

Task #2:

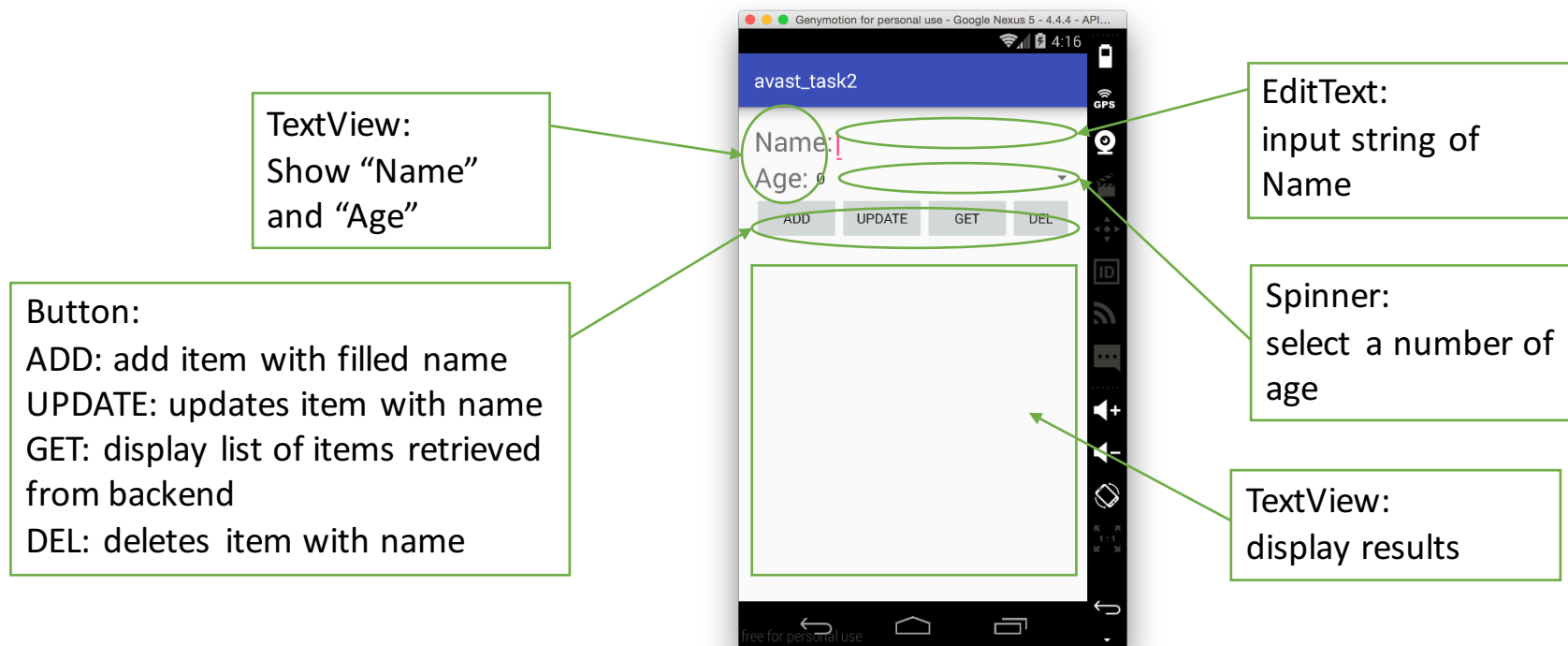
Develop demo Android APP requesting backend

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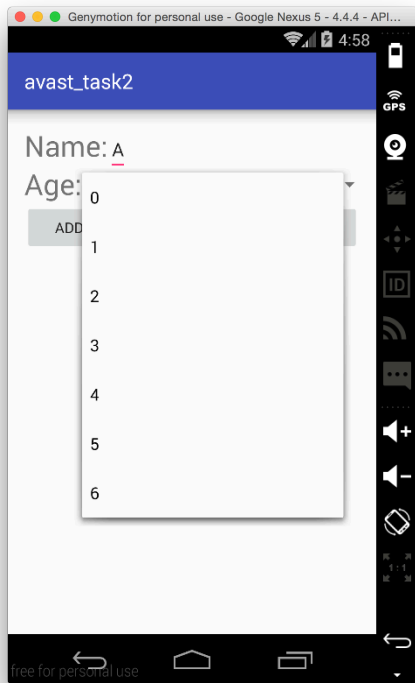
Instructions

- Environment
 - Android Studio 2.1(<https://developer.android.com/studio/index.html>)
 - VirtualBox 5.0.20(<https://www.virtualbox.org/wiki/Downloads>)
 - Genymotion 2.6.0(<https://www.genymotion.com/#!/download>)
- Start
 - backend
 - using node.js of Task #1
 - start with command
 - % node index.js
 - open Android Studio
 - import project
 - choose the build.gradle file and press OK

