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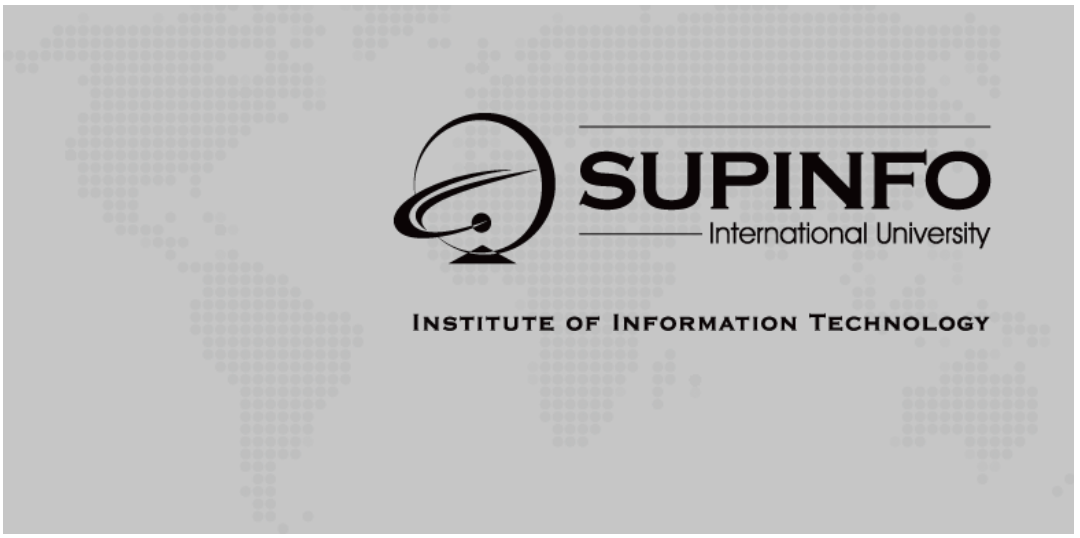

3AND – Android Programming Project

Document content

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1 CONTEXT

SUPINFO wants to create its Todo application and needs you to develop it. Because it needs to be powerful and scalable you naturally choose to use Android Technologies.
Two users can manage a todolist simultaneously.
Imagine, your friend is in a market and you realize the list isn't complete.
You add a soda in this list and simultaneously your friend has the modified list.
No more forgetfulness!

This project must be done by groups, each containing 3 or 4 students maximum. Working in a bigger group will be forbidden.

2 SPECIFICATIONS

The first version of this application will be composed of several functionalities listed below:

- Register
- Login/out
- Share a todolist with an another user
- Modify a todolist
- Read a totolist

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2.1 REGISTER

If no user is stored in the SQLITE database, you must display the activity to register.
When registering, users have to give some details about them, like username, first name, last name, email address and password.
Of course, you'll have to check user input.
Save the confirmed user in the Sqlite.
When the user registers him, it must log him in too.

The user can authenticate by the first activity with username and password

2.2 LOGIN/LOGOUT

The first activity is to login the user. If the user stored in the sqlite database is correct, this activity display a list of todolists. A click on a todolist display it in a new activity.

2.3 SHARE A TODOLIST WITH AN ANOTHER USER

In a menu, burger or flotting button, the current user can link the todolist with an another user.
For that, an input ask an username. If this other user have asked the current user, the link is validated and a new todolist is created.This todolist is share between current user and the other user.
You have a private todolist and you can add a todolist with an another user.
If the other user don't add you in his application the new todolist is private.
The application can have 50 todolist. 1 private and 49 shared.

2.4 MODIFY TODOLIST

If the user change a todolist, the todolist is update on the server.
Each Return key pressed update the list with the REST API.
After successful update you must refresh todolist.
The activity to modify a todolist must display if it's private or share with an another user.
If it's shared you add the name of the user at the top of activity.

2.5 READ TODOLIST

Every thirty seconds the smartphone refresh the displayed todolist.
If any change as made don't refresh.

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A todolist is share or private and have a property to define that.
A todolist have an id, a last update date, a text, an user as creator and an user invited NULLABLE.
If the property user_invited is NULL the todolist is private, else it's shared.

2.6 REST API

You can use http://supinfo.steve-colinet.fr/suptodo
or create your API if you want. If you create your api you must add api and instruction to use it.

2.7 INSTRUCTIONS

- Plagiarism is forbidden.
- Make accessible his code on a public sharing platform (as GitHub) before the end of the evaluation is forbidden.

Don't abiding by these rules will result in suspension of your assessment and will be considered cheating.

3 NOTATION

Functionalities	Points
Register an user	2
Login from database	2
Save the user in database	2
Modify todolist	2
Read with timer todolist	2
Use your private todolist	2
Use a todolist with an another user	2
This application block after 50 todolist	2
The list of todolist is ergonomic	2
Design	2
Code Quality & Conventions	2
TOTAL	**22/20**

4 RETURN

Return your graded exercise as a ZIP archive **before the end of this evaluation.** After that delay, your graded exercise **will not be corrected and the mark 0 will be assigned to you**.

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