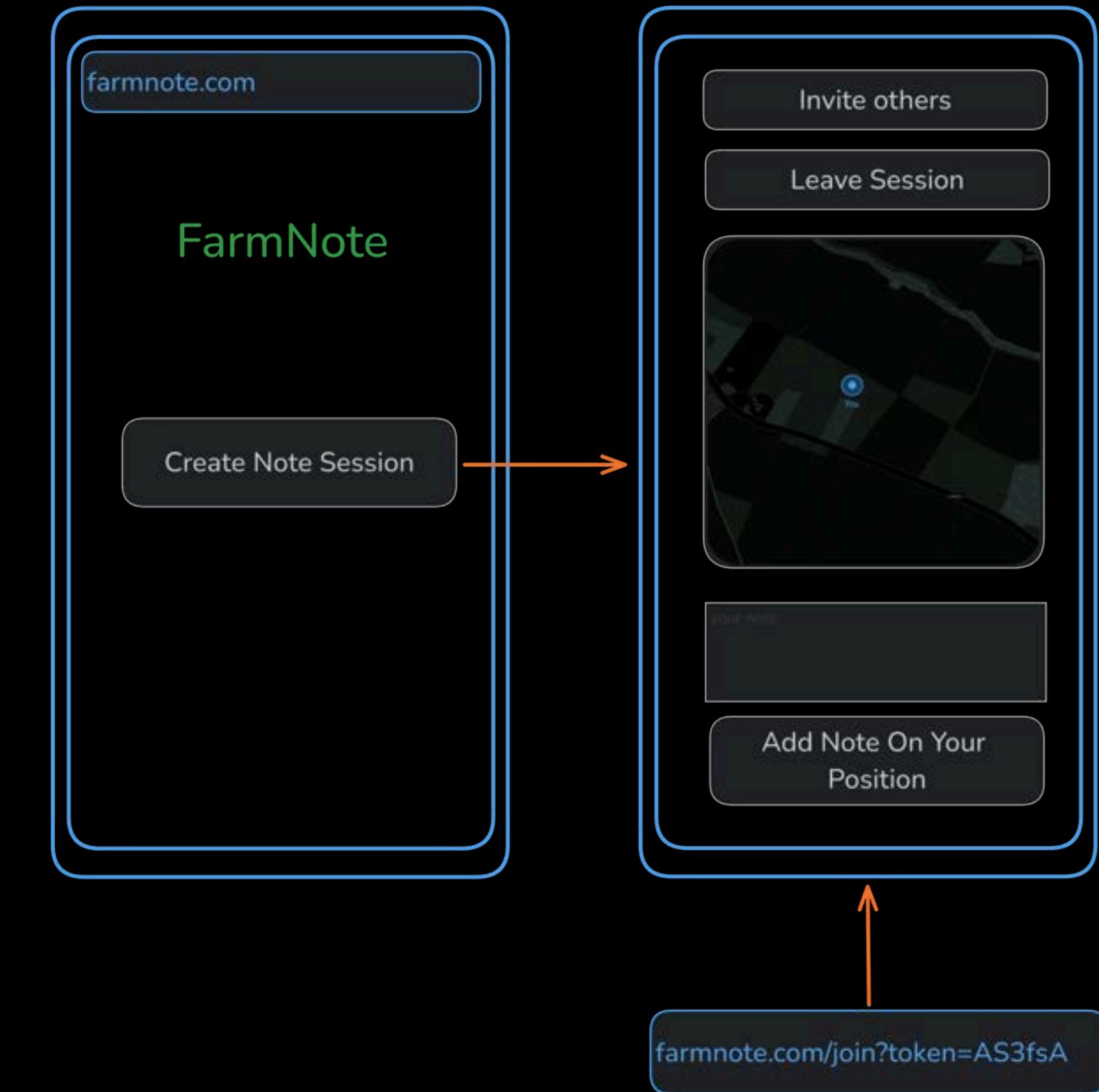
Presented On:
Oct., 2024

FarmNote

A simple solution to document anomalies or your notes right on the field



Simple Entry



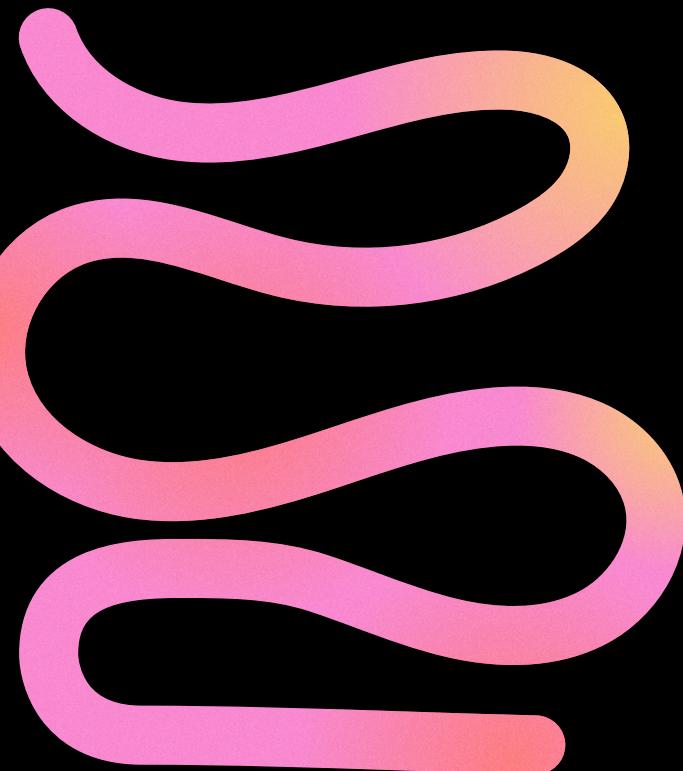
Add Notes At Your Location



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Share Link & Collaborate



Requirements

The expectations of the stakeholders (me and your future self)

Spatial Notes

Users can create and view notes with geolocation information

Collaboration

Multiple users can collaborate on notes

