

A mockup document of plantkeeper application

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Description

Herb and plant managing software

Technologies

- React (React-Native)
- NodeJS
- MongoDB (or Firebase)
- OpenWeatherMap

Backend logic steps

- Water need calculation
 1. Get weather data
 2. Determine weather type (cloudy, sunny)
 3. Compare room temperature to outside temperature
 4. Change water intake level based on the temperature
 5. Calculate new water need
- Fertilize need calculation
 1. Get current season
 2. Determine fertilize application interval
 3. Calculate new fertilize value

Database schema sketch

Example of basic database composition

Plant

Name	Type	Planting	Location	Water	Fertilizer	Temperature
Basil	Basil	1.1.2017	Helsinki	100	100	21

Type

- Values are measured in interval of days
- Values in TYPE table are the default plant values

Type	Watering	Fertilize
Basil	1	16

User

Id	Name	Password
1	ejuh	&%212345

User interaction

1. View

- Water and fertilizer level bars
- Plant statistics
- Current weather on plant location
- Amount of plants
- List view

2. Action

- Add plants
- Action buttons in plant view
 - Watering button
 - Fertilizer button

View mockup

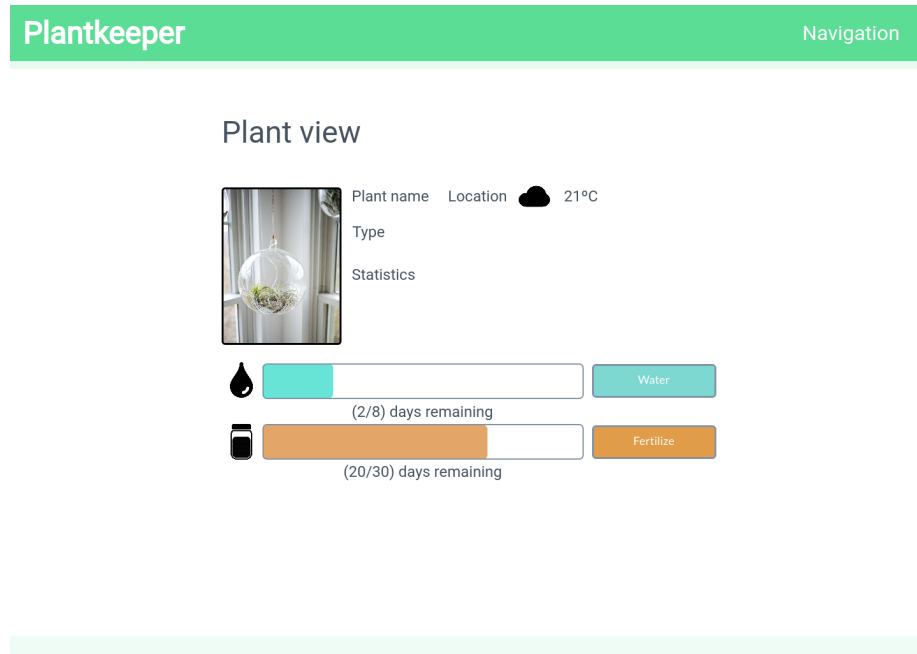


Figure 1: Mockup image