

Assignment #2

Cash Register Application

Objectives:

- Use Android Studio to create Android app for cash register;
- Use Text View, Buttons and other UI components;
- Use constraint layout, relative layout and table layout;
- Create click listener and manage events;
- Create models to manage application data;
- Handel incorrect user's input.
- Multiple page navigation and passing data between activities.

8:51 Assignment_2

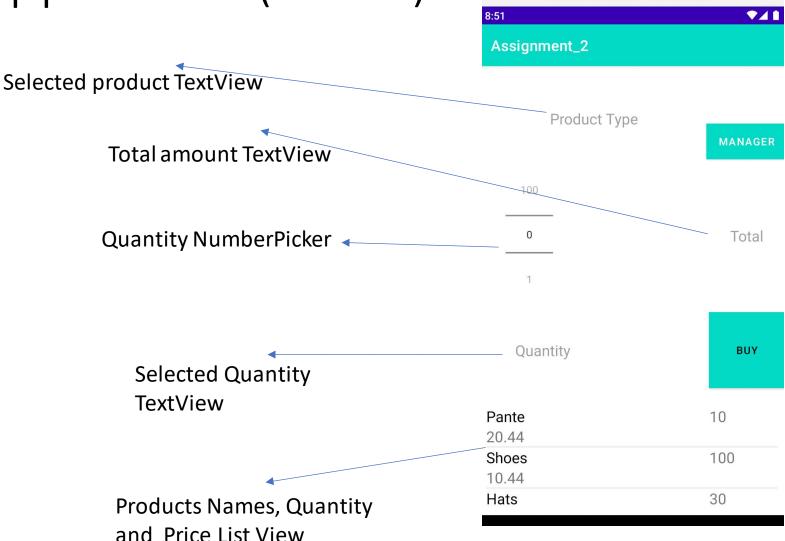
Part 1:

UI

- Constraint Layout
- Number Picker
- 1 List View
- 3 Text Views
- 1 Buy Button

Buy the amount that the user entered

Each Product has name, quantity and price attributes.

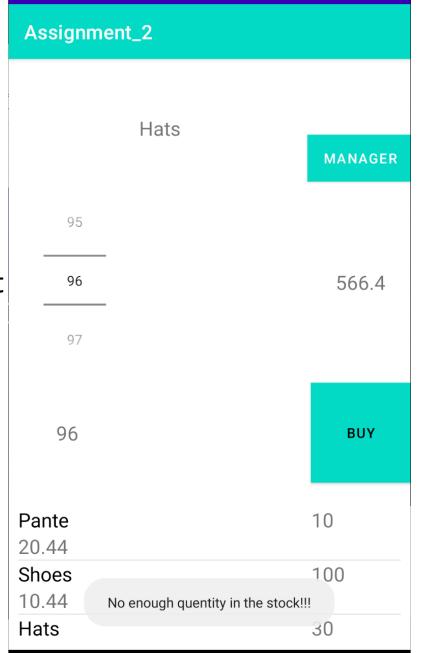


Interactive with UI:

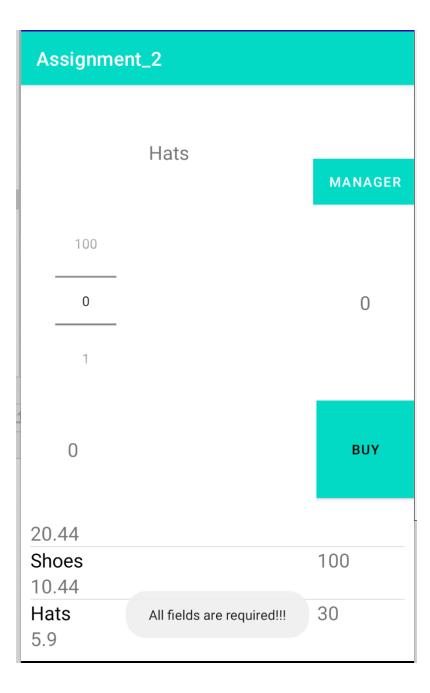
- When the user selects one product from the list, the product textview must updated to have the product name;
- When the user selects the quantity from the number picker, the quantity textview must be updated to have the selected quantity;
- Total label should show the total price of that purchase
- Total = amount * item price

Assignm	ent_2	
	Pante	MANAGER
2 3		40.88
2		вич
Pante 20.44		10
Shoes 10.44		100
Hats		30

