

Nature's Arm

Nature's Arm is a highly personalized application which can help a user to take care of every green friend in the garden! With the help of *Nature's Arm* we can easily add and manage our plants with several different attributes:

- Name: the user can set up a specific name for the selected plant.
- Image: the user can set up a reference picture of the selected plant.
- Type: the user can select a type for each individual plant. The user can also add a new type to the database.
- Location: the user can set the location of the plant. (Home, Work, Garden, Rented room, basement).
- Task frequency: the user can set up a specified frequency for a reminder for the following use cases:
 - Watering
 - Fertilization
 - Spraying
 - Transplantation
- Generate QR Code:
 - A QR code can be generated which will later help the user to identify a plant.
 - The user can also save the mentioned QR code.

The user can search in the database in numerous ways such as:

- Type filter
- Location filter
- Name filter
- QR code, which will cause the application to open the plant's database after successful QR code read.

After we found the plant we want to take care of the user can edit and remove each attribute.

There is also a luminescence meter which can help the user to determine the relative luminescence around the plant. Since this is highly dependent on the device the user must observe the plant's reaction to different lighting conditions.

Beside these features the application has a TODO feature which will remind the user with notifications in case of forgotten or in due tasks.

There is also a list where the user can select the type of task, he/she wants to do right now.

The user can also choose from different themes. For now, the light and dark mode will be available.

Supported languages: Hungarian, English, Spanish, Russian.

Use case diagram:



UI flow plan:

LOGO: talanmatban...



