Problem

There is constant change of authorizations for pesticides. This means, that a farmer might have old products in his storage, which is not legal any longer. If his farm is inspected by authorities and they find such old no longer legal products, he will be fined.

Solution

Beta Version

A simple app, which can be used for scanning the bar code on the product, and check this product against a checklist (less than 500 products) placed local on the mobile. The result of the check will be "Legal", "Illegal", "Under revision" or "Not found" plus a date showing legal until dd/mm/yyyy and a date telling the freshness of the checklist.

If the result of checking returns "Not found", the app shall ask the user to take a picture and clicking "Send to expert" will send the picture attached to an email to an expert.

Settings will give the user opportunity to store an e-mail and mobile number – the first to make it easy to mail scanning result to own e-mail and the latter to receive an answer after sending a "Not found" picture.

Version 1.0

The checklist shall once a day synchronize with a web service which demands authorization. Technical details on this follows.

If the app is used, and the checklist is more than 3 days old, this shall happen:
- If credentials for authorization have been provided, the user will be asked to activate a synchronization so to work on newest checklist. There shall be an option to continue without updating checklist. Doing this, the use must accept a warning telling, that the results might not be valid.

- If no credentials for authorization have been provided, the user will be asked for username and password. There shall be a link to a webpage, there he can register. There shall be an option to continue without updating checklist. Doing this, the user must accept a warning telling, that the results might not be valid.

Checking the freshness of the checklist shall only take place first time the app is used each day.

Version 2.0

The app shall be used to keep track of inventory of pesticides. This means functionality including
- As part of the scanning, there will be an option for taking a picture of the pesticide container and option for stating total amount.
- Information about scanned pesticides will be stored on the mobile and synchronized with a web service, which – if the product I recognized - will fill in information about how to use etc.
- The user can browse through scanned pesticides and delete these or change amount in storage.