A mockup document of plantkeeper application

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April 4, 2017

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

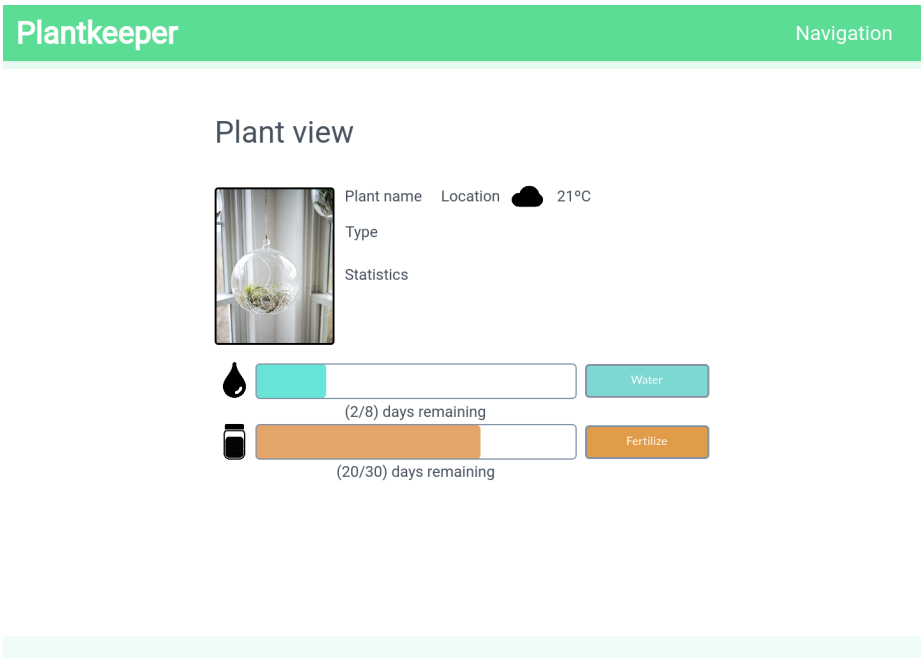

Figure 1: Mockup image