

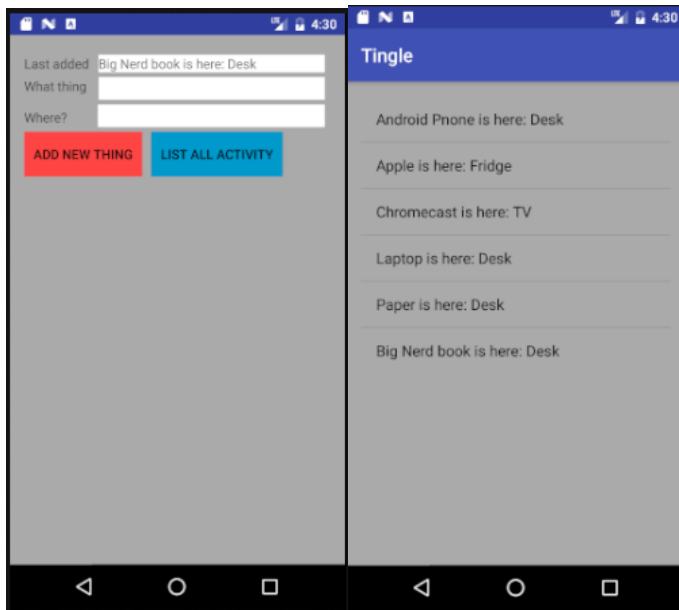
1-mandatory assignment

Course : Mobile App Development, MSc (Spring 2017)

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User-interface: In this project, I made a Tingle app that enables the user to store the location of various things. The user interface consists of two 2parts, portrait and landscape mode.

Portrait mode:

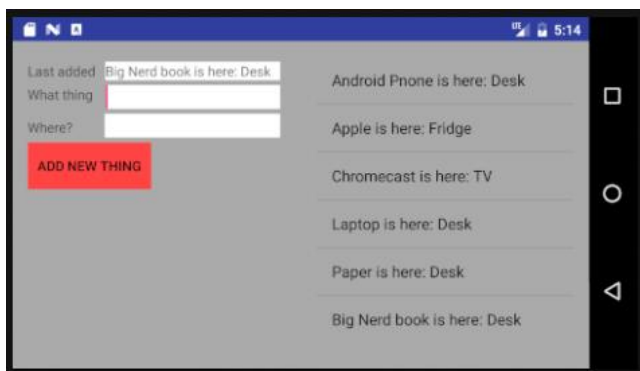


The first image to the left shows where the user can write in the text fields items he wants to store the location and save them by clicking on the add new thing button. If he clicks the right button he will see the second view.

This is view enables the user to see all stored items and delete them by clicking on the item he wants to delete and select yes when he is prompted to confirm if he wants to delete that item.

Landscape mode : In the landscape mode, we have the same interfaces as mentioned before but they are displayed in the same window by running in two fragment containers who are lined side by side.

In this view the list is displayed on the right so there is no need for the list all button. It is also possible to click the items on the list to delete them.



Design:

There were several functionalities required in this project that were accomplished, but the design of the app itself was mostly up to the students. In this project there were several design choices made :

Fragments:

there are 2 ways to implement fragments, static ones which are defined in the xml code and dynamic which are implemented in the java code. Both types were used. In the Landscape mode, there were 2 static fragments added to display the list and the detail interface, and in portrait mode, the detail fragment and detailList fragment were injected programmatically in detail activity and also the activityList layout.

Delete button:

It was a requirement to add a delete button to the project but it was up to us to design that functionality, first I was thinking about having a small delete button in each list element, but I thought it would be nicer just to add a listener to the list so when an element was clicked, the user would be asked if he wanted to delete the item, and if he said yes the item will be deleted.

Extensions :

Extensions on this project were to add the delete button and implement fragments.

Tests:

To make sure the application was working as intended several tests were performed:

Add New Thing button:

This button should add new items to the thingsDB arrayList, and the last added item should be displayed in the last item added window. - This has been tested and works.

List all things button

In portrait mode, then the user should be able to press the "list all things" button and go to the listview which shows all items. This has been tested and works.

Delete – functionality:

One of the requirements is that the user should be able to delete items from the list, this can be performed by clicking on an item and confirming that the item should be deleted when asked in a pop-up textbox. This has been tested and works.

Update list when new items added in landscape mode:

When the user is in landscape mode and he adds items to the thingsList, the list should be updated. This has been tested and works.