MAPAssignment #1 Cash Register Application



Objectives:

- Use Xamarin Forms to create both cross platform app for cash register;
- Use Labels, Buttons and other UI components;
- Use Stack Layout, Grid and List view layouts;
- Create Handlers and manage events;
- Create models (add, delete and update) to manage application data;
- Handel incorrect values.
- Multiple page navigation.

Cash Register Application (Part 1)

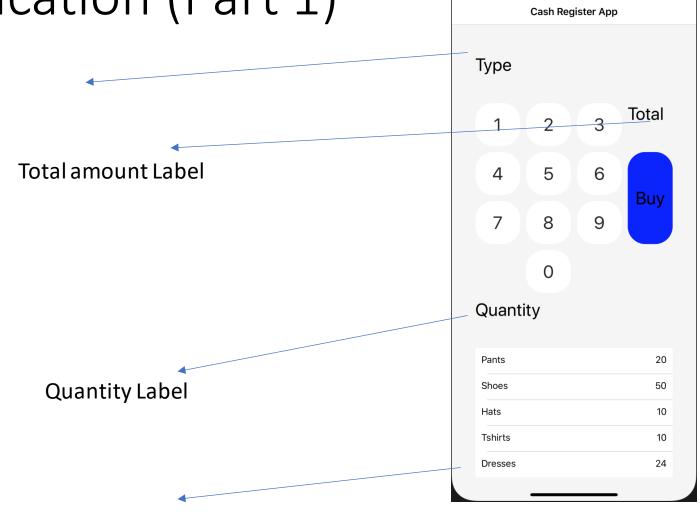
Part 1:

UI

- Grid layout
- 9 digits Buttons
- 1 List View
- 3 Labels
- 1 Buy Button

Buy the amount that the user entered

Each Product has name, quantity and price attributes.

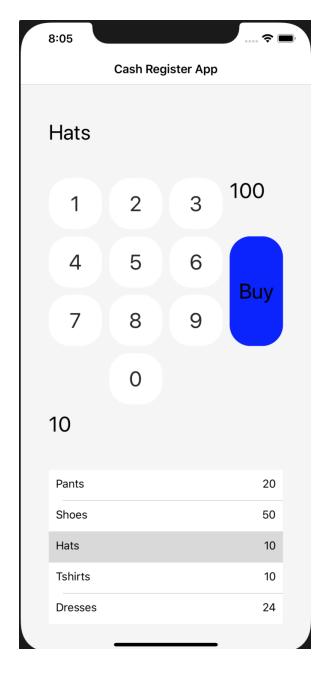


Products Names, Quantity and Price List View

Cash Register Application (Part 1)

Interactive with UI:

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

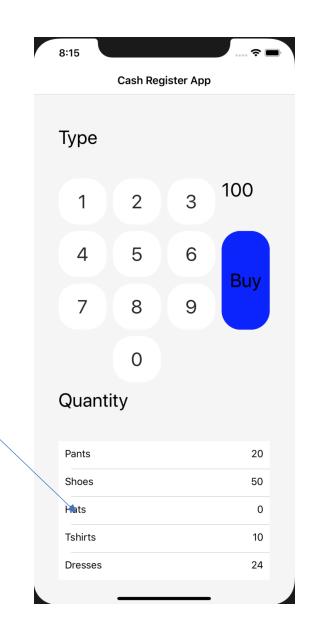


Cash Register Application (Part 1)

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

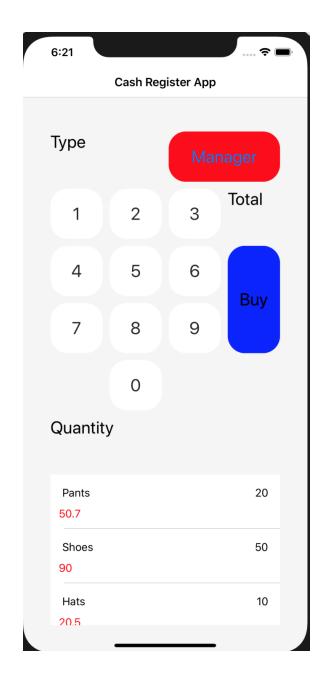
If the user selects a quantity which is more that the available quantity in the stock, an alert popped up with an error message.



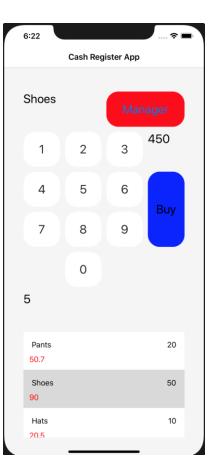
Cash Register Application (Part 2)

- 1 Take Cash Register From Part 1
- 2. 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.



