

# CSE 483 Midterm 3

Olcay Taner YILDIZ

## I. QUESTION (DOODLZ APPLICATION) (50 POINTS)

Make the following enhancements to the Doodlz app:

- a) (15 points) Allow the user to select a background color. The erase capability should use the selected background color. Clearing the entire image should return the background to the default white background.
- b) (10 points) Use a sharedPreferences file to save current color and current line width.
- c) (10 points) Play sound when the picture is cleared.
- d) (15 points) Allow user draw rectangles. Add two menu items, line mode and rectangle mode. In line mode, the default application runs. In rectangle mode, the first touch on the screen represents the upper-left corner of the rectangle and the second touch on the screen represents the lower-right corner of the rectangle. After the second touch, the application will draw rectangle with the selected line width and line color.

## II. QUESTION (ADDRESS BOOK APPLICATION) (50 POINTS)

Make the following enhancements to the Address Book app:

- a) (15 points) Make the necessary modifications both in the user interface and in the code to store the surname info of the contact person as a separate field.
- b) (15 points) The application should not only show the name but also the e-mail of the contact person.
- c) (10 points) The application should sort the contact persons with respect to their surnames.
- d) (10 points) Modify delete contact such that it will delete all contacts.