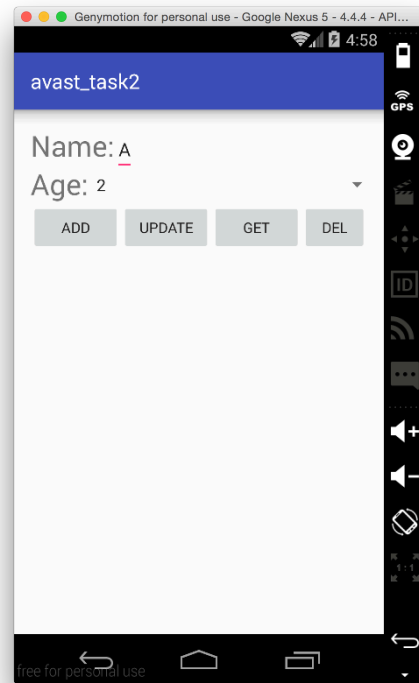
Layout of UI



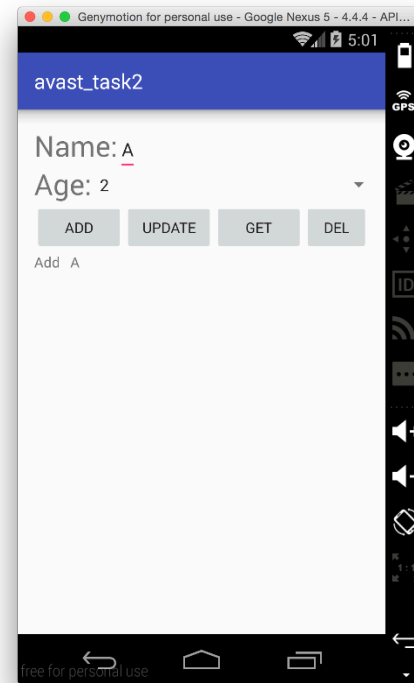
Result: ADD item



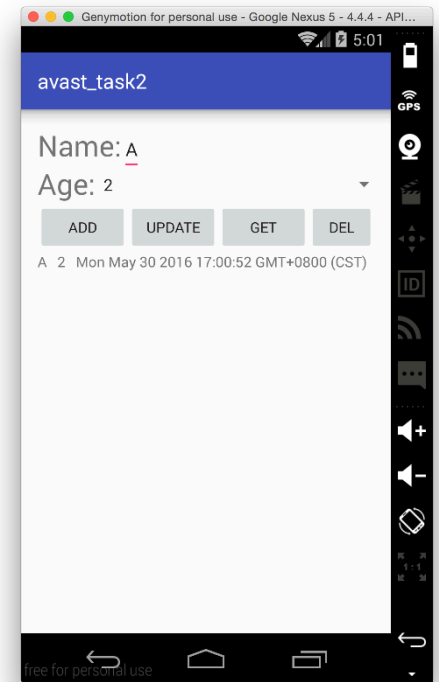
Input a "Name"
Select a number
of "Age"



Filled a number
of "Age"