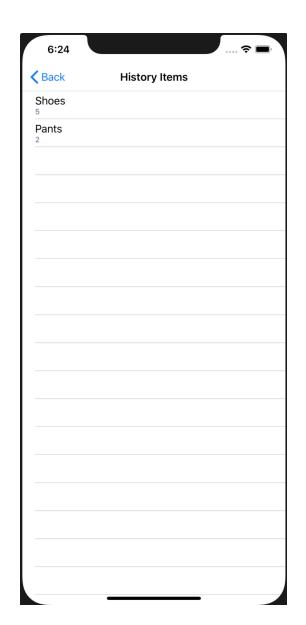
The Manager page has two buttons History and Restock

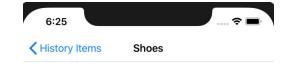




History

- History Page list all purchased products with quantities.
- 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).





Shoes 5 1/27/2020 6:25:20 PN Total amount :450.00

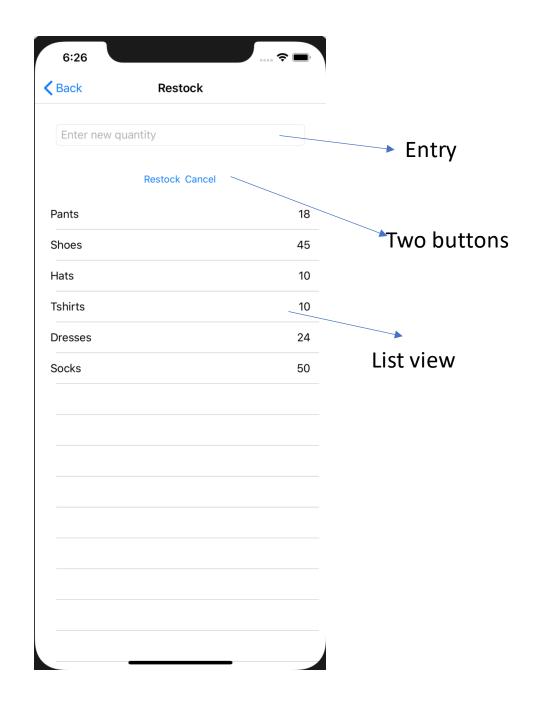
Restock

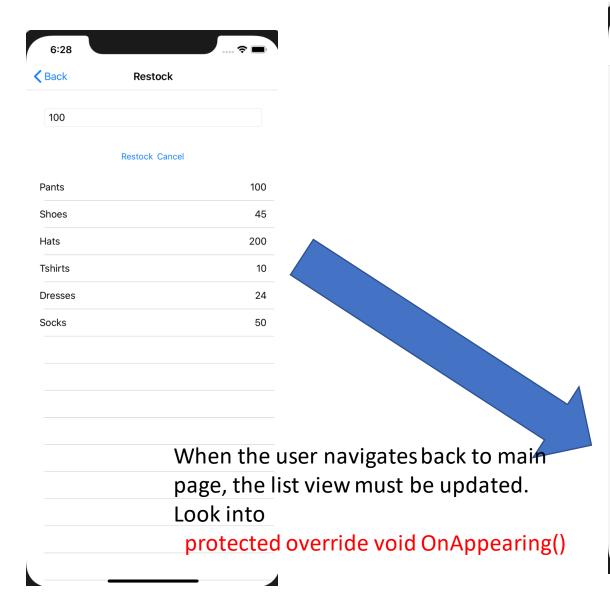
Will show everything the Store has In the stock

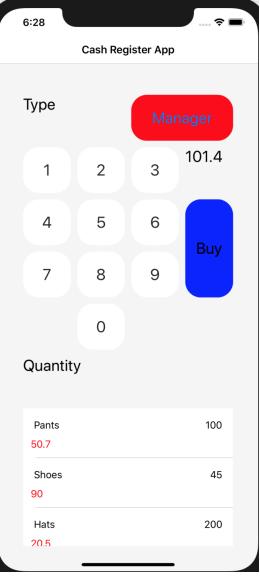
When the manager selects a product and enter a new quantity in entry view, by Pressing on Restock button, the Item's Quantity will be added with the new amount.

List view will get updated instantly.

Cancel button will navigate back to manager panel.

