Practical 2: Using databases and multiple screens

**Introduction**

In today’s tutorial we are going to try to solve the following problem:

* Create a dummy app that has a login page. To login you must enter a username and a password and this data must be checked against a database. The following logic should apply:
  + If the username does not exist, a message stating that the user does not exist should be displayed
  + If the username does exist but the password is invalid for that user, then a message stating that the password is invalid should be displayed.
  + If the username and password both exist, then a message informing of a successful login should be displayed. Also, a button should be displayed giving the user the option to proceed to the main menu
  + Note that in order to facilitate the administrator to login to the system, on start-up, an admin user where username = “admin”, password = “admin” should be added to the database. Note that the admin user should only be added if it does not exist already
* The system once you log into the main menu, should have an option to add a user.
* The add user screen should have the ability to add a user to the database
* Can anybody create a screen that outputs all user details?

**Main points of note**

Mainly includes the following:

* The ability to read and write to/from a database
* Introduce the concept of multiple screens
* Use of new controls such as password field
* Use of horizontal layout