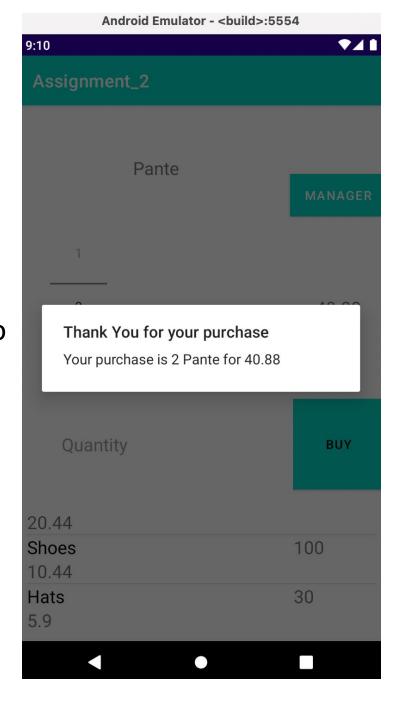
If the user selects a quantity which is more that the available quantity in the stock, a toast popped up with an error message.

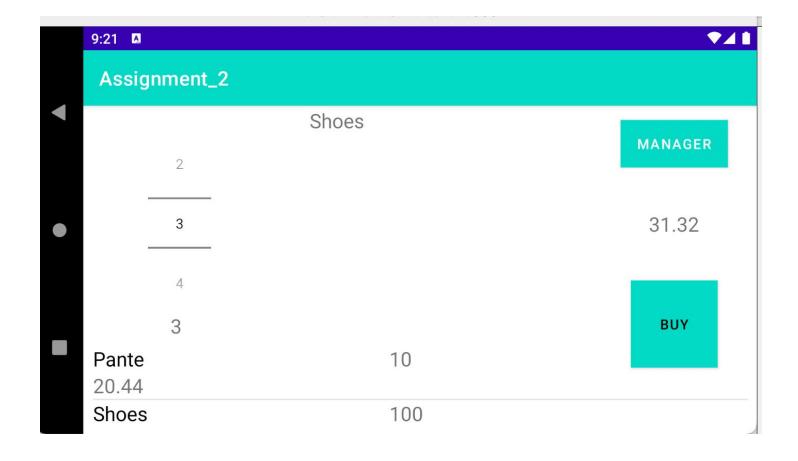


If the user clicks on Buy button without selecting a product or a quantity, an error message must appear.



- When the user clicks on Buy Button the quantity of the purchased item should be updated and the user interface should be reset to accept a new purchase.
- New quantity = old quantity – purchased amount





Support Landscape and Portrait orientation in your first activity, using Constraint Layout.

- Take Cash Register From Part 1
 Rearrange as you wish so all these Components would fit

 3. Add a manager Button
- When manager button is clicked The next page (Manager Panel) will appear.
- The Manager page has one History Button.

