

# Problem Statement

## Objective:

Create a list of holdings (stocks invested) and populate the list as per the below screenshots. Create an expanded & collapsed state UI for showing the summary of your portfolio

Endpoint to fetch data: <https://35dee773a9ec441e9f38d5fc249406ce.api.mockbin.io/>

Points to be considered for evaluation:

1. Architecture (preferably Clean or MVVM) that can be scaled and used as a production codebase.
2. Responsibility segregation in modules
3. Specific to iOS: Clean UI (with no constraint warnings, preferably develop UI through code)

3:39		3:39	
Portfolio		Portfolio	
POSITIONS	HOLDINGS	POSITIONS	HOLDINGS
ASHOKLEY	LTP: ₹ 119.10	ASHOKLEY	LTP: ₹ 119.10
NET QTY: 3	P&L: ₹ 12.90	NET QTY: 3	P&L: ₹ 12.90
HDFC	LTP: ₹ 2,497.20	HDFC	LTP: ₹ 2,497.20
NET QTY: 7	P&L: -₹1,517.46	NET QTY: 7	P&L: -₹1,517.46
ICICIBANK	LTP: ₹ 624.70	ICICIBANK	LTP: ₹ 624.70
NET QTY: 1	P&L: ₹ 135.60	NET QTY: 1	P&L: ₹ 135.60
IDEA <small>T1 Holding</small>	LTP: ₹ 9.95	IDEA <small>T1 Holding</small>	LTP: ₹ 9.95
NET QTY: 3	P&L: ₹ 2.79	NET QTY: 3	P&L: ₹ 2.79
<b>IDEA</b>		<b>IDEA</b>	
Current value* ₹ 27,893.65		Current value* <b>Current value</b> ← ₹ 27,893.65	
Total investment* ₹ 28,590.71		Total investment* <b>Total investment</b> ← ₹ 28,590.71	
Today's Profit & Loss* -₹235.65		Today's Profit & Loss* <b>Today's PNL</b> ← -₹235.65	
Profit & Loss* ▾ -₹697.06 (2.44%)		Profit & Loss* ▾ <b>Total PNL</b> ← -₹697.06 (2.44%)	
Watchlist	Orders	Portfolio	Funds
Invest			

POSITIONS		HOLDINGS	
ASHOKLEY		LTP: ₹ 119.10	
NET QTY: 3		P&L: ₹ 12.90	
HDFC		LTP: ₹ 2,497.20	
NET QTY: 7		P&L: -₹1,517.46	
ICICIBANK		LTP: ₹ 624.70	
NET QTY: 1		P&L: ₹ 135.60	
IDEA	T1 Holding	LTP: ₹ 9.95	
NET QTY: 3		P&L: ₹ 2.79	
IDEA		LTP: ₹ 9.95	
NET QTY: 71		P&L: ₹ 66.03	
INDHOTEL		LTP: ₹ 142.75	
Profit & Loss* ^		-₹697.06 (2.44%)	
Watchlist	Orders	Portfolio	Funds
		Invest	

**Note** - Ignore tab bar, this is just for reference

→ This arrow indicates values from the JSON response

→ This arrow indicates values from the below calculations

#### Calculation:

1. Current value = sum of (Last traded price \* quantity of holding ) of all the holdings
2. Total investment = sum of (Average Price \* quantity of holding ) of all the holdings
3. Total PNL = Current value - Total Investment
4. Today's PNL = sum of ((Close - LTP ) \* quantity) of all the holdings

## Guidelines for Android

### Acceptance Criteria:

Your selection chances are higher if

1. You use the latest version of Kotlin.
2. You create UI Programmatically using XML. But, you are free to use composeUI.
3. You adhere to Google Material Guidelines and coding conventions.
4. Your app performs well in terms of CPU, memory and energy usage.
5. Your code is loosely coupled, testable and uses an architecture similar to MVVM, MVI, MVP.
6. You tastefully customise the UI and add animations etc.
7. Your app does not have too many dependencies on third party frameworks.
8. Your app runs smoothly offline.
9. Try to adhere to SOLID principles as much as possible.
10. Cover as much as corner cases and handle error scenarios.

### **Note: We may reject your application if**

1. *Your project fails to compile or compiled with warnings with the latest version of Android Studio.*
2. *If min sdk is below 21.*
3. *Your app does not layout correctly for all Android devices.*
4. *Your app has UI/logical flaws that make it difficult to use.*
5. *You do not have unit tests in your application with decent code coverage.*
6. *Your unit tests fail.*

## Guidelines for iOS

### Acceptance Criteria

Your selection chances are higher if

1. You use the latest version of Swift.
2. You create UI Programmatically using UIKit Framework
3. You adhere to Apple's Human Interface Guidelines and coding conventions.
4. Your app performs well in terms of CPU, memory and energy usage.
5. Your code is loosely coupled, testable and uses an architecture similar to VIPER, MVVM, MVP, etc.
6. You tastefully customise the UI and add animations etc.
7. Your app does not have too many dependencies on third party frameworks.
8. Your app runs smoothly offline.

### **Note: We may reject your application if**

1. Your project fails to compile or compiled with warnings with the latest version of Xcode.
2. If you use Swift UI
3. Your app does not layout correctly for all iOS devices that can run the current release of iOS.
4. Your app has UI/logical flaws that make it difficult to use.
5. You do not have unit tests in your application with decent code coverage.
6. Your unit tests fail.
7. If auto layout engine throws constraints error during runtime.