Lab Assignment #4

Week 9. Due Date:

Purpose: The purpose of this lab assignment is to:

Develop Android Apps using Data and Storage API

References: Textbook, ppt slides and Android tutorials

(http://developer.android.com/guide/topics/data/data-storage.html,

http://developer.android.com/guide/topics/data/data-storage.html#db). This material provides the necessary information that you need to complete the

exercises.

Be sure to read the following general instructions carefully:

- This assignment may be completed in pairs following pair programming rules: http://www.extremeprogramming.org/rules/pair.html.
- You will have to **demonstrate your solution in a scheduled lab session** and upload the solution on eCentennial through the **dropbox** link.
- Name the project using the rules indicated in assignment 1. However, you should use the full names of both team members.

Exercise 1

In this exercise you will write an Android application that allows the nurses/doctors to keep track of various tests performed daily on patients in a hospital. Your application could be used by doctors and nurses in hospitals or testing centers. Use SQLite classes (as shown in class examples) to create and manipulate the application's database. Create the following tables:

Patient	Test	Nurse	Doctor	
patientId	testId	nurseId	doctorId	
firstname	patientId	firstname	firstname	
lastname	nurseId	lastname	lastname	
department	BPL	department	department	
doctorId	BPH	password	password	
room	temperature	requ	uirement 1, 2, 3 contra	adict each other??

Add more fields to Test table, to describe **other medical tests**.

Aplication Preferences

1. retrieve instance Allow the nurses/doctors to login and enter/read test information for a patient. Use sharedpreferences nurseId and doctorId as user names for nurses/doctors. private prefs obi

2. Create another activity that allows nurses to enter test data. each activity gets only one group of

3. Allow the doctors to display test information for a given patient private preferences

2. create

4. Allow the doctors/nurses to **update/display patient information**. SharedPrefs sA = getPrefs to modify pref content

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3. make changes shared prefs - store private primitive data in key-value pairs to pref using editorsually used for application state, simple user information, configuration options, other similar info can be stored at the Activity level or preferences shared across all of an app's activities

4. commit the changes cannot be shared outside of the package

Depending on whether logged in as doctor/nurse, see different options dynamic menu

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6. Provide a friendly and easy to navigate UI. Use images and image buttons.

(10 marks)

Evaluation:

Functionalities:	75%	to Kevin ▼
All working, proper naming of activities,		Hi Kevin,
variables, and methods. Provide comments. Provide explanation when asked during the demonstration of the app.		The nurse user can view and update the tests. The doctor user can view the tests.
		Thanks,
UI friendliness (proper layout, controls,	15%	ILIA
styles, themes, images)	-	
Declaring resources in proper resource files	5%	
Innovative features	5%	
Total	100%	

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