Android App Instructions

Objective:
To develop an Android app that will register a login in a server every time the user connects to internet (via wifi or 3G) using his/her Android mobile phone or tablet. The app wil check for internet connection every **X** minutes and record an entry in the system with the username and date/time.

App requirements:
- Compatible with Android 2.0 and above **for mobile phones and 3.0 for tablets.**
- Load at boot. Automatically load once the phone / tablet is turned on.
- It should not consume too much energy from the battery

DETAILED INSTRUCTIONS

- Create the following tables in an external SQL server:

Table "User_Data"

Field name	Field type /description
User id	Number automatically created from 1 to infinite
User1_e-mail	E-mail
Password	Password
User2_e-mail	E-mail
Text message	Text. Max. 500 characters) with editable sample text: "This is a message"
Number	Number field showing a text next to it. User can write any number from 1 to 1440 or choose from the list including the following numbers: 1,2,6,12,24,48,72,120,144, 240, 360, 480, 720, 1440). Include an explanation next to each of this numbers in the list that could be easily edited later. Example: 1 "alpha" 2 "bravo" 6 "tango"
User1_Status	2 options: Active / Inactive

Table "Login_Data"

Field name	Field type /description
User id	From User_data table
Date_Time	Format CET ddmmyyyy_hhmmss

- Take a look at the attached diagram and follow the below mentioned instructions to configure the screens of the app.

Screen 1 (S1) setup
When user opens the app loads S1 by default immediately after the App starts. In case there is some user data stored in the Android device, proceed to load S4 instead.

Ask for login details:
- User1_email
- Password

If it is a new user, load S2 after click in on “new user”
If it is an existing user that forgot the password, load S3 after clicking in the “forgot your password” button.
Login button: Makes App to load at boot and activates the service.

Screen 2 (S2) setup
Ask for the user details and store the data in the “User data” external table after the user clicks on Create Account. It also makes app to load at boot and activates the service (=login button)
All fields are mandatory.
Store the User1_email and Password details internally in the Android Device.
Please mention where you plan to save this information.
Cancel Button returns user to S1.

Screen 3 (S3) setup
The user will write an email, and if the user is in the “User_Data” table, his password will be sent to this email; if not, then, a pop-up message will appear with showing “The user does not exist”.
If the user is not connected to Internet, a pop-up message will appear with the message “You don’t have Internet connection, please try again when you are online”.
Cancel Button returns user to S1.

Screen 4 (S4) setup
Loads immediately after the App starts if there is user data locally stored in the Android Device.
- If the user clicks on the “modify settings” button, check Internet connection and then load S5.
- If the user clicks on the “logout & exit” button, check Internet connection and then the column “User1_Status” in the external table “User_Data” will change to “Inactive”. After this, the service in the Android Device will stop and the App will close.
Once logged out, the app will not load after boot and it will not send any info to the external server.
- If the user clicks on “Exit only”, exit the app without stopping the service.
Note:
If the user is not connected to Internet when clicking on the “modify settings” or “logout & exit” button, a pop-up message will appear with the message “You don’t have Internet connection, please try again when you are online”.

Screen 5 (S5) setup
Check for Internet connection,
Show pre-populated fields with information from the external server of User1_email.
The user should be able to change all the fields.
If the user click on “Modify Account” button then the external table “User_Data” will be updated in the row of the User1_email. The password stored locally in the Android device will be also updated. All fields are mandatory.
Cancel Button returns user to S4.

app icon

Do I have the login info?

No

Yes

S1

Welcome to The App....

user: user

password: **********

forgot your password?

new user

login

S2 IF click on "new user"

but no data preloaded in the form

Provide your new account details

User 1-email

Password **********

User2-email

Text message: This is a message

Number field: 2 bravo

Cancel | Create Account

S3

IF click on "forgot your password?"

Forgot your password ?

Input your User1-email here

Send me the password

Cancel

S4

Hello, you are loged in as user1_email

Requires Internet connection

Modify Settings

Logout & Exit

Exit only

IF click on "Modify Settings" THEN

S5

Pre-populated fields with information from the external server of User1_email

Edit your login details

Password **********

User2-email

Text message: This is a message

Number field: 2 bravo

Cancel | Modify Account