Smart Invest

Jun 10, 2020

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CHAPTER 1

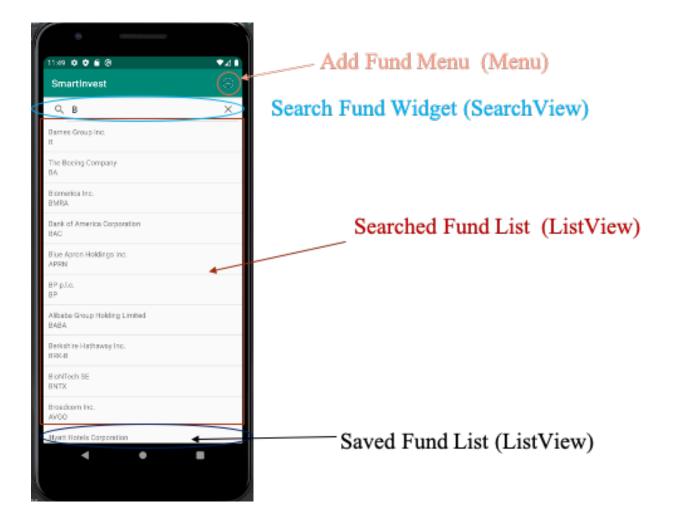
About Smart Invest

The functions of Smart Invest includs:

- 1. Developing a mobile invest app, together with test apps
- 2. Store stock transaction records, and calculate the returns automatically.
- 3. Send alarms to the owner when the stock price hit the preset constrain.

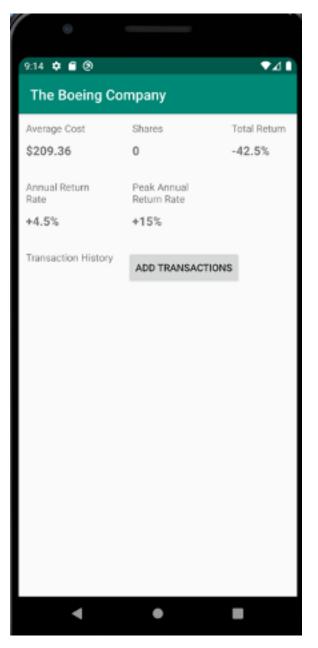
1.1 Main Layout

The main layout of the Smart Invest app is as follows:



1.2 One Fund Detail Layout

The details of one fund are presented as :



And the add/modify transaction interface is designed as:

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9:15 🌣 🖬 🕲)		₹⊿∎					
Add Trans	action o	of The Boei	ng Comp					
Transaction (Date							
Mar	15	2019						
Apr	16	2020						
May	17	2021						
Transaction State								
Buy			•					
Price								
Price								
Shares								
Shares								
Amount								
Amount								
			SAVE					
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CHAPTER 2

Transactions Table

The transaction table is designed to store each transaction in the database.

- Attributes
 - _id (integer): increased by 1 each insert automatically, primary key
 - fundSymbol (text, not null): unique for each fund, obtained from alphaVantage, should be the same universal
 - fundName (text): also obtained from alphaVantage
 - date (text, not null): transaction date, mm/dd/yyyy
 - price (real, not null): transaction price
 - shares(integer, not null): transaction share (positive: buy, negative: sell)
 - amount(real, not null): transaction amount
- The order of the records in the transaction table is based on _id.
 - The order of the date is not strictly from the oldest to the newest if the older record is inserted later.

An example of transaction table is shown below:

_id	fundSymbol	fundName	date	price	shares	amount
1	BABA	Alibaba Group Holding Limited	05/04/2020	190.62	2	381.25
2	BABA	Alibaba Group Holding Limited	05/08/2020	200.98	-1	200.98
3	BABA	Alibaba Group Holding Limited	05/01/2020	196.68	2	393.37
4	BA	The Boeing Company	03/30/2020	144.24	1	144.24
5	BABA	Alibaba Group Holding Limited	04/28/2020	201.78	2	403.56