# Permaculture mobile application

## App description

Are you are interested in planning, growing, and maintaining your own garden in harmony with nature? Do you want to follow the ethical pillars of permaculture of caring for our planet, caring for people, and sharing fairly?

Design your own garden – just enter the plants you wish to grow, and the app will show you the possible combinations! Some plants make friendlier roommates than others and some insects can be repelled by different plants.

Learn about the sowing (or planting), water, sun and soil needs of the plants and use this information to make your own garden flourish! Plants can sometimes fall ill, so there will be some solutions provided for you.

Schedule tasks and connect with your neighbours. Perhaps they are interested in exchanging some seeds or organising an educational seminar.

## Functional requirements

Table 1 Functional requirements

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| **FR** | **Name** | **Description** | **Obstacle** |
| **FR1** | Show plant information | For each plant, show planting (or sowing), water, sun, and soil instructions/needs, together with the planting, blossoming, and harvesting months and common problems (with their solutions). | No internet connection. |
| **FR2** | Schedule tasks | The app shall allow users to schedule tasks for their garden. | The garden has not been designed yet. |
| **FR3** | List combinations | For each plant and animal, show plant and animal combinations that work best and worst. | A plant that a user is looking for has not been added to the list. |
| **FR4** | Design gardens | The app shall allow users to design their own gardens. | None of the chosen plants are compatible with each other. |
| **FR5** | Connect users | The app shall allow users to connect to the other users nearby. | The app is not used by any users nearby. |