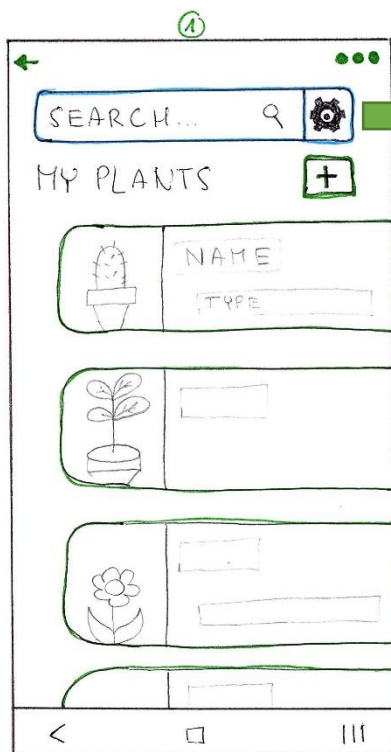
LogoActivity



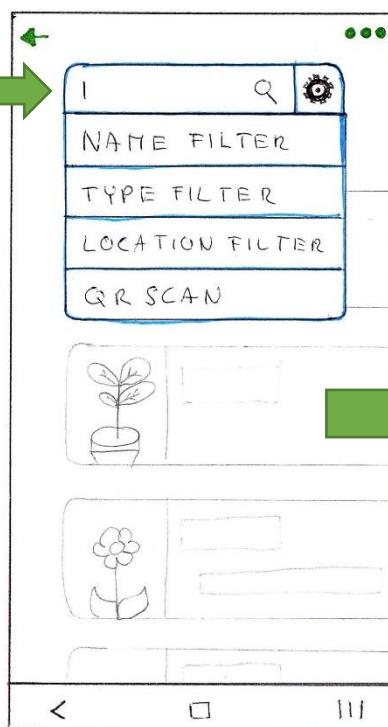
MainActivity



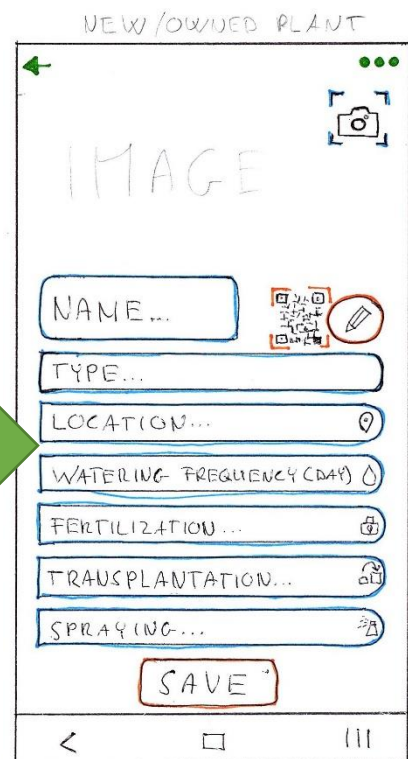
SettingsActivity



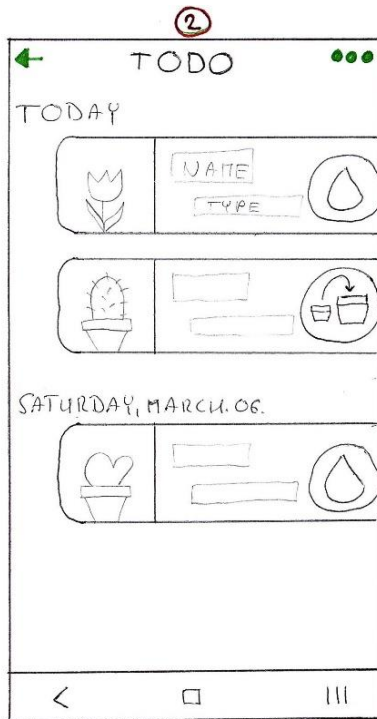
PlantListActivity



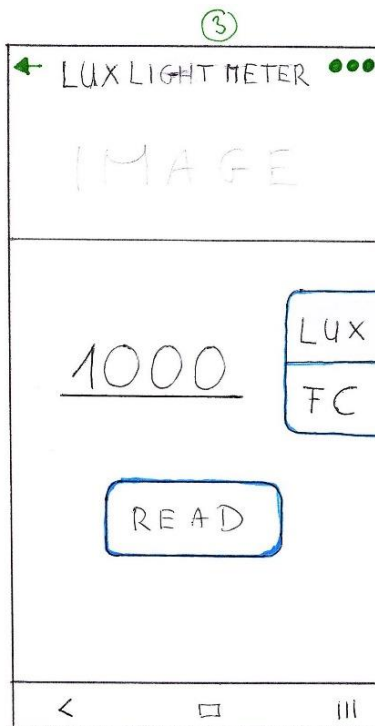
PlantList spinner



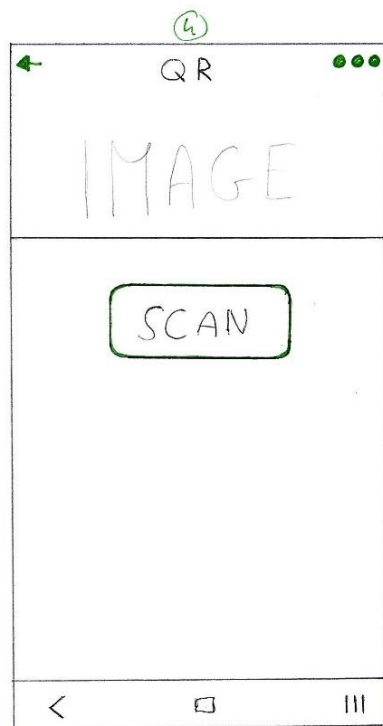
PlantDataActivity



TodoActivity

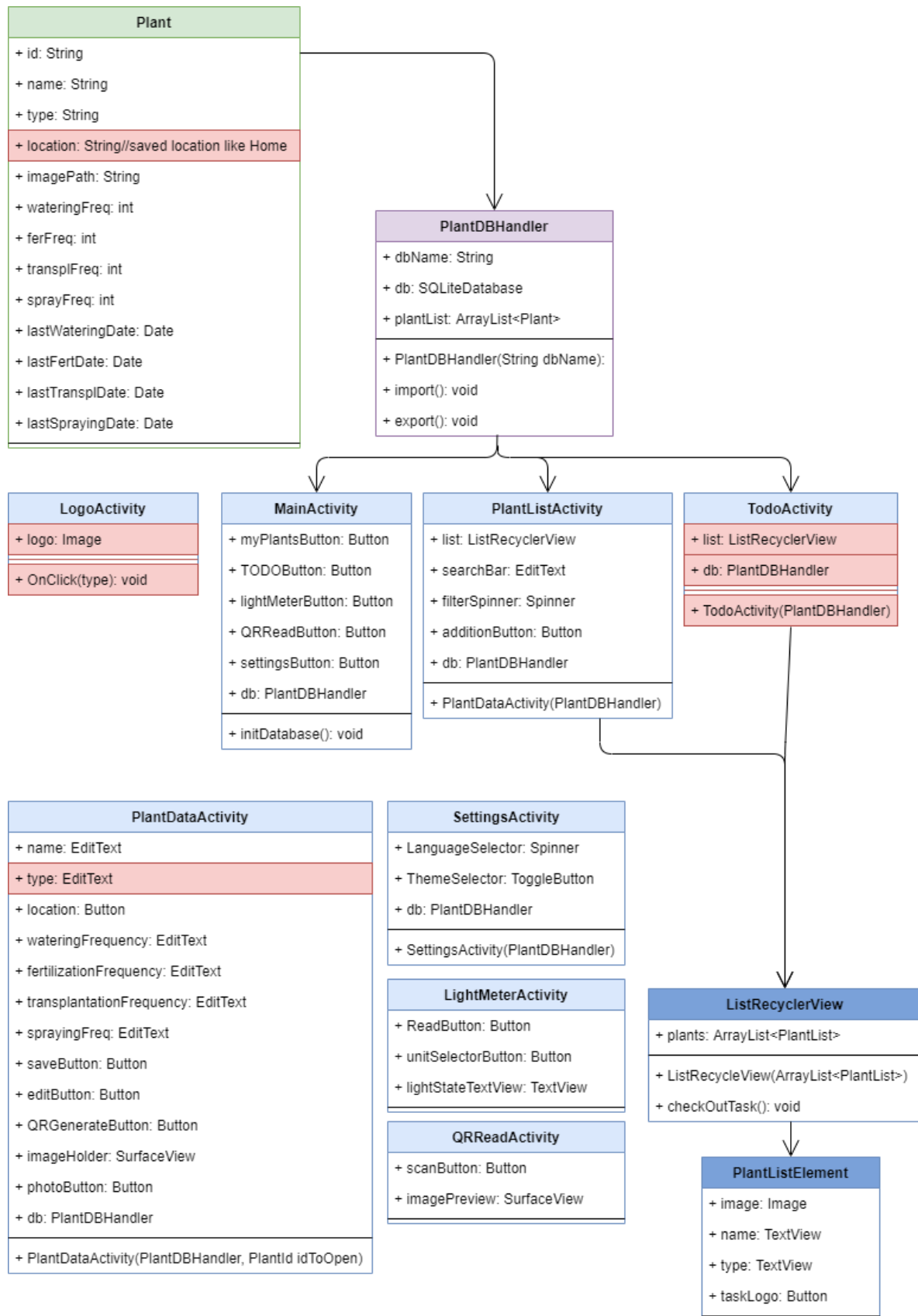


LightMeterActivity



QRReaderActivity

Class Diagram:



Database diagram:

