IIO60320 Mobile Programming with Android

Project

Group IIO12S2

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# Introduction

The idea of the project is to create a prototype of an application to share the prices of certain products in certain shops and help find the cheapest product from the nearest shops.

# Objectives

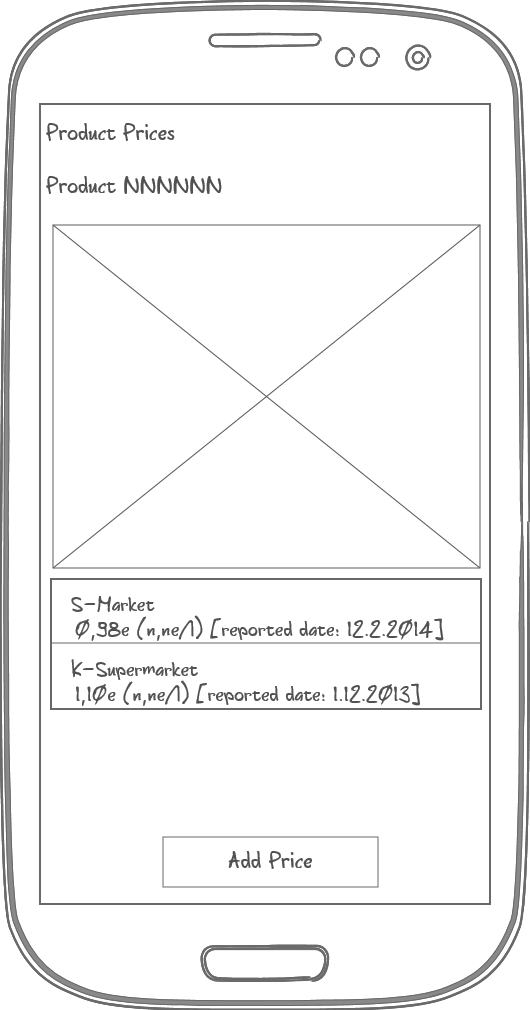
The main objective of this project is to create an application that can connect to a database that contains products, shops and product prices. The application is supposed to be able to add products and shops and add prices for products in different shops.

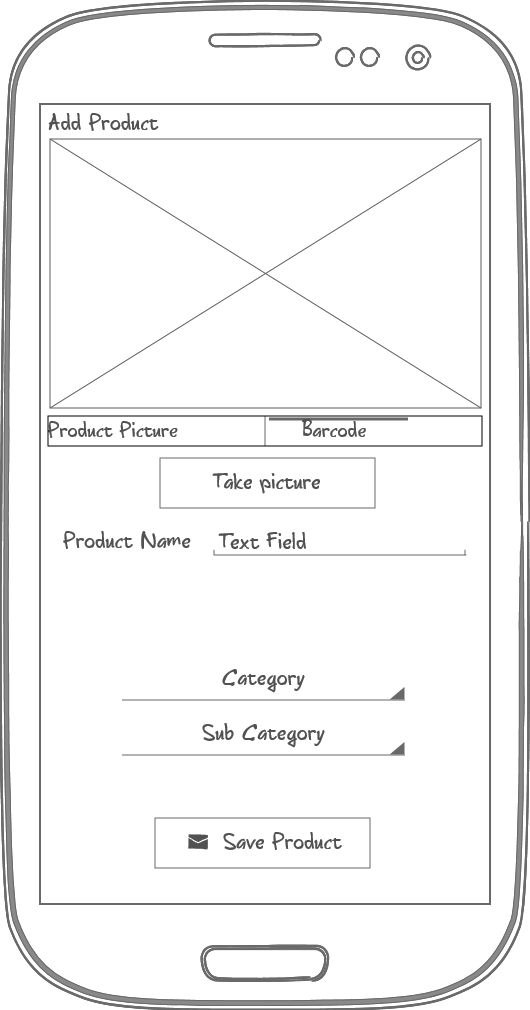
The application can be used for searching products and their prices in different shops and a map of shops can also be displayed when searching.

The user can easily find the lowest prices for products in nearby shops.

