SHOPPING LIST APP

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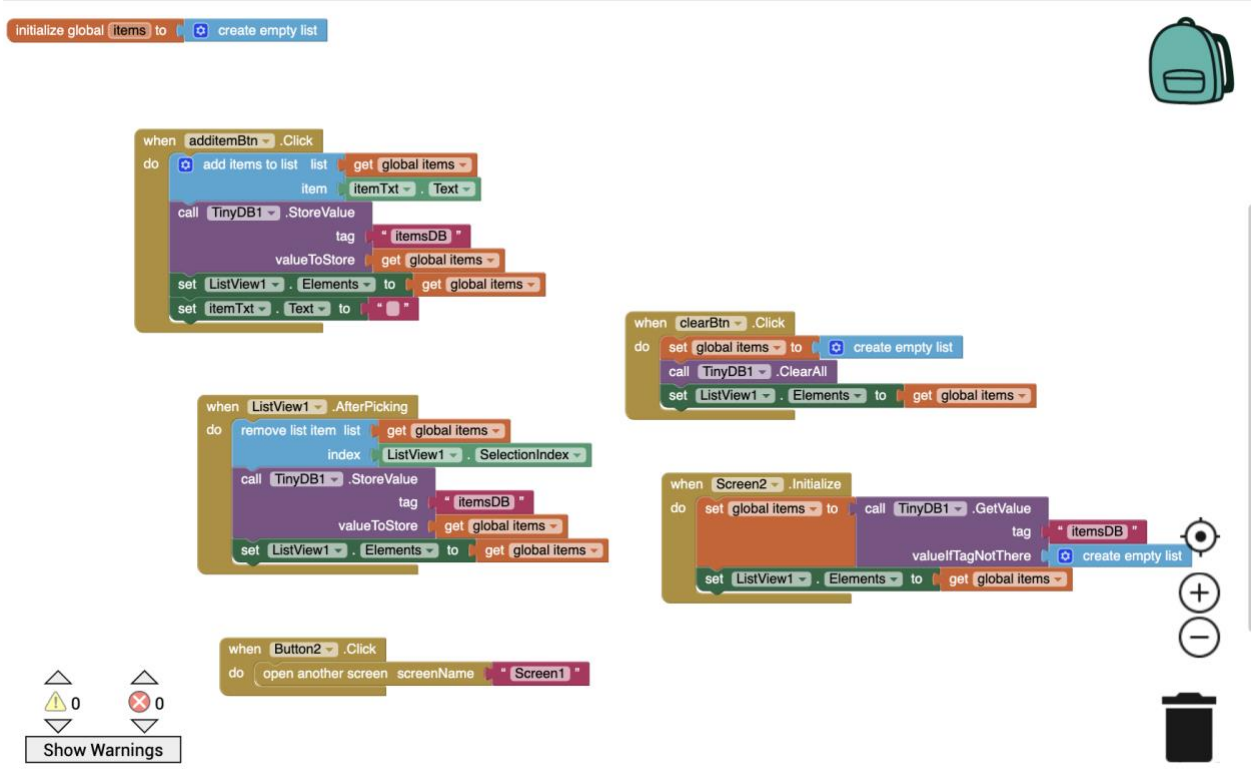