Cross System Support

The application should work on all popular operating systems / devices

Quality Goals

Goals that support the long-term success

Quick Development

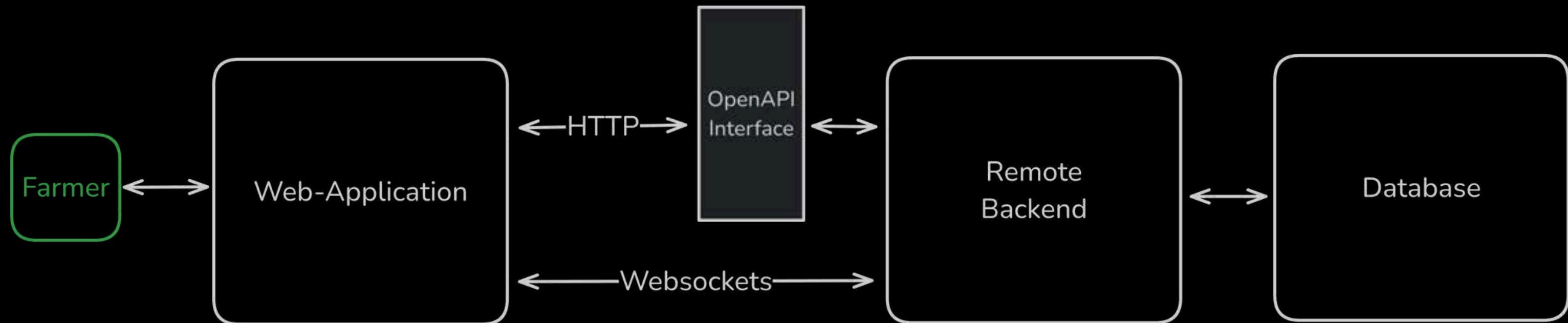
Adding and deploying new features should be easy and fast. Short iterations help to identify future requirements earlier.

Expandability

At project start, not all requirements are clear. They must be developed after tests with the first iterations. Therefore, the project should not be too rigid for further development.