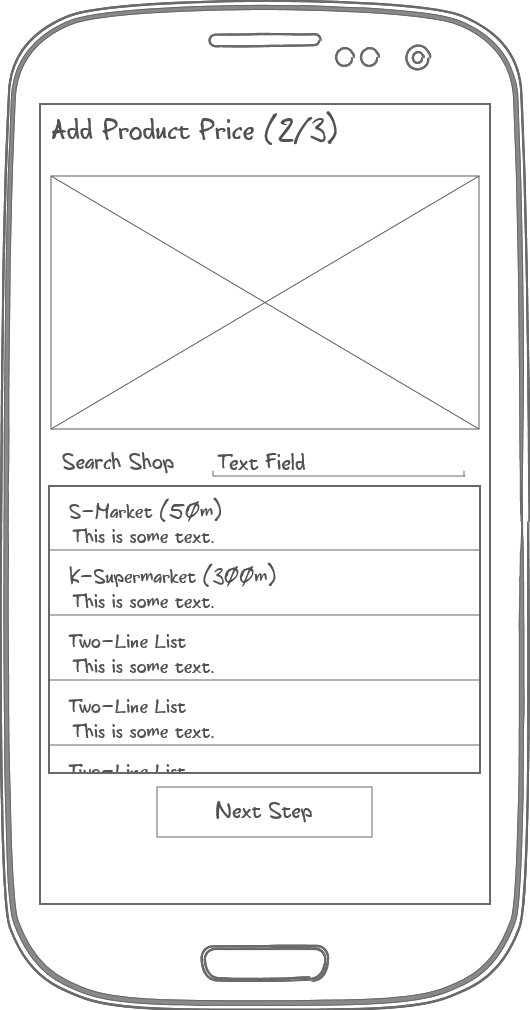
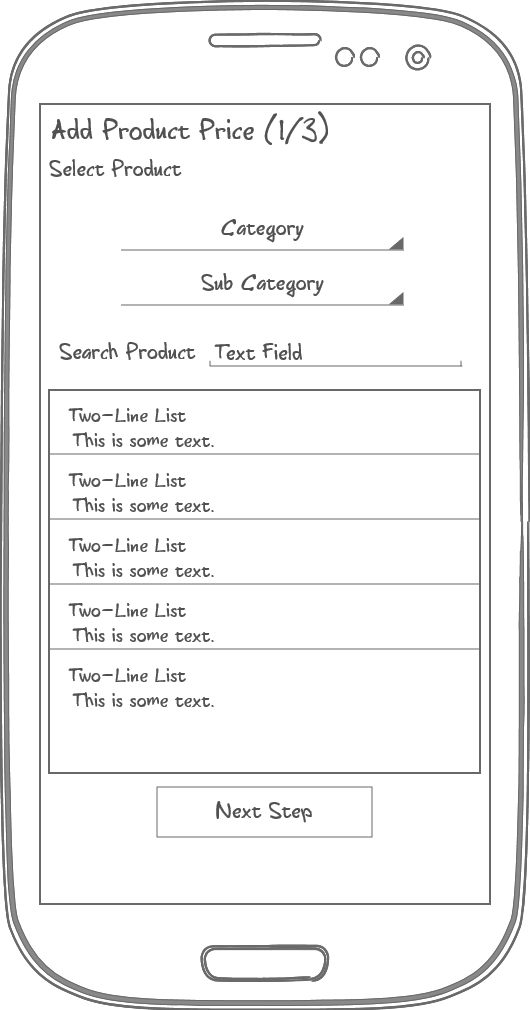
# Mockups

This activity is used for searching products from the database. The search filters products based on product name and category. After selecting a product from the list the product price activity is displayed. The user can also press ‘Add Product’ which shows the Add product activity or the user can press ‘Add Shop’ which shows the Add Shop activity.

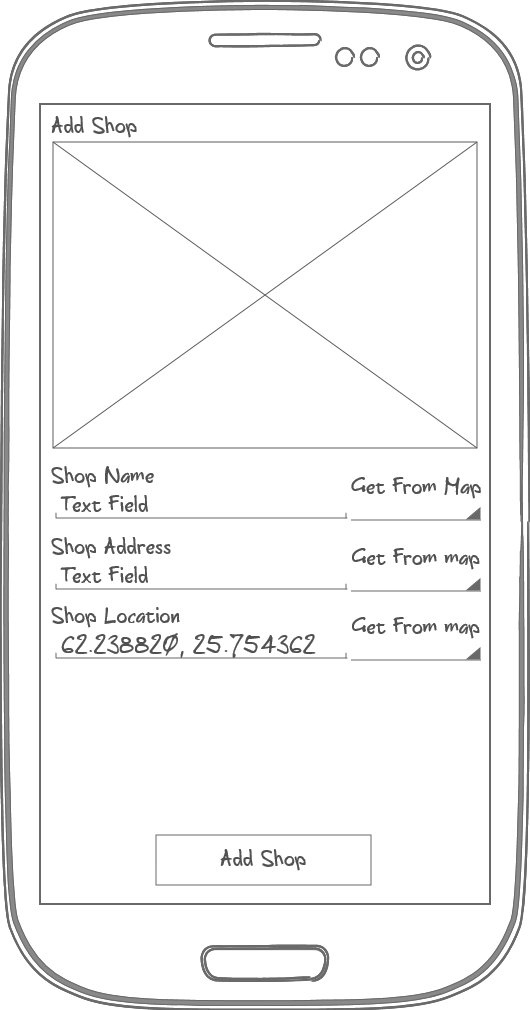
This activity displays the price of the selected product in the shops near the user. A map of the nearby shops that have the product is also displayed. The user can navigate to add price activity with the button.



This activity is used to add products to the database. The user can take a picture of the product and a picture of the barcode of the product (used for identifying products in db). Product name and category (and sub categories) can be selected.



These activities are used to add a price to a product in a certain shop. The product can be manually selected or it can be automatically selected if the user navigated here from other product. In the second screen the user selects the shop from the map or by searching from the list. The list automatically contains the nearest shops and also shows the distance to them. The third screen is used for adding the price(s) of the product.

This activity is used to add a shop to the database. The user can type the name of the shop and address or they can get the address from map/GPS.

# Z:\Android\gitti\AndroidProgramming\doc\ERmodel.pngER model

The model for the MySQL database contains entries for Products and Categories for products and Shops that can be linked to products with a unit price or a quantity price (or both).

# Work load and planning

Week 45

Database setup (maybe digital ocean?) and starting to implement business logic and activities.

Week 46

Database working and some data can be inserted from app.