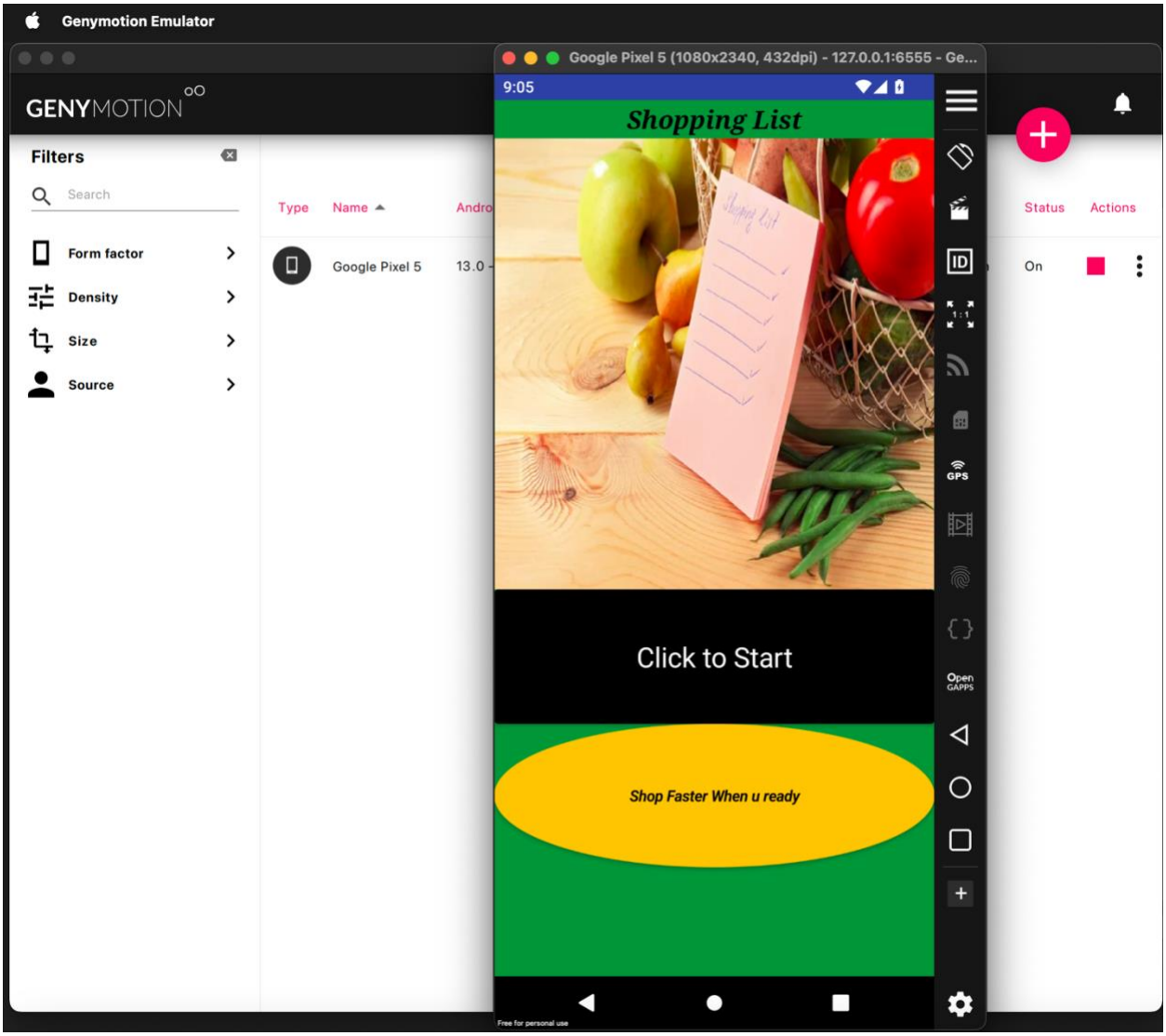
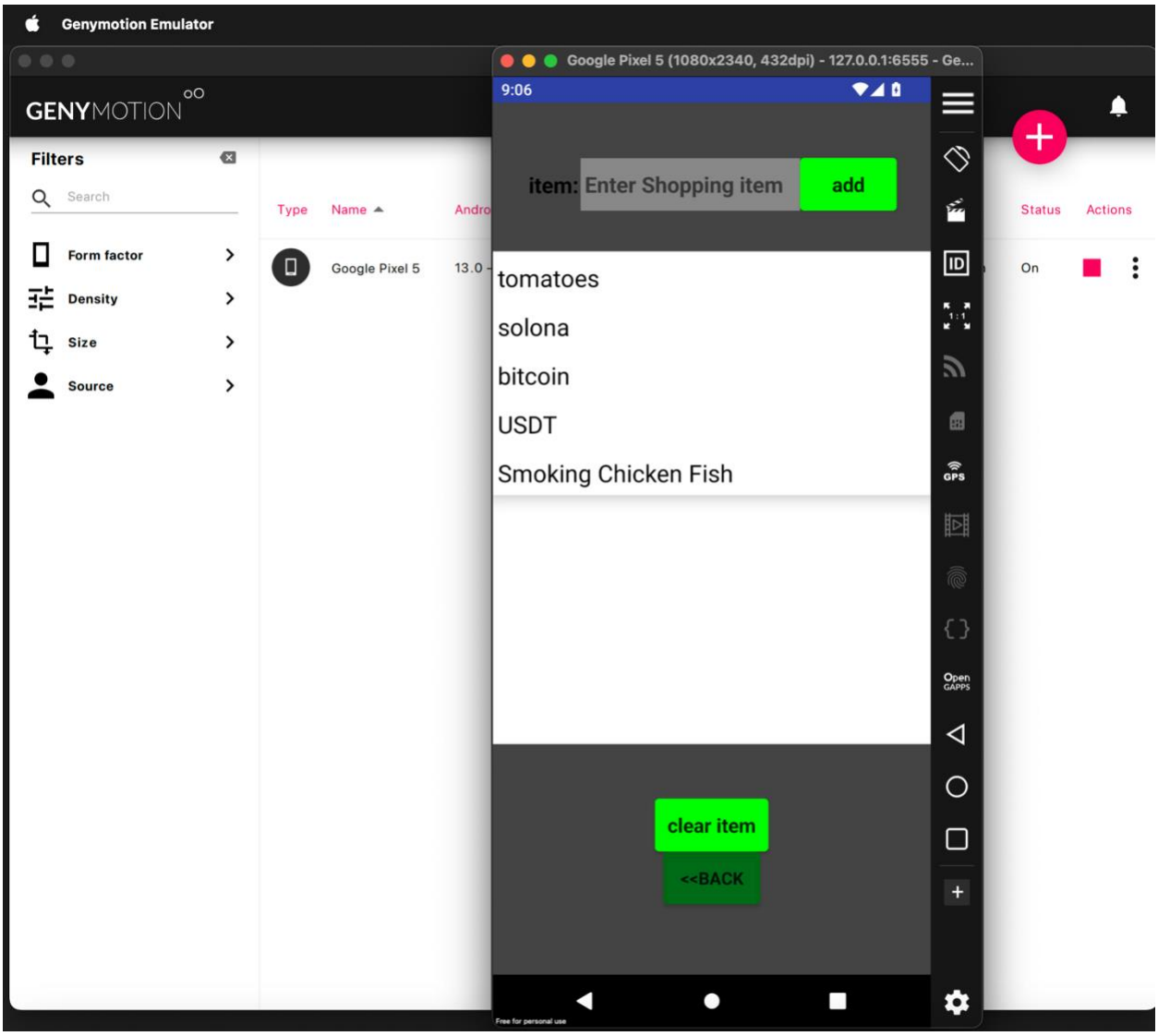
App Code blocks code SCREEN1

