

CIS472/594: Android Programming

Homework 5 – Shared Preference

Due Date: April 4, Tuesday, at 11:59pm

SUBMISSION INSTRUCTIONS

1. Please submit your whole project as a .zip file on BlackBoard.
2. Demo to me after class or in office hours.

Note: I will give you a rubric which specifies the spec that works and not. It also needs to tell me what extra credits you implemented. Please submit the rubric.doc file along with your .zip file.

For this homework you will build an application that asks students to complete Course Evaluation Survey at the end of a semester.

REQUIREMENTS

- Version – your app should work for Android 4.0.3 or above (Minimum API 15)
- Make the orientation of your app Portrait Mode
- You will need
 - 3 main activities
 - **Main Activity**
 - this will display two buttons: one is **Take Survey**; the other is **See Result**
 - If the user clicks **Take Survey**, the app will go to the **SurveyActivity** for taking the course evaluation survey.
 - If the user clicks **See Result**, the app will go to the **ResultActivity** in which displays the result of the course evaluation survey. You must display the result in a **user friendly** and **intuitive** way. This is a part of your *grade*.
 - **Survey Activity**
 - This will display a set of course evaluation questions. Because there are more than one question, you can add as many activities as you want so that each Activity displays one question for the user to answer. **Note, you must allow the user to use “Swipe” gesture to go from one activity to another! If the user “swipe” right, you go to the previous activity; if the user “swipe” left, you go to the next activity.**

- Your app must allow partially complete survey including **saving survey feature**. For example, after the user takes the first three questions, he or she can choose save and back to Home Screen. Later, he can re-take the survey and the answers to the first three questions should be display automatically.
- After the user answers the last question of the survey, your app will ask him or her to **submit the survey**. (For now, you just need to save these answers on your phone using **SharedPreferences**. Later, you may send answers to a remote server database)
- **Please see the next page for all survey questions.**

■ Result Activity

- This will display the **Result of the survey**. If the user has not taken the survey, you need to display appropriate message and user interface.
- In the **Result**, you must have a summary. You need to calculate the average score for Question 1 About the Instructor and Question 2 About the Course with the following assumption:
 Strongly Disagree = 1
 Disagree = 2
 Neutral = 3
 Agree = 4
 Strongly Agree = 5

THINGS TO NOTE

- You are responsible for **UI design**. UI design is a significant part of Android app development. This will account for 20% of this assignment's grade. UI must be intuitive, easy to read, and look nice.
- I don't want to take the joy of figuring things out away from you, but if you can't figure out
 - Ask me or your classmates
- If anything is unclear, please ask me. I'm very willing to help.

Extra credits

1. Have your app send the answers to the questions on the survey to a remote server if the user clicks "Submit" after completing the survey: (1% of your final grade)
 - **You need to set up a remote server. We have not covered how to do it this class. Therefore, I hope that you can figure it out on your own.**
 - **Hint: if you don't want to create your own server and SQL database, you can look into Firebase provided by Google.**
2. Prevent the user from taking the survey more than once. (10 points)

Course Evaluation Survey Questions:

1. About The Instructor

1.1 created an academic environment that supported the learning process.

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.2 modeled respect to others and the values of Fontbonne University.

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.3 demonstrated enthusiasm for teaching and learning

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.4 followed the policies outlined in the syllabus

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.5 presented the content in a logical and organized manner.

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.6 challenged me to think in new and different ways.

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.7 addressed the objectives stated in the syllabus.

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.8 encouraged my interest in the course

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.9 provided timely feedback

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.10 provided useful feedback

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.11 make her/his availability known

Strongly Disagree Disagree Neutral Agree Strongly Agree

1.12 Overall, the instructor effectively facilitated my learning

Strongly Disagree Disagree Neutral Agree Strongly Agree

2. About The Course

2.1 Syllabus clearly stated the learning objectives.

Strongly Disagree Disagree Neutral Agree Strongly Agree

2.2 Syllabus clearly stated the overall grading policy.	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
2.3 Assignments were clearly stated.	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
2.4 Assignments/activities/tests helped me attain the learning objectives	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
2.5 Grading criteria for assignments were clearly stated	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
2.6 Textbook and/or materials were helpful in attaining the learning objectives	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
2.7 Overall, I rate this course as excellent.	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree

3. Student Information

3.1 For me this course was:	required	Elective
3.2 My student classification is:	First-Year: 0-29 credit hours earned Sophomore: 30-59 credit hours earned Junior: 60-89 credit hours earned Senior: 90 or more credits hours earned Graduate Certificate Seeking Unclassified Other	
3.3 I regularly attended class:	Yes	No
3.4 I submitted homework on time:	Yes	No
3.5 I asked questions when I did not understand:	Yes	No

4. Comments About Instructor

5. Comments About Course