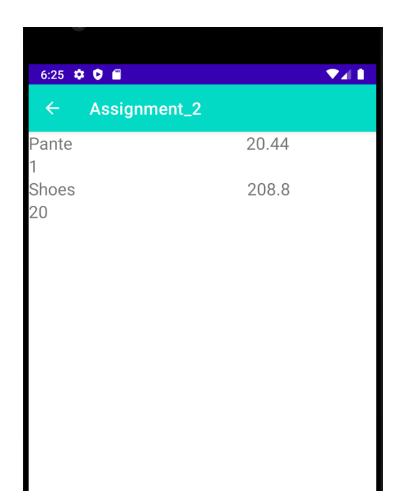


HISTORY

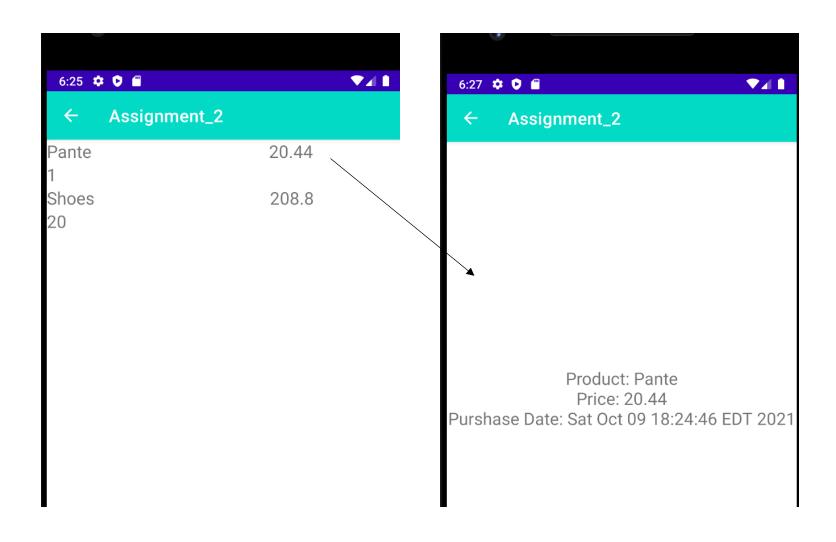
RESTOCK

History List

- History Page list all purchased products, quantities and total price.
- When the user selects one item the app navigates to another page with more details about that purchase.
- Note: You will need to add the model class To be able to obtain some sort of history Object and show it here.
- Your history class (object) should have these properties(Name, Quantity, Total price, purchase date).
- History Table must use recycler view and adapter.



History Details



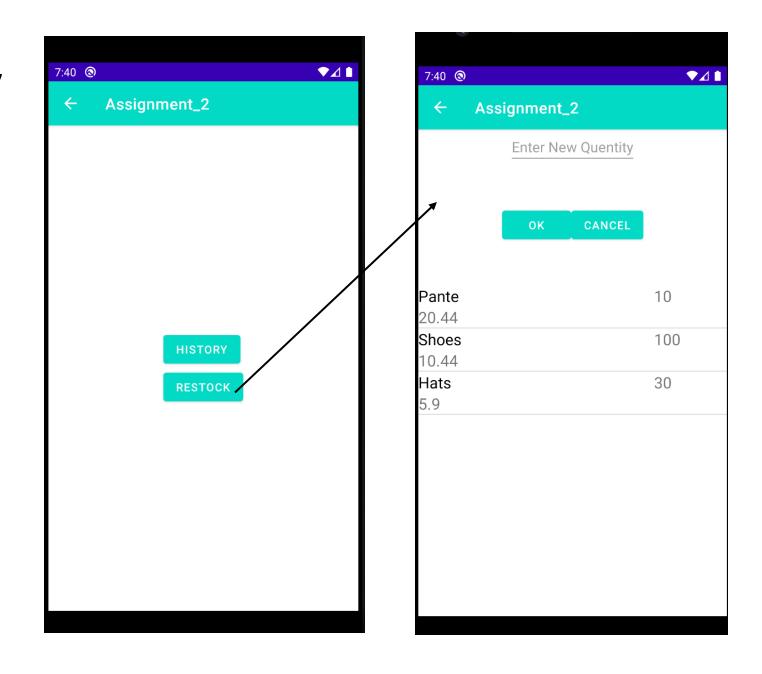
- When the user clicks on one purchases, the app will navigate to detail page, where the user could check the purchase date.
- The use could click on Back Button to come back to previous page.

Restock Activity

Restock Activity Layout:

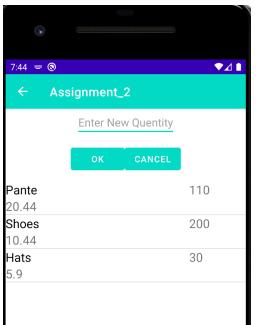
- Edit text, to enter the new quantity.
- Two buttons, ok and cancel.
- List View shows the stock list of product

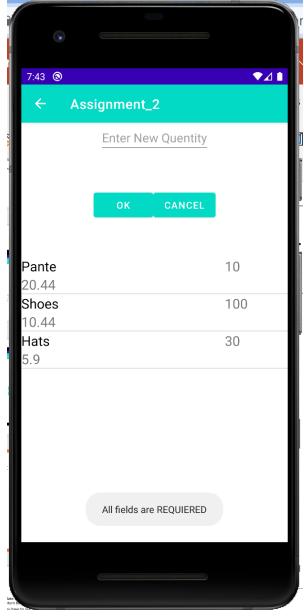
When the user select a product and enter a new quantity, it will be added to the existing quantity and update the stock.



Validating User's input

- 1. If the user clicks on OK button without selecting an item or entering a quantity, a Toast with an error message must appear.
- 2. The user should be able to update the quantity of an item by adding the inserted value to the existing quantity.
- 3. Clicking on Cancel must return the user to the Manger page.





Important Notes to consider

- Make sure to see the updated list when you return to Main Activity after updating quantity in restock activity.
- You have to use Recycler View and Adapter in History List.
- Make sure to design all layout using constraint layouts.
- You have to rotate your device during the video demonstration.