SCREEN2


initialize global items to create empty list
when additemBtn .Click
do add items to list list get global items
item itemTxt . Text
call TinyDB1 .StoreValue
tag " itemsDB "
valueToStore get global items
set ListView1 . Elements to get global items
set itemTxt . Text to " "
when ListView1 .AfterPicking
do remove list item list get global items
index ListView1 . SelectionIndex
call TinyDB1 .StoreValue
tag " itemsDB "
valueToStore get global items
set ListView1 . Elements to get global items
when clearBtn .Click
do set global items to create empty list
call TinyDB1 .ClearAll
set ListView1 . Elements to get global items
when Screen2 .Initialize
do set global items to call TinyDB1 .GetValue
tag " itemsDB "
valueIfTagNotThere create empty list
set ListView1 . Elements to get global items
when Button2 .Click
do open another screen screenName " Screen1 "
0
0
Show Warnings

Screenshots of the app running in external emulator Genymotion.




Genymotion Emulator
GENYMOTION
Filters
Search
Form factor
Density
Size
Source
Type
Name
Google Pixel 5
Status
Actions
On
Google Pixel 5 (1080x2340, 432dpi) - 127.0.0.1:6555 - Ge...
9:06
item:
Enter Shopping item
add
tomatoes
solona
bitcoin
USDT
Smoking Chicken Fish
clear item
<<BACK

Reflection.

Building the Shopping List/To-Do List app with MIT App Inventor was a great learning experience. I learned how to put together different elements like Text Boxes, Buttons, and List Views to create a user-friendly interface. I enjoyed designing the layout, trying out various colors, and arranging components to make the app both functional and attractive.

One of the biggest challenges was figuring out how to use **TinyDB** to save data. At first, I found it hard to understand how to store and retrieve the list items. But after exploring **TinyDB** blocks and watching tutorials, I learned how to save data with tags, which made it much easier to keep the shopping list items even after closing the app.

Another challenge was updating the **ListView** properly when items were added, removed, or cleared. I found that using global variables to keep track of the list helped ensure that **TinyDB** and **ListView** stayed in sync. Debugging this part taught me how important it is to manage data flow carefully so that each part of the app shows the correct information.