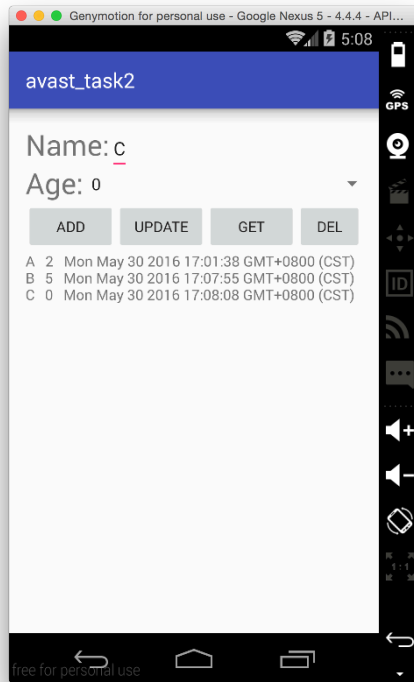


Press "ADD" button
and show a status

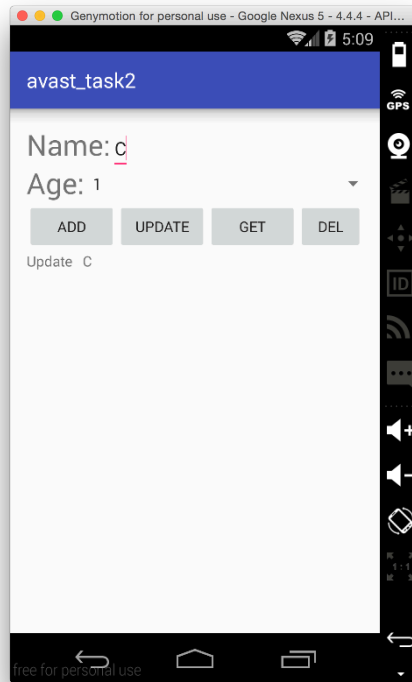


Press "GET" button
and show a list

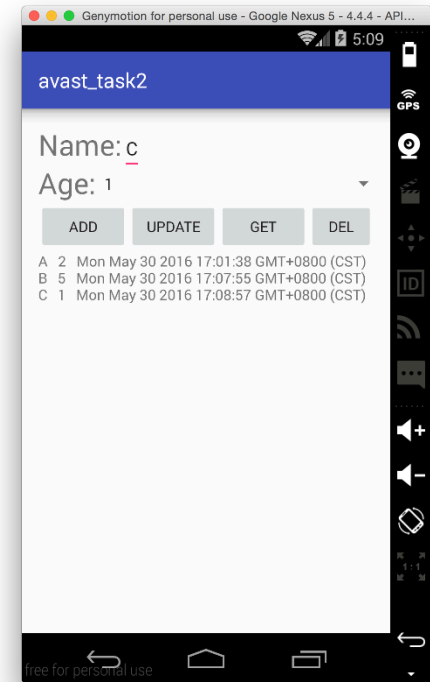
Result: UPDATE item



Get a list
The age of "C" is 0

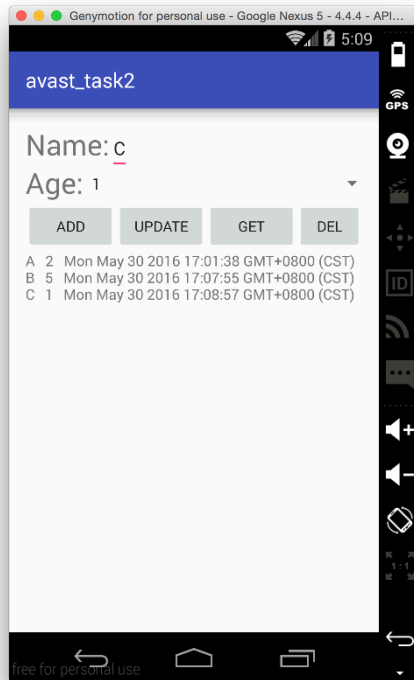


Input "Name" and "Age"
Press "UPDATE" button
and show status

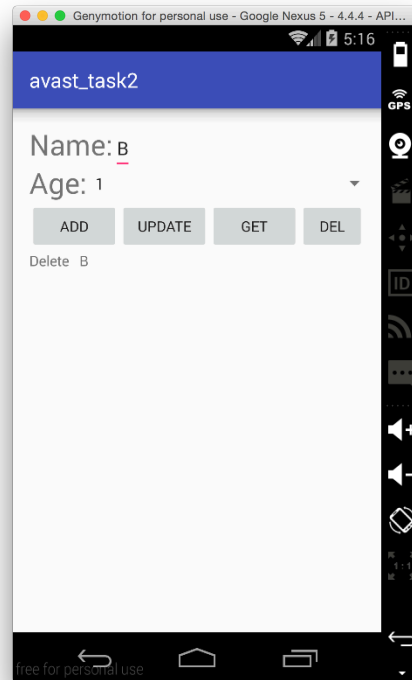


Re-get the list
The age of "C" set to 1

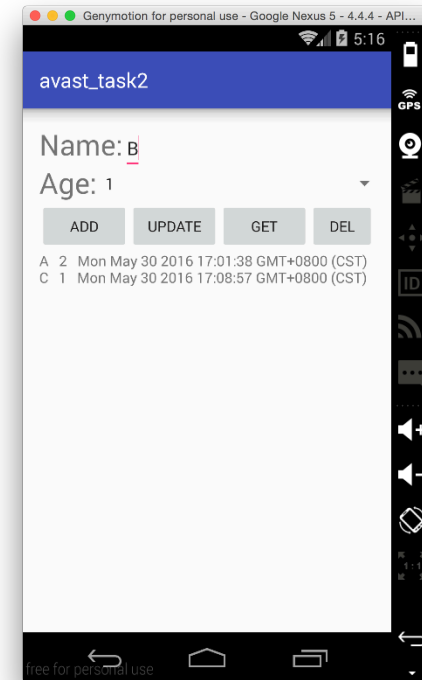
Result: Delete item



Get a list
The list has 3 items



Input a "Name"
Press "DEL" button and
show status



Re-get the list
The list remain 2 items

Console Log of Backend

```
[cmli@DHCP-19099:~/Desktop/Sinica/me/ntu/bd/android/avast_task1]% node index.js
AVAST_TASK1 listening on port 3000!
Mon May 30 2016 16:58:24 GMT+0800 (CST) [GET] Name:
Mon May 30 2016 17:00:44 GMT+0800 (CST) [GET] All
Mon May 30 2016 17:00:52 GMT+0800 (CST) [PUT] Add: A
Mon May 30 2016 17:01:12 GMT+0800 (CST) [GET] All
Mon May 30 2016 17:01:38 GMT+0800 (CST) [PUT] Add: A
Mon May 30 2016 17:01:44 GMT+0800 (CST) [GET] All
Mon May 30 2016 17:07:55 GMT+0800 (CST) [PUT] Add: B
Mon May 30 2016 17:08:08 GMT+0800 (CST) [PUT] Add: C
Mon May 30 2016 17:08:10 GMT+0800 (CST) [GET] All
Mon May 30 2016 17:08:57 GMT+0800 (CST) [POST] Update: C
Mon May 30 2016 17:09:05 GMT+0800 (CST) [GET] All
Mon May 30 2016 17:16:11 GMT+0800 (CST) [DELETE] B
Mon May 30 2016 17:16:20 GMT+0800 (CST) [GET] All
```