

Assignment-1: To-Do List

A To-Do list application was created where a user can enter a task's title and description and add to his list. The tasks can either be deleted either by long clicking them or by clicking the check box provided at the right corner of the tasks. It was implemented in the following way.

Layouts:

activity_main.xml: This was used to create the initial layout of the app. I used Linear Layout for the whole screen to include the button, edit boxes, title and listview. A space of 30dp height was used to separate the title – edit boxes, edit boxes – listview, listview – ADD button. A background box was used to represent task title and description as a single task together. I used linear layouts to separate edit boxes and include them in background box. An OnClick function 'click' was used to add the tasks.

Mylinearlayout.xml: This layout was used to implement adapter to display the text boxes of description in the listview. Two text boxes were used to display the title and description of each and every task. A checkbox was added at the right end corner to allow the deletion of the task on checking it.

Java Files:

MainActivity.java: I used two edit boxes to get the details of the task. The title and description of the task are stored as an array of the string and this array is saved in an ArrayList. The main functions defined in this file are:

initiate(ArrayList<String[]> list): Will print the contents to myfile.txt which has the previous information that is updated while adding and deleting tasks and updates the listview contents. Whenever the array list is updated this function is called so that the listview is changed accordingly.

click(View view): The click function is as OnClick function of the ADD button. When it is called, all the contents of the edit boxes are converted to strings and added to the ArrayList as array of strings. This array list is passed to the initiate function to print the tasks to file and print them in listview.

setItemLongClickListener: This function deletes the listview items on long clicking them. This function gets the index of the listview the user is accessing and removes the item from it.

Apart from these functions, onStart, onPause, onResume, onStop, onDestroy are also defined so that the progress of the application is not lost.

MyAdapter.java: This file is used to display the ArrayList items as listview. Inflater method is used to display the tasks in textboxes.

setOnClickListener: This function is used to delete the items on clicking the checkbox provided.