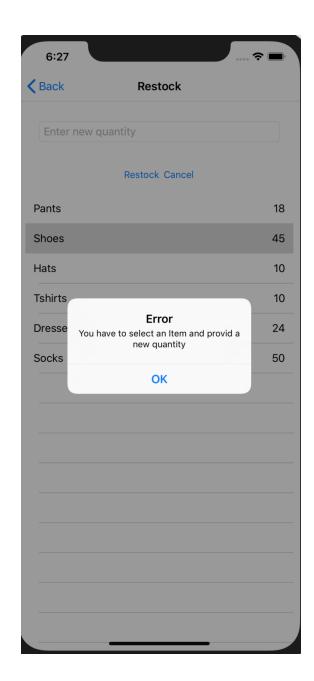


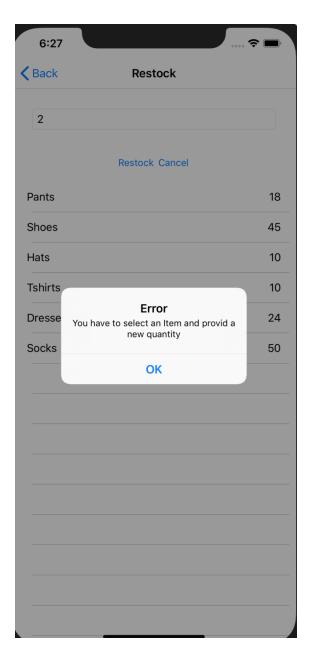




Handel misusing

If the user selects an item from the list without entering a new quantity OR if the user enters a new quantity without selecting an item from the list, the app should display an alert.

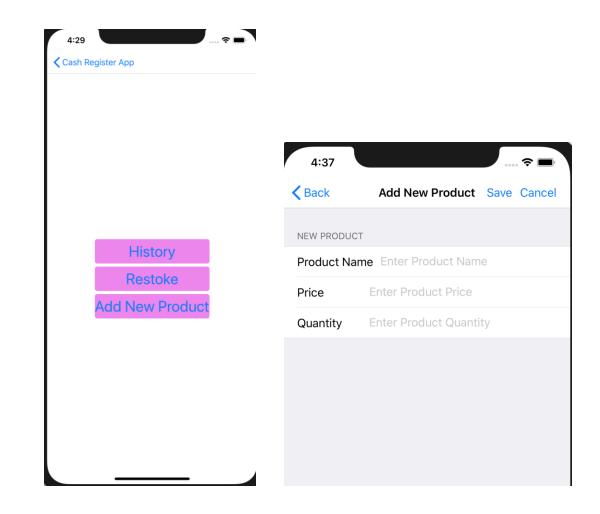




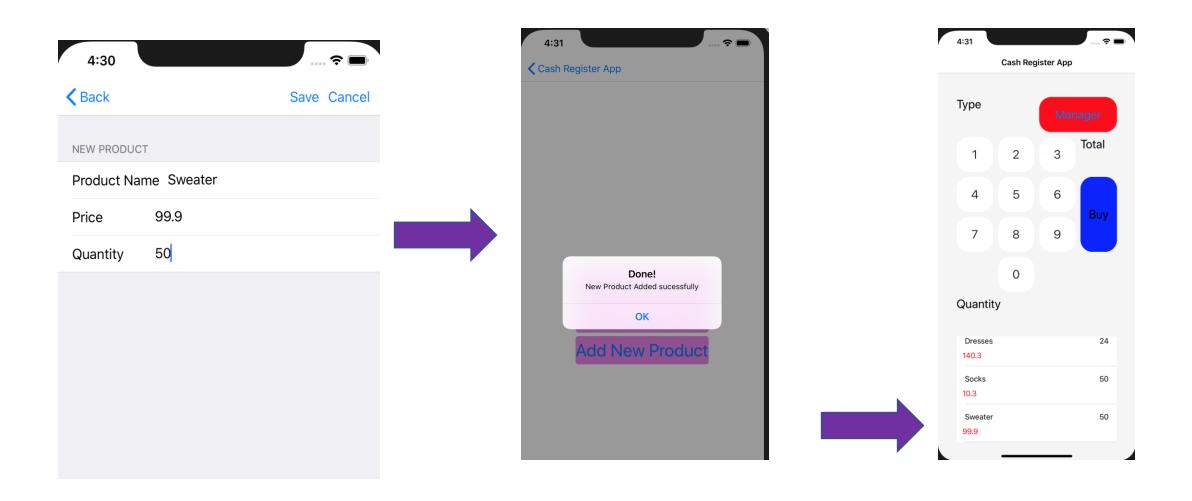
Additional functionality (Optional)

Add a new functionality to manager panel, where the manager can add new product.

Add New Product page contains Table View with three Entry Cells and two bar items to save or cancel.



Additional functionality (Optional)



Good Luck