

# Assignment 1 – Requirements Document

Group 11: Annie Berend, Tobias Heckel,  
Christos Stylianos Vazouras, Žan Zafošnik

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## Detailed description:

*“Home Jungle”* helps newbies or people with close to zero experience to get started with indoor plants.

The user can search for seeds and seedlings from other users or a local community nearby. Additionally, he can plan which plants he wants to grow and the app reminds him when to start planting the seeds.

The app will provide the possibility to search for different plants and get information about them like how much water or sun the plant needs. The user can add the plants he/she owns in a personal area and get notified when he/she is supposed to water them.

Who are the target groups/users of the application? Are there sub-groups, specific characteristics that have to be considered?

- newbies/amateur “gardeners”, people who don’t know how to start, plant-fans
- 18-50 years
- people living in apartments in cities

What is the value of the application? How will the users benefit from it?

- primary: getting started, getting seedlings, information about plants, watering notifications
- secondary: information exchange

How is it different from what is on the market already? What is the niche that you are addressing?

- our app helps to start with plants from the beginning (getting seedlings/seeds or growing and planting them) and then helps you to treat them correctly
- a compiled database of information on different plants
- seedling exchange AND notification in one app (other apps only contain one of them)

What are the goals of the application? I.e. what problem should the application solve?

- Problem: People, who don’t have any experience with planting want to have plants in their flats and get some practical information, how to start planting.
- Goal: The app helps these people by giving them the required information and gives the opportunity to get seedling or seeds from other users.

What are the features of the application? Are the features dependent on each other, if so how?

- Information about your plants (where to put them, which soil, which size of pot)
- Notification to water (This feature is dependent on the database above)
- Exchange seeds/seedlings (map)

- Plan-t next season and when to start planting seeds (including notifications)
- Platform for discussing problems and connecting with other plant-fans

Are the features feasible to realize in the time available for development? Which ones are must-have and which ones are nice-to-have? Prioritize the features!

- All features aren't realizable at the time, so we will focus on the first four features. Besides, these are sufficient to get started with plants.

How do the features map to specific APIs?

- Map for seed/seedlings marketplace, e.g. with OpenLayers
- Plant database, e.g. [https://practicalplants.org/wiki/Practical\\_Plants](https://practicalplants.org/wiki/Practical_Plants)

Which quality attributes/properties of the application are important and why?

- design: intuitive, responsive, clean
- correct and sufficient information about plants
- reliable notifications
- good search option

## Technical information

Platform: *Android*

UI & Input controls: *Buttons, Scrolling, Swiping*

Activities & Fragments: *profile ("your plants", "planned plants"), overview (with search option), plant details, map, ad details*

Multi-touch & clicks & swipes: *map, buttons, swipe through watering notifications*

Sensors: *GPS, camera*

Notifications: *watering plant + planting seeds*

REST APIs: *seeds/seedlings marketplace*

Background workers: *notification service*