Running the application

• Run MultiThreadedServerA2 first and enter DB authentication details (Figure 1)



Figure 1: authentication screen in server's UI

• upon successful DB authentication, the actual server screen will show up. This screen will display information about client-server connections and requests (Figure 2)

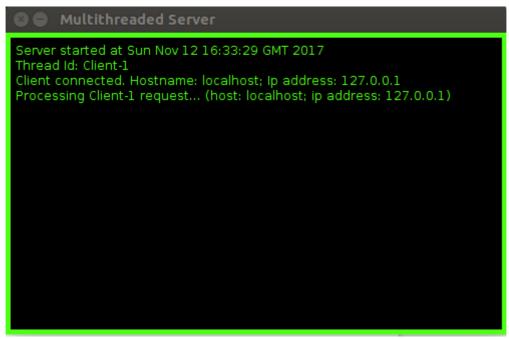


Figure 2: running server's window

• If the client starts first (without running server), following screen will show up (Figure 3)

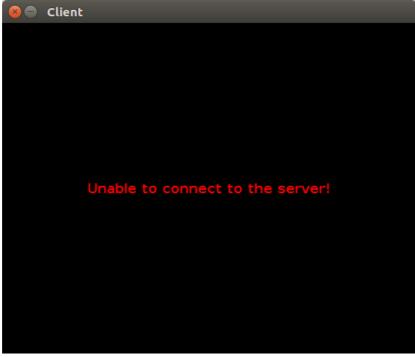


Figure 3: client's app started without server running

• with running server run ClientA2, following window will be shown (Figure 4)

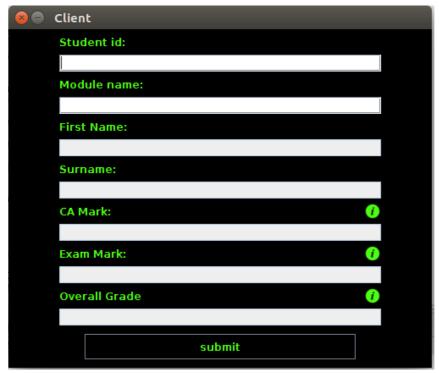


Figure 4: started client UI

Pawel Paszki 20063617 – Distributed Systems Assignment 2

• last 5 text fields are disabled – input will only be changed by the app, when grades details are populated. When hovering over info icons (green "i" icons in Figure 5 on the right hand side), tooltips are displayed, which provide explanation on how the marks are calculated



Figure 5: tooltips will be displayed, when hovering over 'i" icons

• Student id and Module name are validated. If incorrect inputs are provided, labels will show up (Figure 6). Additionally, when submit button is pressed with invalid data, text fields with invalid input provided will be highlighted in red (Figure 7).



Figure 6: invalid (or no) input warning labels



Figure 7: highlighted textfields with invalid input

When module name does not exist in the database, following info will be displayed (Figure 8):

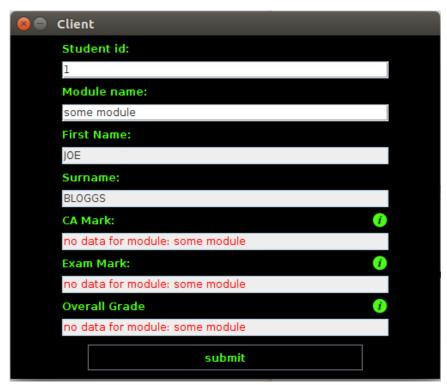


Figure 8: no specified module in the database

• when valid module is entered into textfield and student exists in the database, example data populated into client's UI will look like in Figure 9 below:

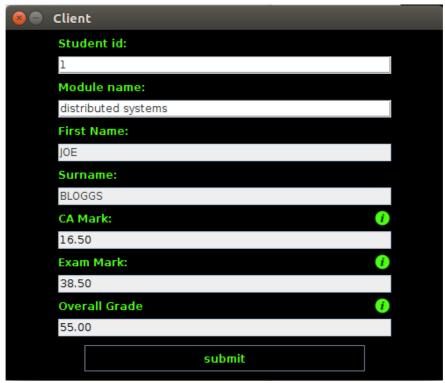


Figure 9: displaying data for existing student and module

Pawel Paszki 20063617 – Distributed Systems Assignment 2

• when student id passed to the server is not found in the database, the client will show up following message (no further request could be sent from this client window – Figure 10)

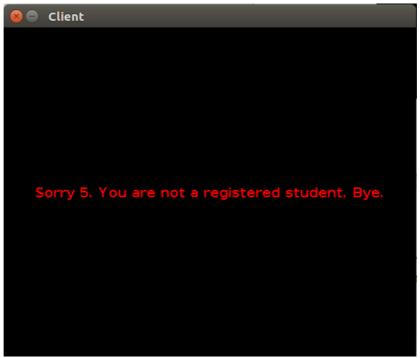


Figure 10: passing invalid student's id results in displaying appropriate warning

• when server is shut down and a request from the client is sent, following information will be displayed in the client's window (Figure 11 below)

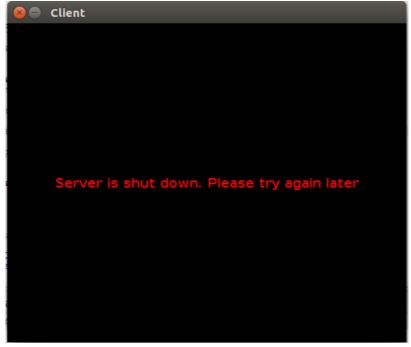


Figure 11: starting client app without server running