System Scope

The parts of our system and how they communicate



Tech Stack

The Technologies we will use

- **OpenLayers** - Dynamic Map
- **Vue.js** - View Javascript Framework
- **FastAPI** - OpenAPI Backend Framework
- **SQLAlchemy** - Database ORM Framework
- **Docker** - Containerisation for deployment
- **GitLab** - Versioning, CI/CD



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Block View

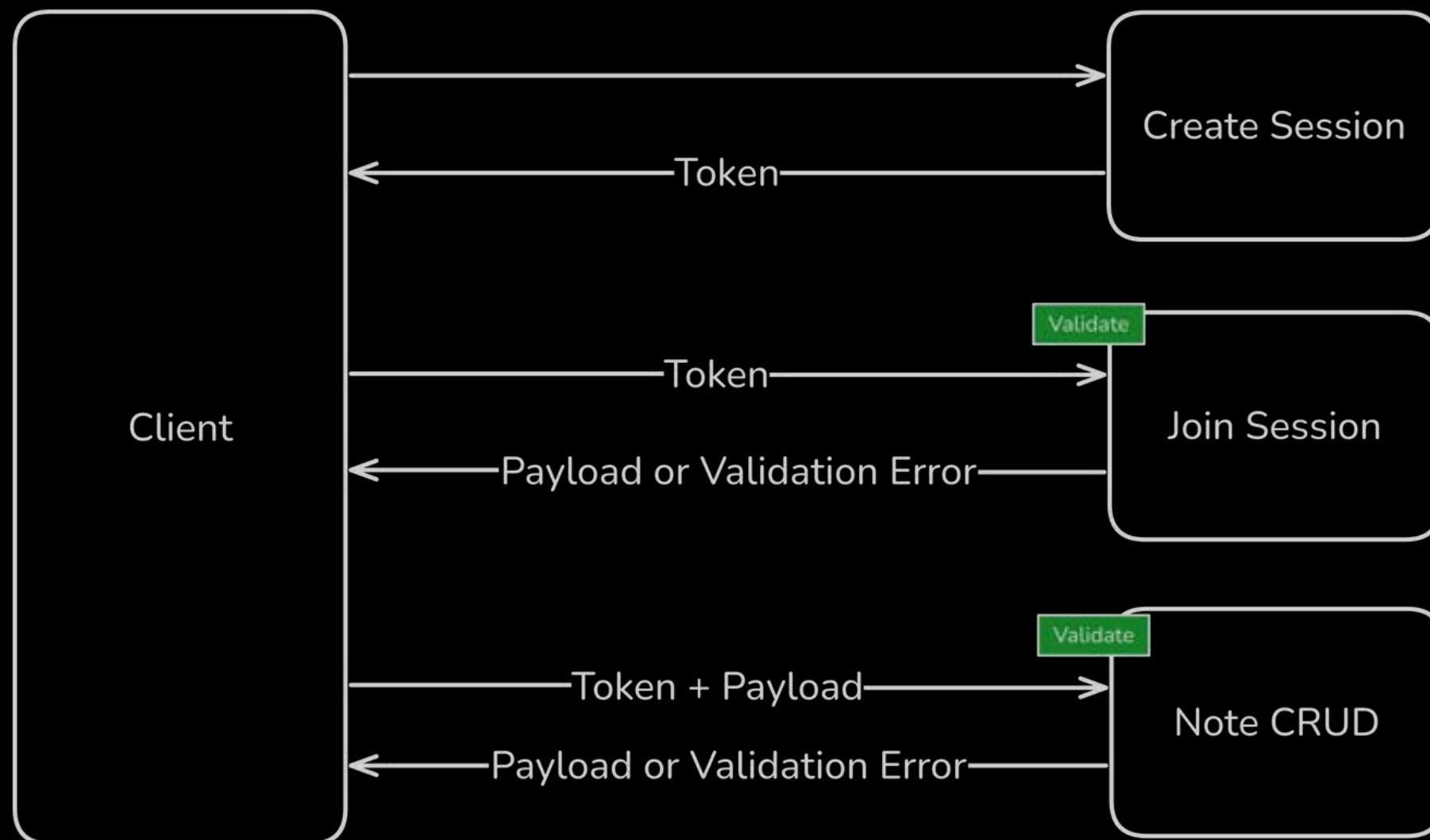
Our solution in detail

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Runtime View

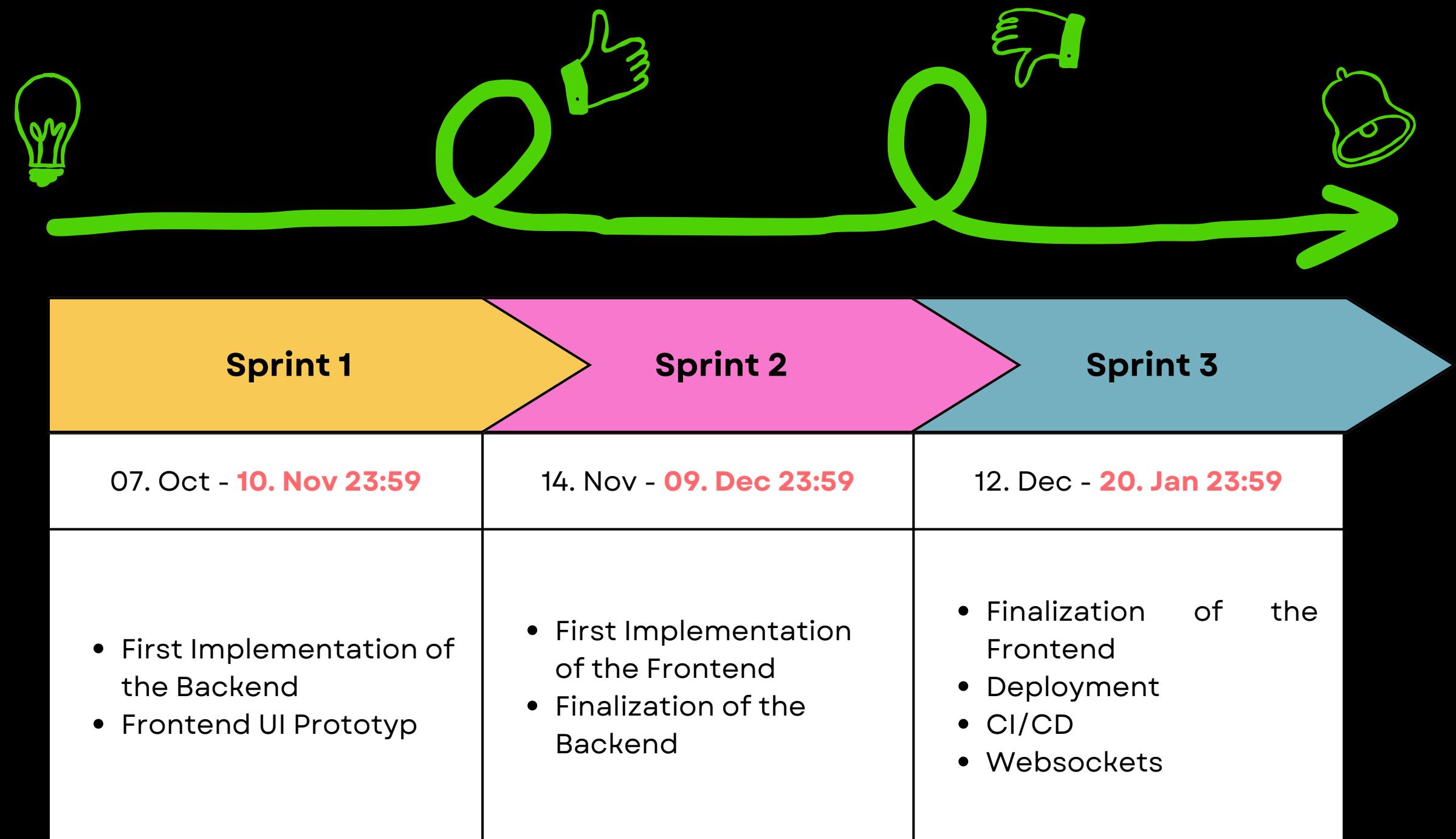
Communication between Client/Server



Token: 6 character long identifier
Identifies a session and
serves as (insecure) authentication

Timeline

What has to be done and when?



Basis of assessment

- Functionality
- Successful tests
- Your commit history
- Your coding style
- Changes of existing code
- Documentation
- Correct naming and/or structuring (based on the block view)

The Abgabegespräche will include a discussion of the theoretical background. They also give you the opportunity to explain any mistakes you may have made. If you have a good explanation for why something isn't right, no points will be deducted. If something does not work, you will be given 10 minutes to solve the problem yourself.

Important! Issues marked **mandatory** are required for following tasks