Technology stack

## Frontend choices

* Kotlin multiplatform (mobile)
* Next.Js (Web app)

## Backend

* Ktor (web server)
* Tensor flow lite (CNN)
* database) waiting on paayals research

## Sensors used

* Light sensor
* Humidity and temperature sensor
* EC sensor
* Moisture sensor

## Physical boards

* Arduino Mega 2560
* Raspberry PI

## Database

* Redis caching
* Supabase (SQL tables)
* Supabase (bucket storage)
* TimescaleDb/Prometheus (choosing one of the 2 but both are time series
* SQL Delight (Local Database)

## Hosting

* Vercel
* Render

## Security services

* Github actions (mention specific workflows
* Other tools (shivar)

## Logging tools

* Sentry

## Languages used

Kotlin

Javascript

C++

Python

## Frameworks

Next.js

Compose multiplatform (Jetpack Compose)

KOOG AI (Lightweight Kotlin ai Agent)