SPECIFICATIONS

The app starts off with a main activity containing a welcome text and two buttons.

On pressing the first button, the app displays a second activity containing only a single line editor field. The second activity allows the user to enter a phone number. The phone number must conform to the following format "(xxx) xxx-xxxx", where "x" denotes a digit, although the phone number could be preceded and followed by a random number of white spaces. When the user clicks the "Done" key on the virtual keyboard, the second activity reads the number entered by the user.

The second activity checks whether the number just entered conforms exactly to the above format. If it conforms, this activity sets a result code of "RESULT OK"; otherwise, it sets a result code of "RESULT CANCELED". The number is then packed (as a string) into the intent that the first activity used to start the second activity. Finally, the second activity terminates itself, thereby causing the first activity to become visible again.

Upon returning from the second activity, the first activity checks whether the result code. If it is "RESULT OK", the user may press the second button in the first activity causing the device to display the phone dialer activity (without making the call), while displaying the number that was entered in the second activity in the dialer window. But, if the result code is "RESULT CANCELED", when the user presses the second button, the first activity displays a toast message informing that device user that she entered an incorrect number and includes the number.