Report

In our program we have 11 activities. We can divide to few main functionalities, product/ingredients details, adding new product/ingredient, searching for product/ingredient, sending reports and MainScreen.

Searching for product/ingredient:

Search activities extend ListAcitivity except for Search by QR and SearchProductActivity which are different cases. SearchProductActivity is actually just "menu" where user can choose which way he wants to search for product, by QR or Name. When user starts search activities, the activity gets DataBase from server and writes it on the screen in a list view. Now user can choose the ingredient/product from the list or write the name in the TextBox and click Search button to filter out non matching records. After that user is redirected to product/ingredients details Activity, if searched ingredient will not be found in DataBase the user can add this product/ingredient.

Product/ ingredient details:

Most of the activity logic is placed in DownloadIngredientDetails/ DownloadProductDetails. When activity is created the main look is loaded and information about the product/ingredient is downloaded from server which is done in DownloadIngredientDetails/ DownloadProductDetails. From this activity the user can send error report about the product/ingredient.

Sending reports:

Main logic here is placed in SendRequest class. When user clicks fills error description (optional) and clicks send his report is send to server.

Adding new product/ingredient:

Most important class is SendRequest, its main goal is to add new product/ingredient with given name and optional description (only in ingredient). When user clicks Send in NewIngredientAcitivity / NewProductActivity , new SendRequest object is created and executed with given by user product/ingredient name and description (only in ingredient). After that process new product/ingredient is created in DataBase. After that the user is redirected back to search ingredient/product activity.

JSON Parser:

In JSONParser class there is one method makeHttpRequest, its goal is to make Http request. Params:

String url – http address
String method – what kind of request are we sending
        POST – post given parameters to the server
        GET – get value for given parameters
List<NameValuePair> params – parameters that are posted or the params we want to receive from server